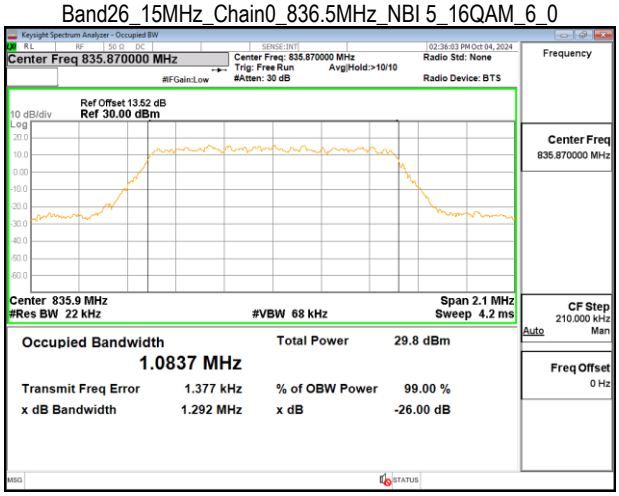
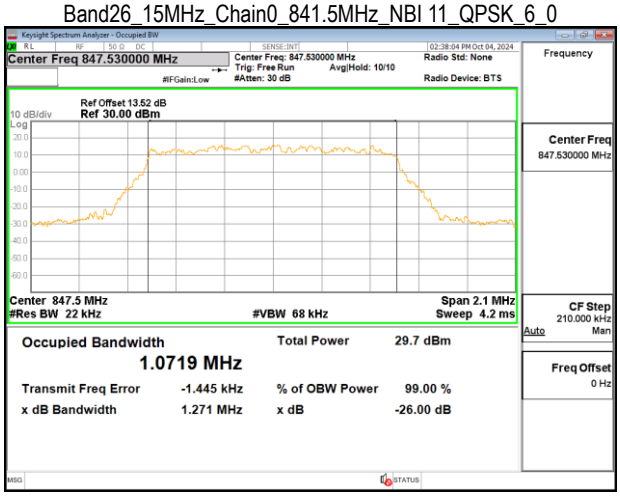
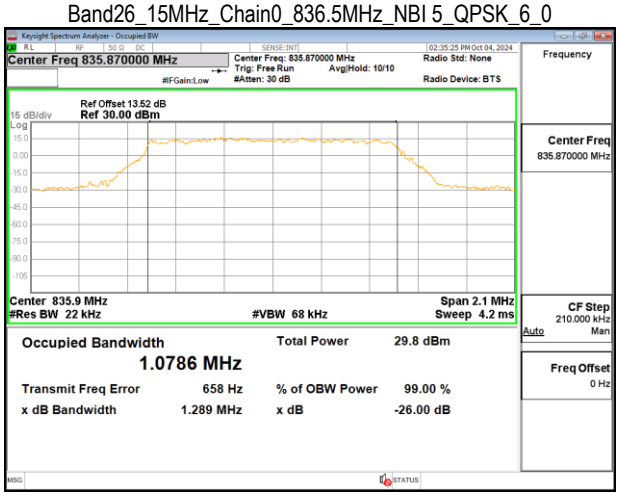
Band26_15MHz_Chain0_836.5MHz_NBI 5_16QAM_6_0



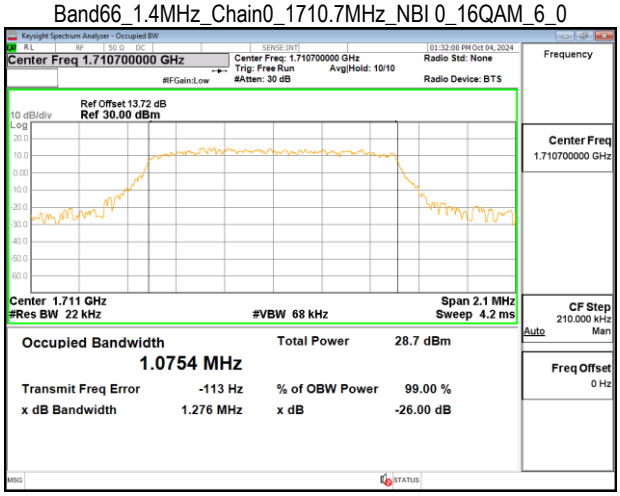
Band26_15MHz_Chain0_841.5MHz_NBI 11_QPSK_6_0



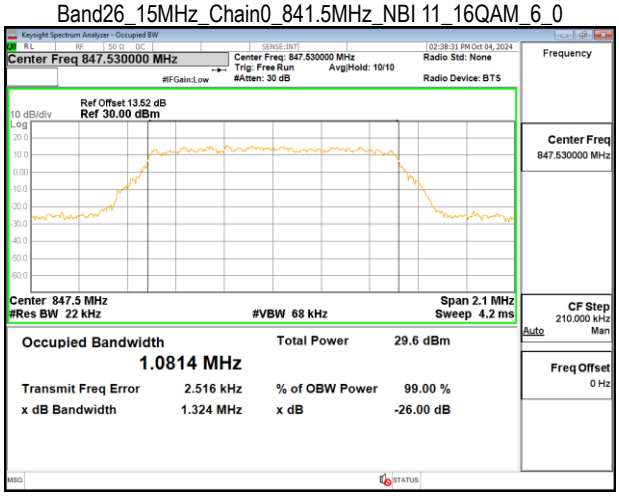
Band26_15MHz_Chain0_836.5MHz_NBI 5_QPSK_6_0



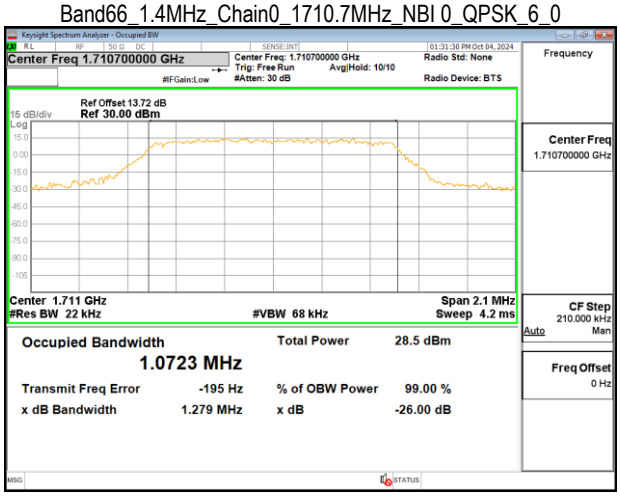
Band66_1.4MHz_Chain0_1710.7MHz_NBI 0_16QAM_6_0



Band26_15MHz_Chain0_841.5MHz_NBI 11_16QAM_6_0



Band66_1.4MHz_Chain0_1710.7MHz_NBI 0_QPSK_6_0



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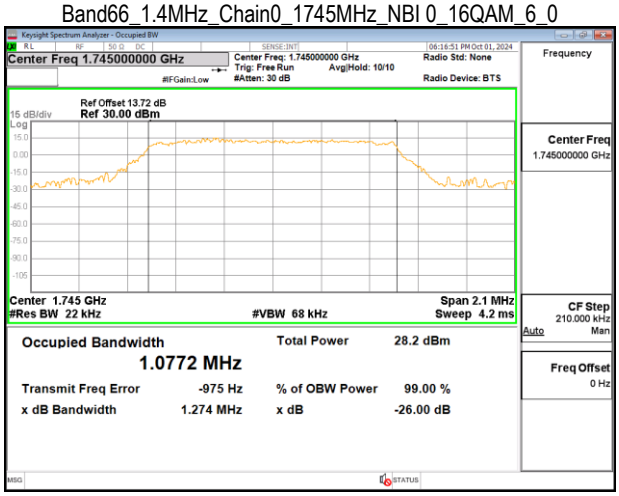
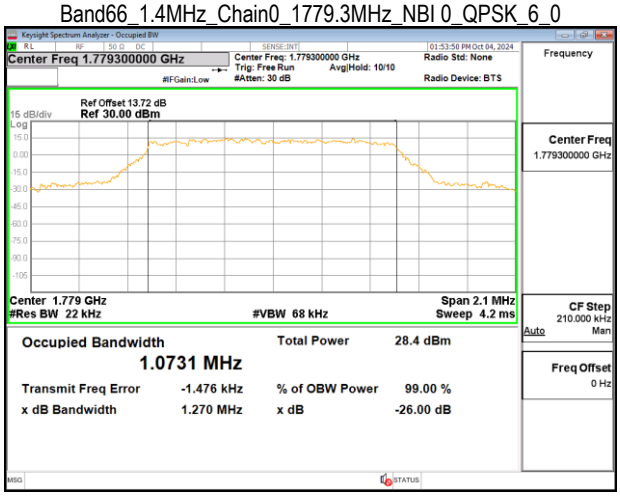
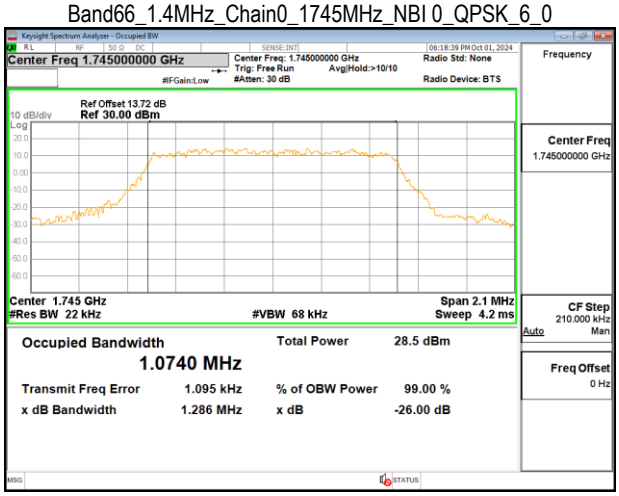
Band66_1.4MHz_Chain0_1745MHz_NBI 0_16QAM_6_0



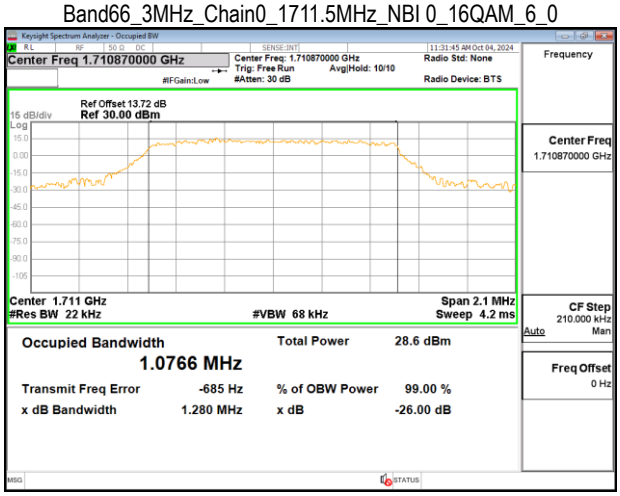
Band66_1.4MHz_Chain0_1779.3MHz_NBI 0_QPSK_6_0



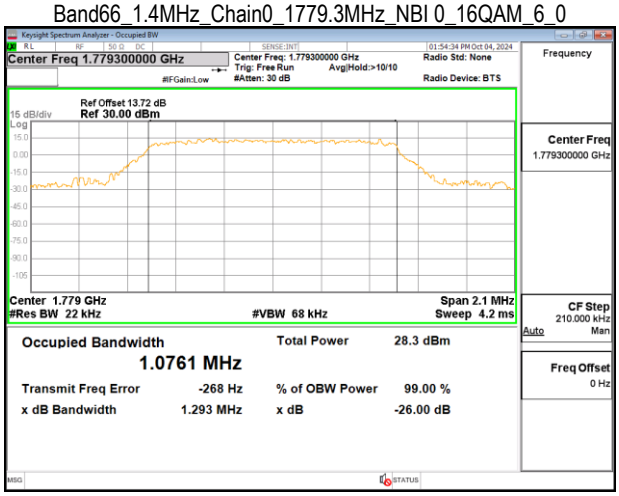
Band66_1.4MHz_Chain0_1745MHz_NBI 0_QPSK_6_0



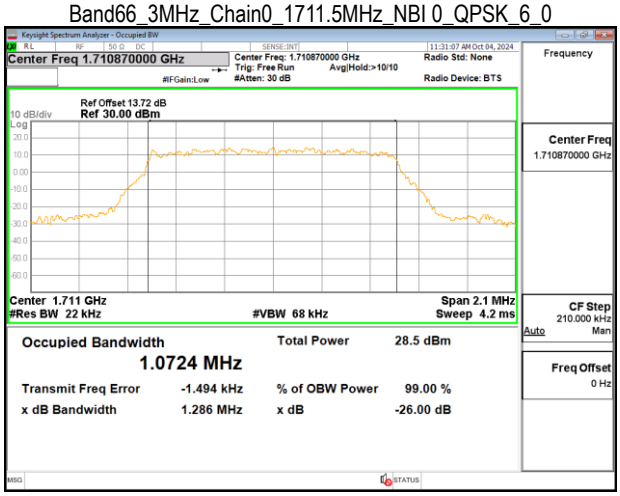
Band66_3MHz_Chain0_1711.5MHz_NBI 0_16QAM_6_0



Band66_1.4MHz_Chain0_1779.3MHz_NBI 0_16QAM_6_0



Band66_3MHz_Chain0_1711.5MHz_NBI 0_QPSK_6_0



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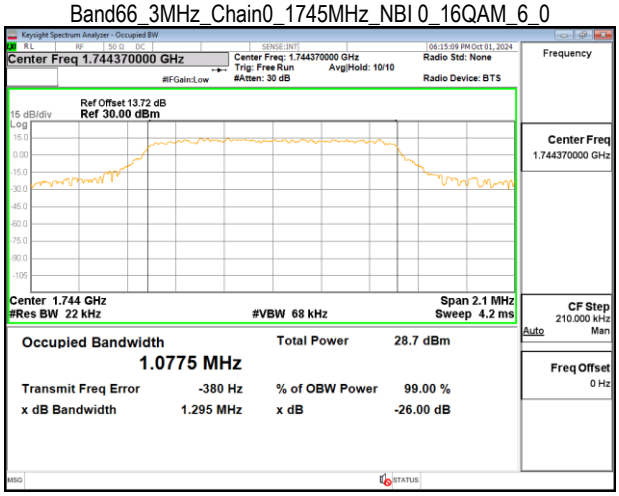
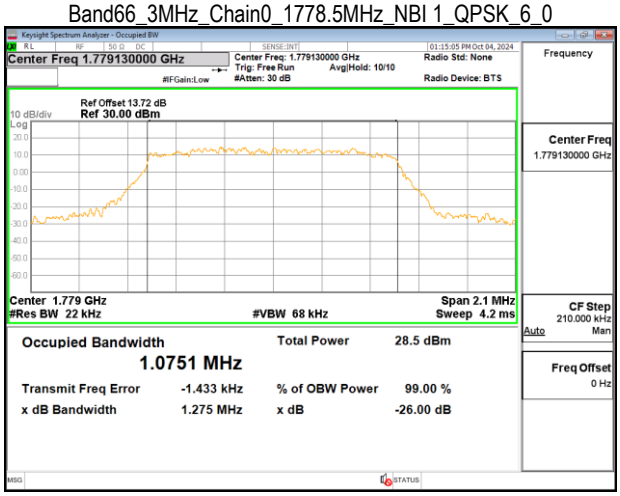
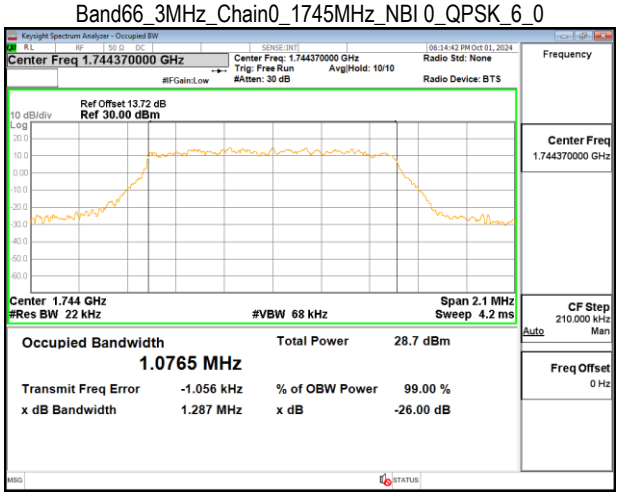
Band66_3MHz_Chain0_1745MHz_NBI 0_16QAM_6_0



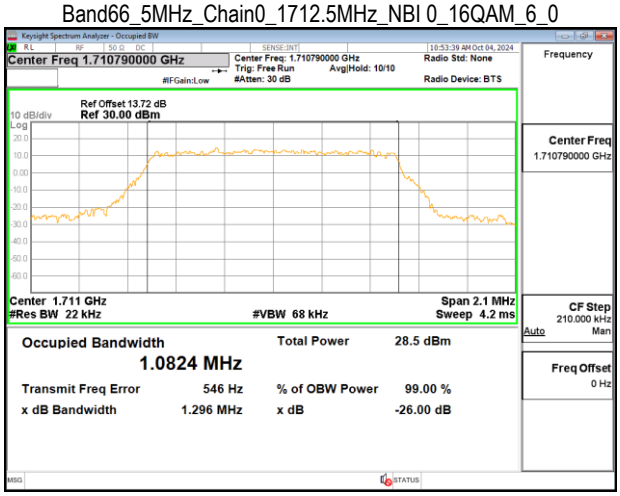
Band66_3MHz_Chain0_1778.5MHz_NBI 1_QPSK_6_0



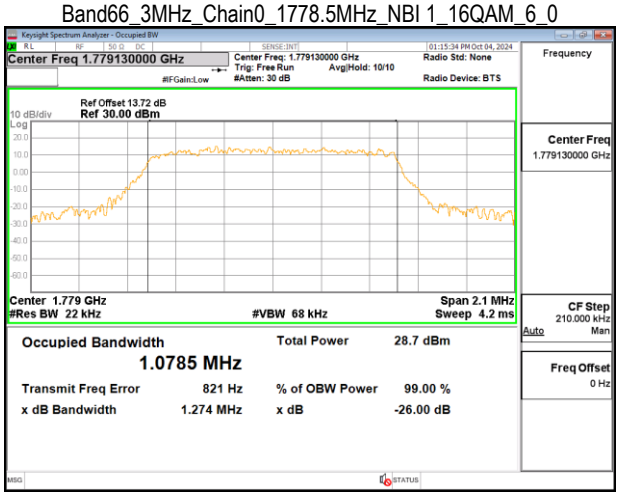
Band66_3MHz_Chain0_1745MHz_NBI 0_QPSK_6_0



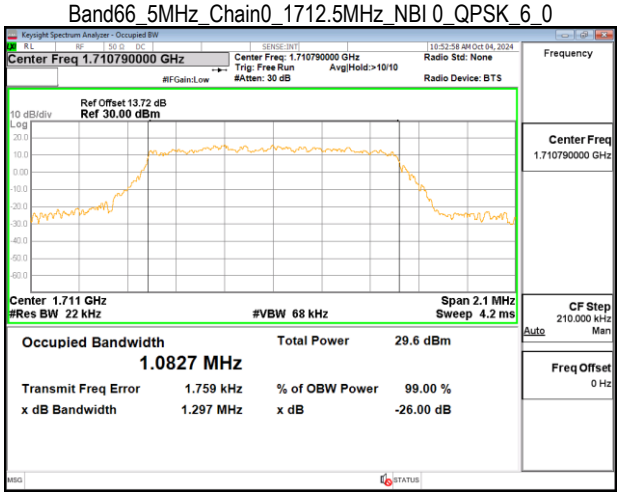
Band66_5MHz_Chain0_1712.5MHz_NBI 0_16QAM_6_0



Band66_3MHz_Chain0_1778.5MHz_NBI 1_16QAM_6_0



Band66_5MHz_Chain0_1712.5MHz_NBI 0_QPSK_6_0



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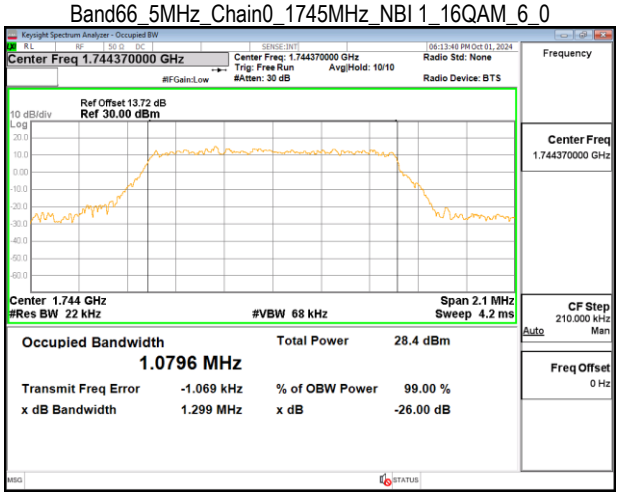
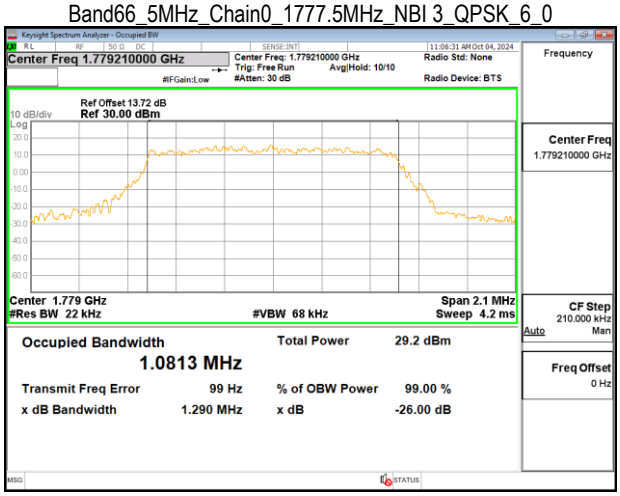
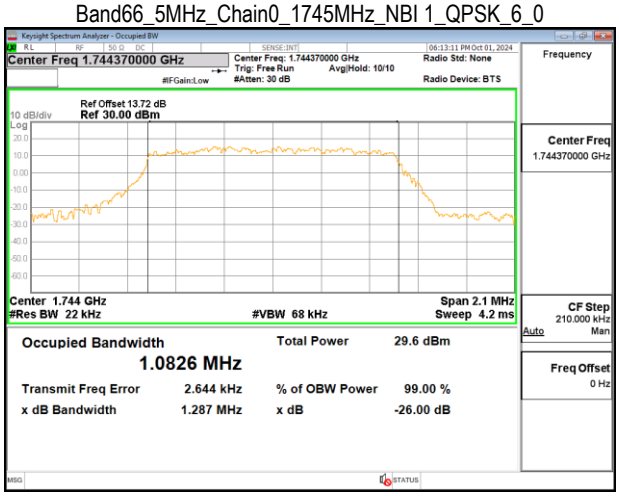
Band66_5MHz_Chain0_1745MHz_NBI 1_16QAM_6_0



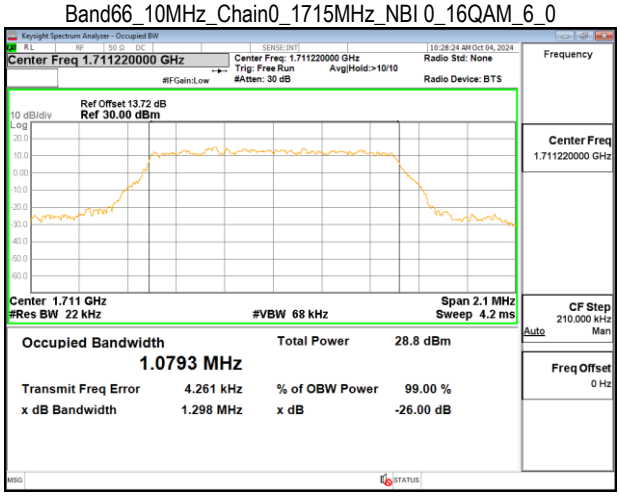
Band66_5MHz_Chain0_1777.5MHz_NBI 3_QPSK_6_0



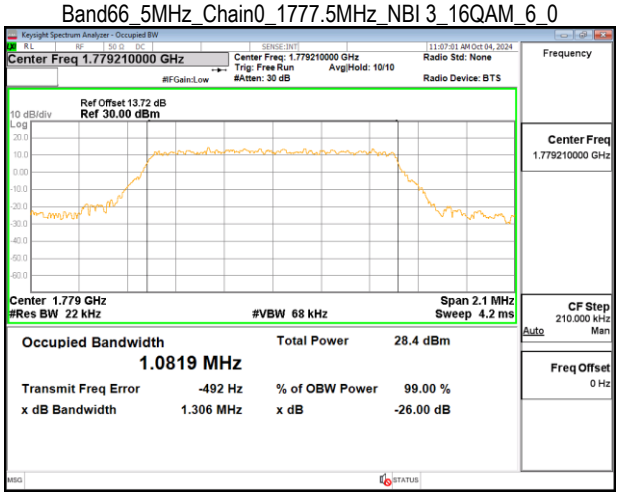
Band66_5MHz_Chain0_1745MHz_NBI 1_QPSK_6_0



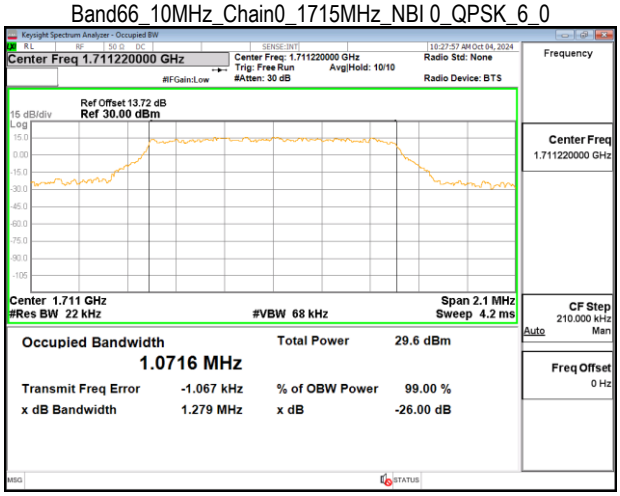
Band66_10MHz_Chain0_1715MHz_NBI 0_16QAM_6_0



Band66_5MHz_Chain0_1777.5MHz_NBI 3_16QAM_6_0



Band66_10MHz_Chain0_1715MHz_NBI 0_QPSK_6_0



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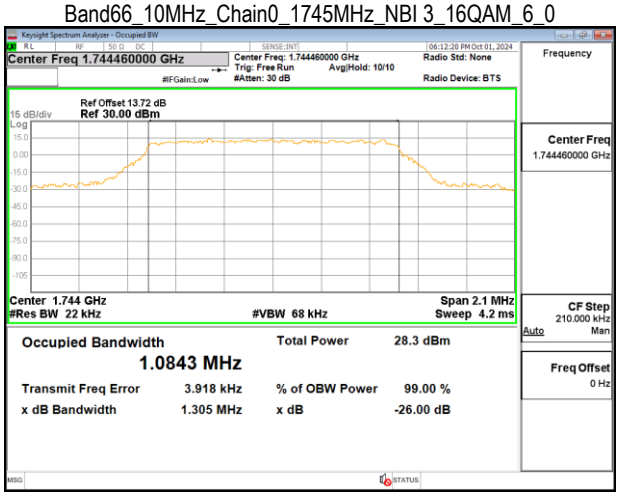
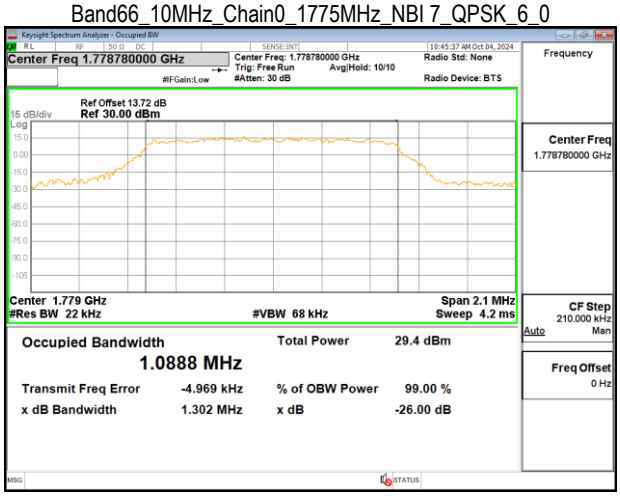
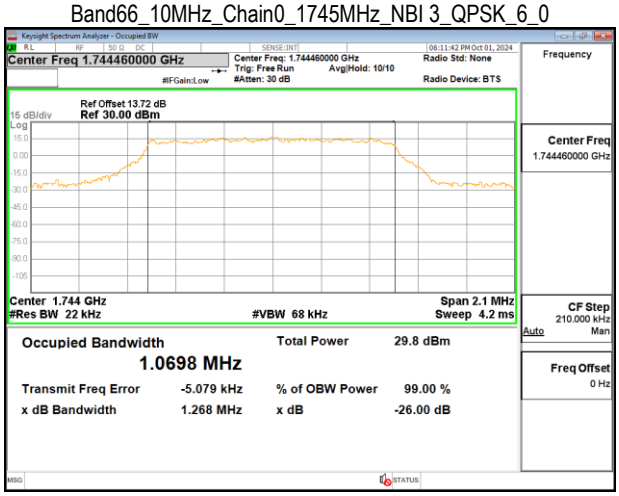
Band66_10MHz_Chain0_1745MHz_NBI 3_16QAM_6_0



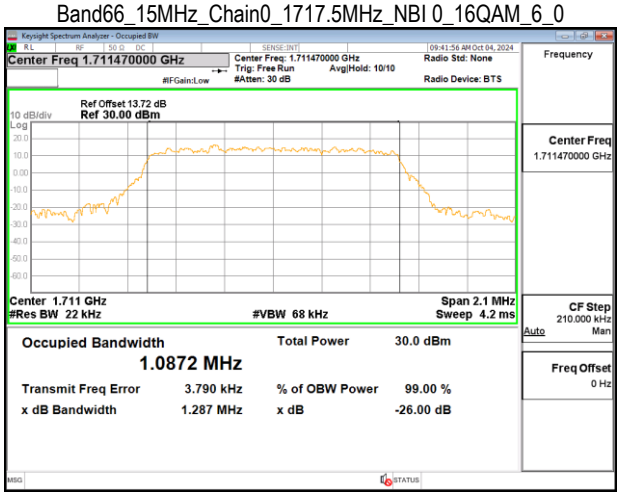
Band66_10MHz_Chain0_1775MHz_NBI 7_QPSK_6_0



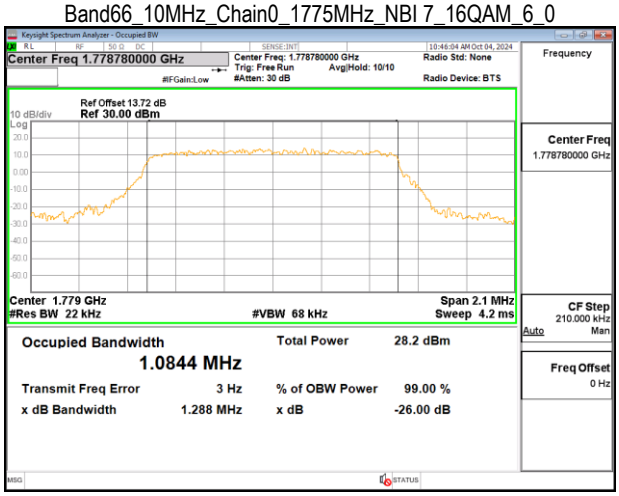
Band66_10MHz_Chain0_1745MHz_NBI 3_QPSK_6_0



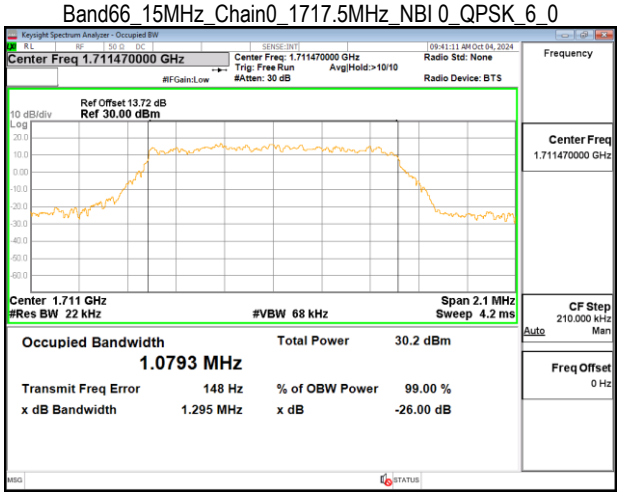
Band66_15MHz_Chain0_1717.5MHz_NBI 0_16QAM_6_0



Band66_10MHz_Chain0_1775MHz_NBI 7_16QAM_6_0



Band66_15MHz_Chain0_1717.5MHz_NBI 0_QPSK_6_0



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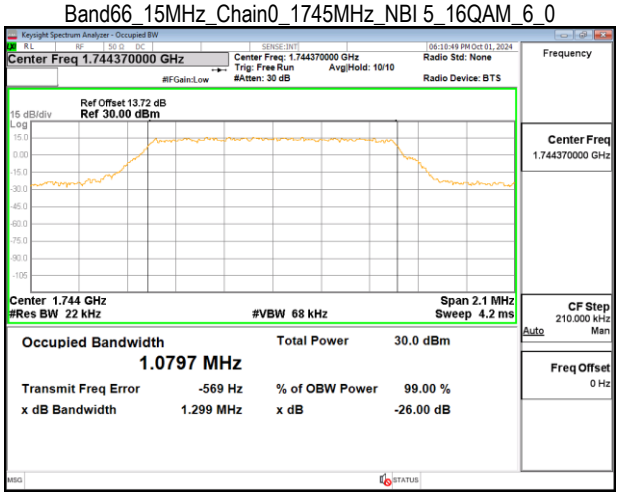
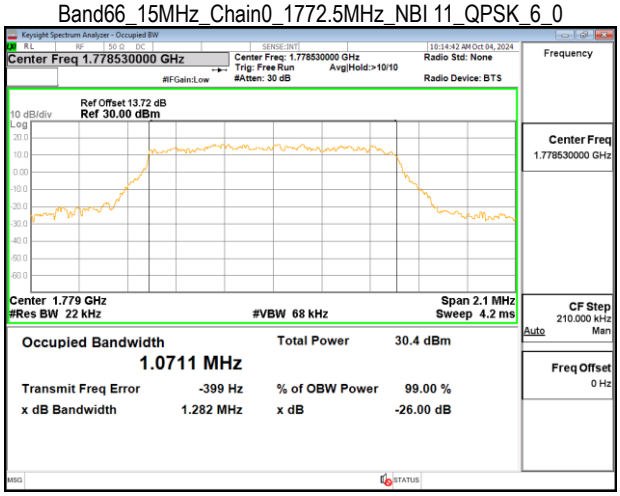
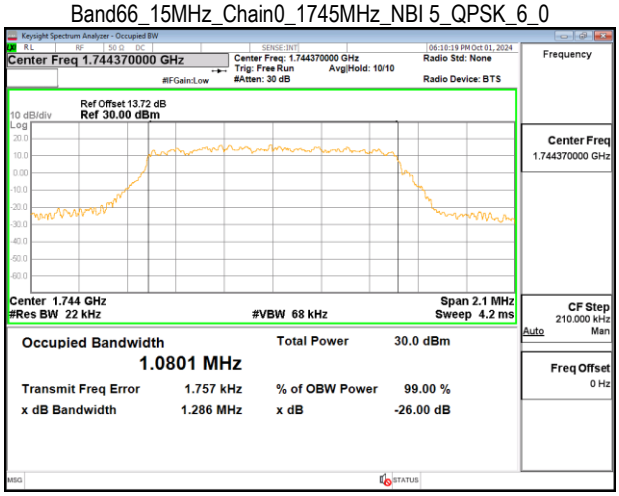
Band66_15MHz_Chain0_1745MHz_NBI 5_16QAM_6_0



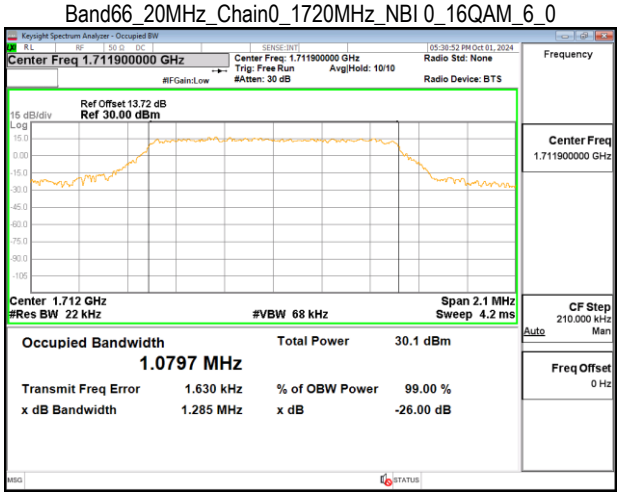
Band66_15MHz_Chain0_1772.5MHz_NBI 11_QPSK_6_0



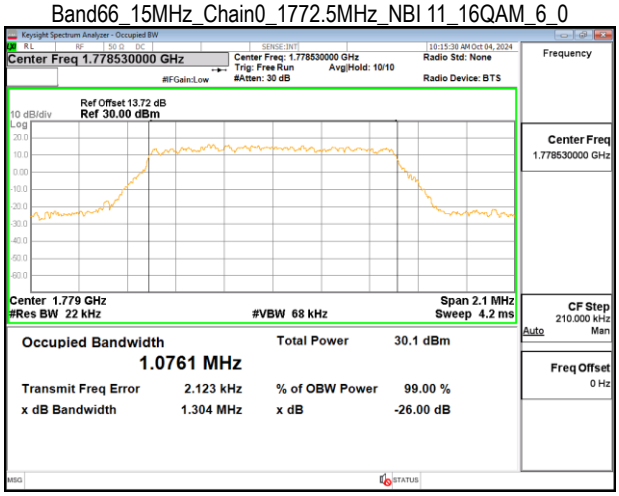
Band66_15MHz_Chain0_1745MHz_NBI 5_QPSK_6_0



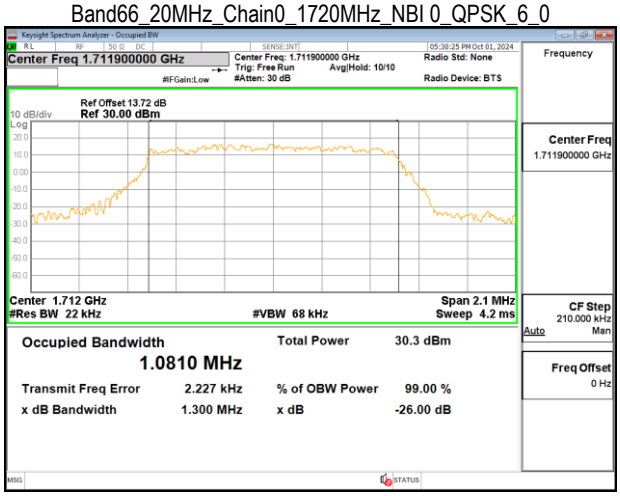
Band66_20MHz_Chain0_1720MHz_NBI 0_16QAM_6_0



Band66_15MHz_Chain0_1772.5MHz_NBI 11_16QAM_6_0



Band66_20MHz_Chain0_1720MHz_NBI 0_QPSK_6_0



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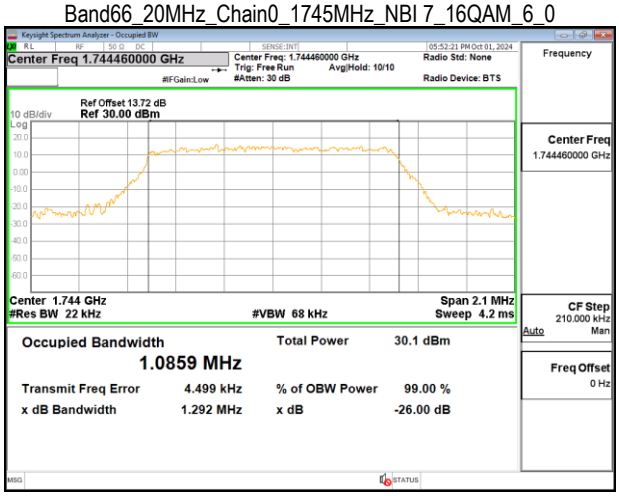
Band66_20MHz_Chain0_1745MHz_NBI 7_16QAM_6_0



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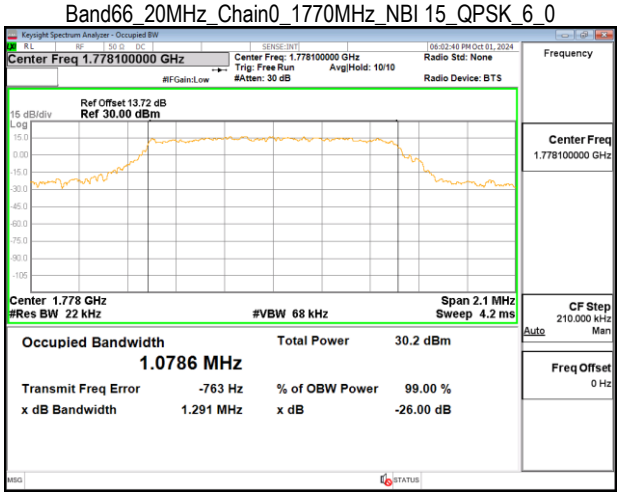

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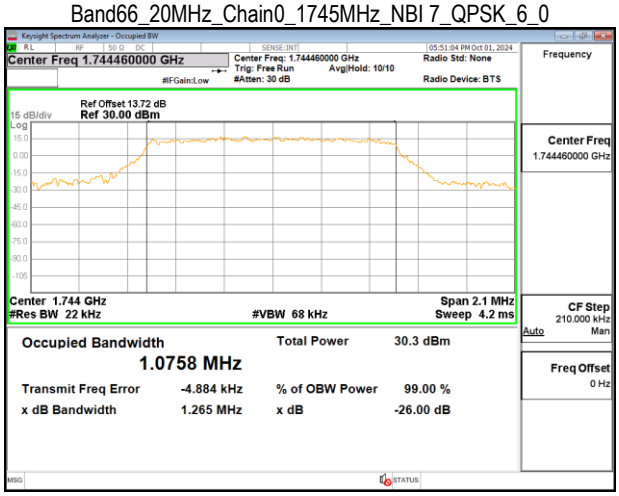

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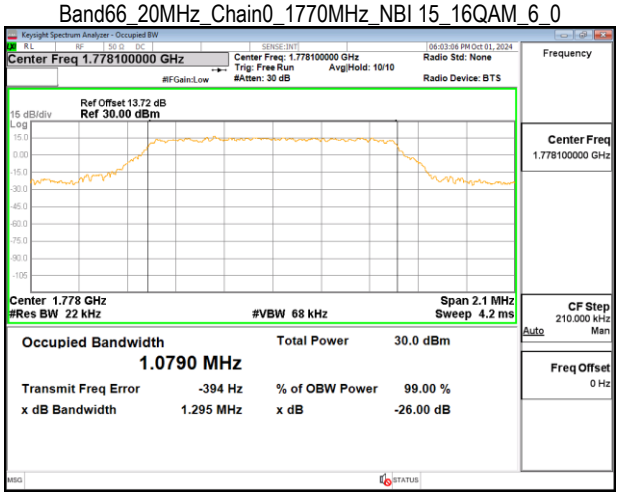

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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)
RSS-130 §4.7, RSS-132 §5.5, RSS-133 §5.6, RSS-139 §5.6
Out of band emissions.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.

FCC §27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(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;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

ISED RSS-130 §4.7.1

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz 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 (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

ISED RSS-130 §4.7.2 for LTE B13

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:
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 (dBW), by at least:

76 + 10 log10 p (watts), dB, for base and fixed equipment and
65 + 10 log10 p (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed −70 dBW/MHz for wideband signal and −80 dBW for discrete emission with bandwidth less than 700 Hz.

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ISED RSS-132 §5.5

i. Equipment shall meet the unwanted emission limits specified below:

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 below the transmitter output power P (dBW) by at least 43 + 10 log(p) dB.

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 below the transmitter output power P (dBW) by at least 43 + 10 log(p) dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

ISED RSS-133 §5.6

Unwanted emissions shall be measured in terms of average values while 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 in table 3, 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 MHz bands 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 (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz RSS-133 6 measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, 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 table 3.

Table 3: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limits
≤1	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels.* Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 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.

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RSS-139 §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: Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	**Unwanted emission limits**
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

*OB is the occupied bandwidth.

In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

FCC §90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

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

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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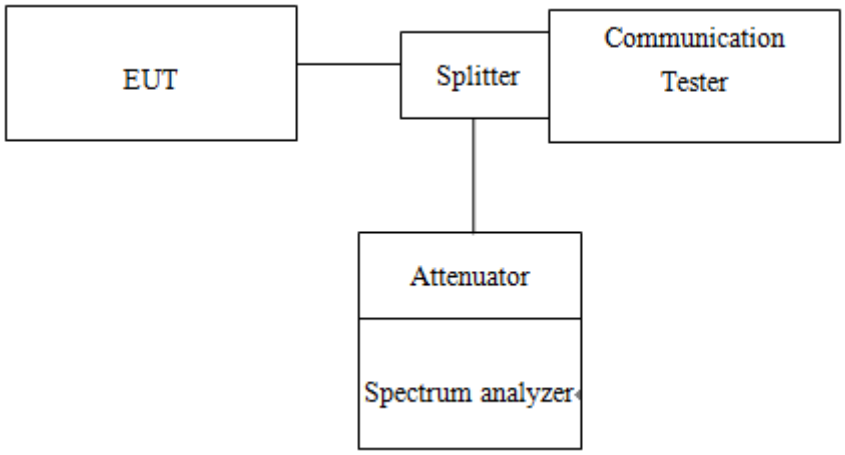
9.2 Test Set-up



9.3 Measurement Procedure

9.3.1 Conducted Emission

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

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

9.3.2 Band Edge

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

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9.4 Measurement Result:

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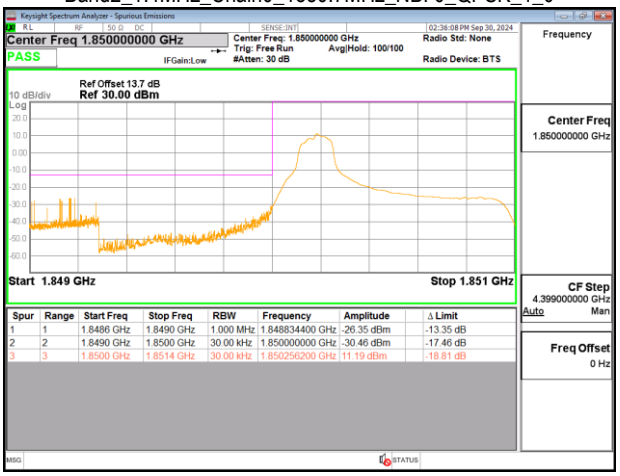

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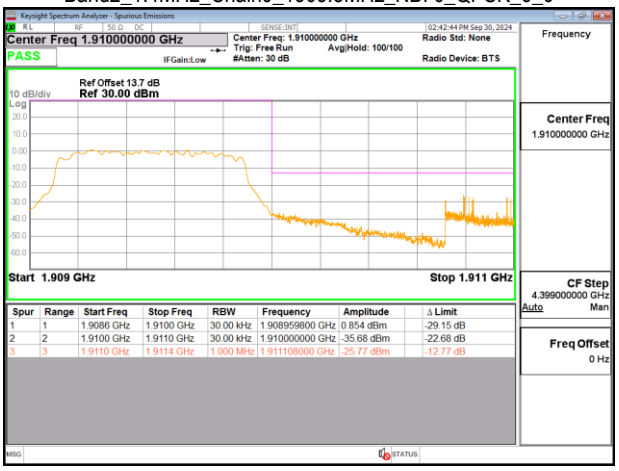

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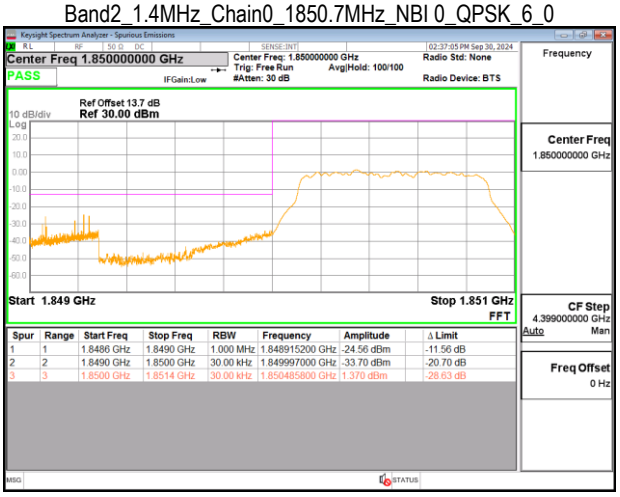

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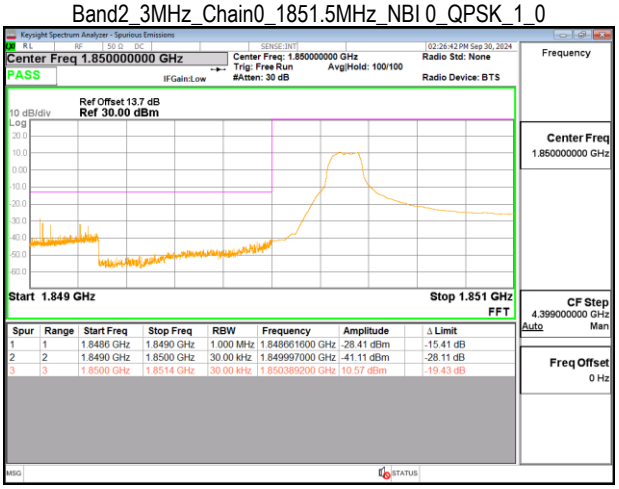

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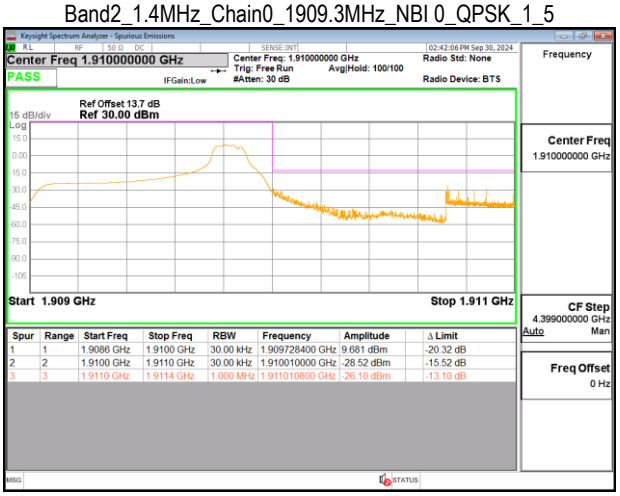
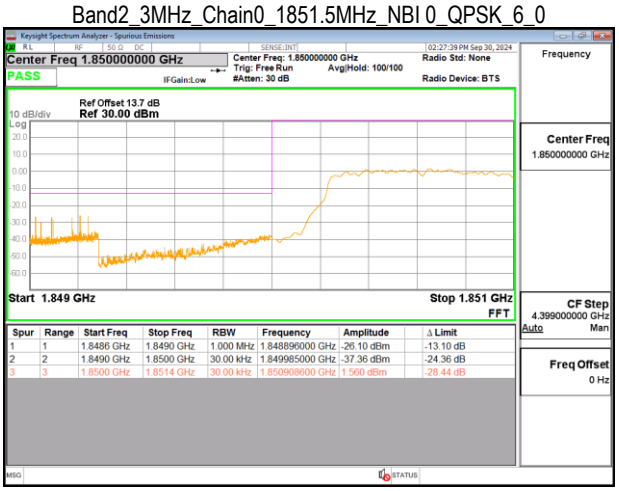


Band2_3MHz_Chain0_1851.5MHz_NBI 0_QPSK_6_0



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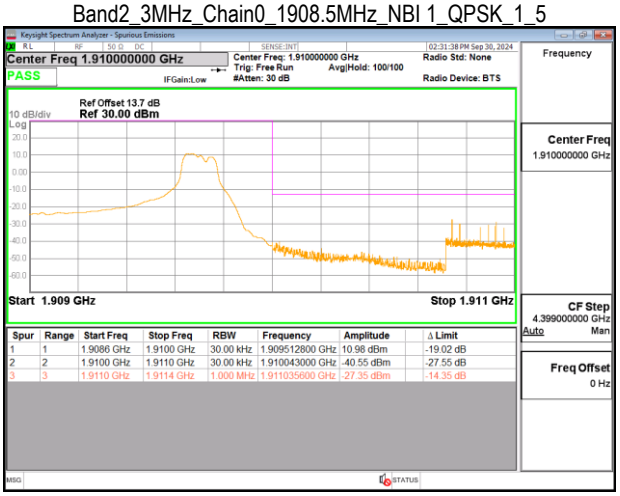
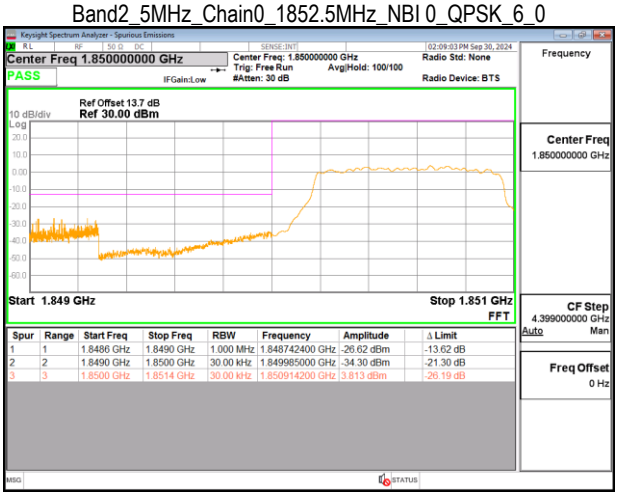
Band2_3MHz_Chain0_1908.5MHz_NBI 1_QPSK_1_5



Band2_5MHz_Chain0_1852.5MHz_NBI 0_QPSK_6_0



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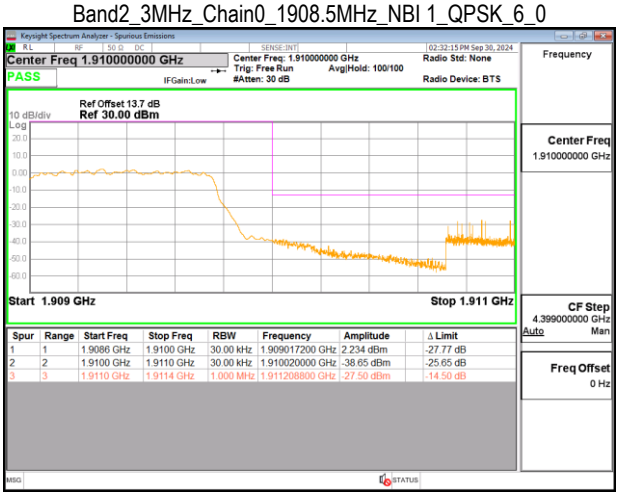

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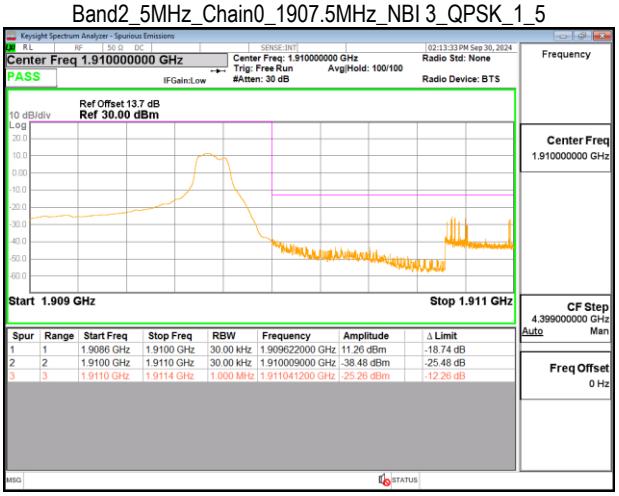

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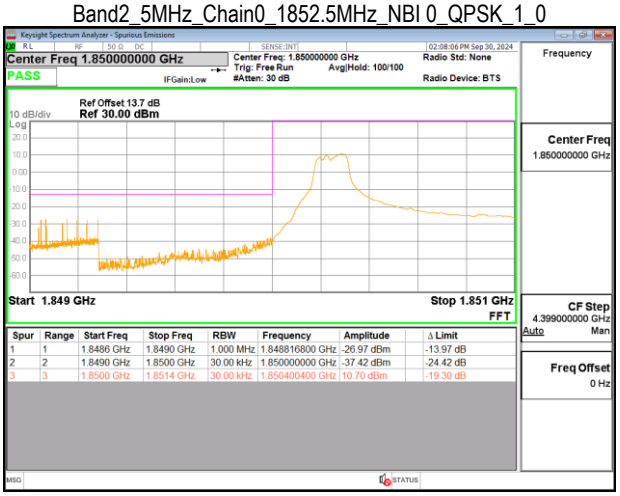

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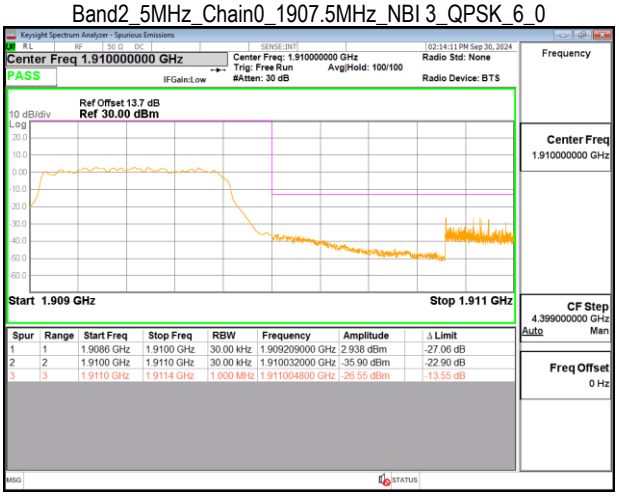

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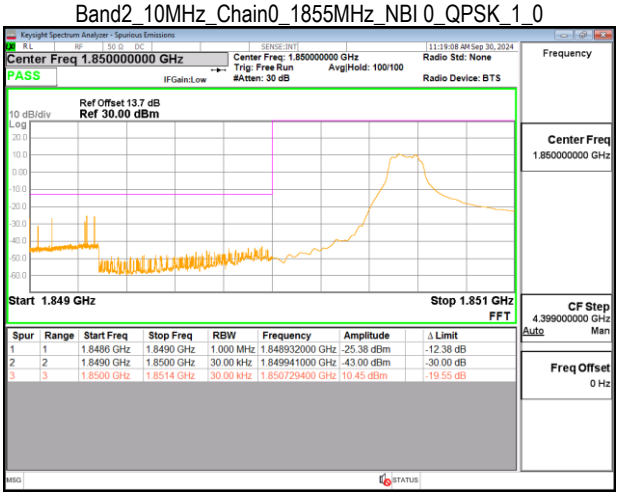
Band2_10MHz_Chain0_1855MHz_NBI 0_QPSK_1_0



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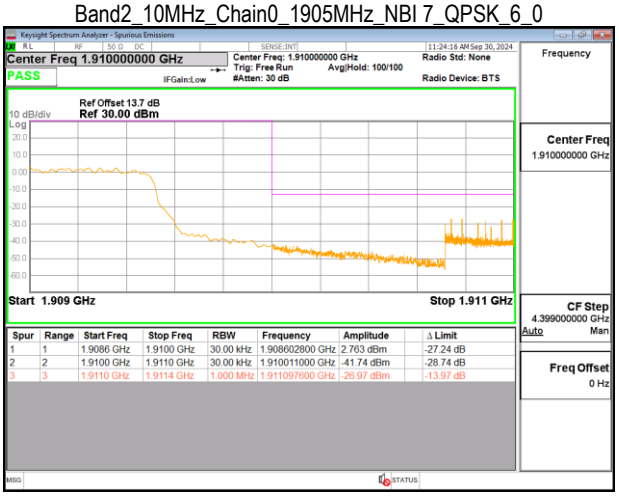

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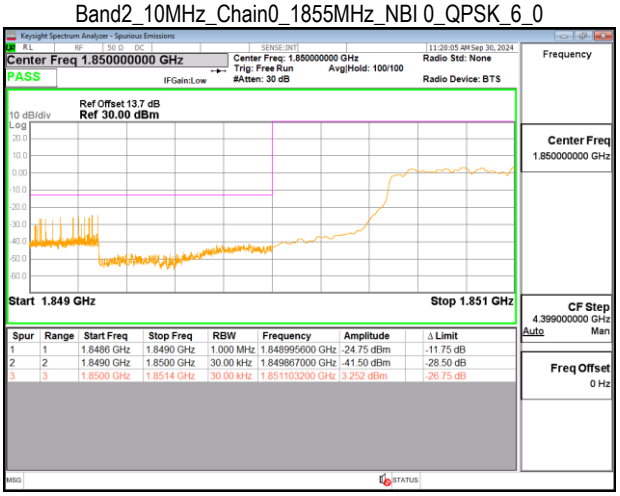

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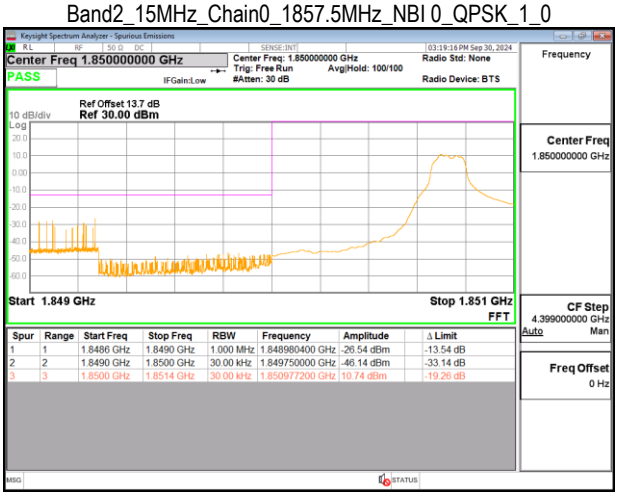
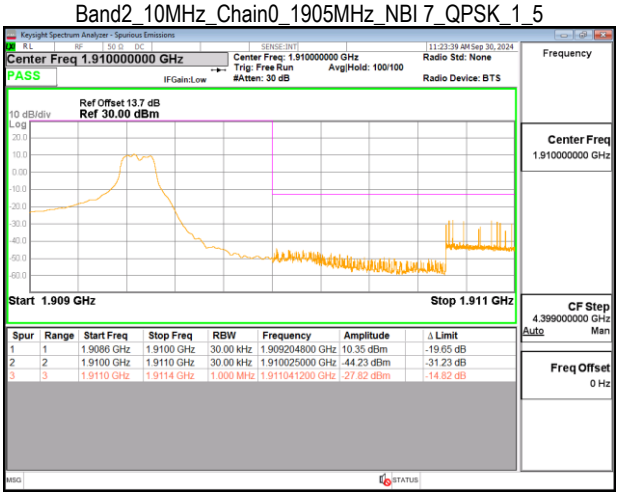
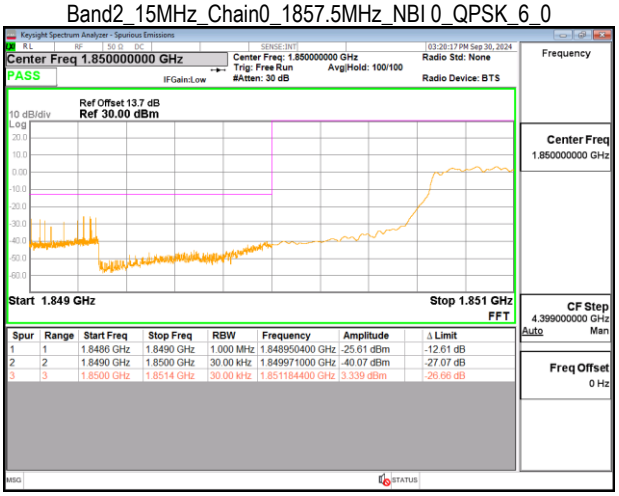


Band2_10MHz_Chain0_1905MHz_NBI 7_QPSK_1_5



Band2_15MHz_Chain0_1857.5MHz_NBI 0_QPSK_6_0



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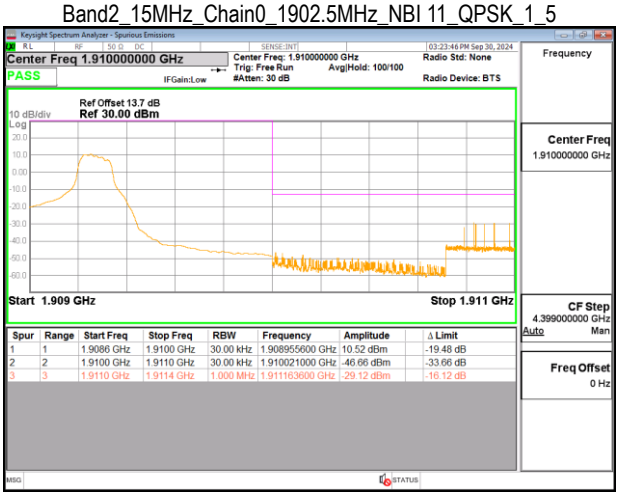
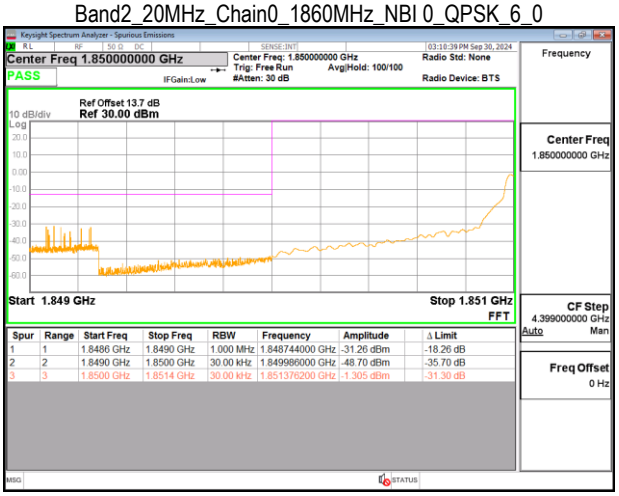
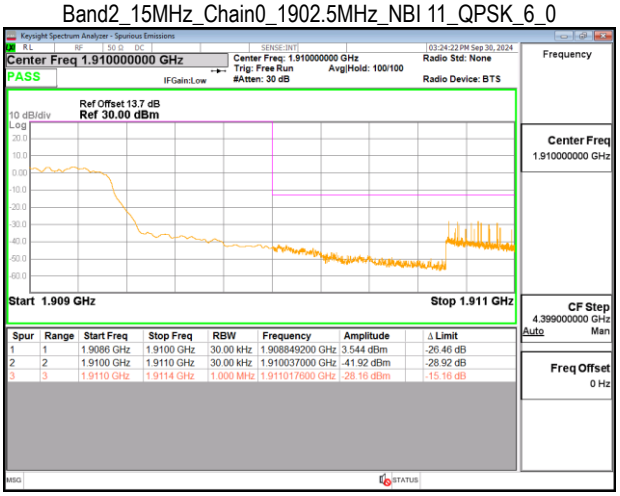
Band2_15MHz_Chain0_1902.5MHz_NBI 11_QPSK_1_5



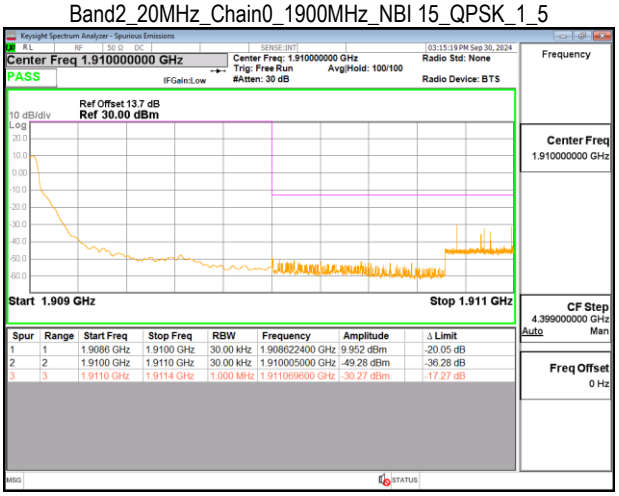
Band2_20MHz_Chain0_1860MHz_NBI 0_QPSK_6_0



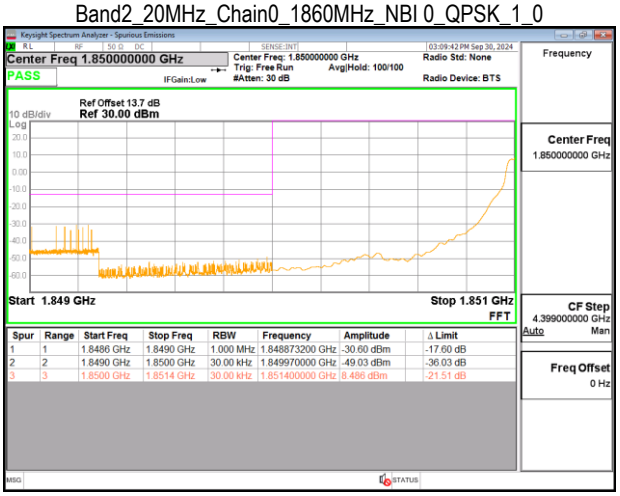
Band2_15MHz_Chain0_1902.5MHz_NBI 11_QPSK_6_0



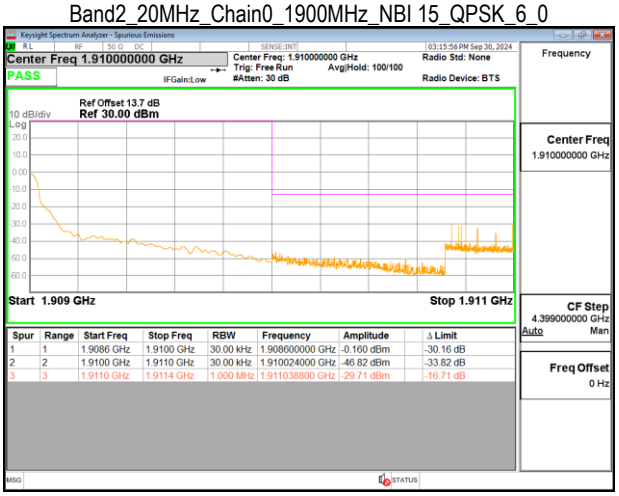
Band2_20MHz_Chain0_1900MHz_NBI 15_QPSK_1_5



Band2_20MHz_Chain0_1860MHz_NBI 0_QPSK_1_0



Band2_20MHz_Chain0_1900MHz_NBI 15_QPSK_6_0



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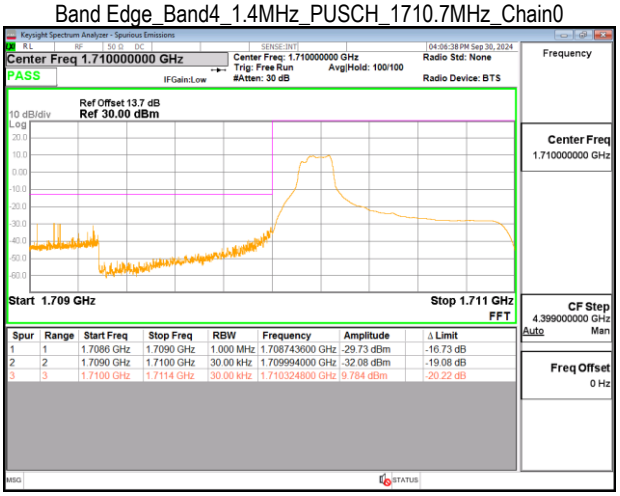
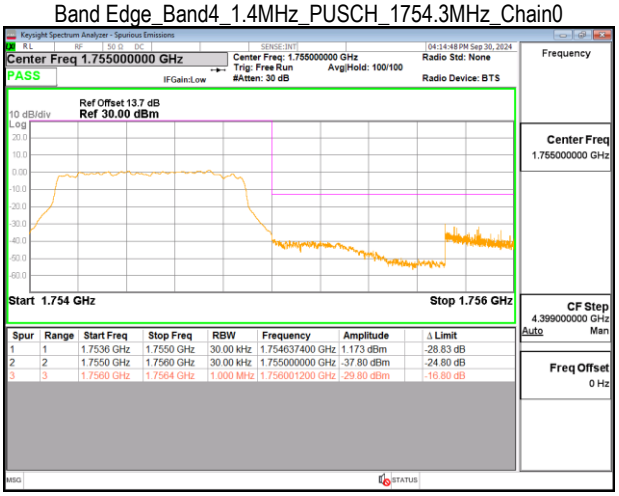
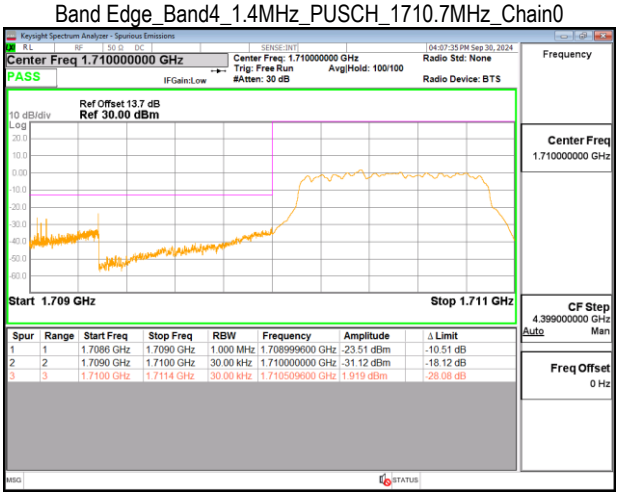
Band Edge_Band4_1.4MHz_PUSCH_1710.7MHz_Chain0



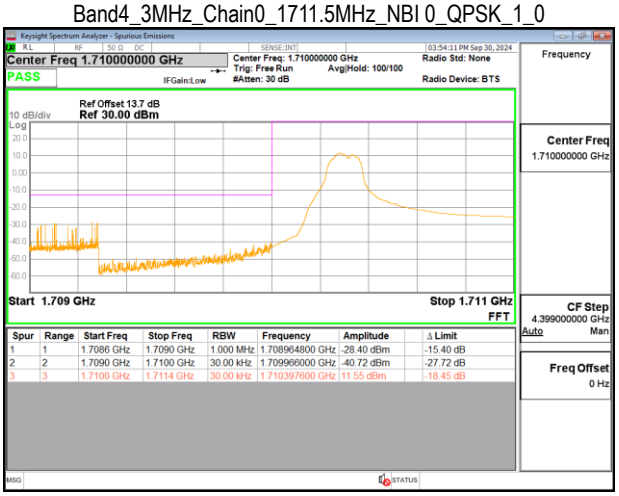
Band Edge_Band4_1.4MHz_PUSCH_1754.3MHz_Chain0



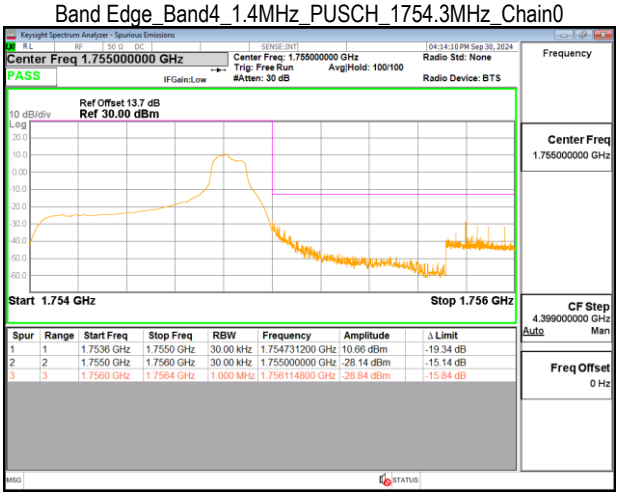
Band Edge_Band4_1.4MHz_PUSCH_1710.7MHz_Chain0



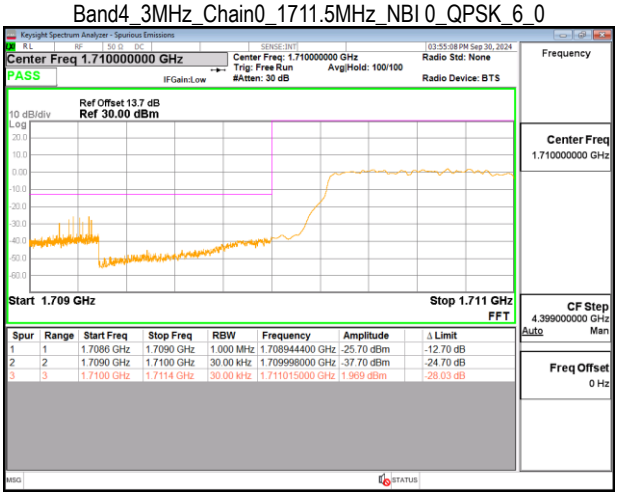
Band4_3MHz_Chain0_1711.5MHz_NBI 0_QPSK_1_0



Band Edge_Band4_1.4MHz_PUSCH_1754.3MHz_Chain0



Band4_3MHz_Chain0_1711.5MHz_NBI 0_QPSK_6_0



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