

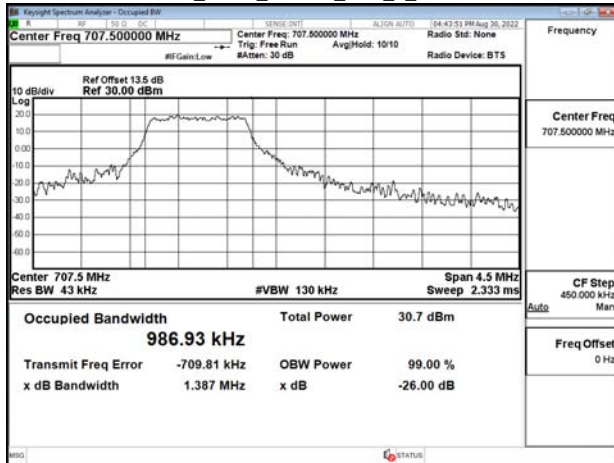
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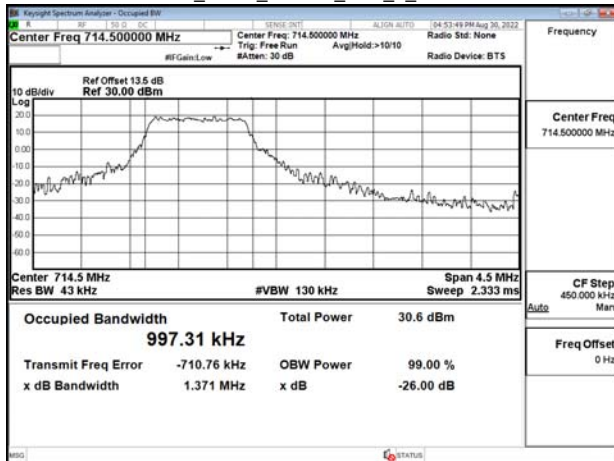
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Band12_5MHz_QPSK_RB6_0_CH23095



Band12_3MHz_16QAM_RB5_0_CH23165



Band12_5MHz_QPSK_RB6_0_CH23155



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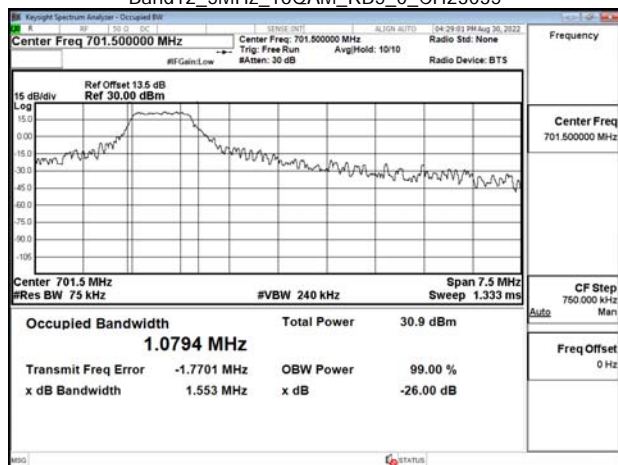
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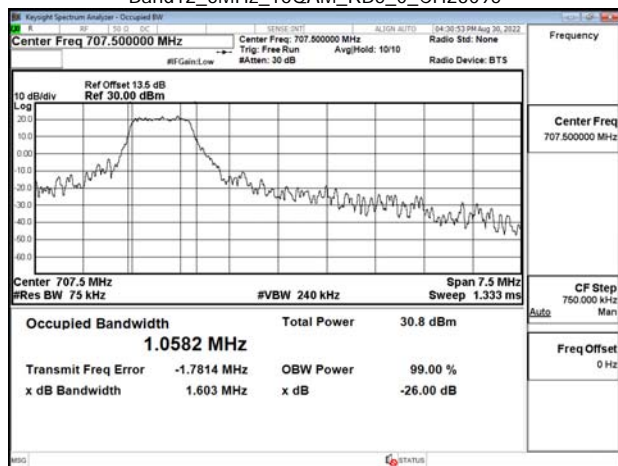
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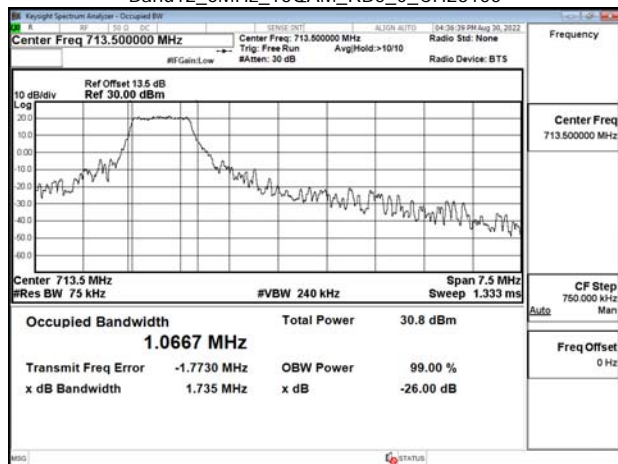
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Band12_5MHz_16QAM_RB5_0_CH23155



Band12_10MHz_QPSK_RB6_0_CH23130



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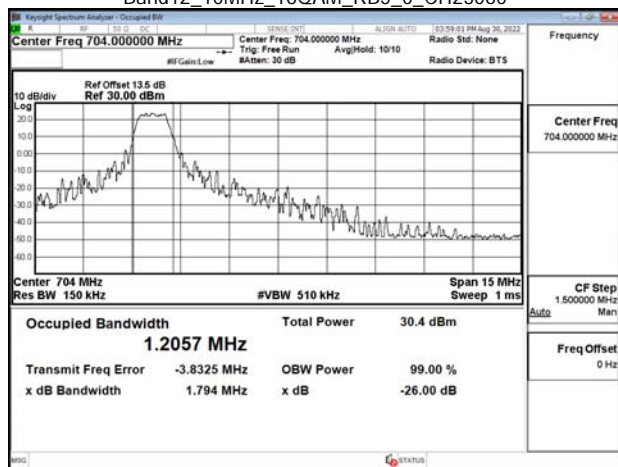
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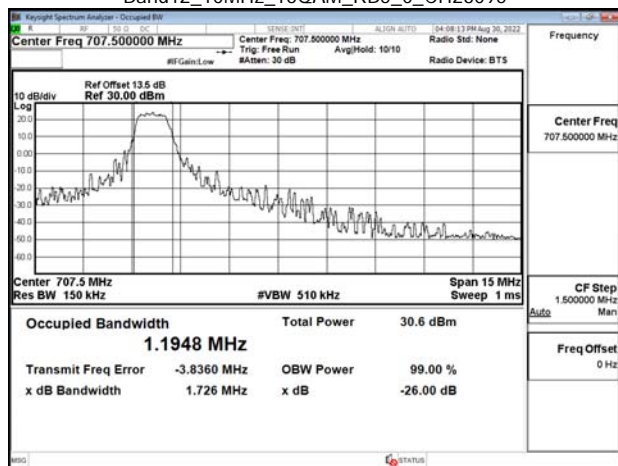
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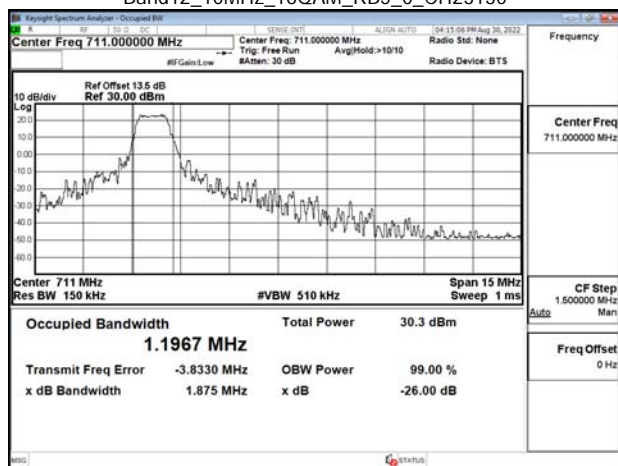
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Band12_10MHz_16QAM_RB5_0_CH23130



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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §24.238(a), §27.53(h)

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;

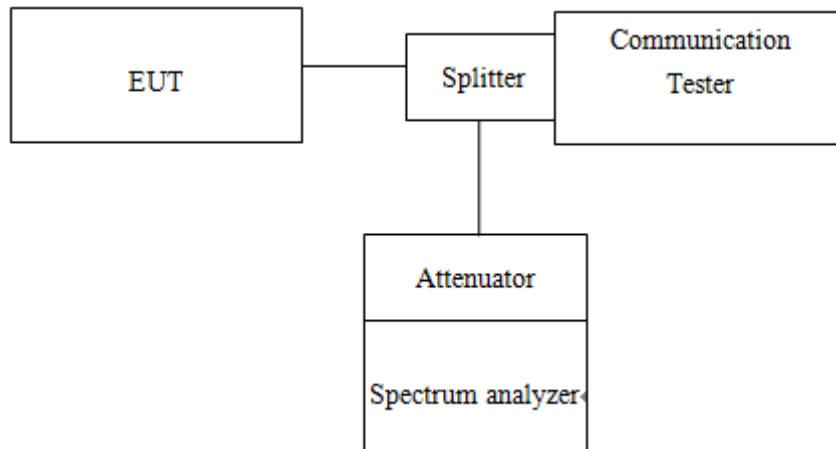
FCC §27.53(h)(1)

(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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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 \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4 Measurement Result:

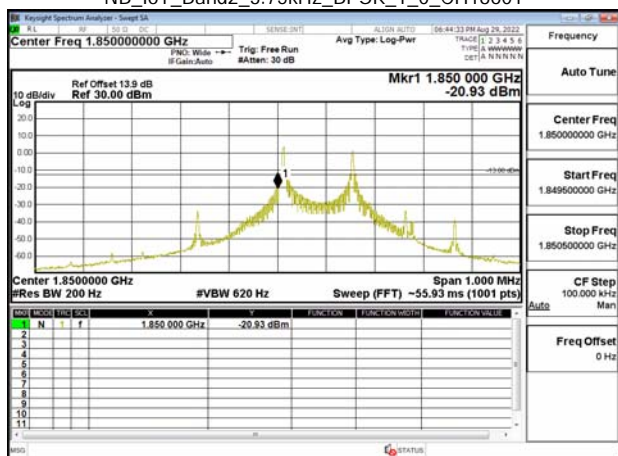
Refer to next pages.

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9.4.1 Bandedge

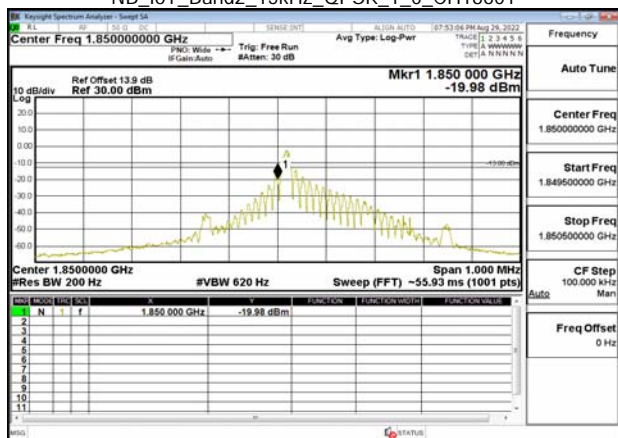
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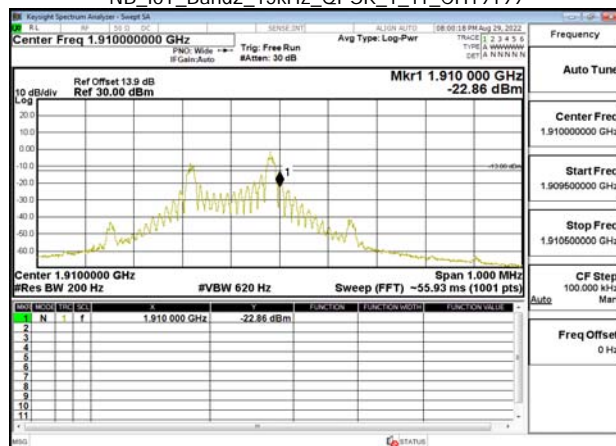
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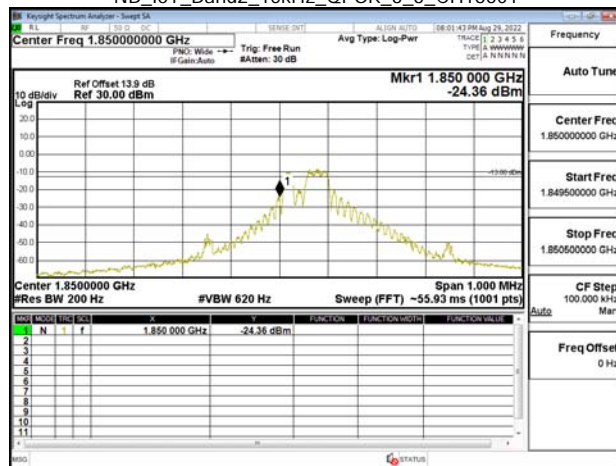
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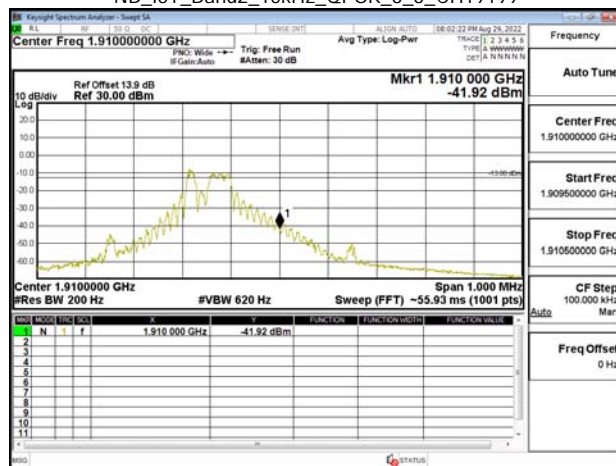
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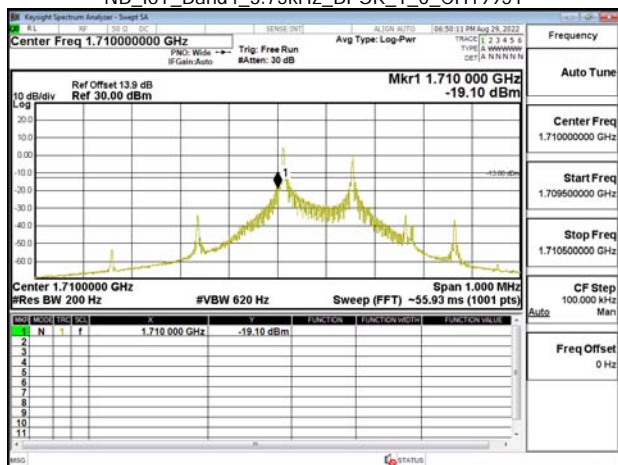


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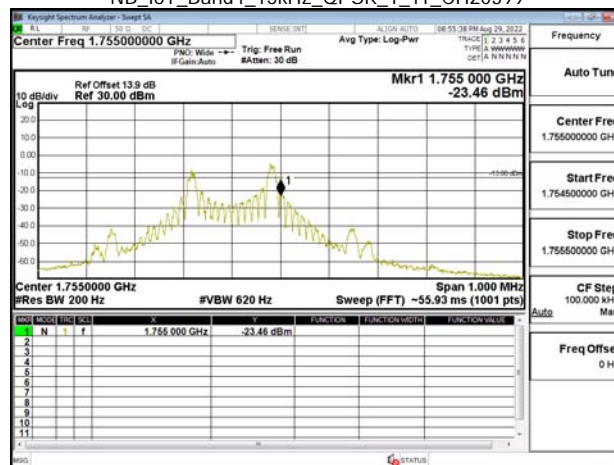
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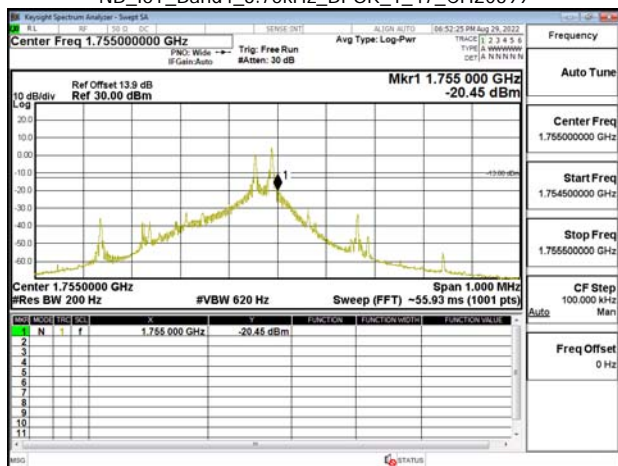
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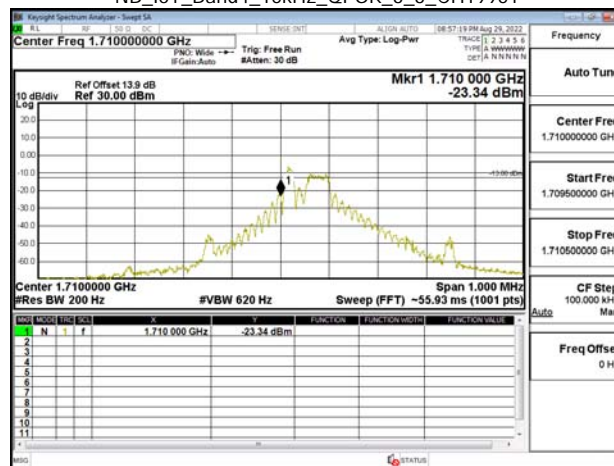
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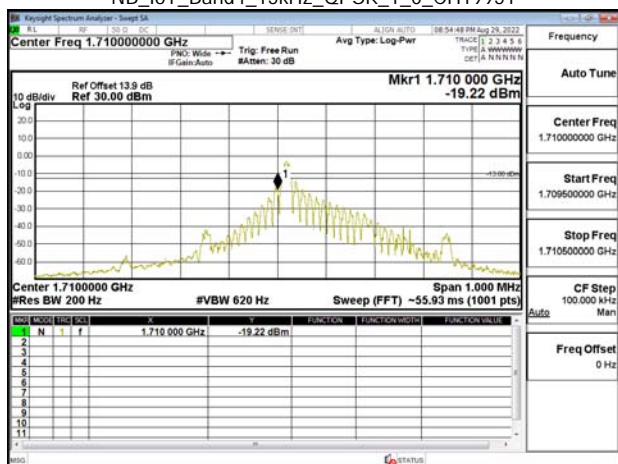
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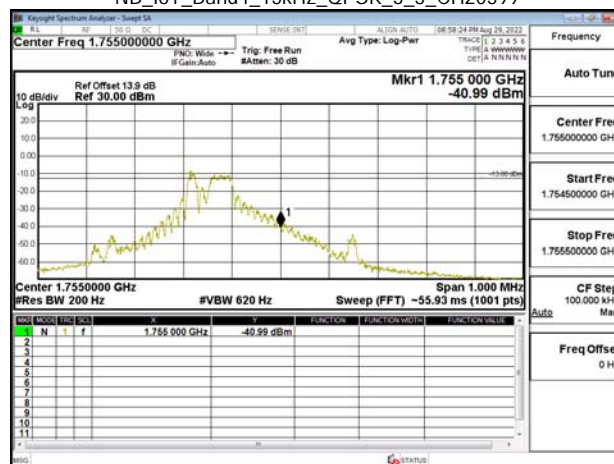
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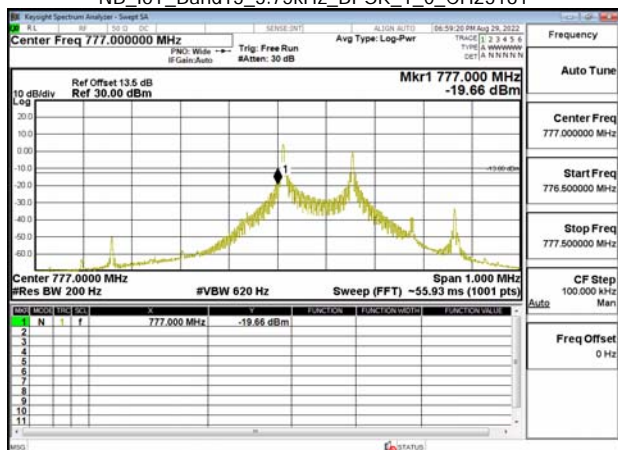
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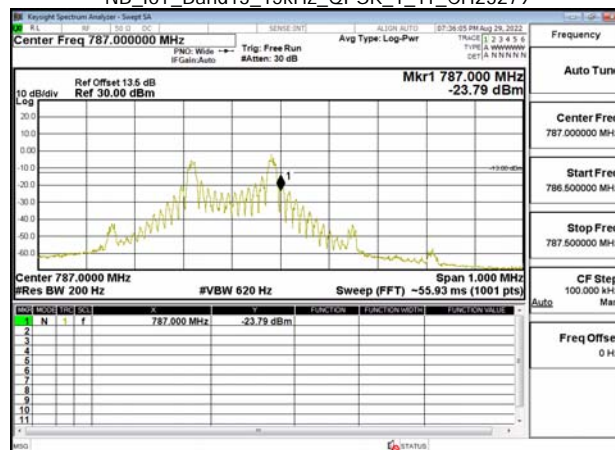
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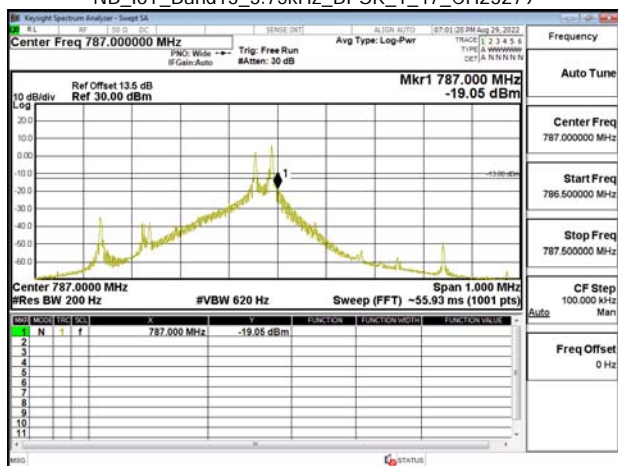
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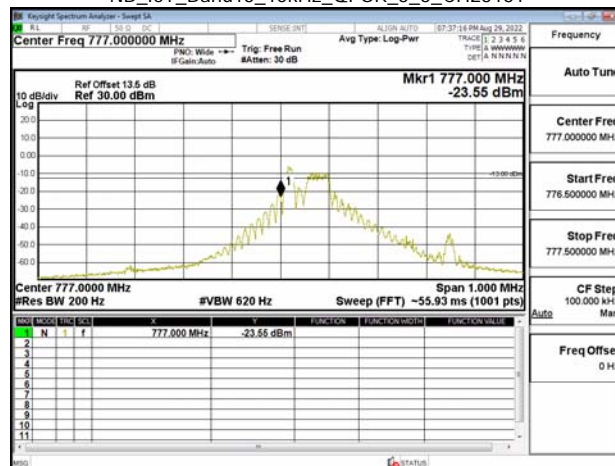
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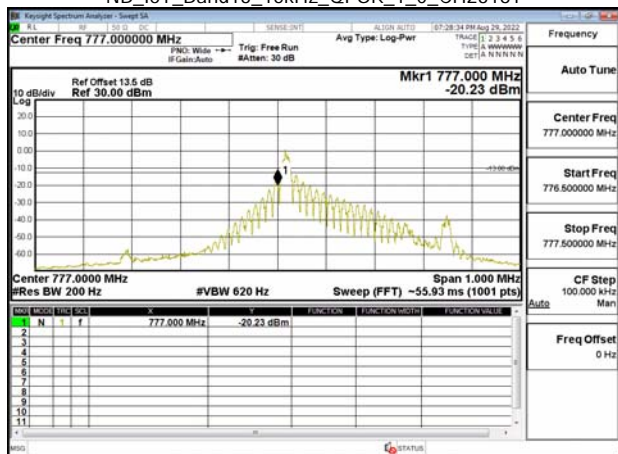
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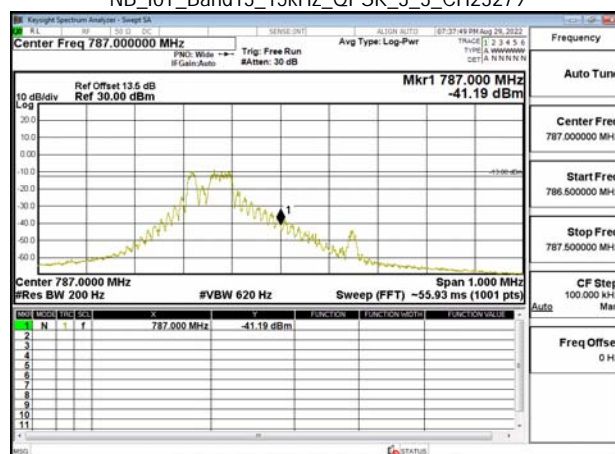
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NB_IoT_Band13_15kHz_QPSK_1_0_CH23181



NB_IoT_Band13_15kHz_QPSK_3_3_CH23279



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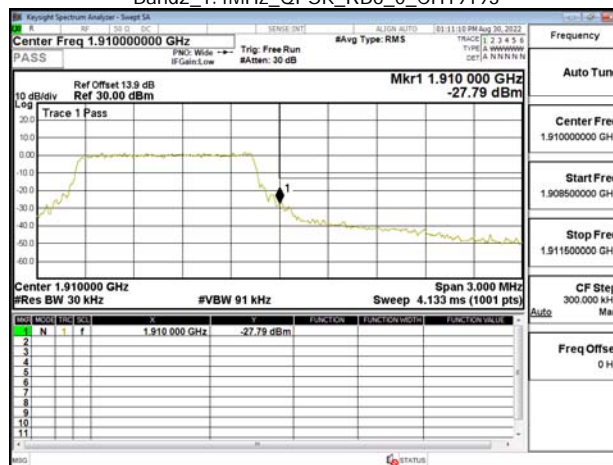
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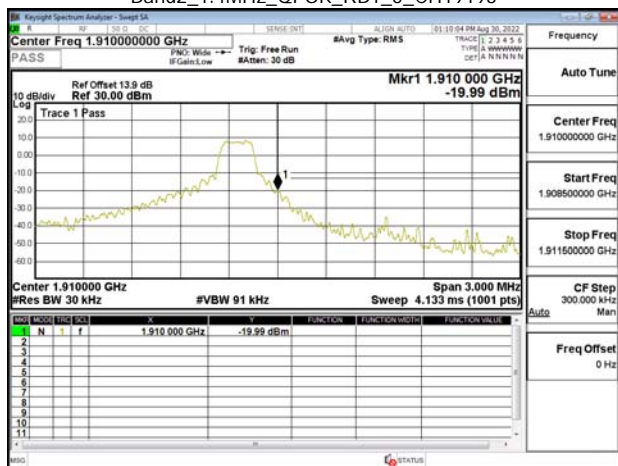
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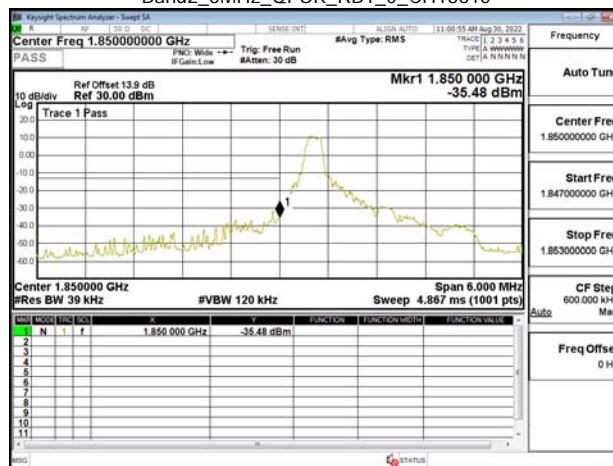
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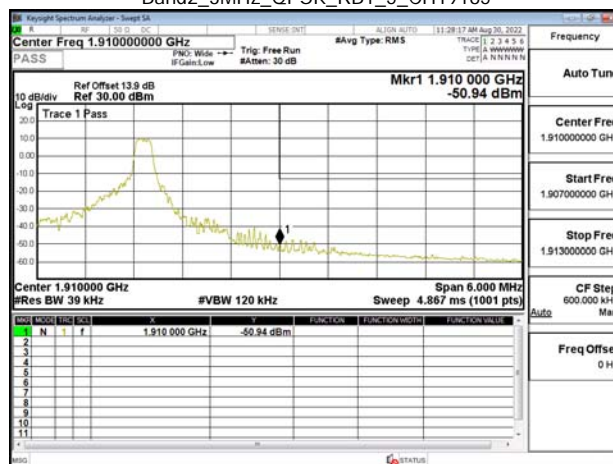
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Band2_3MHz_QPSK_RB1_5_CH19185



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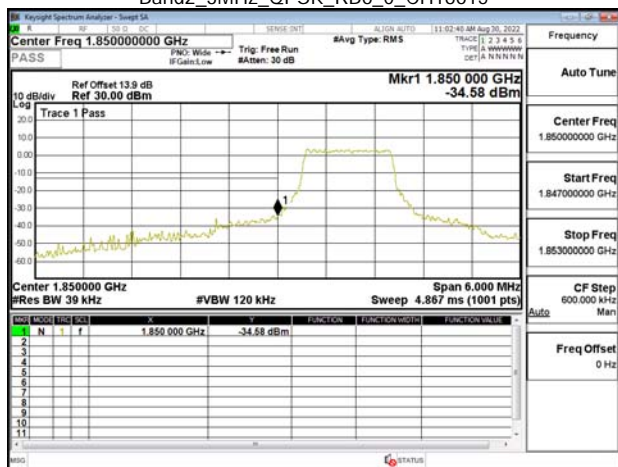
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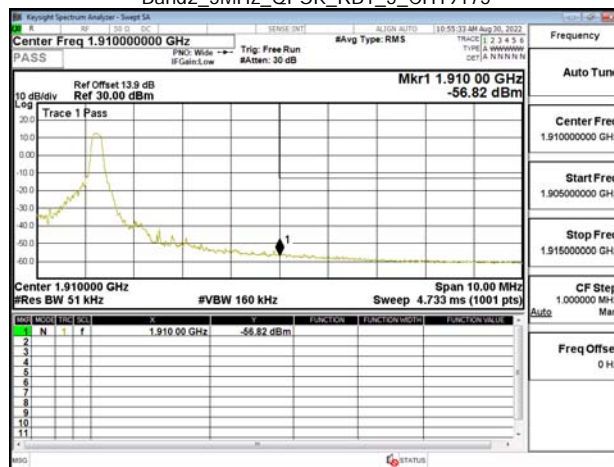
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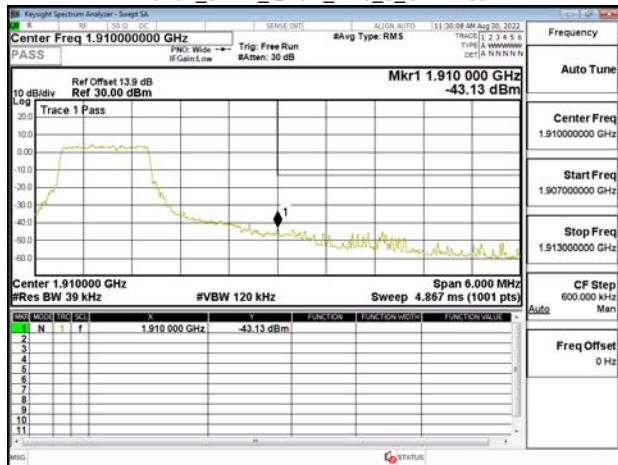
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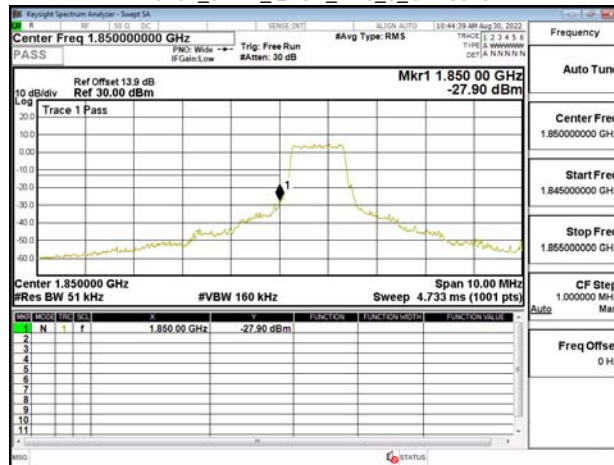
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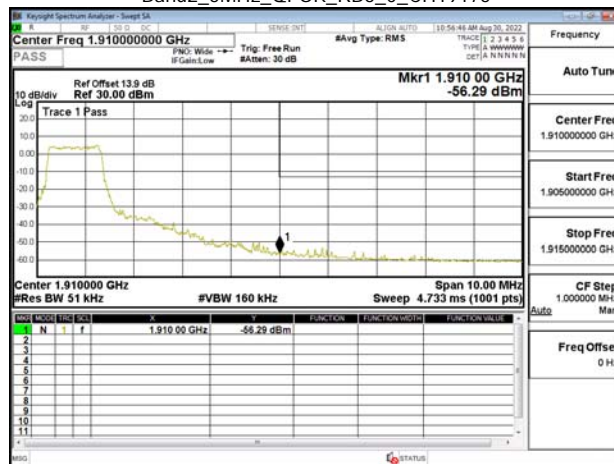
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Band2_5MHz_QPSK_RB6_0_CH19175



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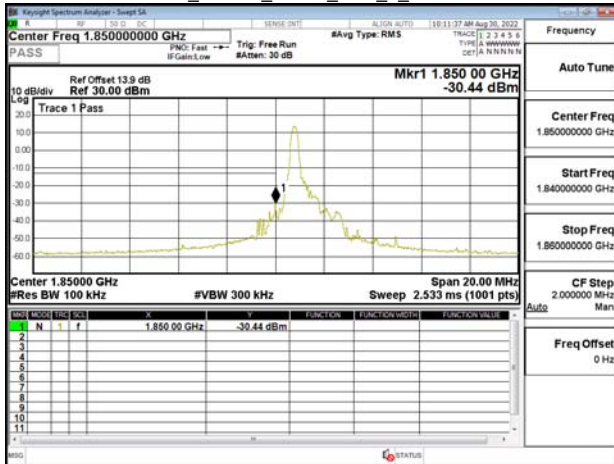
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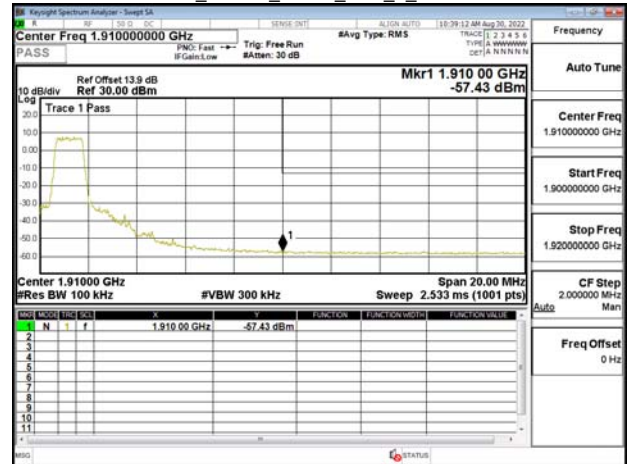
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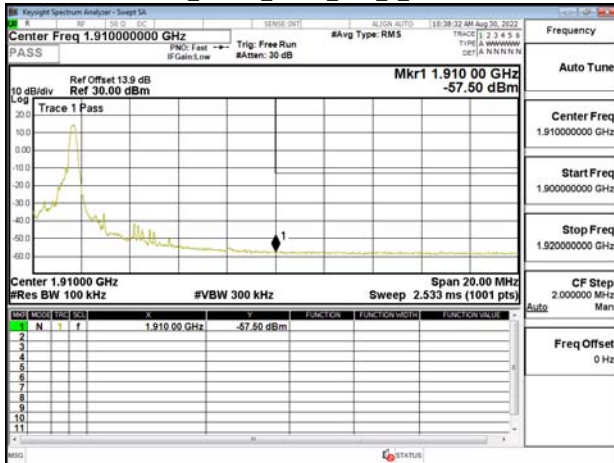
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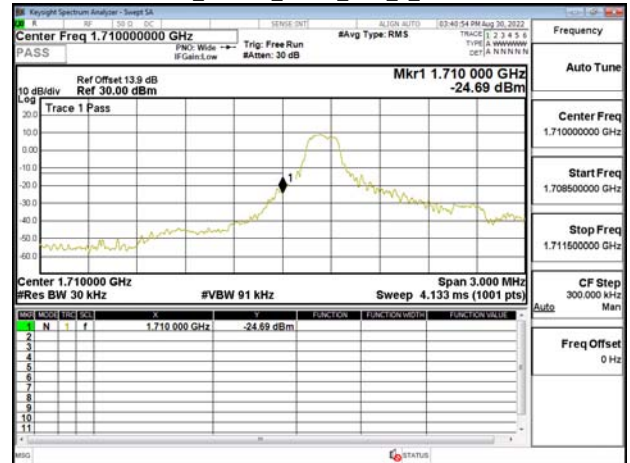
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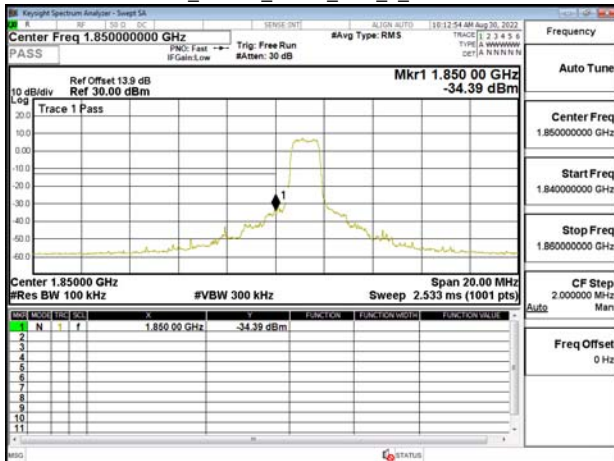
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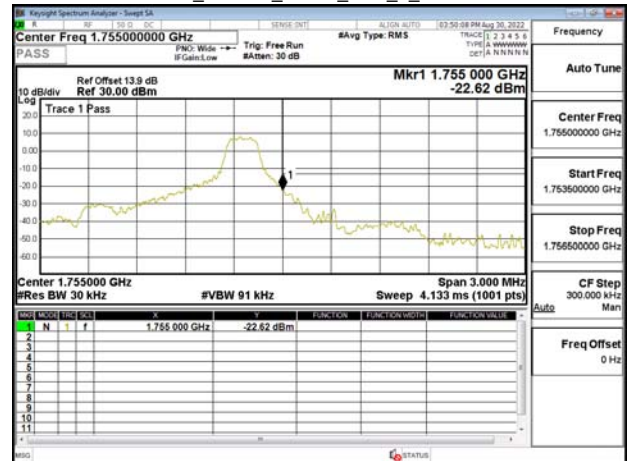
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Band2_10MHz_QPSK_RB6_0_CH18650



Band4_1.4MHz_QPSK_RB1_5_CH20393



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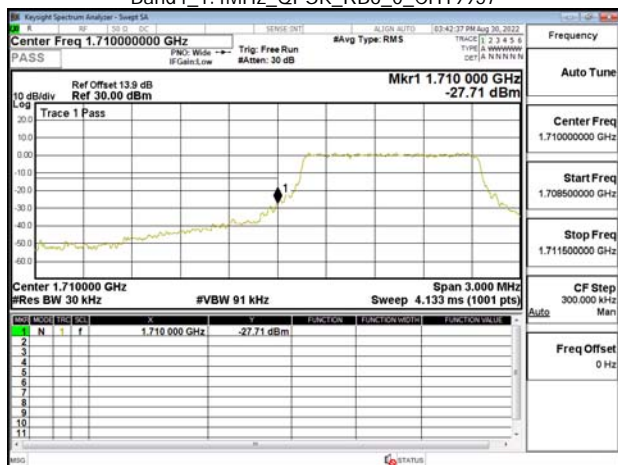
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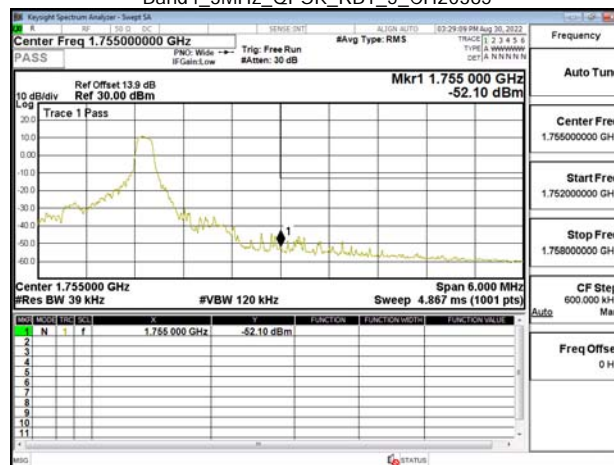
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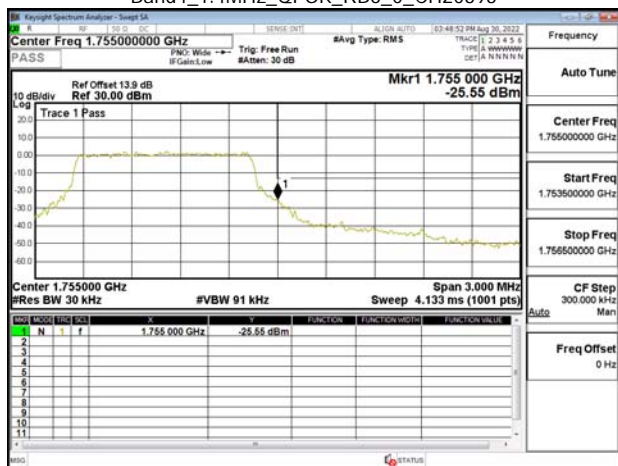
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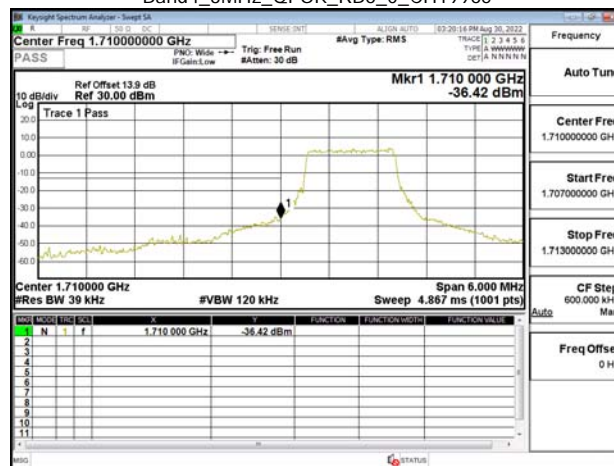
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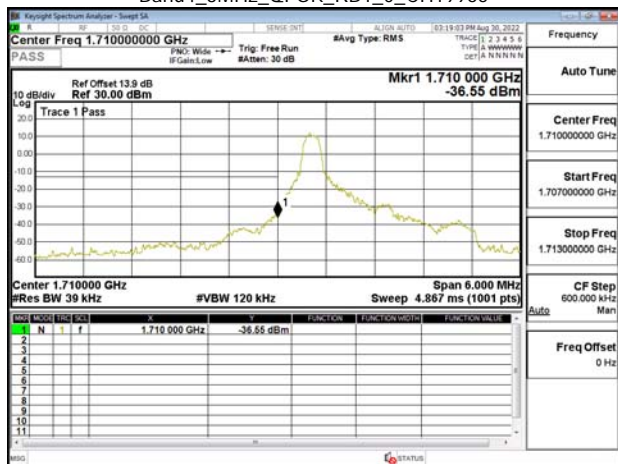
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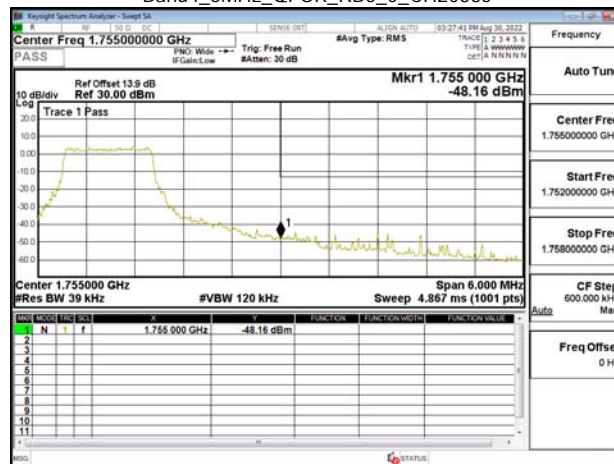
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Band4_3MHz_QPSK_RB1_0_CH19965



Band4_3MHz_QPSK_RB6_0_CH20385



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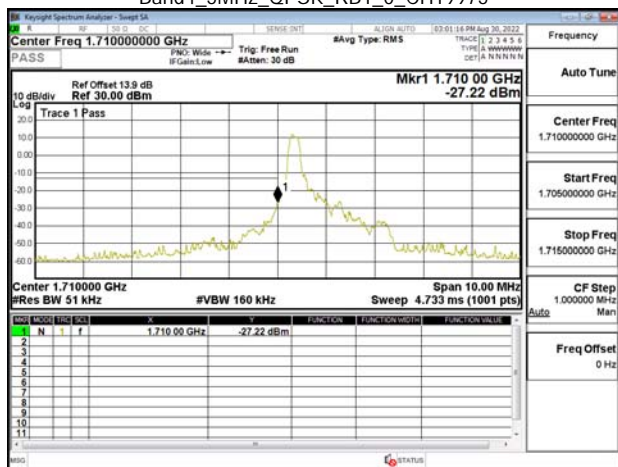
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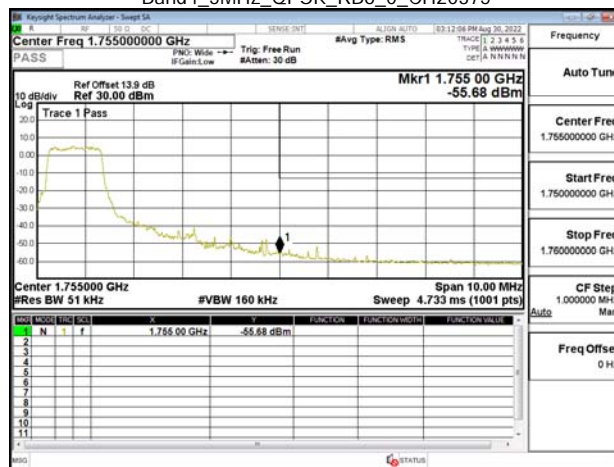
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Band4_5MHz_QPSK_RB1_0_CH19975



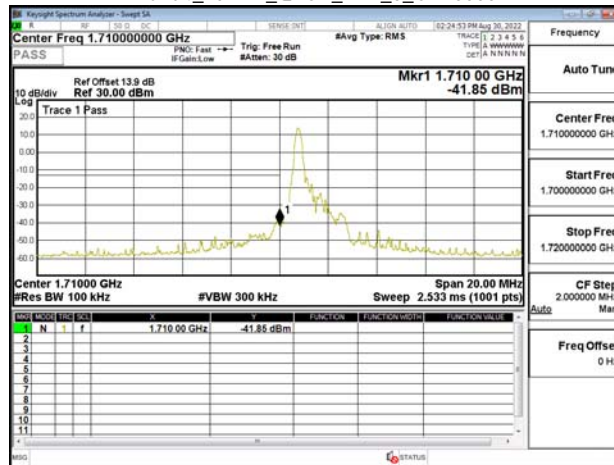
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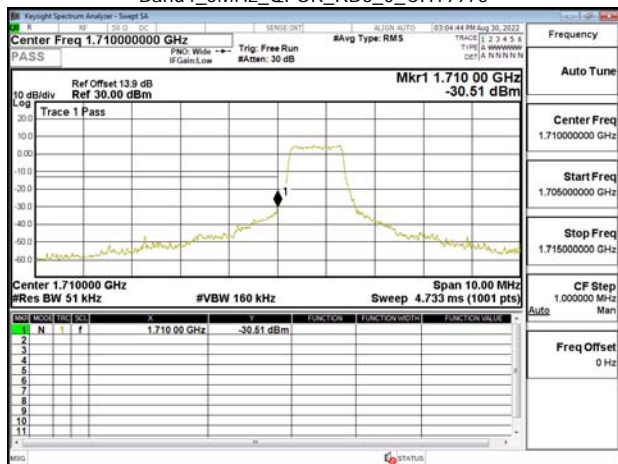
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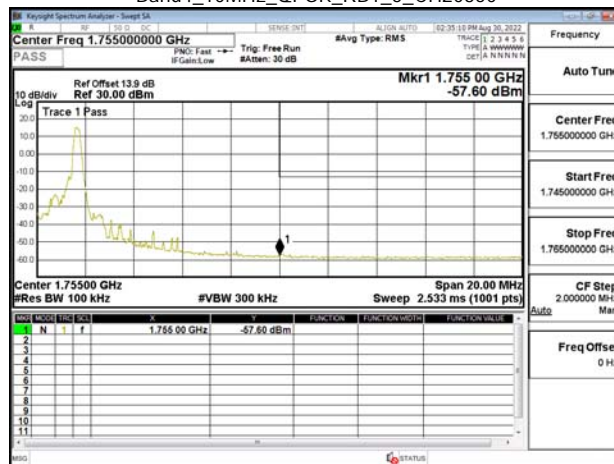
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Band4_5MHz_QPSK_RB6_0_CH19975



Band4_10MHz_QPSK_RB1_5_CH20350



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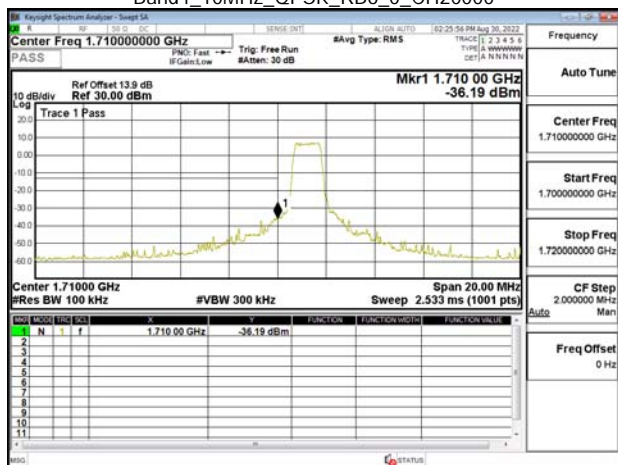
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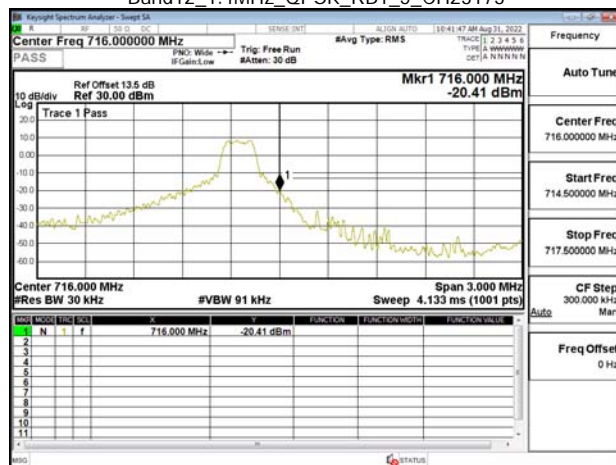
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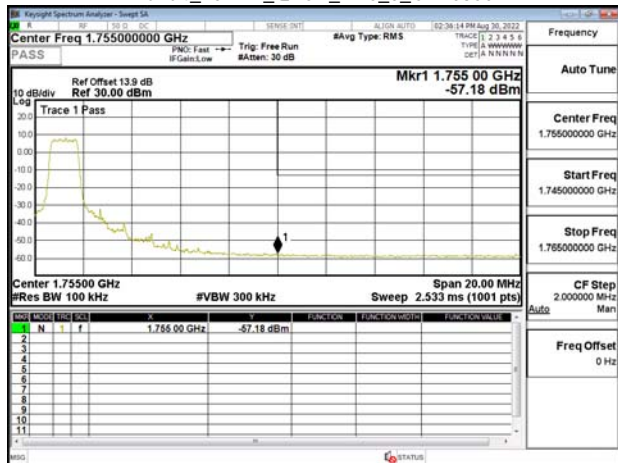
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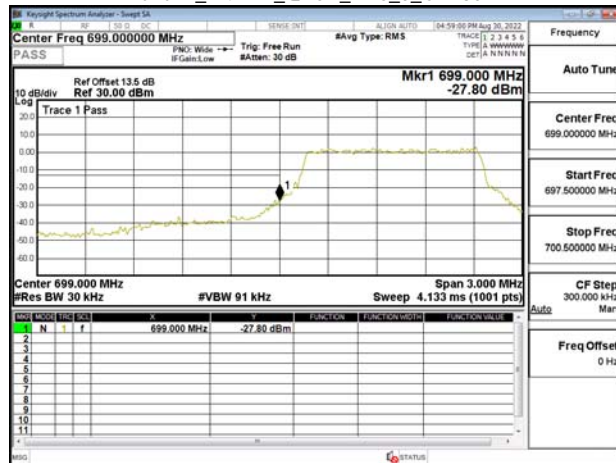
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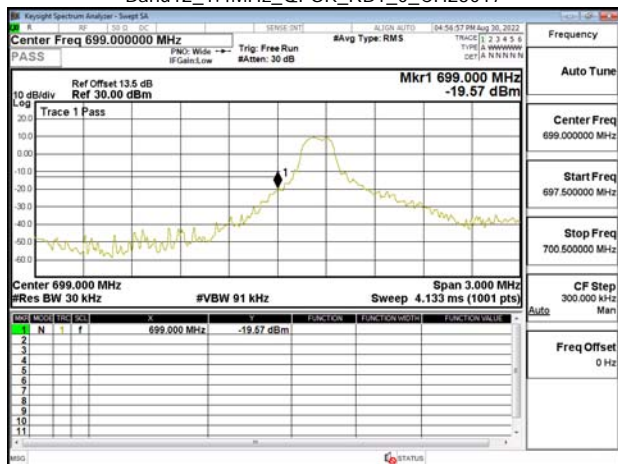
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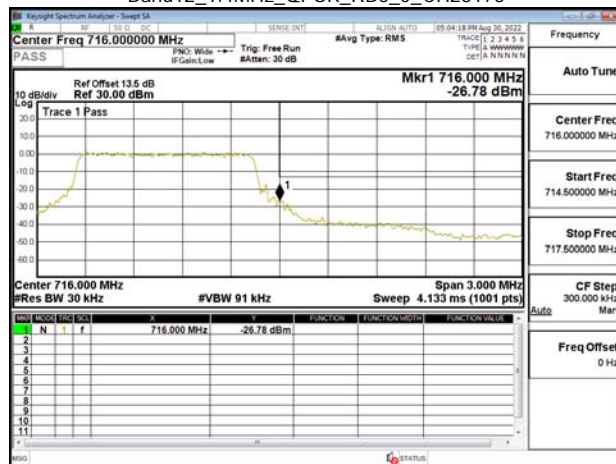
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Band12_1.4MHz_QPSK_RB1_0_CH23017



Band12_1.4MHz_QPSK_RB6_0_CH23173



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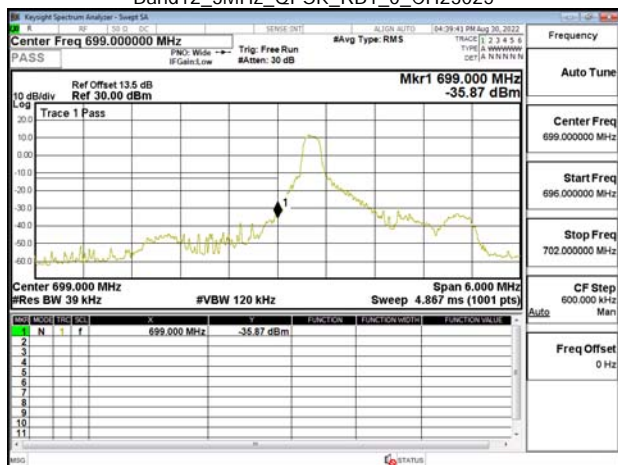
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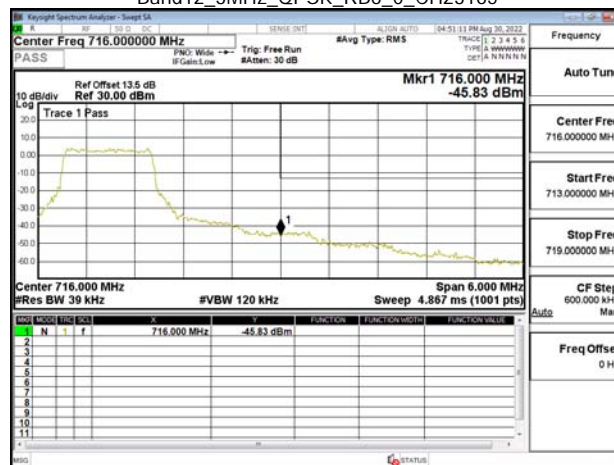
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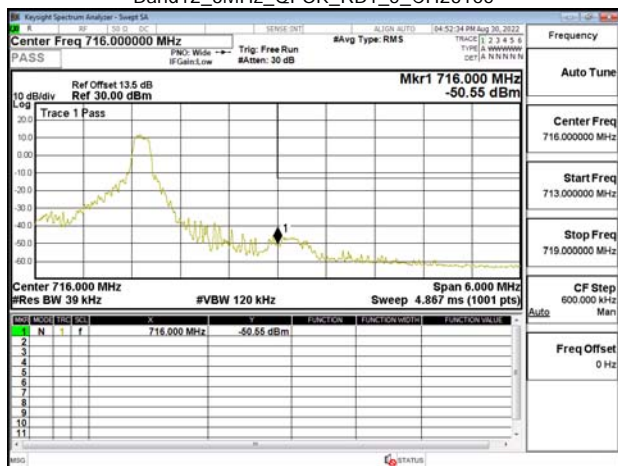
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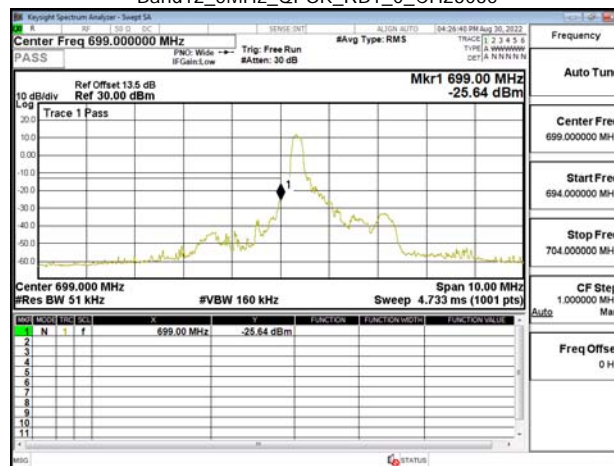
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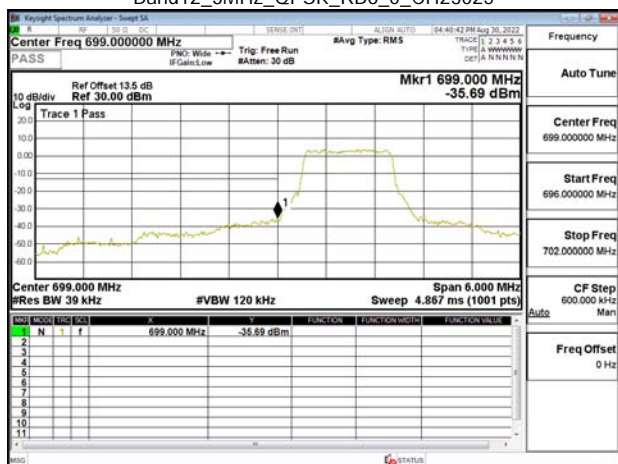
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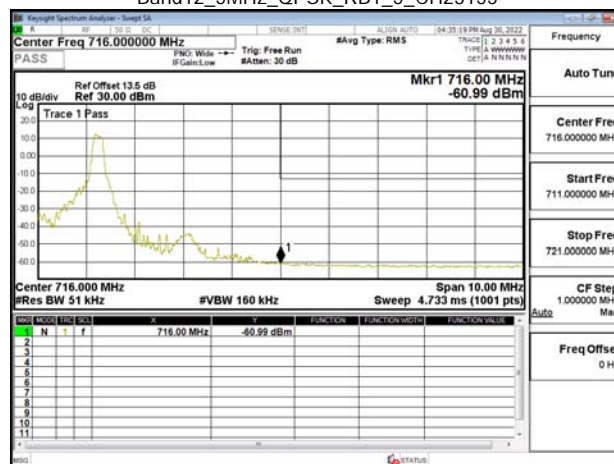
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Band12_3MHz_QPSK_RB6_0_CH23025



Band12_5MHz_QPSK_RB1_5_CH23155



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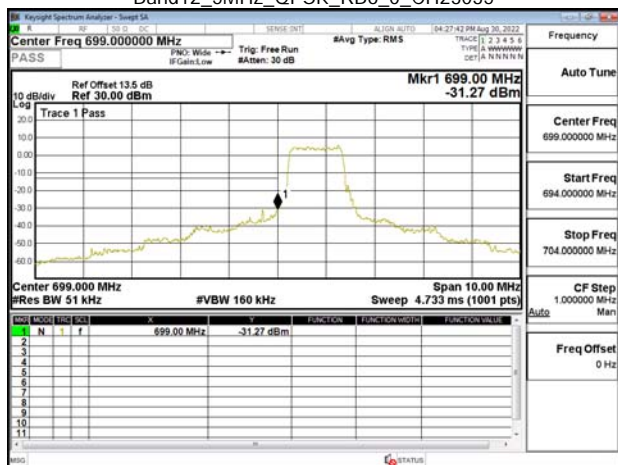
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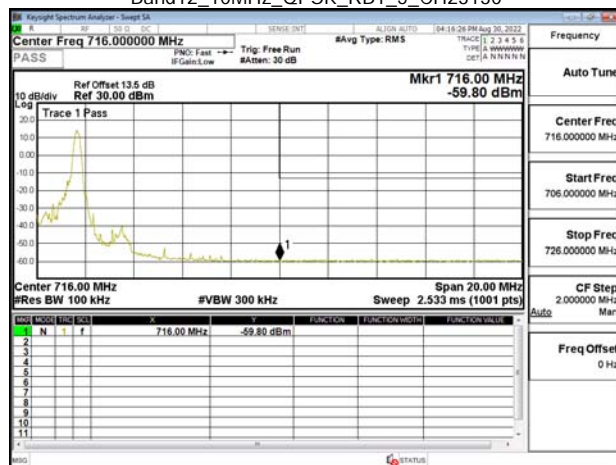
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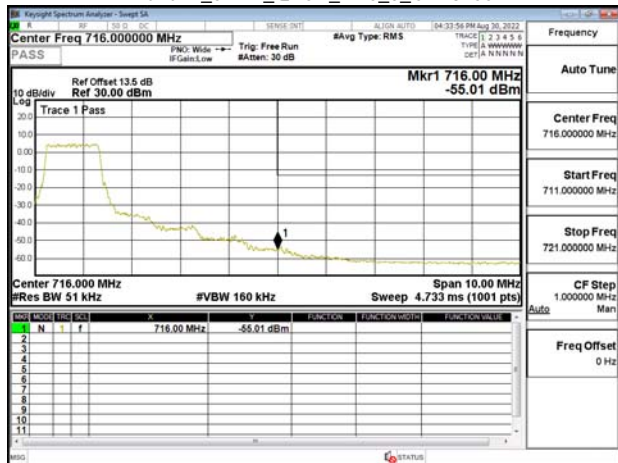
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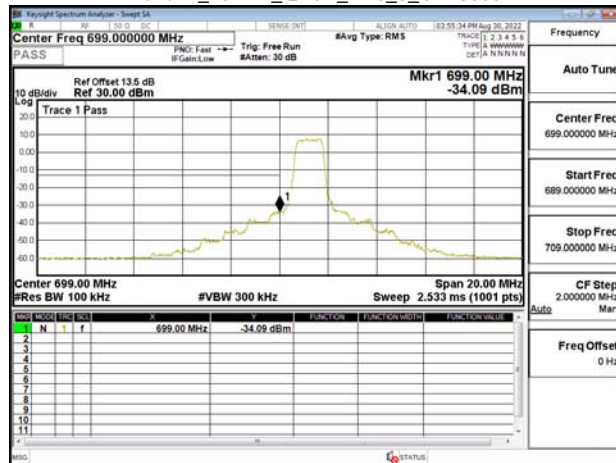
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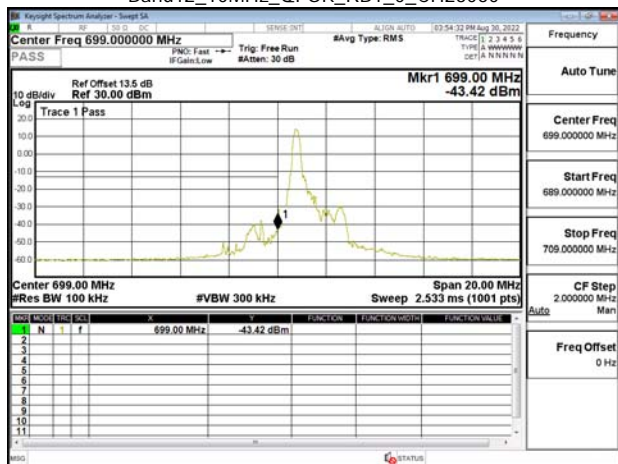
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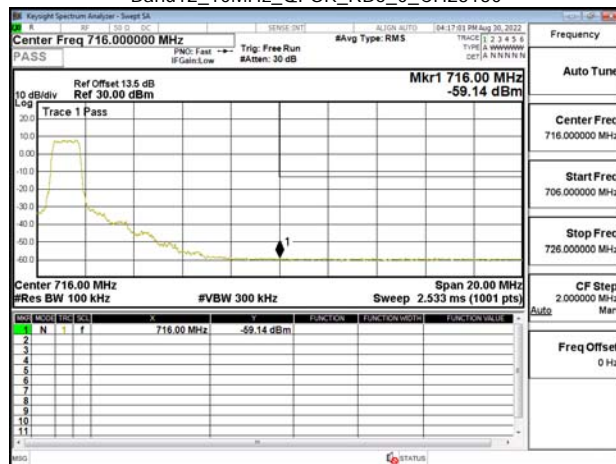
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Band12_10MHz_QPSK_RB6_0_CH23130



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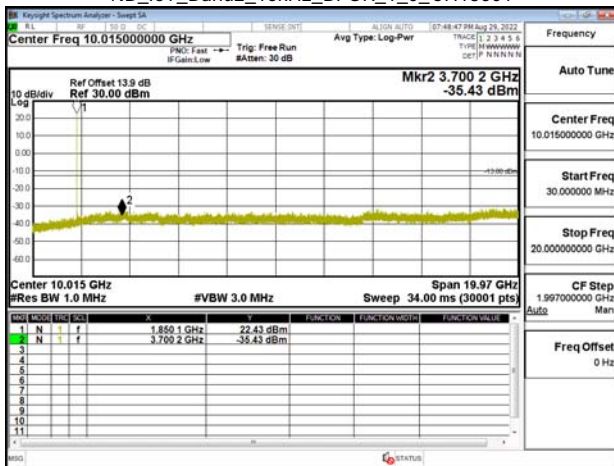
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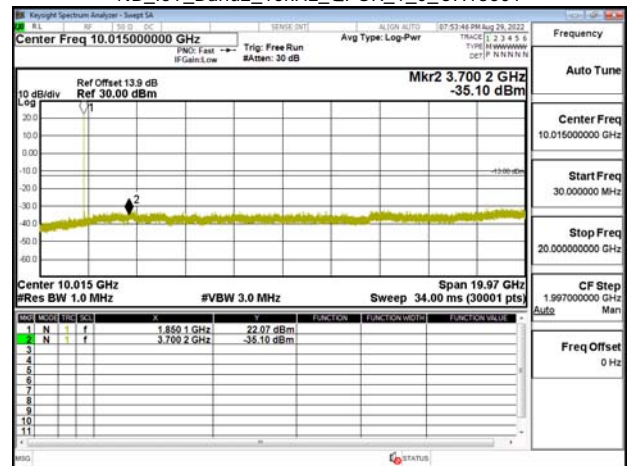
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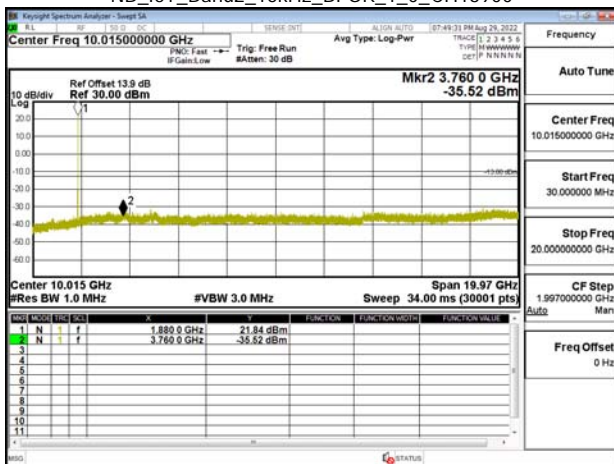
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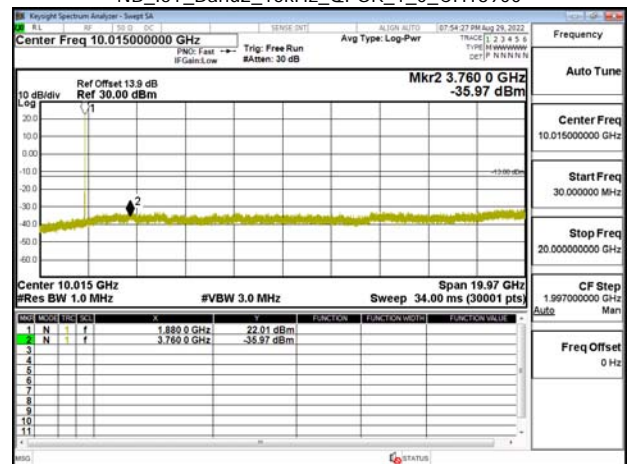
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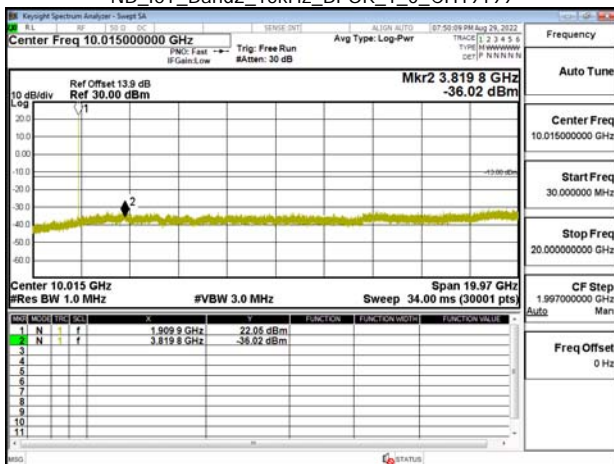
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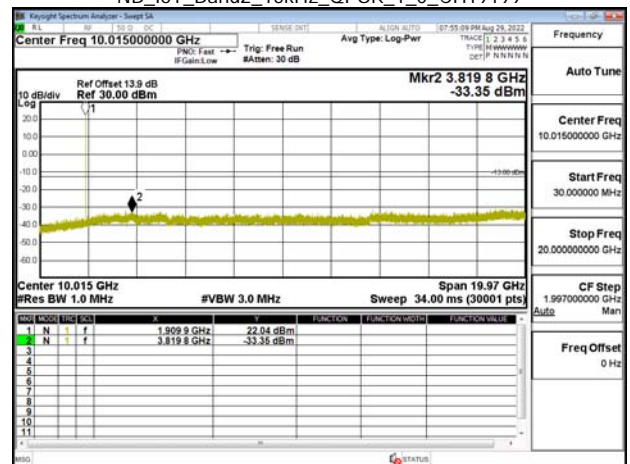
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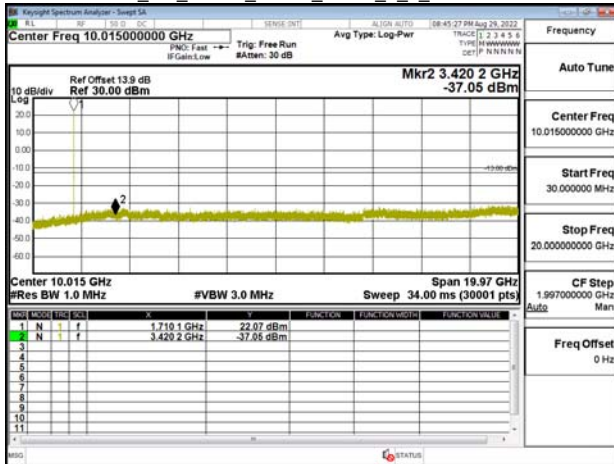


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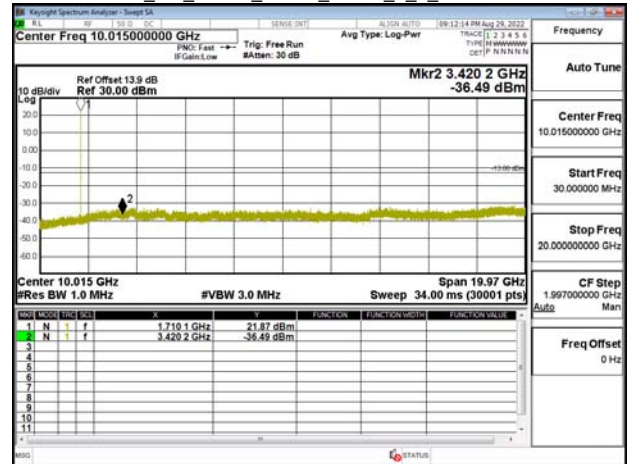
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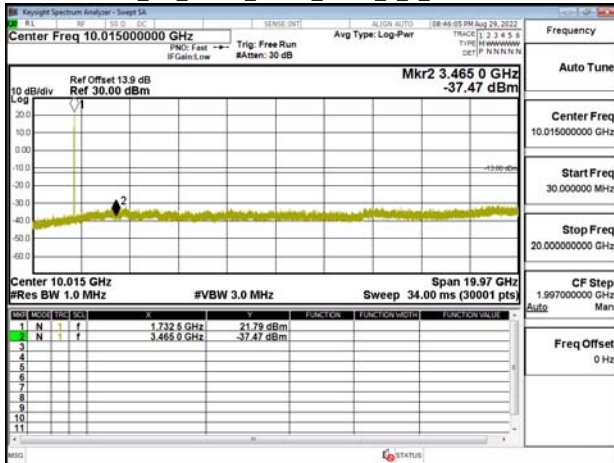
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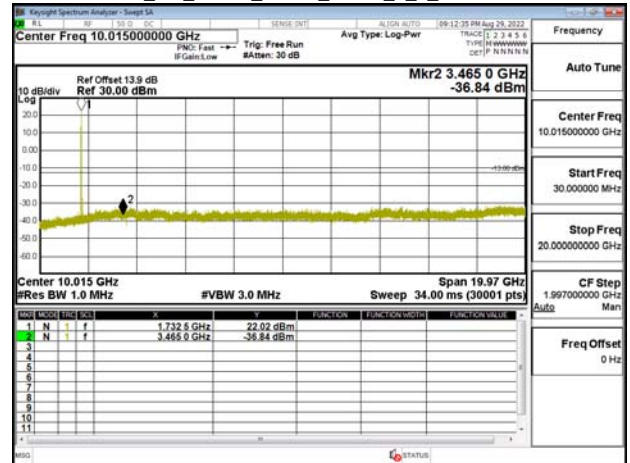
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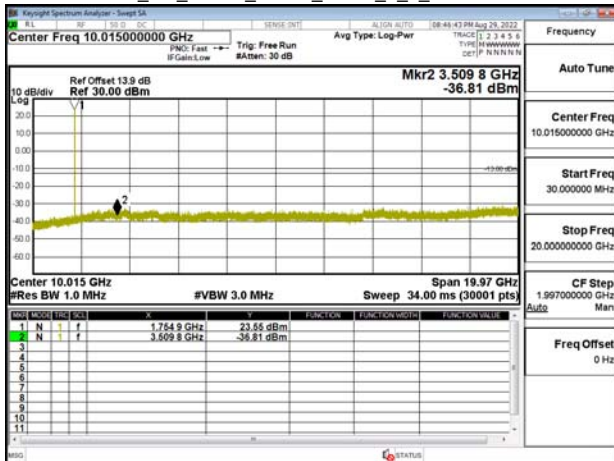
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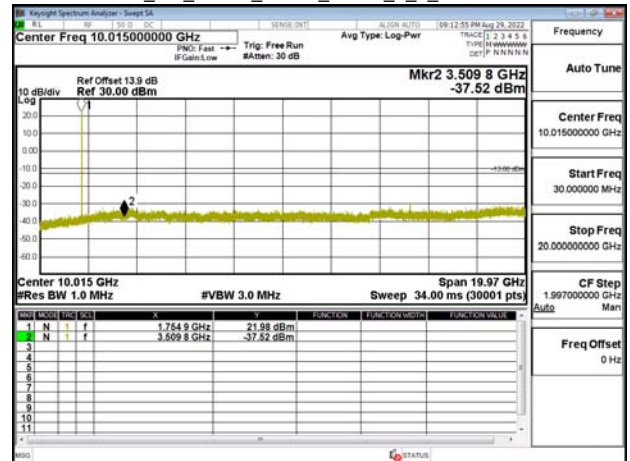
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NB_IoT_Band4_15kHz_BPSK_1_0_CH20399



NB_IoT_Band4_15kHz_QPSK_1_0_CH20399



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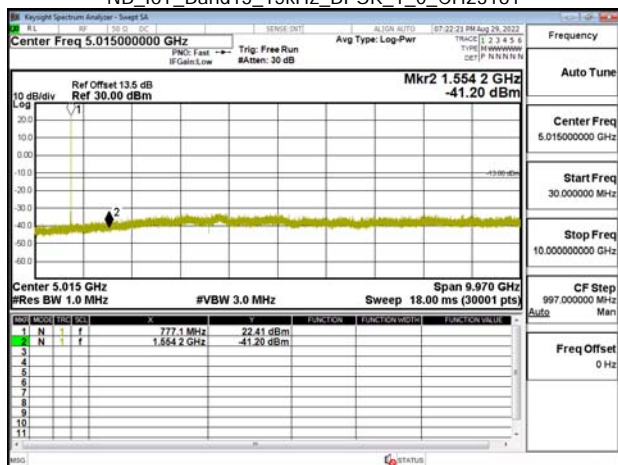
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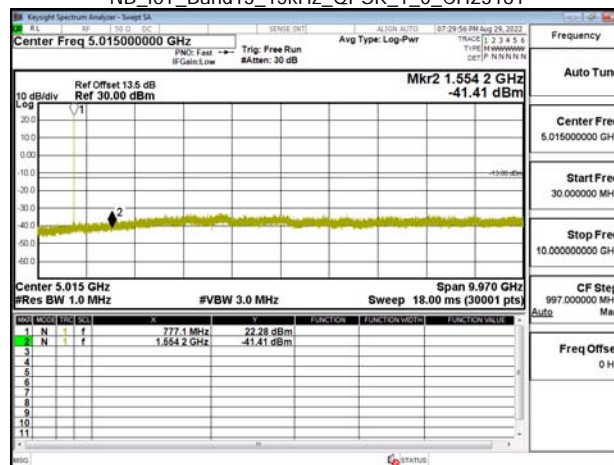
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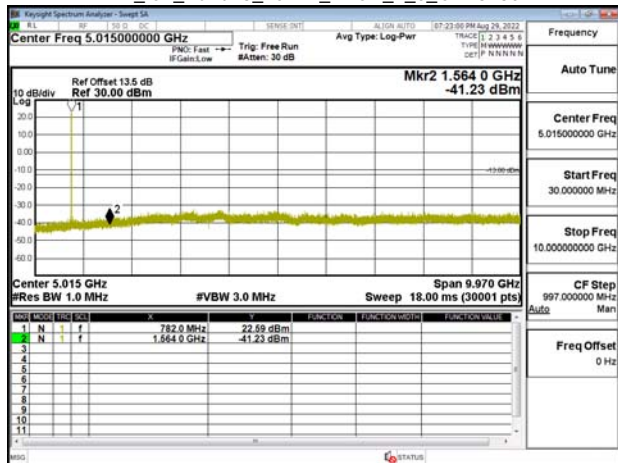
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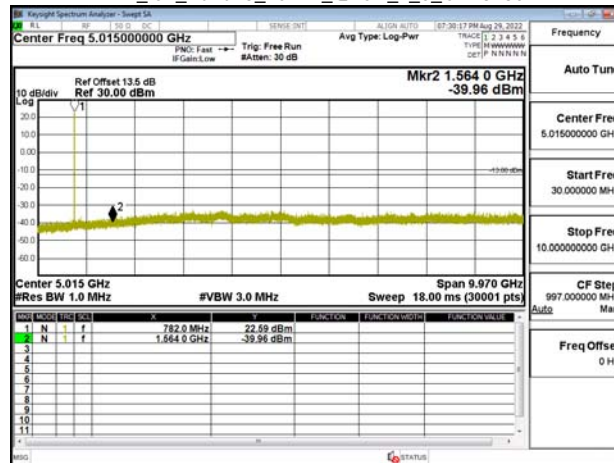
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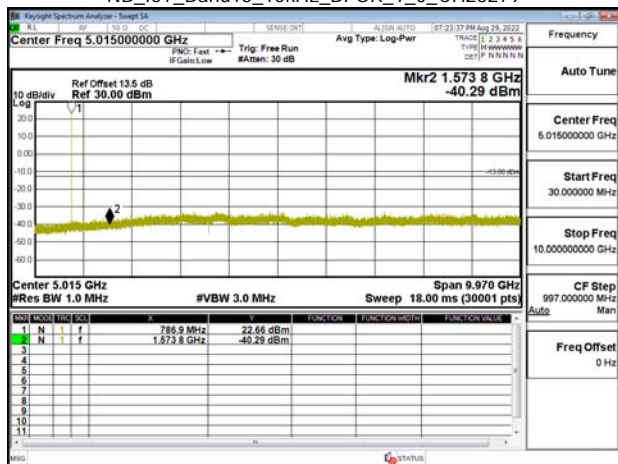
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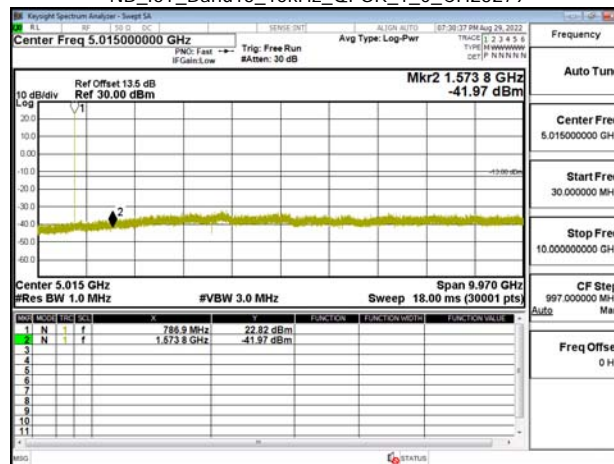
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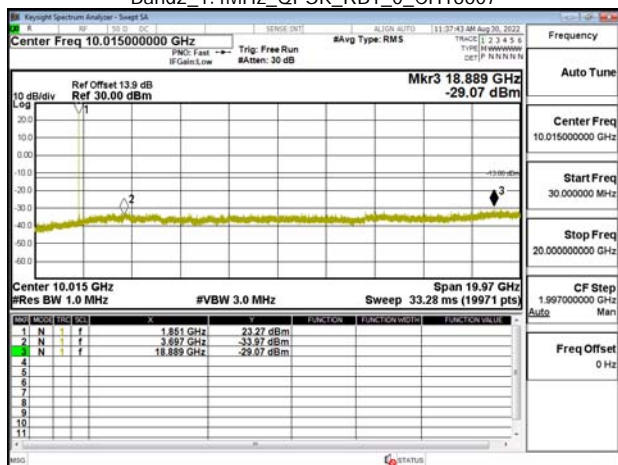


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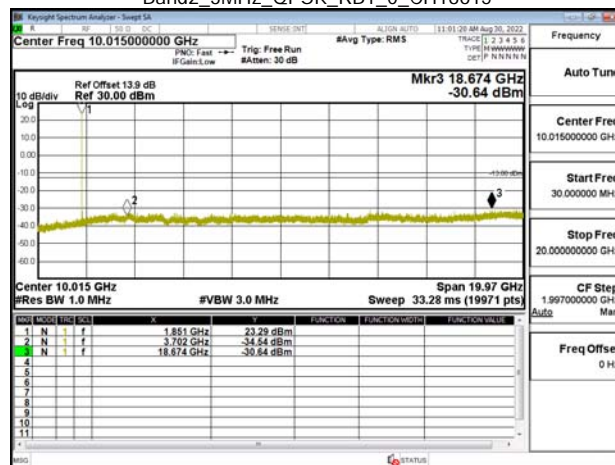
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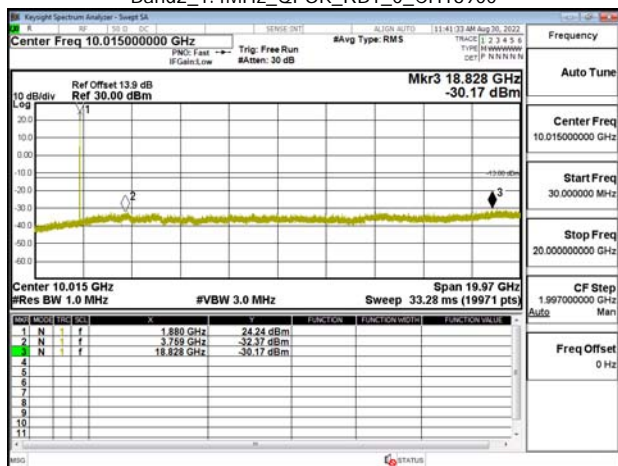
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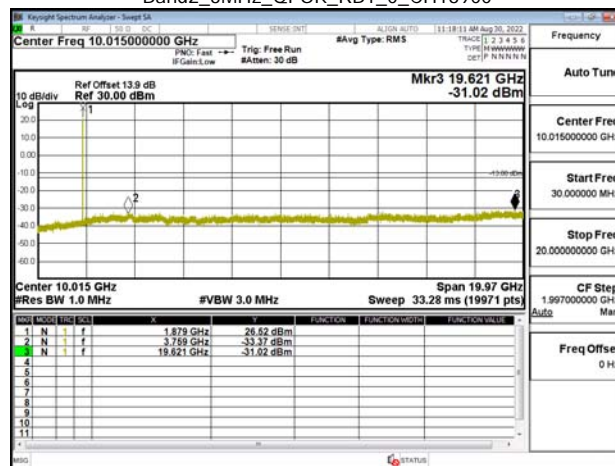
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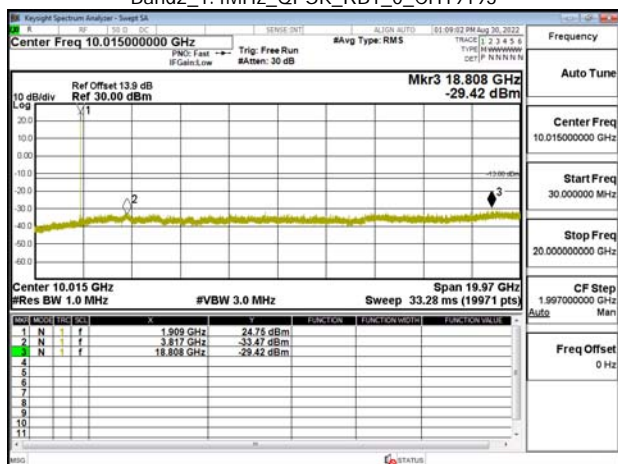
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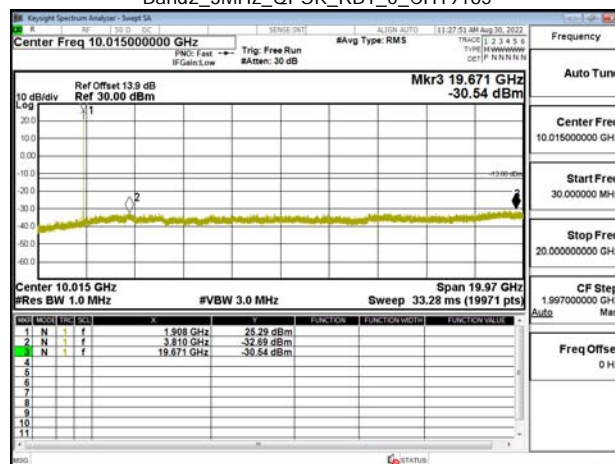
Band2_3MHz_QPSK_RB1_0_CH18900



Band2_1.4MHz_QPSK_RB1_0_CH19193



Band2_3MHz_QPSK_RB1_0_CH19185



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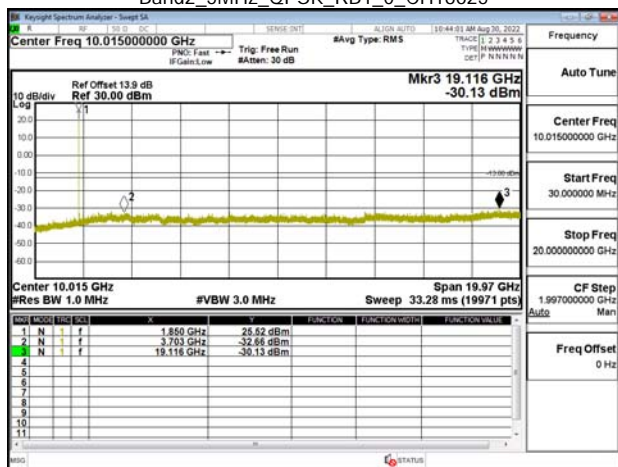
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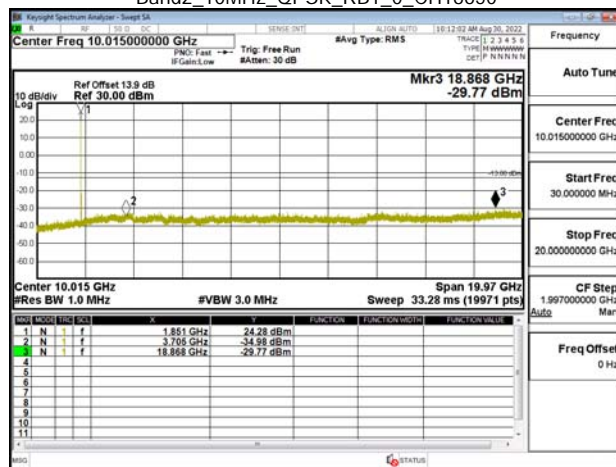
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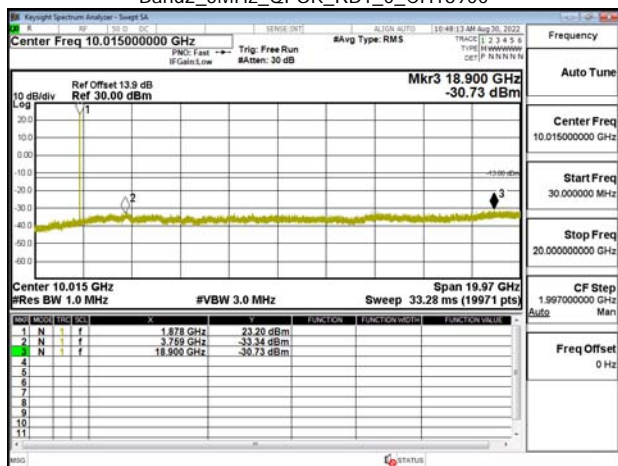
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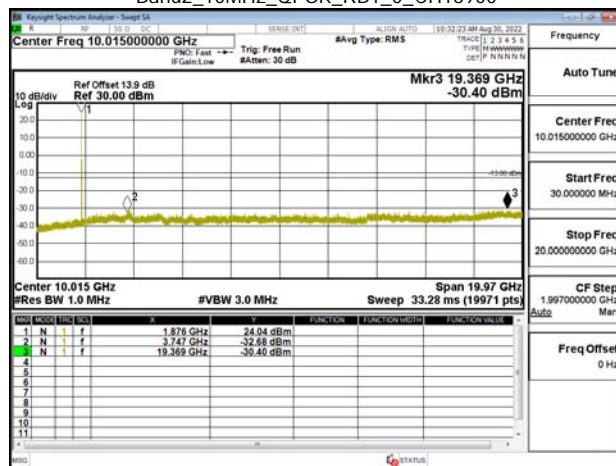
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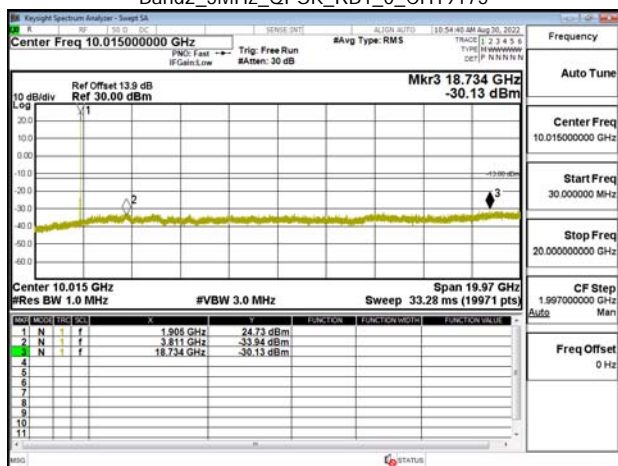
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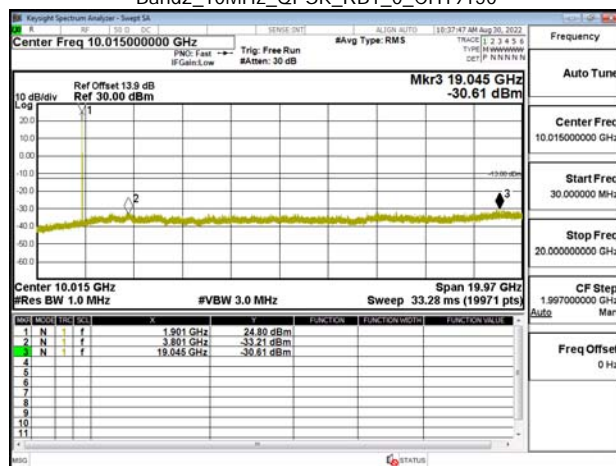
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Band2_5MHz_QPSK_RB1_0_CH19175



Band2_10MHz_QPSK_RB1_0_CH19150



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