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NR band 77_High Band (IC) MultiView Spectrum
Ref Level 25.00 dBm . Mean Pwr + 20,00 dB 20 Mb Low Channel - Full RB - DFT-S-OFDM 20 Mb Low Channel - Full RB - CP-OFDM . 20 Mb Middle Channel - Full RB - DFT-S-OFDM 20 Mb Middle Channel - Full RB - CP-OFDM . .

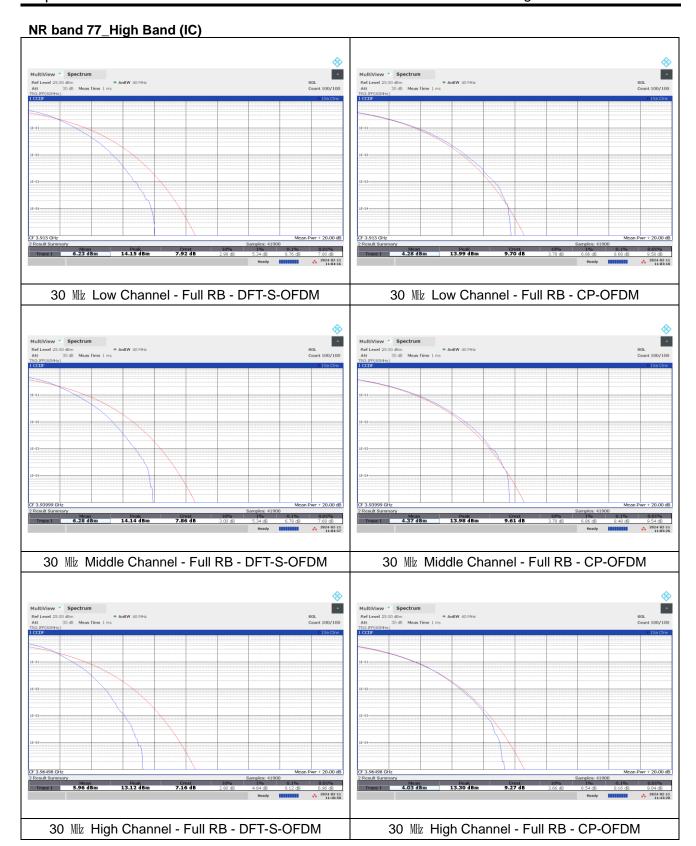
RTT7081-02(2020.10.05)(0) A4(210 mm x 297 mm)

20 Mb High Channel - Full RB - CP-OFDM



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NR band 77_High Band (IC) MultiView Spectrum
Ref Level 25.00 dBm . Mean Pwr + 20,00 dB 40 Mb Low Channel - Full RB - DFT-S-OFDM 40 Mb Low Channel - Full RB - CP-OFDM . 40 Mb Middle Channel - Full RB - DFT-S-OFDM 40 Mb Middle Channel - Full RB - CP-OFDM . .

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

40 Mb High Channel - Full RB - CP-OFDM



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NR band 77_High Band (IC) MultiView Spectrum
Ref Level 25.00 dBm . Mean Pwr + 20,00 dB 50 Mb Low Channel - Full RB - DFT-S-OFDM 50 Mb Low Channel - Full RB - CP-OFDM . 50 Mb Middle Channel - Full RB - DFT-S-OFDM 50 Mb Middle Channel - Full RB - CP-OFDM . .

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

50 Mb High Channel - Full RB - CP-OFDM



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NR band 77_High Band (IC) MultiView Spectrum
Ref Level 25.00 dBm . CF 3.93 GH Mean Pwr + 20.00 dB 60 Mb Low Channel - Full RB - DFT-S-OFDM 60 Mb Low Channel - Full RB - CP-OFDM . 60 Mb Middle Channel - Full RB - DFT-S-OFDM 60 Mb Middle Channel - Full RB - CP-OFDM . . Peak 14.57 dBn

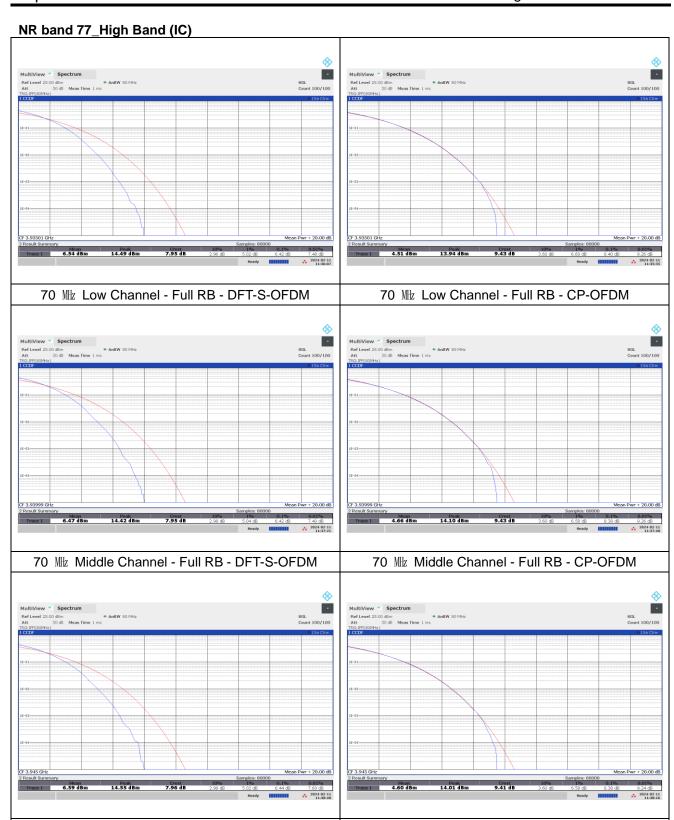
RTT7081-02(2020.10.05)(0) A4(210 mm x 297 mm)

60 Mb High Channel - Full RB - CP-OFDM



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

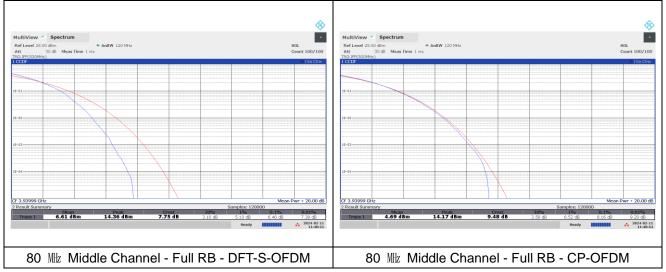
70 Mb High Channel - Full RB - CP-OFDM



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NR band 77_High Band (IC)





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6. Spurious Emissions at Antenna Terminal

6.1. Limit

FCC

- §27.53(I)(2), for mobile operations in the 3 700-3 980 Mb band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/Mb. Compliance with this paragraph (I)(2) 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kb. In the bands between 1 and 5 Mb removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kb. 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.
- $\S27.53(m)(4)$, for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10}(P) \, \mathrm{dB}$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10}(P) \, \mathrm{dB}$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10}(P) \, \mathrm{dB}$ 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 $43 + 10 \log_{10}(P) \, \mathrm{dB}$ on all frequencies between 2 490.5 Mb and 2 496 Mb and $55 + 10 \log_{10}(P) \, \mathrm{dB}$ 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.
- §27.53(n)(2), for mobile operations in the 3 450-3 550 Mb band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/Mb. Compliance with this paragraph (n)(2) 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 Mb removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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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IC

- RSS-192 Issue 5

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. If the transmitter is designed for multi-carrier operation, the tests shall be carried out using both the maximum and minimum number of carriers intended for the equipment.

- 5.6.3, subscriber equipment shall have the TRP or conducted power (per antenna), where applicable, of unwanted emission not exceeding the following:
- a. the limits in table 6
- b. a limit of -30 dBm/Mb in the frequency range greater than (B+5) Mb from the edge of the frequency band

Table 6: Unwanted emission limits for subscriber equipment

Frequency block	Offset frequency from the edge of the frequency block group (Mb)			
group (B)	0-1	1-5	5-B	>B
10 Mb, 20 Mb, 30 Mb and 40 Mb	-13 dBm/1% of B	-10 dB m/ ////k	-13 dB m/ Mb	-25 dB m /Mb
> 40 Mb	-13 dBm/400 kHz	-10 dB m /Mb	-13 dB m /Mb	-25 dB m /₩b

- RSS-198 Issue 1

5.6, unwanted emissions shall be measured in term of average value 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.

5.6.1, the unwanted emission outside the frequency block group shall not exceed the TRP or total conducted power (sum of conducted power across all antenna connectors) limits as specified in table 2.

Table 2: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (Mb)	Unwanted emission limits for all equipment
≤1	-13 dBm/1% OB*
>1	-13 dBm/M₺

^{*}OB is the occupied bandwidth



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- 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 4: Unwanted emission limits for fixed station, base station and fixed subscriber equipment

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

^{*} OB is the occupied bandwidth

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 (酏)	Unwanted emission limit
0-1	-10 dB m/(2% of OB*)
1-5	-10 dB m /M b z
5-X**	-13 dB m /Mb
≥X	-25 dB m /₩z

^{*} 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 dB m/M $_{\odot}$ on all frequencies between 2 490.5 M $_{\odot}$ and 2 496 M $_{\odot}$, and -25 dB m/M $_{\odot}$ at or below 2 490.5 M $_{\odot}$.

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



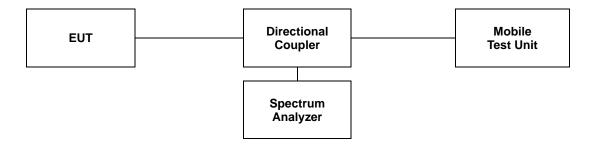
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6.2. Test Procedure

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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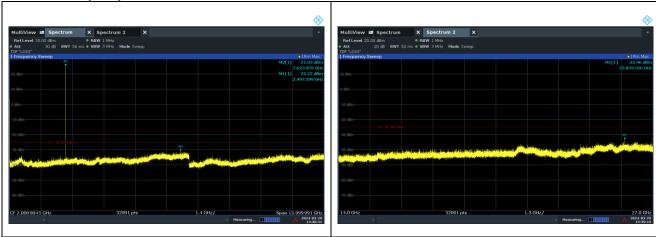
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6.3. Test Results

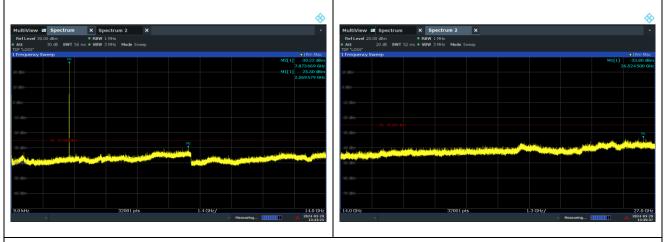
Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

- Test plots

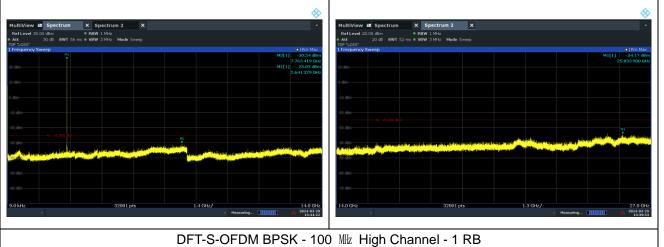
NR band 41 (FCC)



DFT-S-OFDM BPSK - 100 Mb Low Channel - 1 RB



DFT-S-OFDM BPSK - 100 Mb Middle Channel - 1 RB



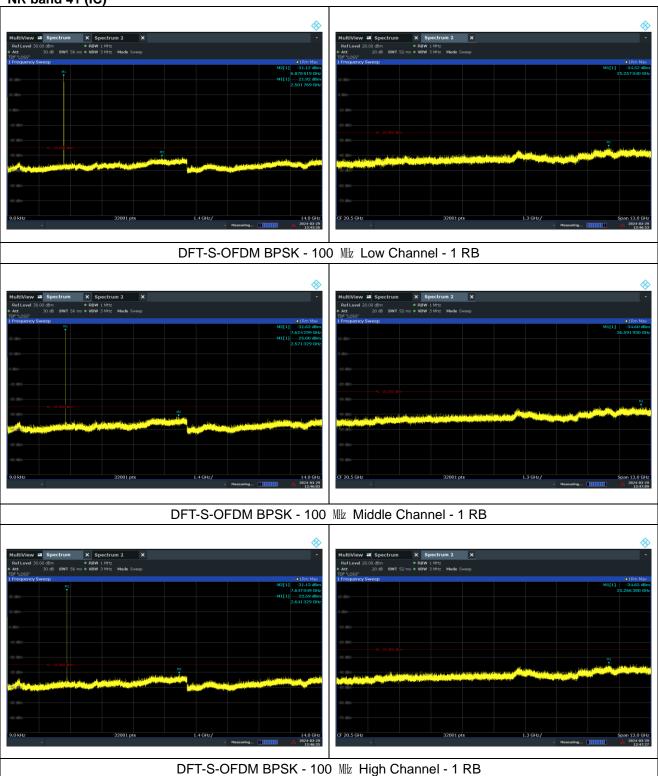
Direction bir bit at 100 mm riight chainlei 11tb



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NR band 41 (IC)





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NR band 48 (IC)

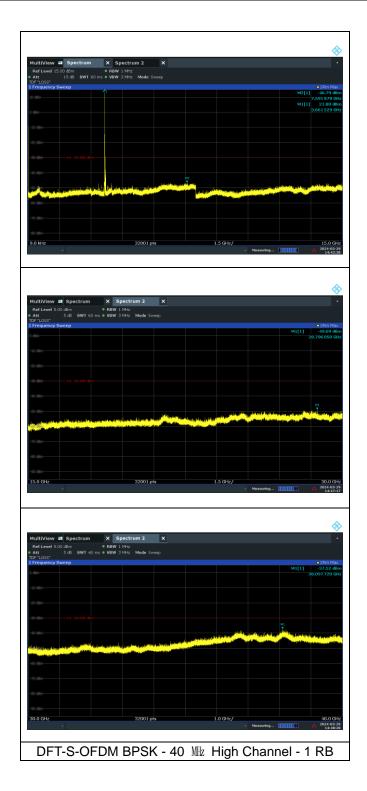




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NR band 48 (IC)

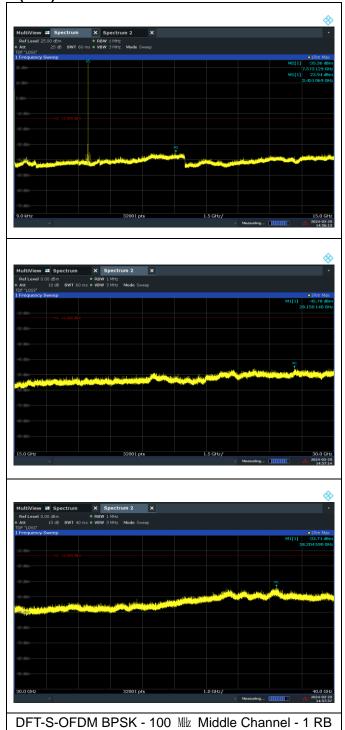




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NR band 77/78_Low Band (FCC)





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NR band 77/78_High Band (FCC)

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

DFT-S-OFDM BPSK - 100 Mz Middle Channel - 1 RB

DFT-S-OFDM BPSK - 100 Mb Low Channel - 1 RB



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NR band 77/78_High Band (FCC)





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NR band 77/78_Low Band (IC)

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

DFT-S-OFDM BPSK - 100 Mb Middle Channel - 1 RB

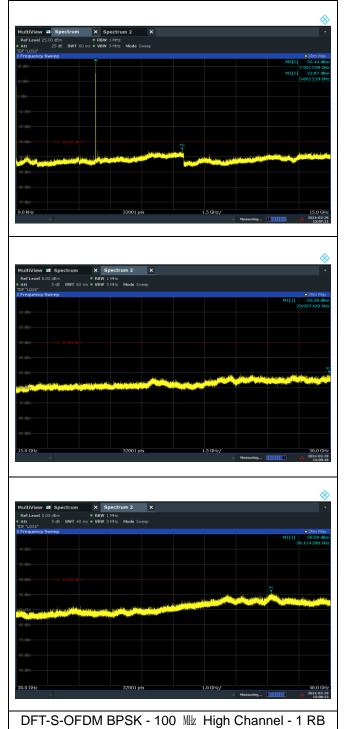
DFT-S-OFDM BPSK - 100 Mb Low Channel - 1 RB



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NR band 77/78_Low Band (IC)

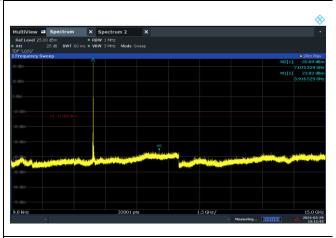


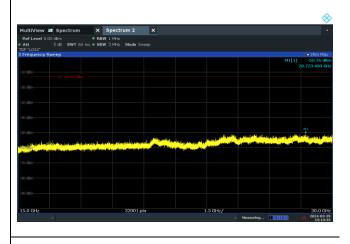


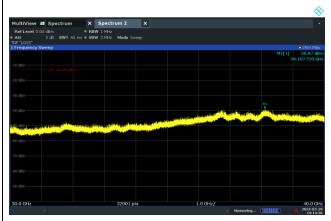
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NR band 77_High Band (IC)







DFT-S-OFDM BPSK - 80 Mb Middle Channel - 1 RB



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7. Band Edge and Emission Mask

7.1. Limit

FCC

- §27.53(I)(2), for mobile operations in the 3 700-3 980 Mb band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/Mb. Compliance with this paragraph (I)(2) 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 klb. In the bands between 1 and 5 Mb removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 klb. 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.
- $\S27.53(m)(4)$, for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10}(P) \, \mathrm{dB}$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10}(P) \, \mathrm{dB}$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10}(P) \, \mathrm{dB}$ 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 $43 + 10 \log_{10}(P) \, \mathrm{dB}$ on all frequencies between 2 490.5 Mb and 2 496 Mb and $55 + 10 \log_{10}(P) \, \mathrm{dB}$ 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.
- §27.53(n)(2), for mobile operations in the 3 450-3 550 Mb band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/Mb. Compliance with this paragraph (n)(2) 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, but limited to a maximum of 200 kdz. In the bands between 1 and 5 Mb removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kdz. 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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IC

- RSS-192 Issue 5

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. If the transmitter is designed for multi-carrier operation, the tests shall be carried out using both the maximum and minimum number of carriers intended for the equipment.

- 5.6.3, subscriber equipment shall have the TRP or conducted power (per antenna), where applicable, of unwanted emission not exceeding the following:
- a. the limits in table 6
- b. a limit of -30 dBm/Mb in the frequency range greater than (B+5) Mb from the edge of the frequency band

Table 6: Unwanted emission limits for subscriber equipment

Frequency block	Offset frequency from the edge of the frequency block group (Mb)			
group (B)	0-1	1-5	5-B	>B
10 Mb, 20 Mb, 30 Mb and 40 Mb	-13 dBm/1% of B	-10 dB m/ ////kz	-13 dB m/ Mb	-25 dBm/Mb
> 40 Mb	-13 dBm/400 kHz	-10 dB m /Mb	-13 dB m /Mb	-25 dB m /₩b

- RSS-198 Issue 1

5.6, unwanted emissions shall be measured in term of average value 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.

5.6.1, the unwanted emission outside the frequency block group shall not exceed the TRP or total conducted power (sum of conducted power across all antenna connectors) limits as specified in table 2.

Table 2: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (Mb)	Unwanted emission limits for all equipment
≤1	-13 dBm/1% OB*
>1	-13 dB m /M±z

^{*}OB is the occupied bandwidth



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- 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 4: Unwanted emission limits for fixed station, base station and fixed subscriber equipment

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

^{*} OB is the occupied bandwidth

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 (地)	Unwanted emission limit
0-1	-10 dB m/(2% of OB*)
1-5	-10 dB m/Mb
5-X**	-13 dB m/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 dB m/M $_{\odot}$ on all frequencies between 2 490.5 M $_{\odot}$ and 2 496 M $_{\odot}$, and -25 dB m/M $_{\odot}$ at or below 2 490.5 M $_{\odot}$.

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



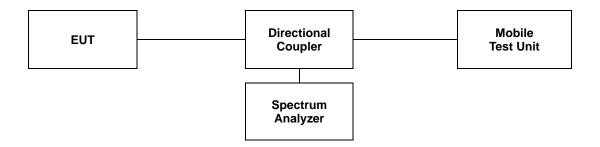
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7.2. Test Procedure

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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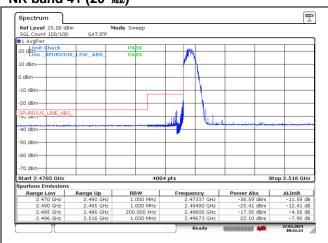
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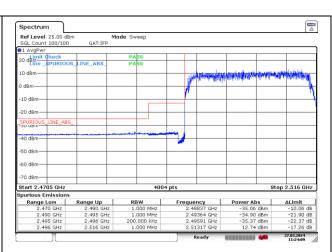
7.3. Test Results

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

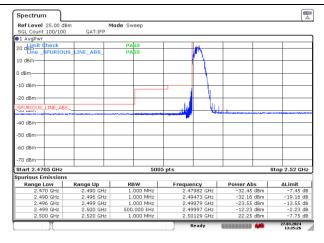
- Test plots

NR band 41 (20 Mb)

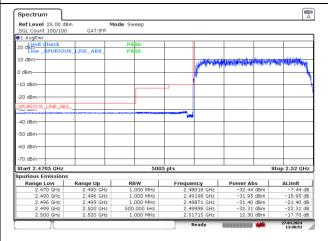




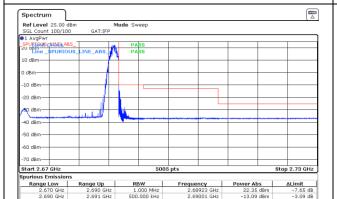
DFT-S-OFDM BPSK - FCC Low Channel - 1 RB



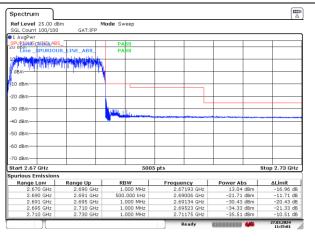
DFT-S-OFDM BPSK - FCC Low Channel - Full RB



DFT-S-OFDM BPSK - IC Low Channel - 1 RB



DFT-S-OFDM BPSK - IC Low Channel - Full RB



DFT-S-OFDM BPSK - High Channel - 1 RB

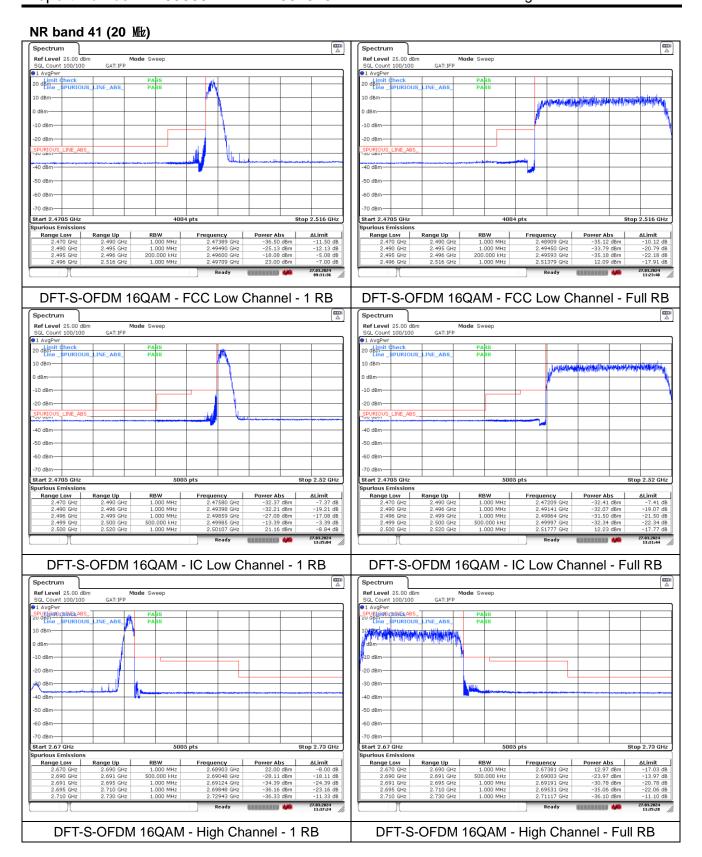
DFT-S-OFDM BPSK - High Channel - Full RB

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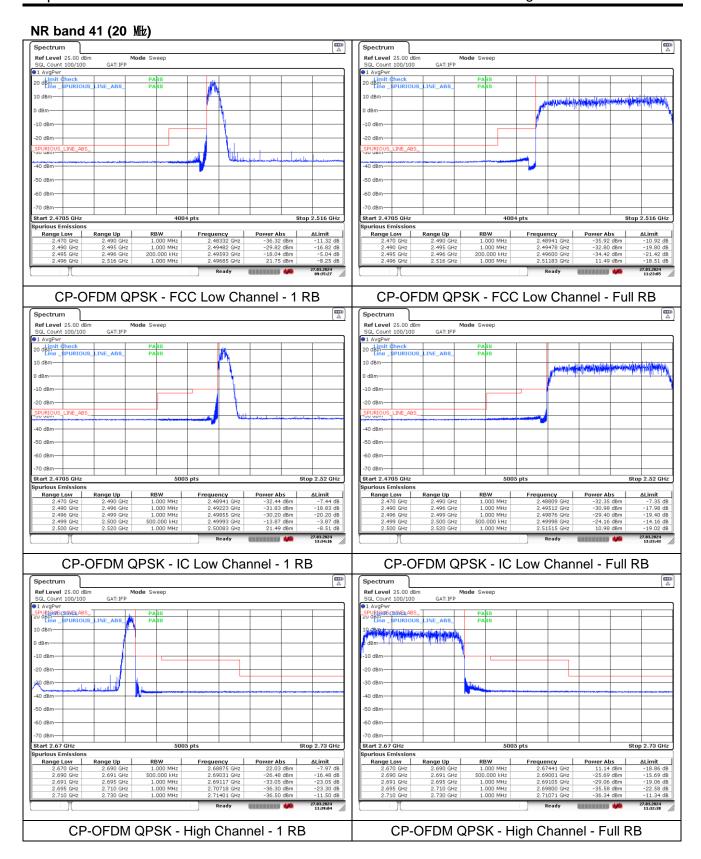
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