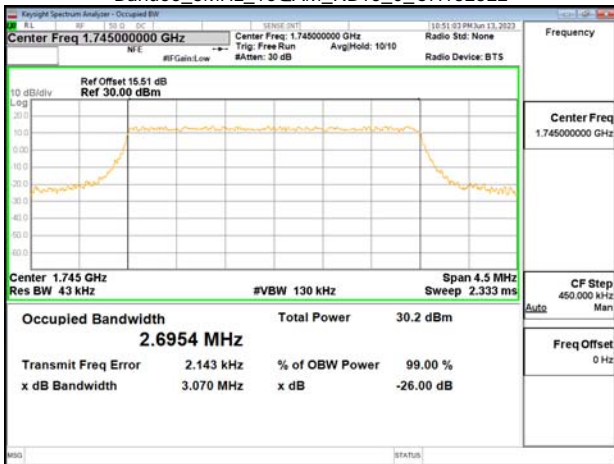
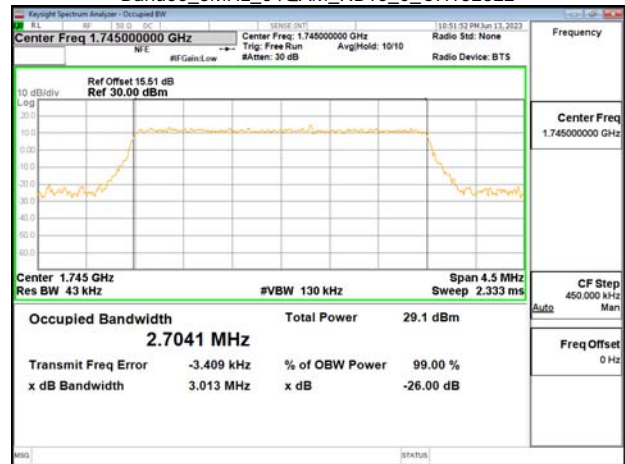


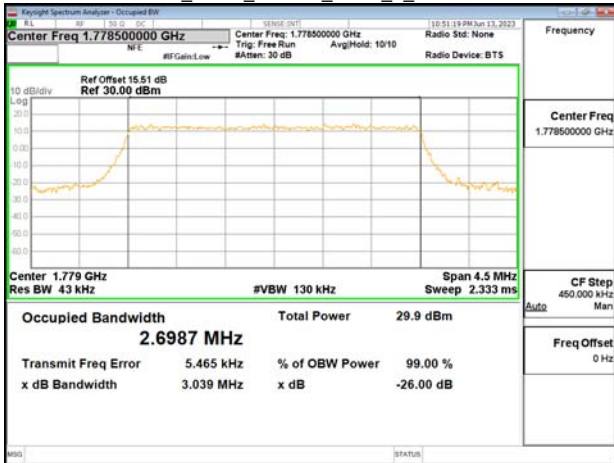
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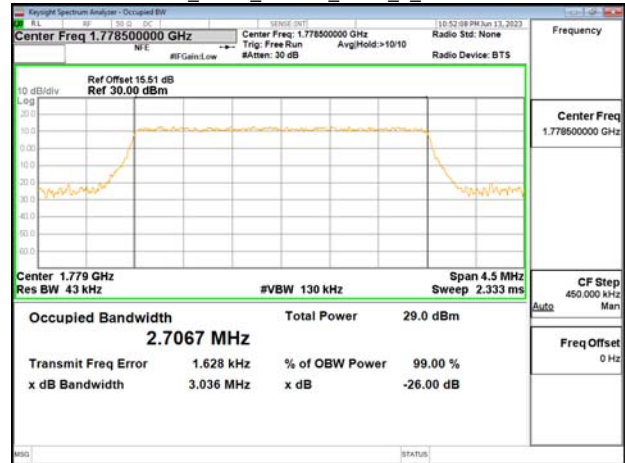
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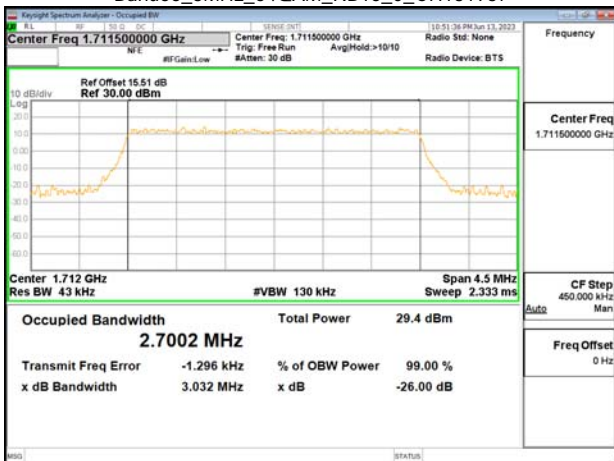
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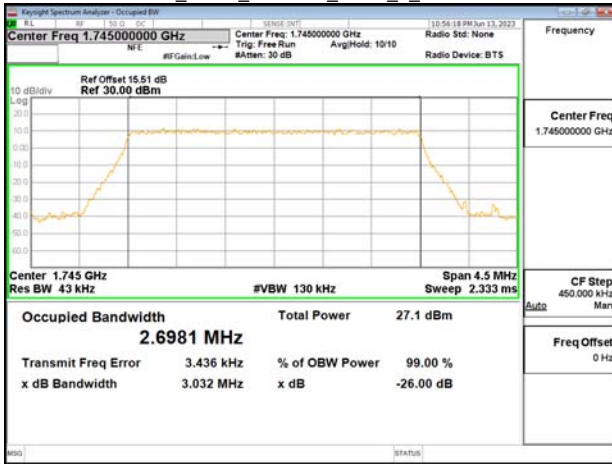


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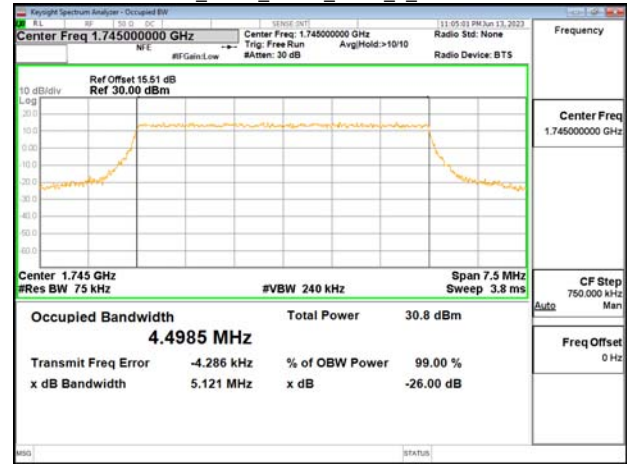
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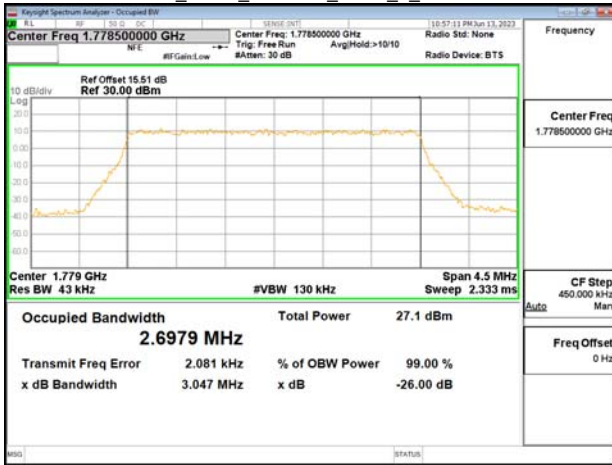
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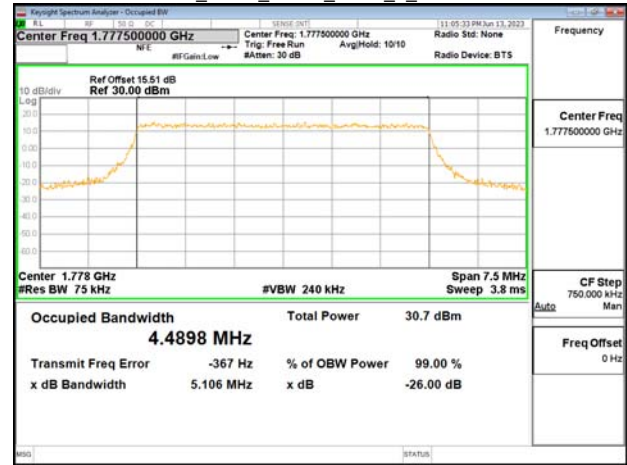
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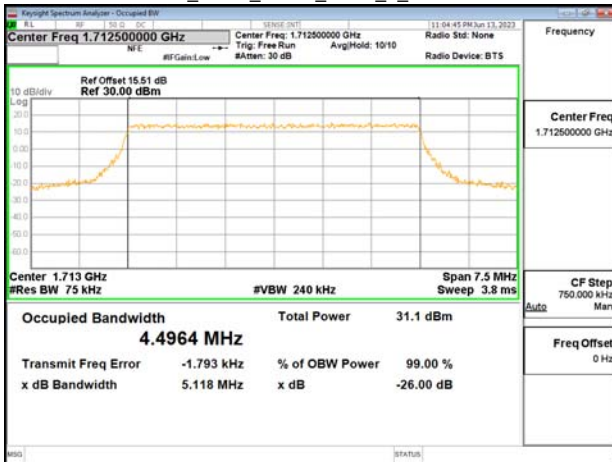
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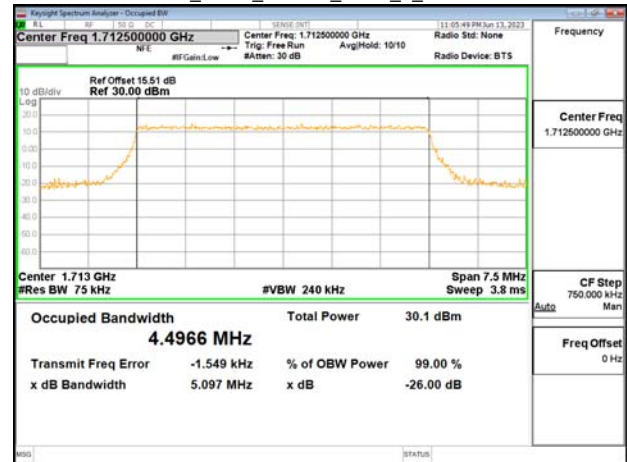
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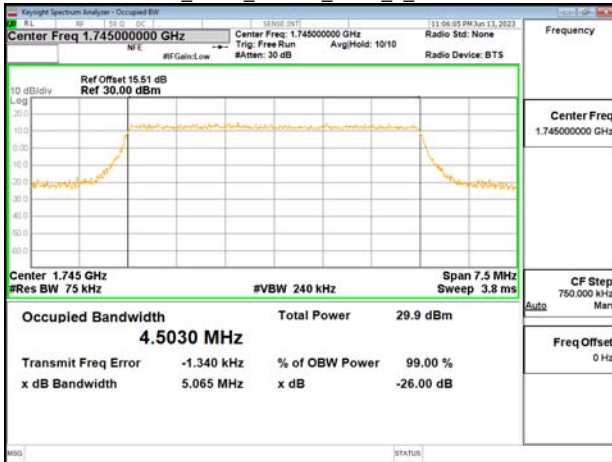


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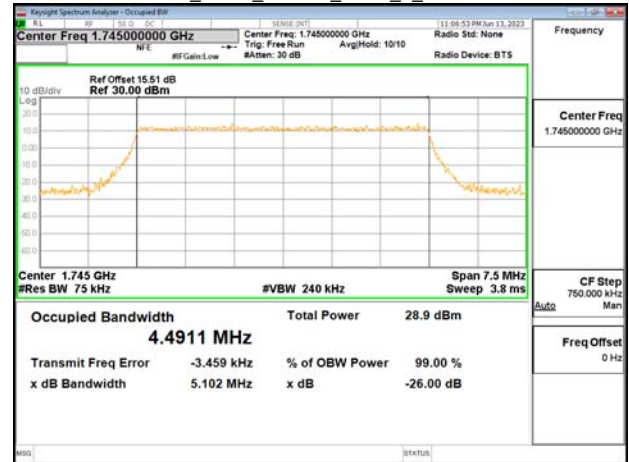
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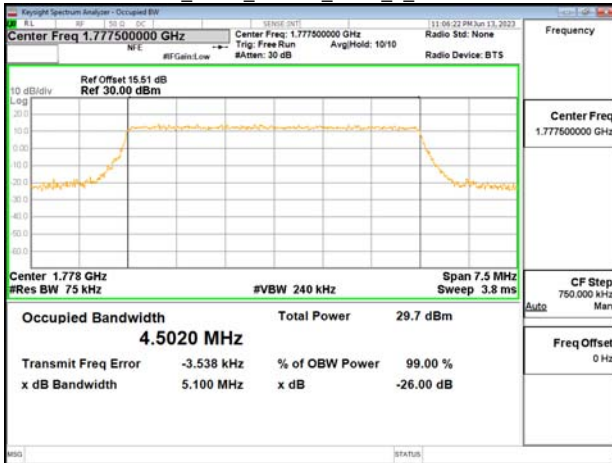
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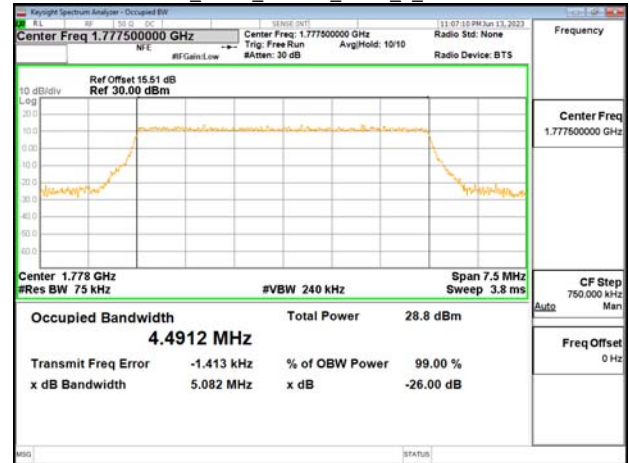
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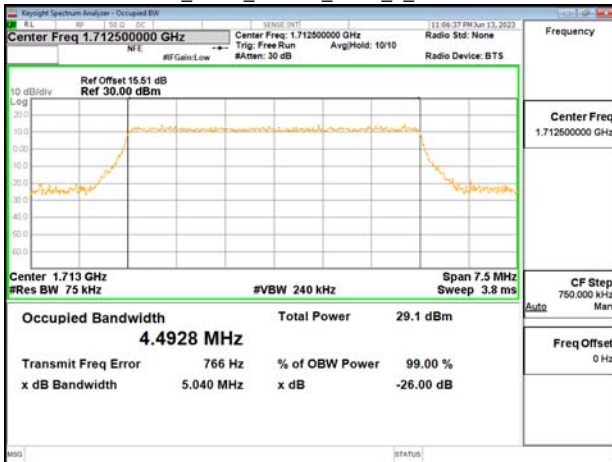
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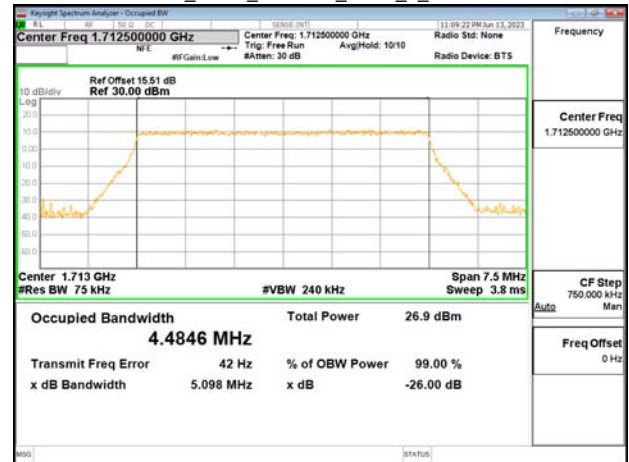
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Band66_5MHz_64QAM_RB25_0_CH131997



Band66_5MHz_256QAM_RB25_0_CH131997

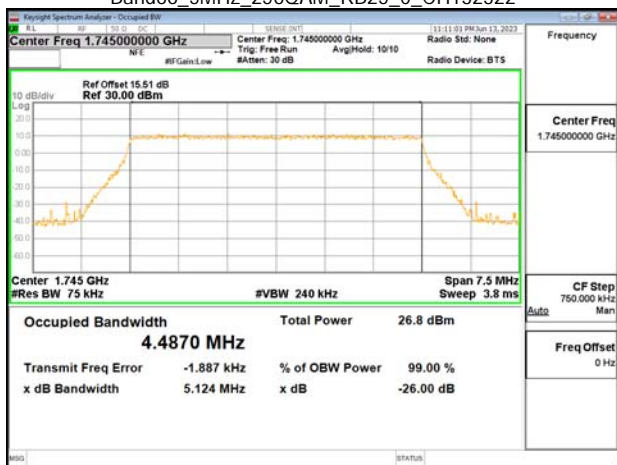


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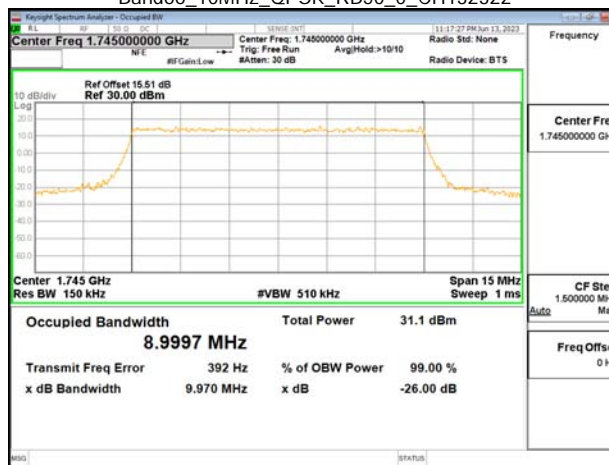
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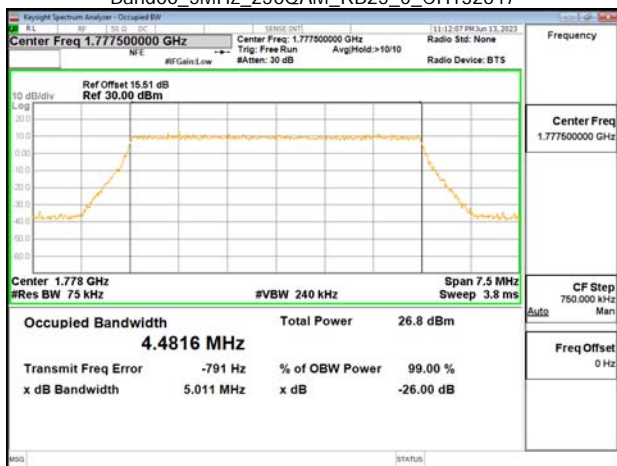
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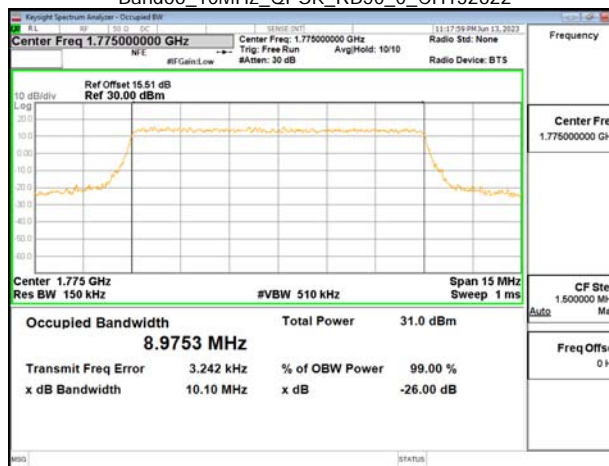
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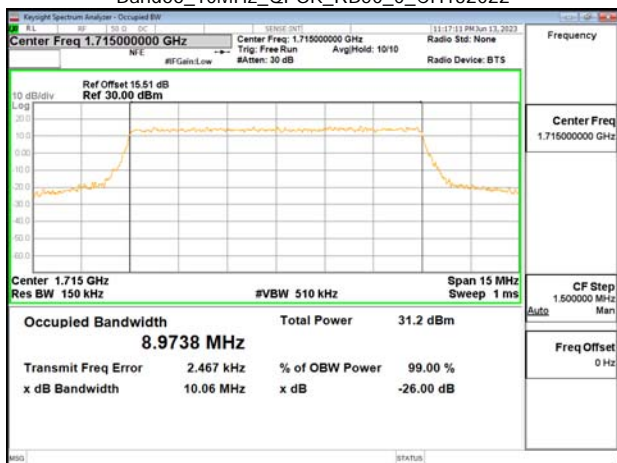
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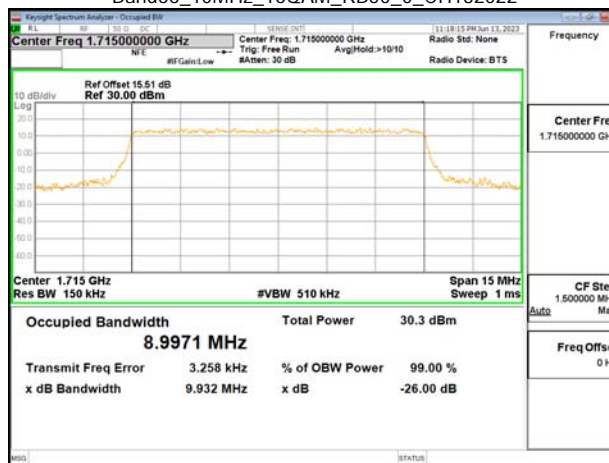
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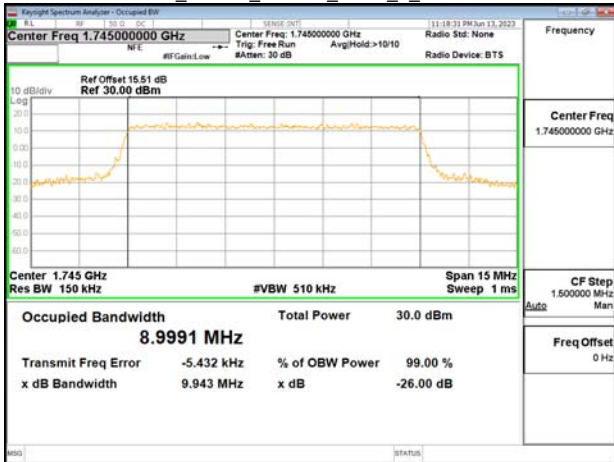


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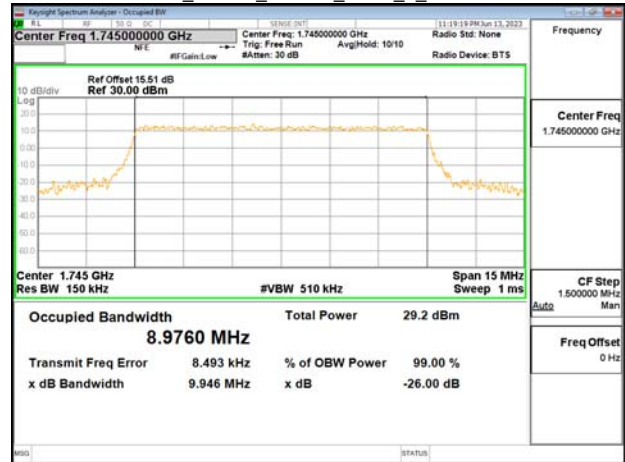
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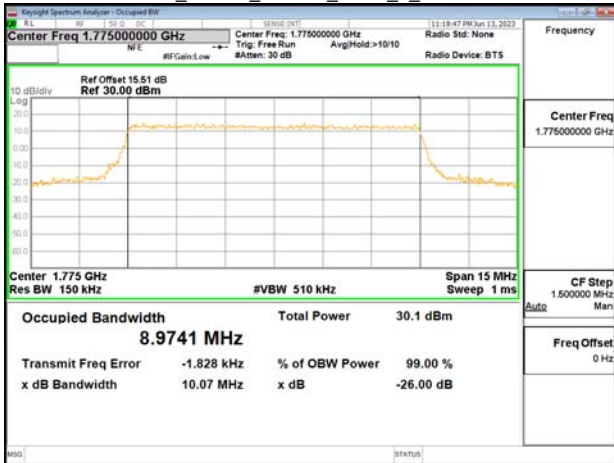
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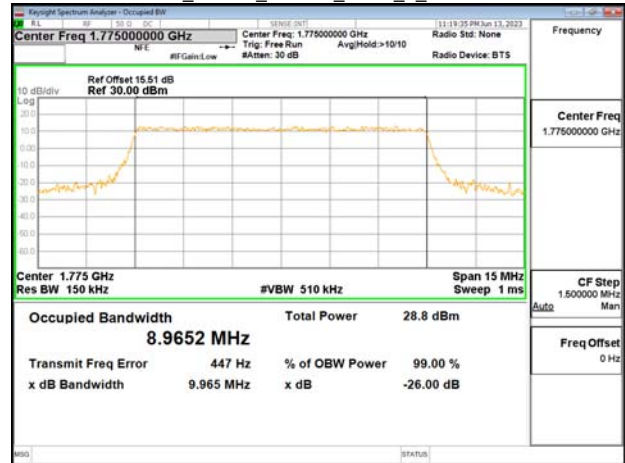
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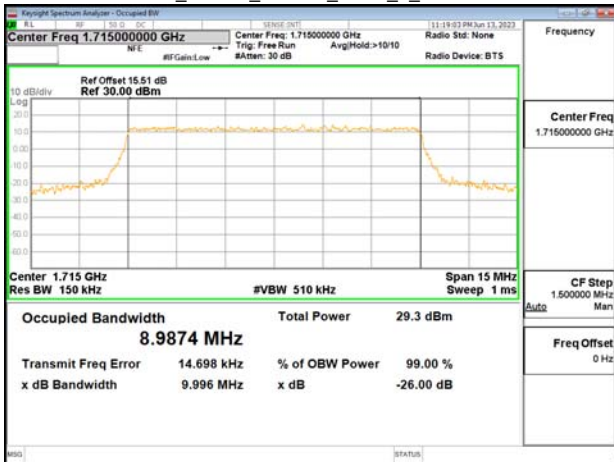
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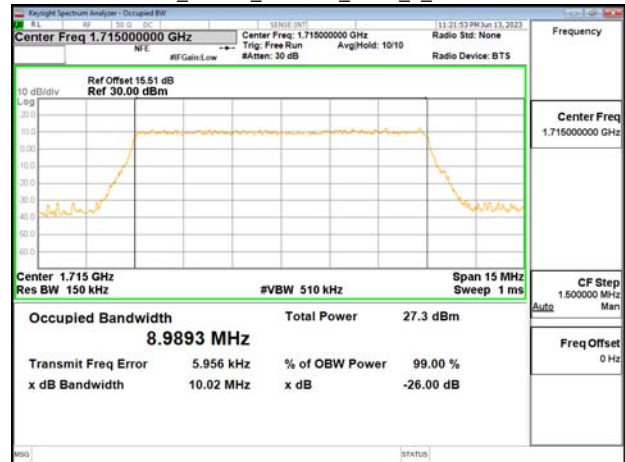
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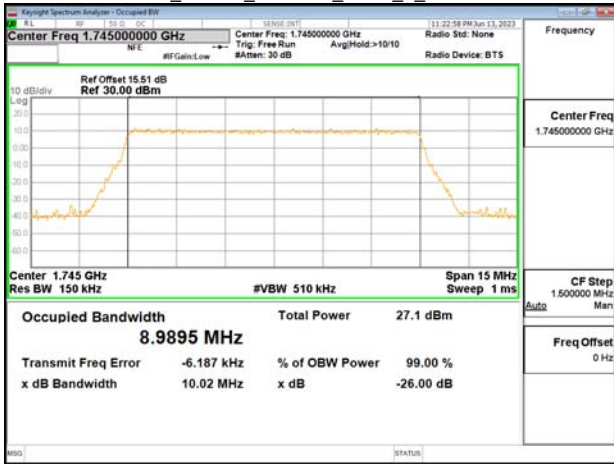


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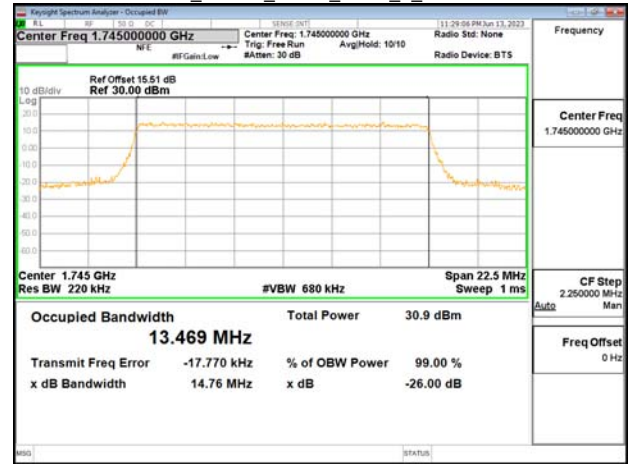
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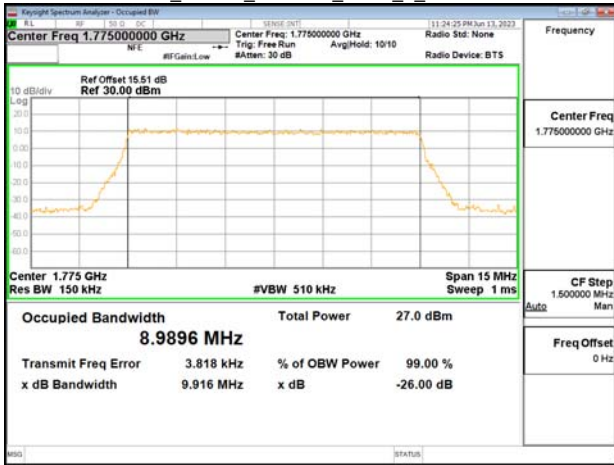
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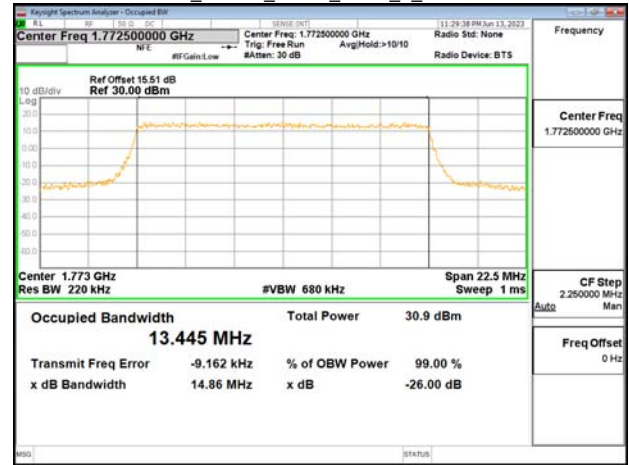
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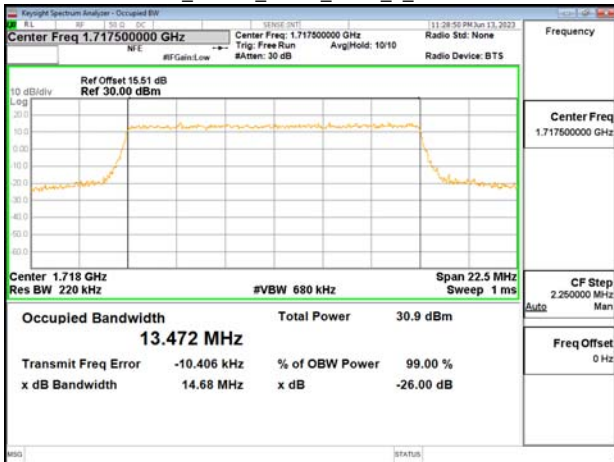
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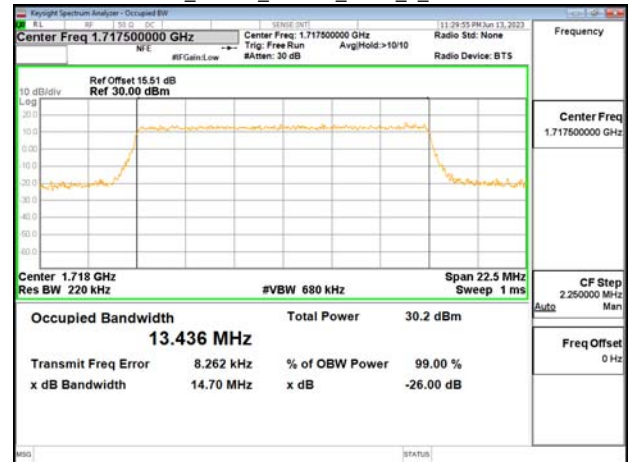
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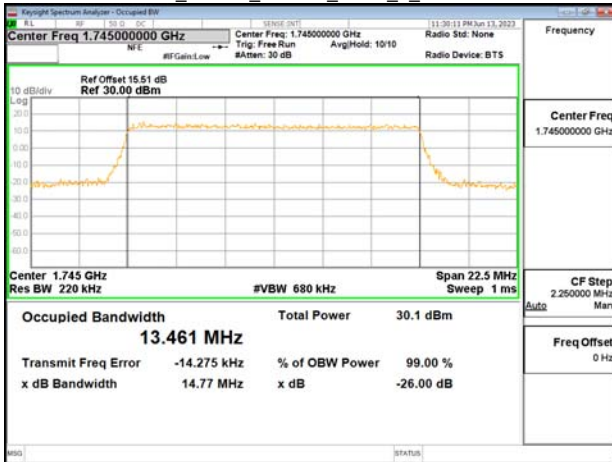


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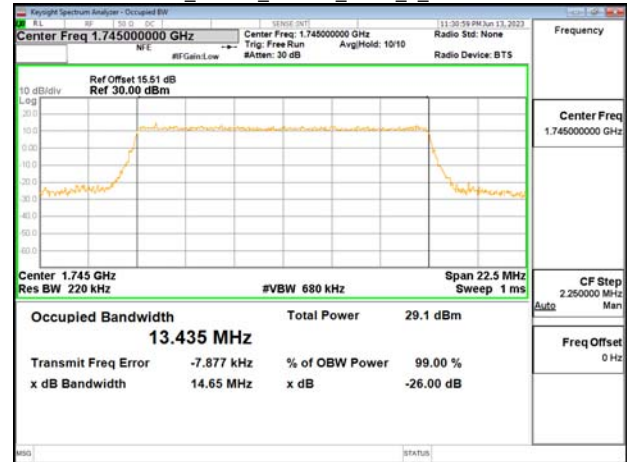
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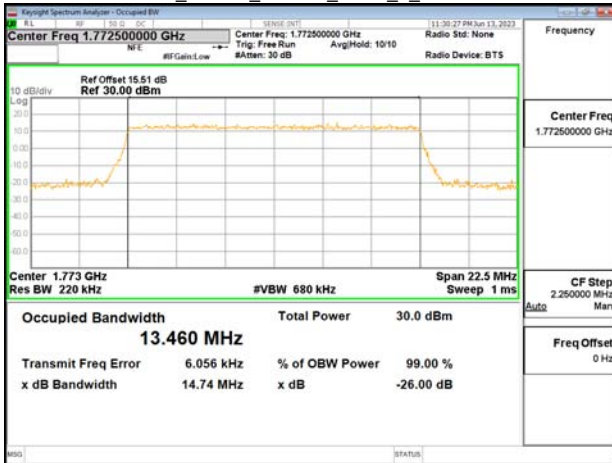
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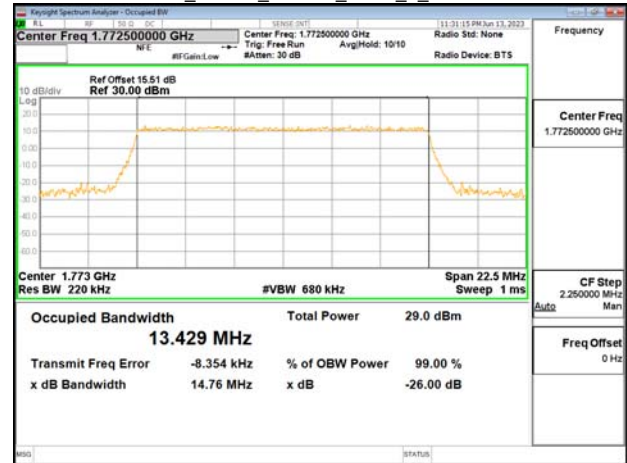
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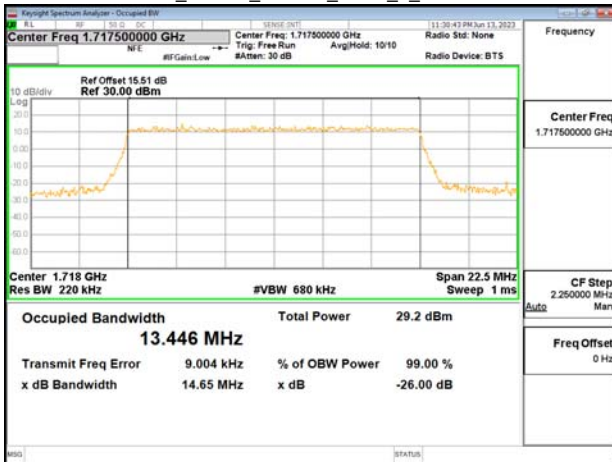
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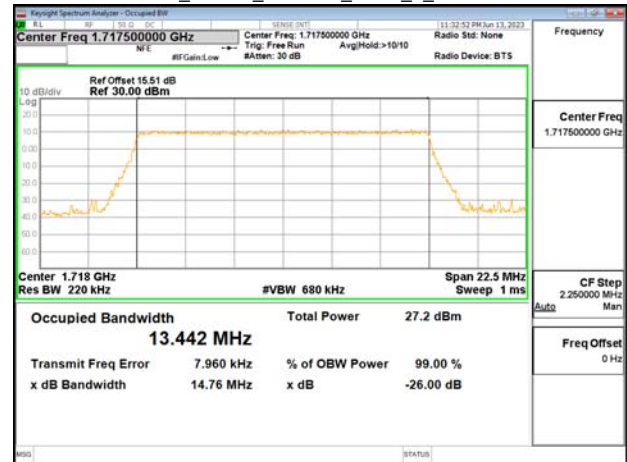
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Band66_15MHz_64QAM_RB75_0_CH132047



Band66_15MHz_256QAM_RB75_0_CH132047

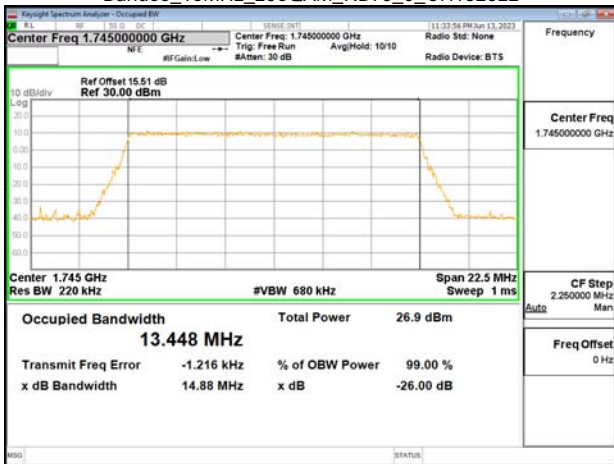


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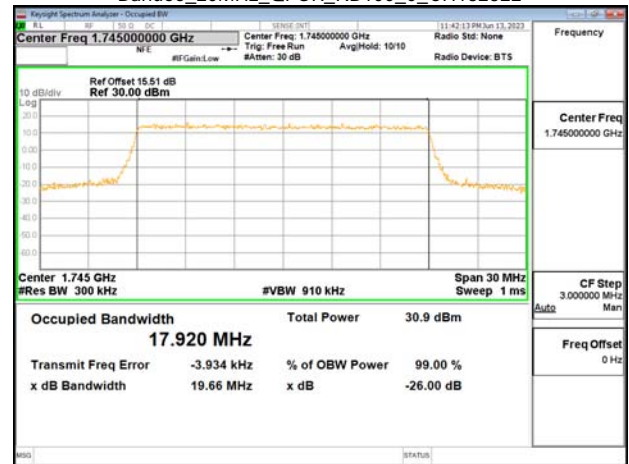
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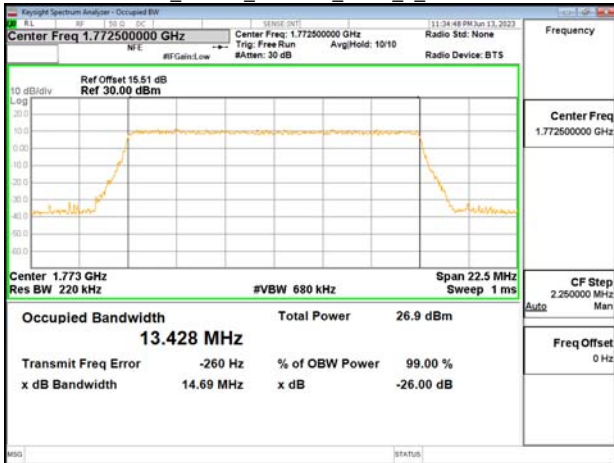
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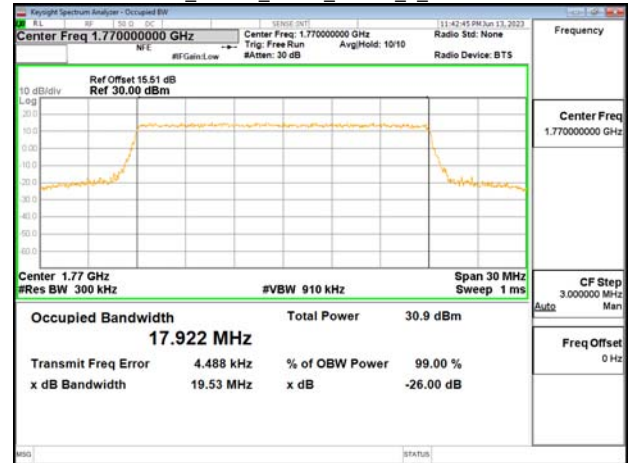
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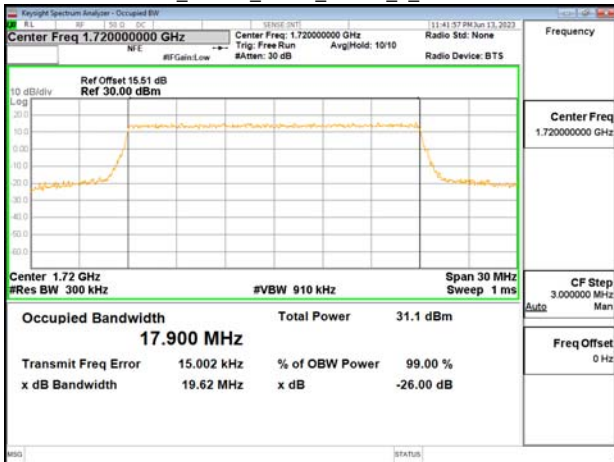
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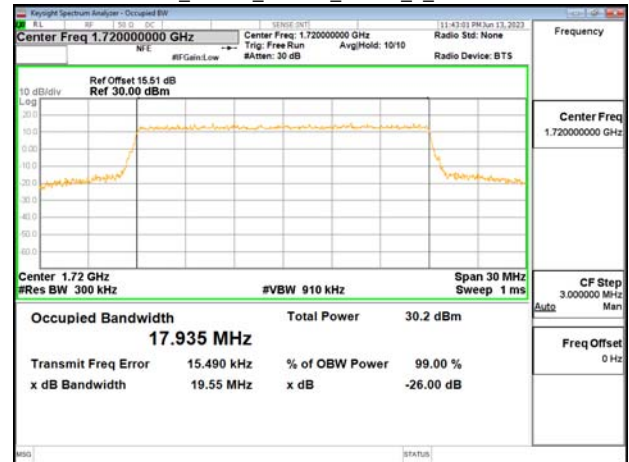
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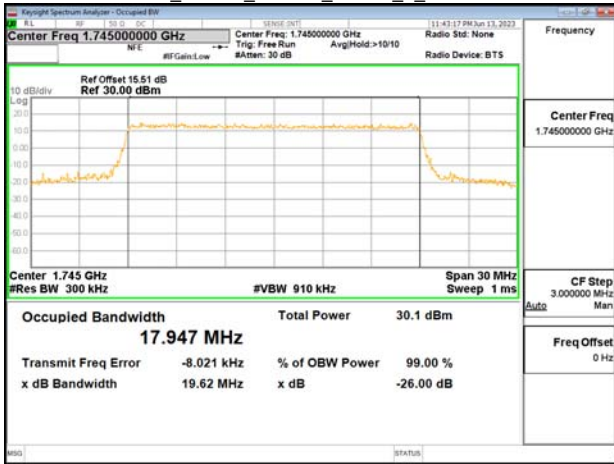


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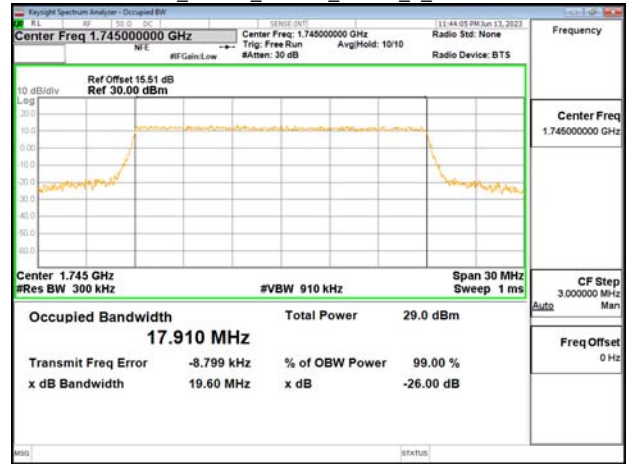
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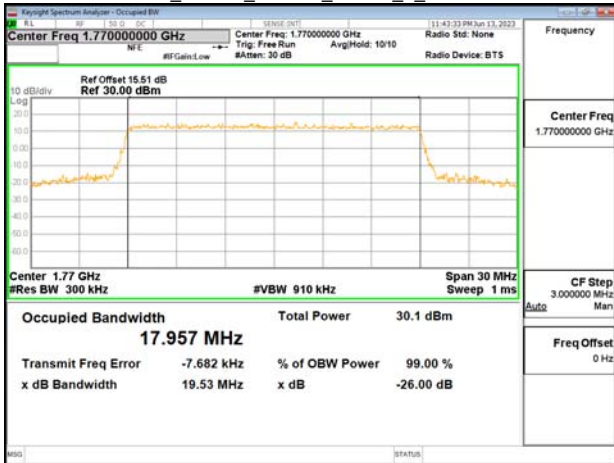
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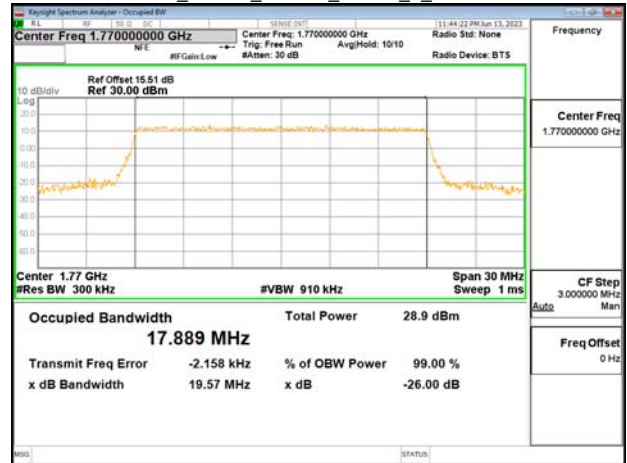
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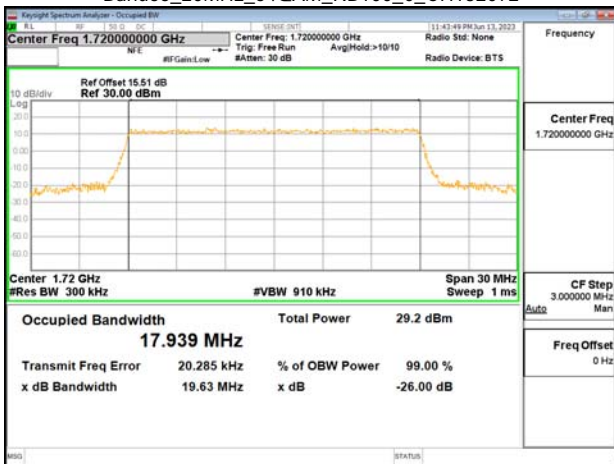
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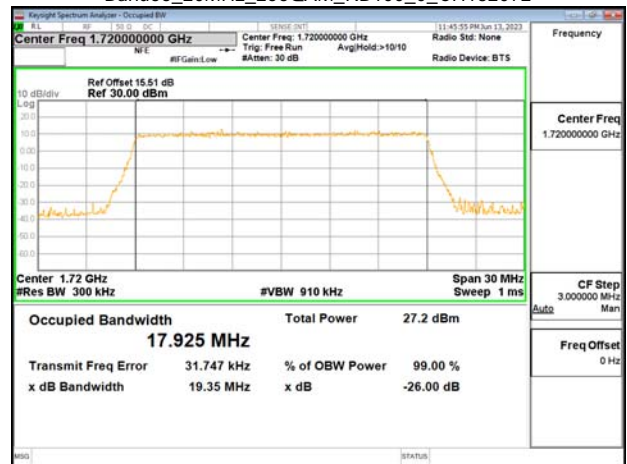
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Band66_20MHz_64QAM_RB100_0_CH132072



Band66_20MHz_256QAM_RB100_0_CH132072

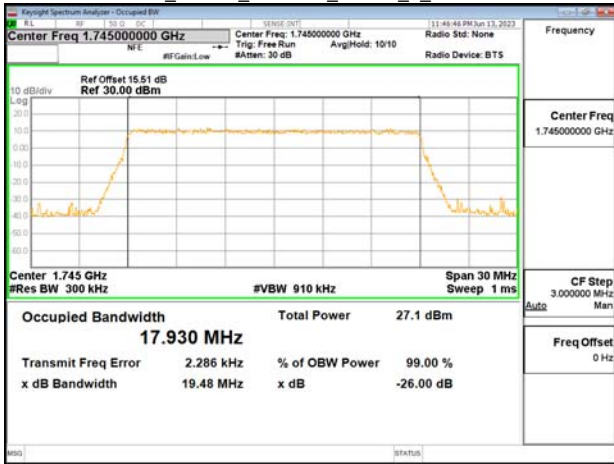


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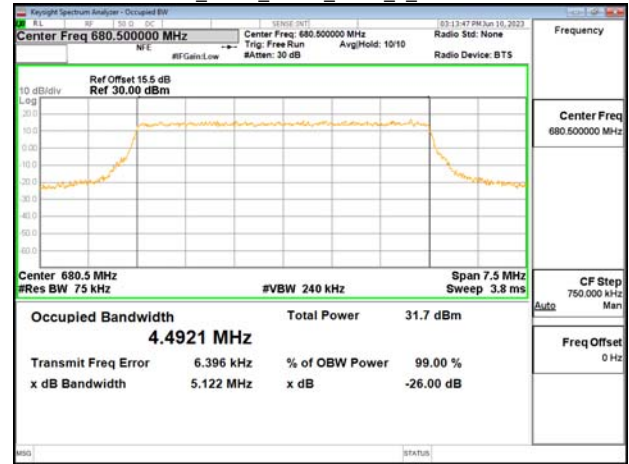
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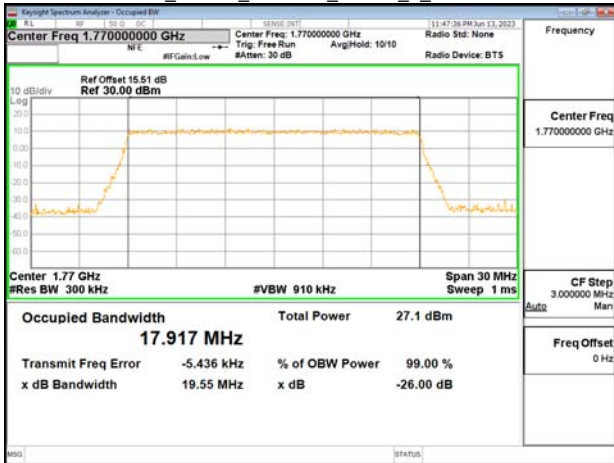
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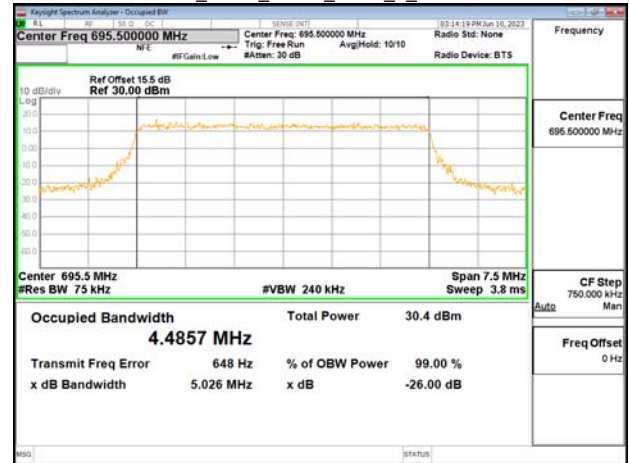
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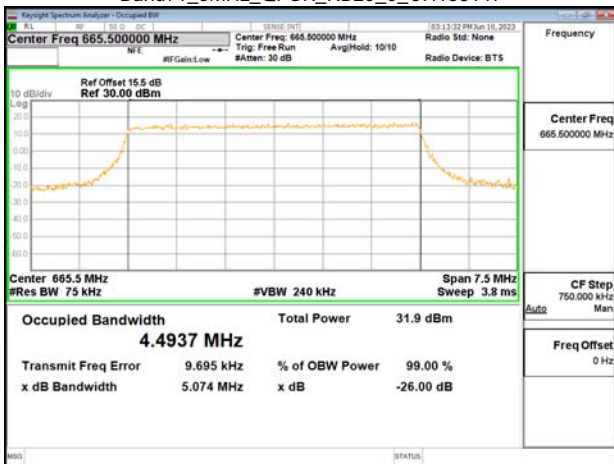
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Band71_5MHz_QPSK_RB25_0_CH133447



Band71_5MHz_QPSK_RB25_0_CH133147



Band71_5MHz_16QAM_RB25_0_CH133147

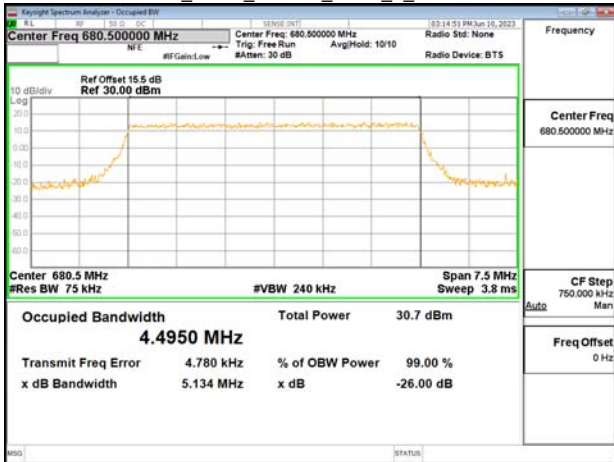


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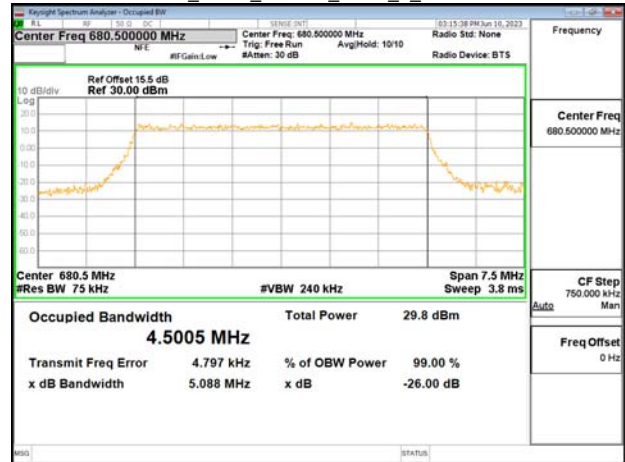
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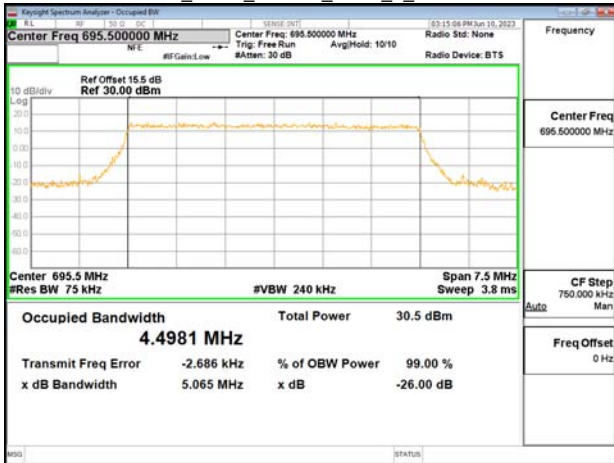
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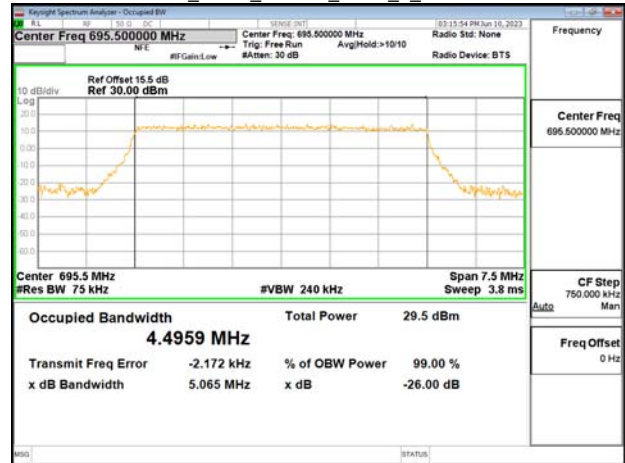
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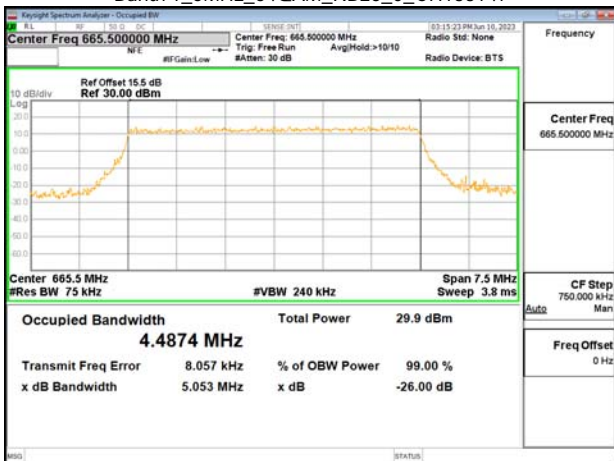
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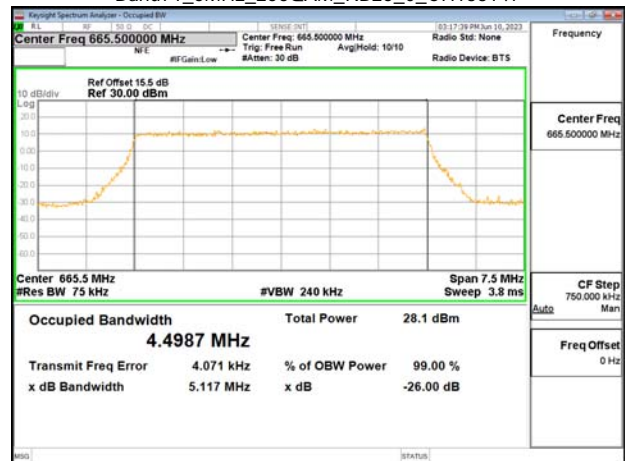
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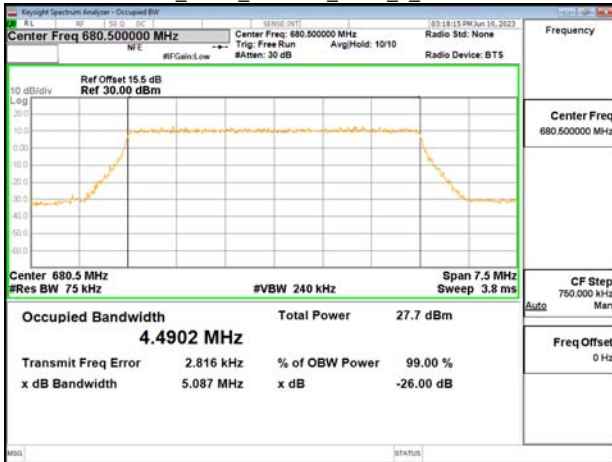


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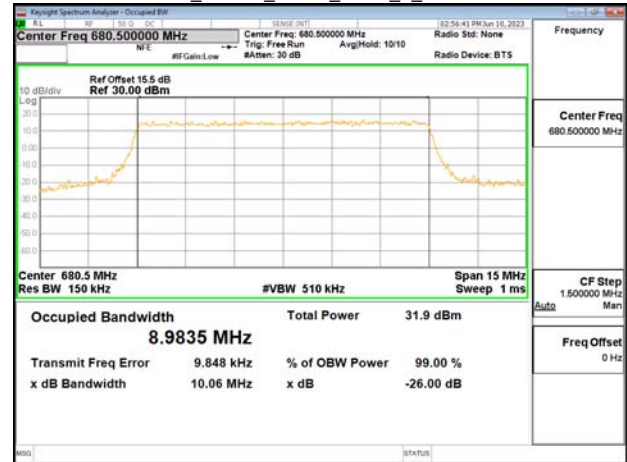
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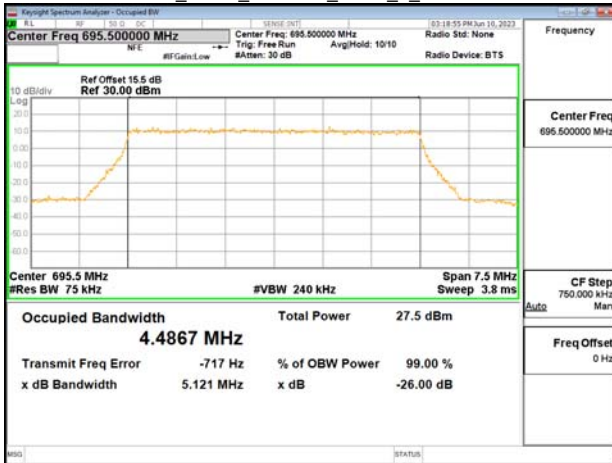
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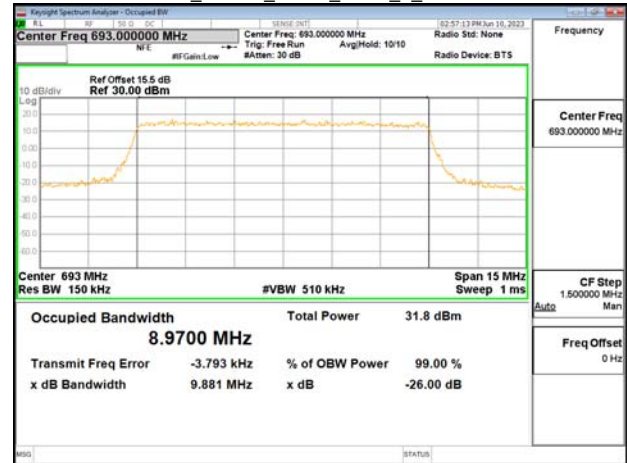
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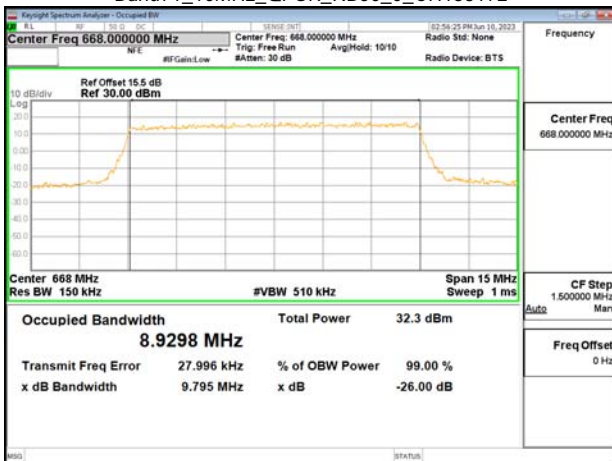
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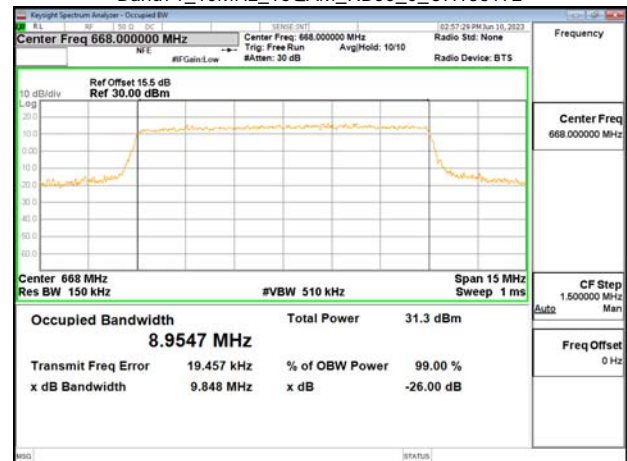
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Band71_10MHz_QPSK_RB50_0_CH133172



Band71_10MHz_16QAM_RB50_0_CH133172

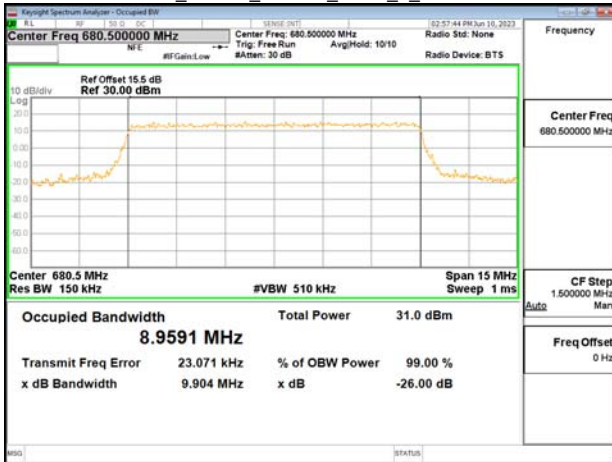


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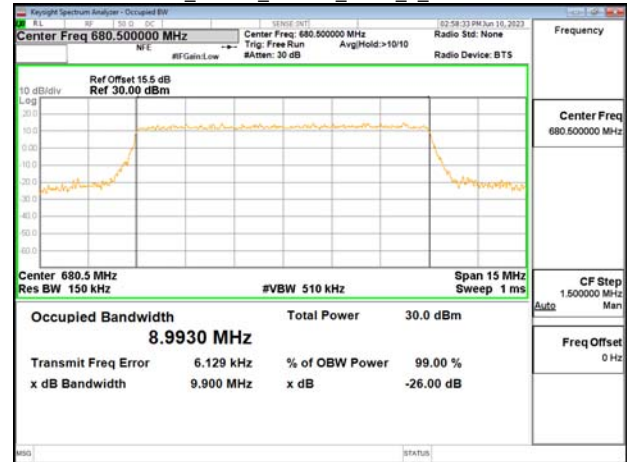
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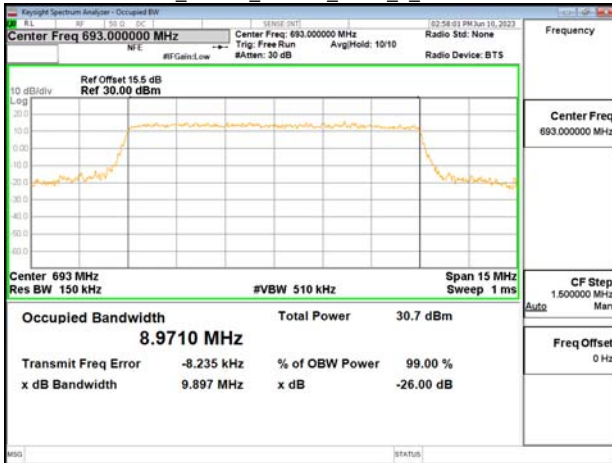
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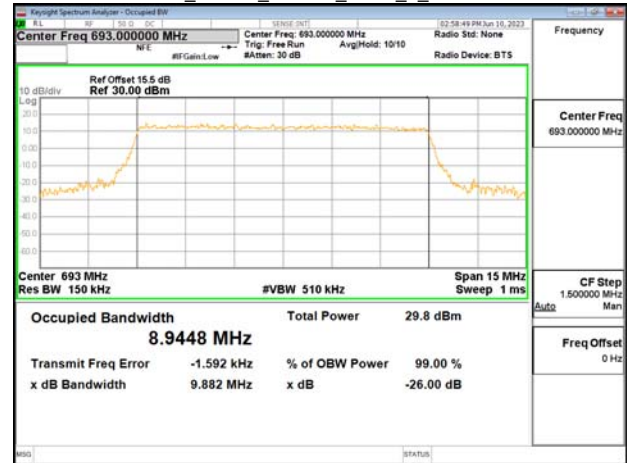
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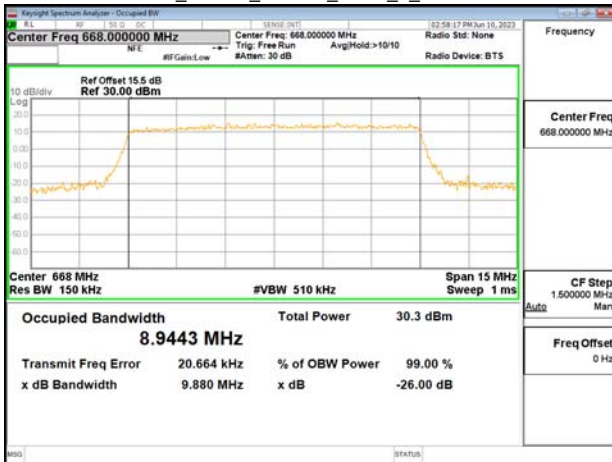
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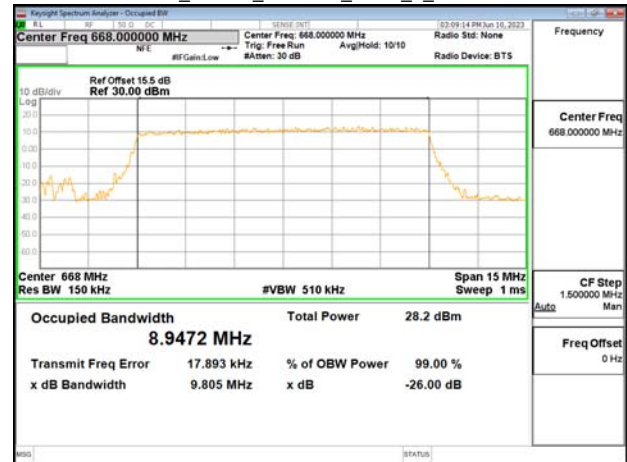
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Band71_10MHz_64QAM_RB50_0_CH133172



Band71_10MHz_256QAM_RB50_0_CH133172

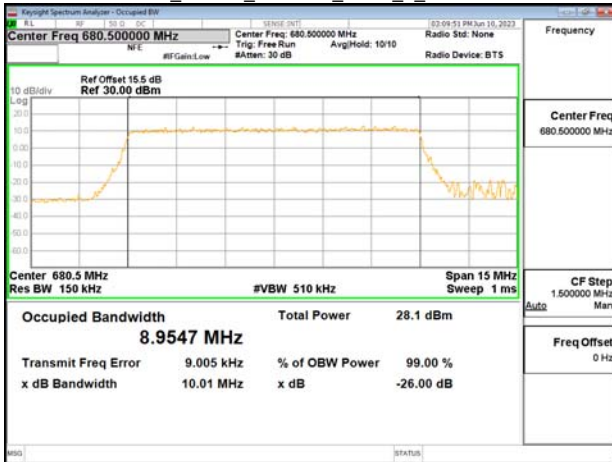


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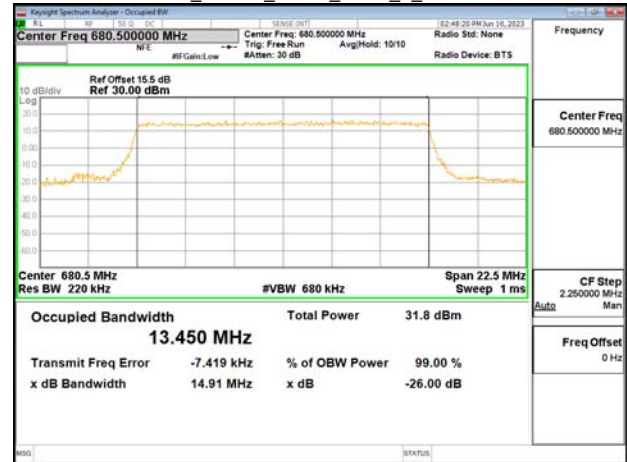
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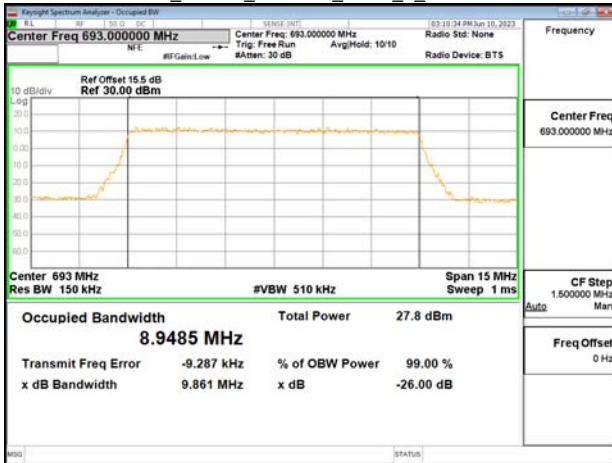
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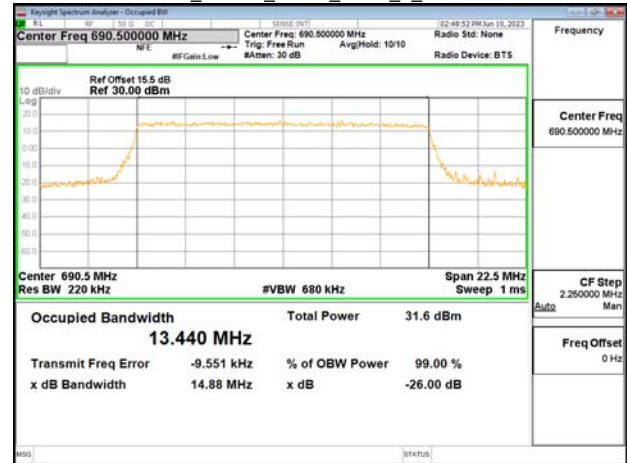
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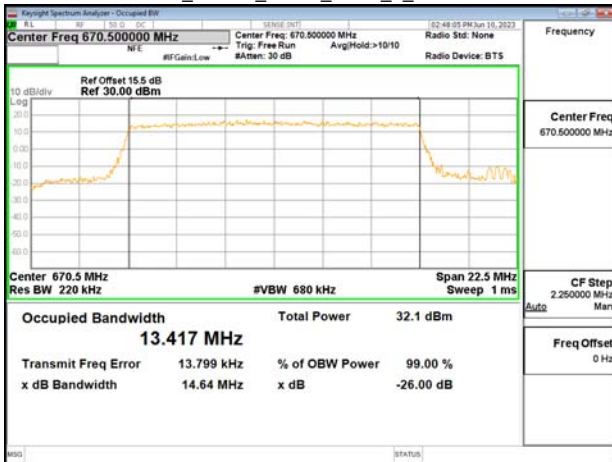
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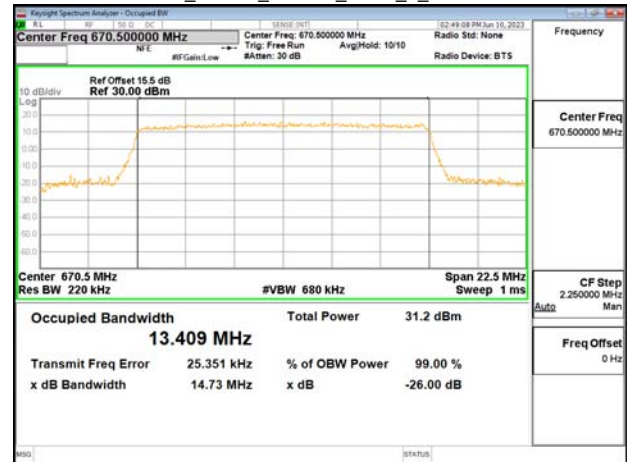
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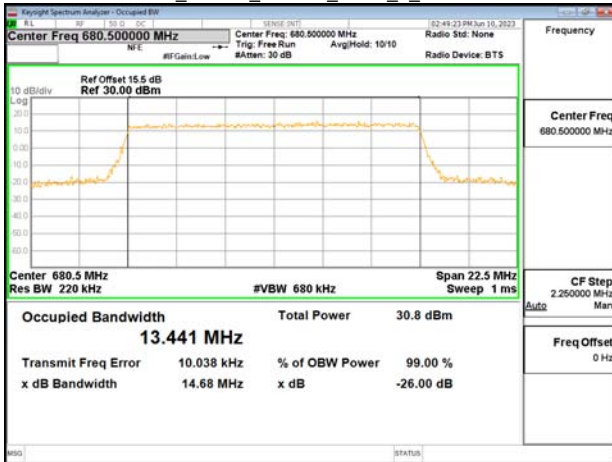


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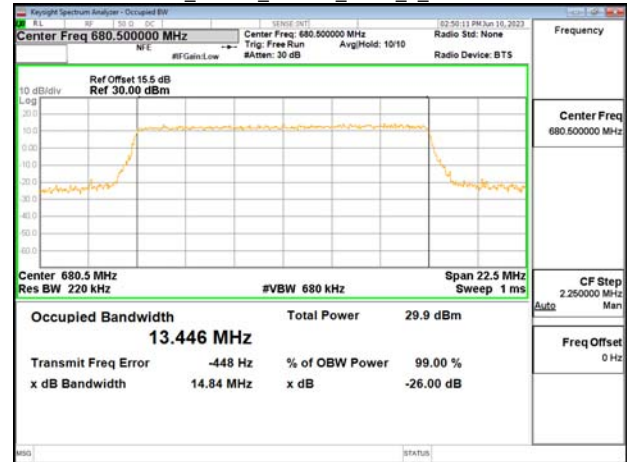
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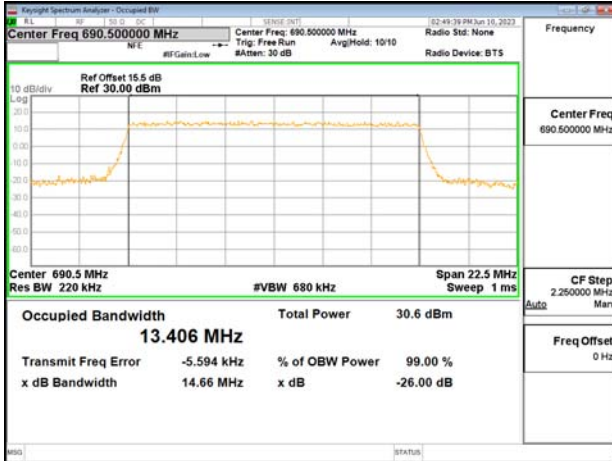
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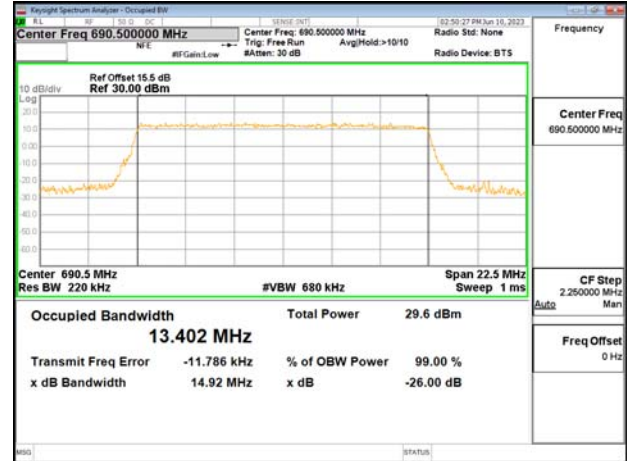
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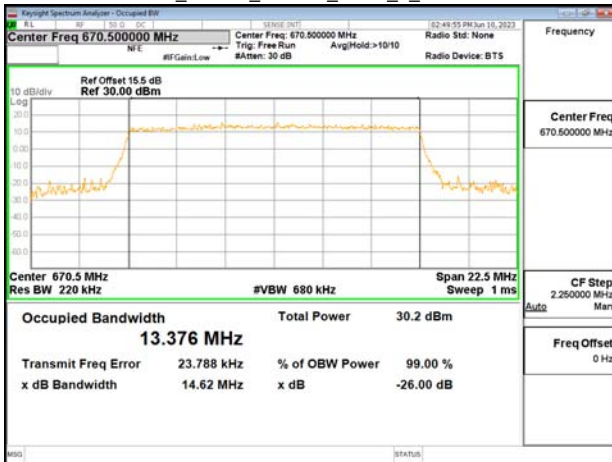
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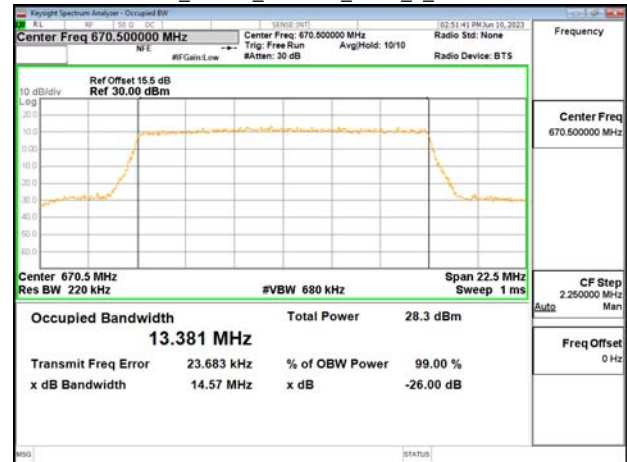
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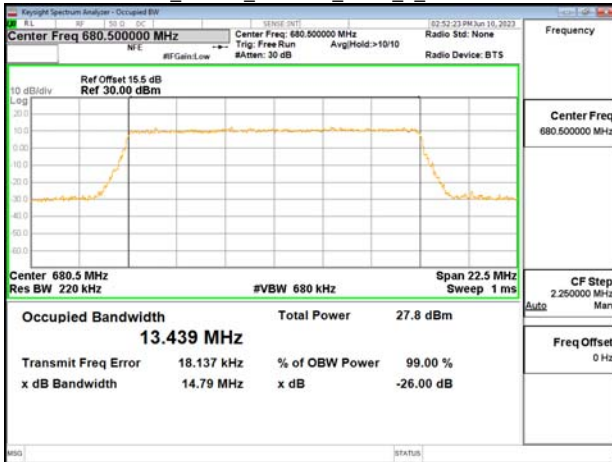


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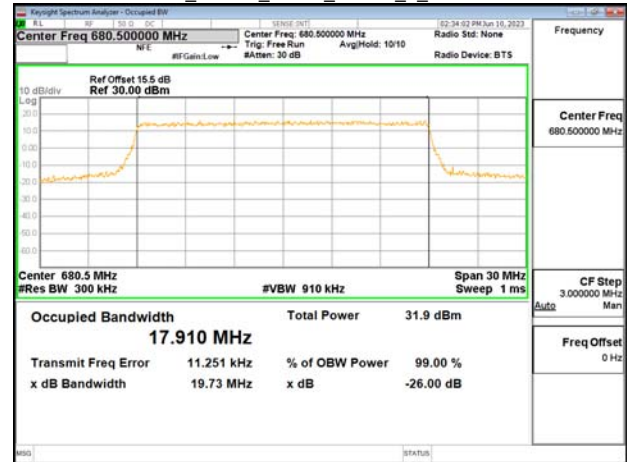
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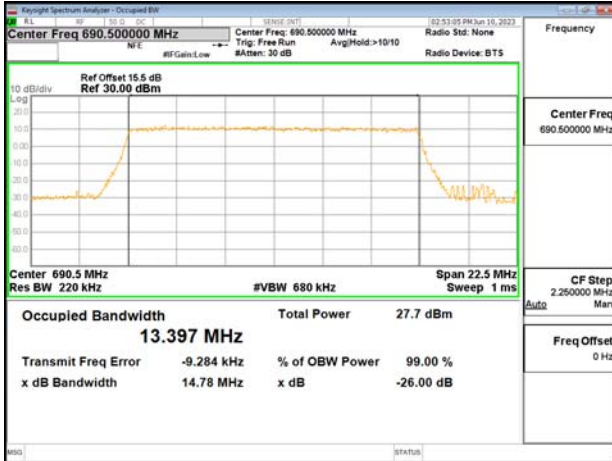
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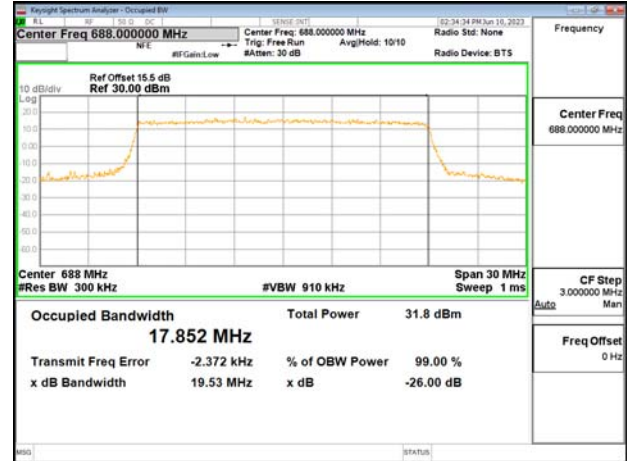
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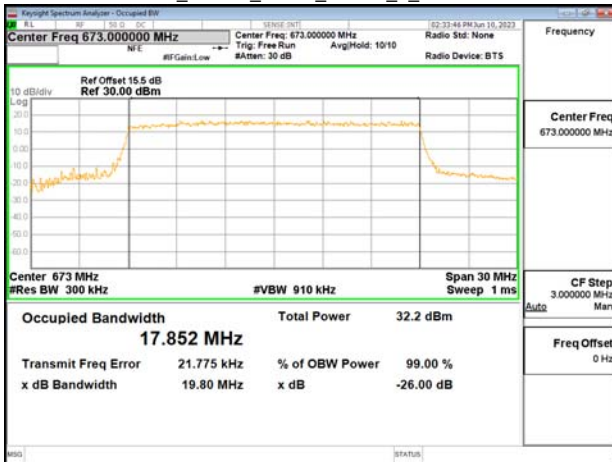
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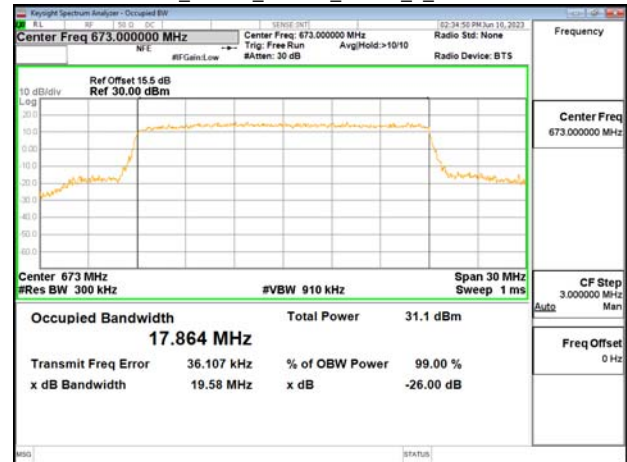
Band71_20MHz_QPSK_RB100_0_CH133372



Band71_20MHz_QPSK_RB100_0_CH133222



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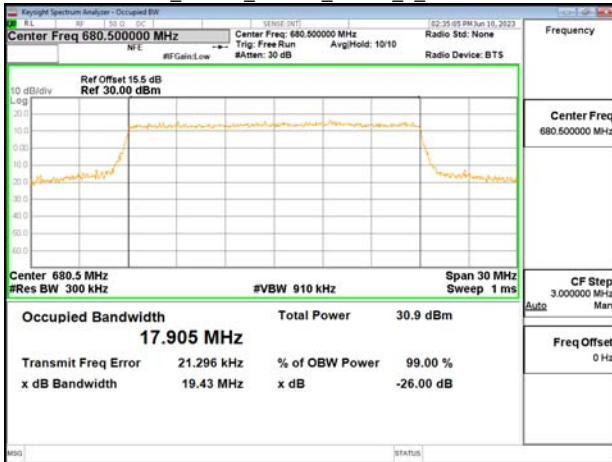


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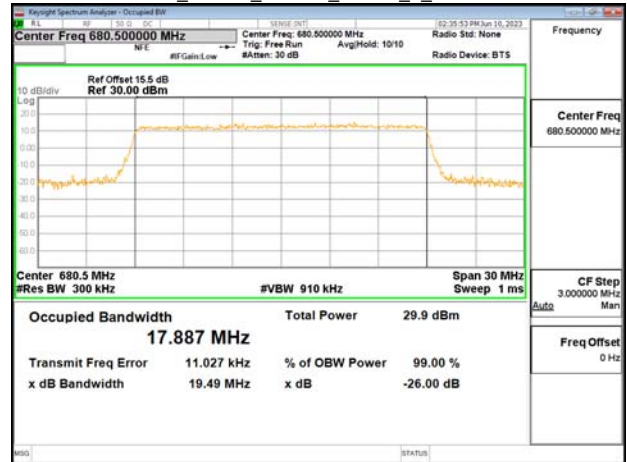
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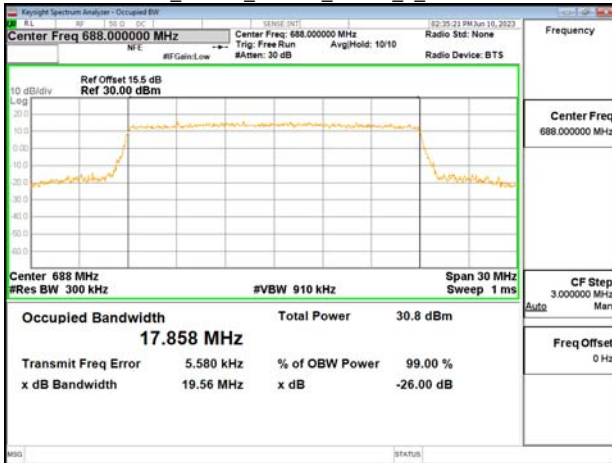
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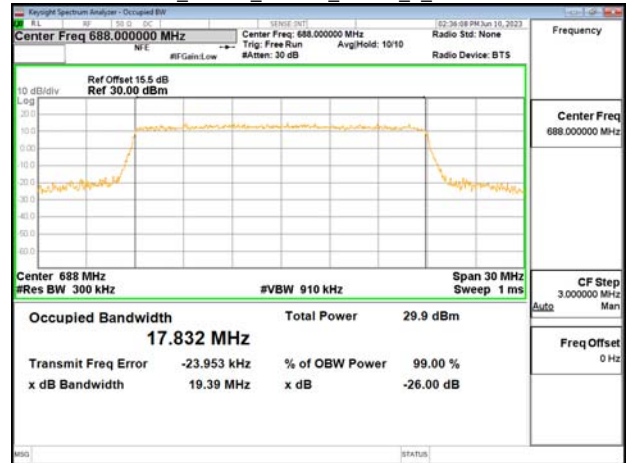
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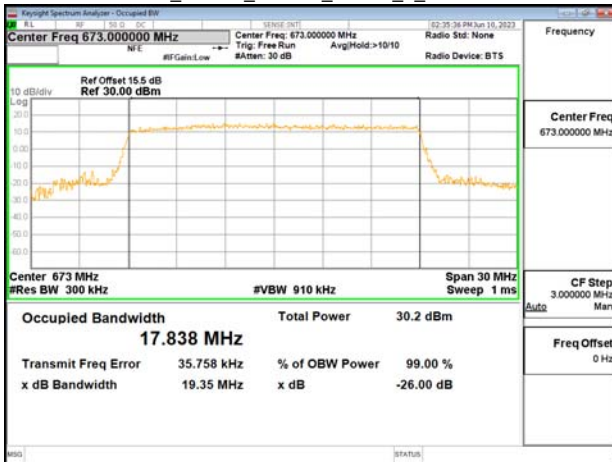
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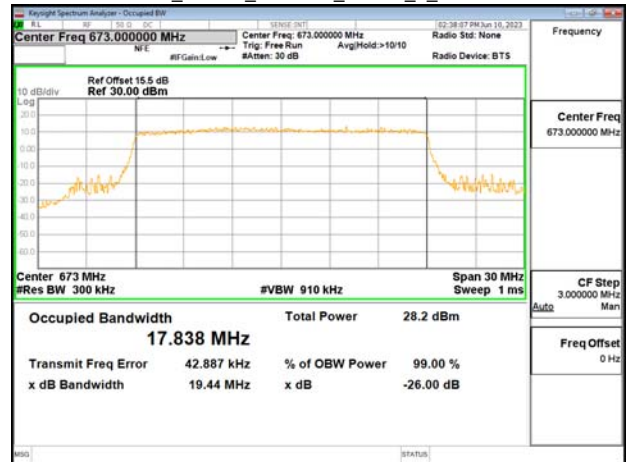
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Band71_20MHz_64QAM_RB100_0_CH133222



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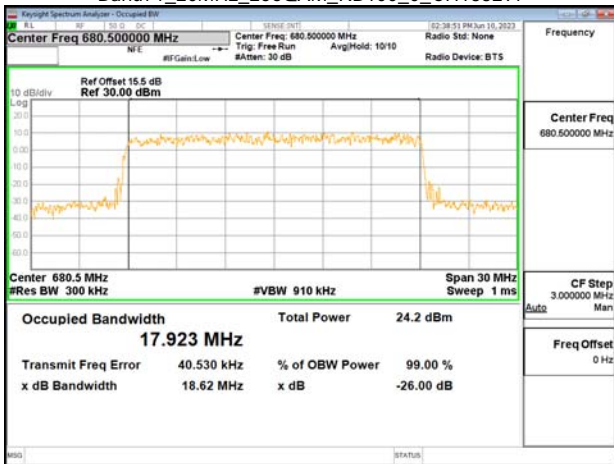


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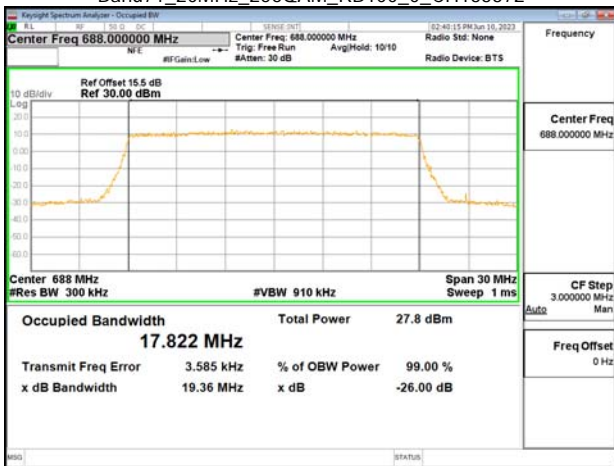
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Band71_20MHz_256QAM_RB100_0_CH133297



Band71_20MHz_256QAM_RB100_0_CH133372



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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)

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(a)

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
 - (i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;
 - (ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;
 - (iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

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;
- i. 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.

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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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz 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.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). 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. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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:

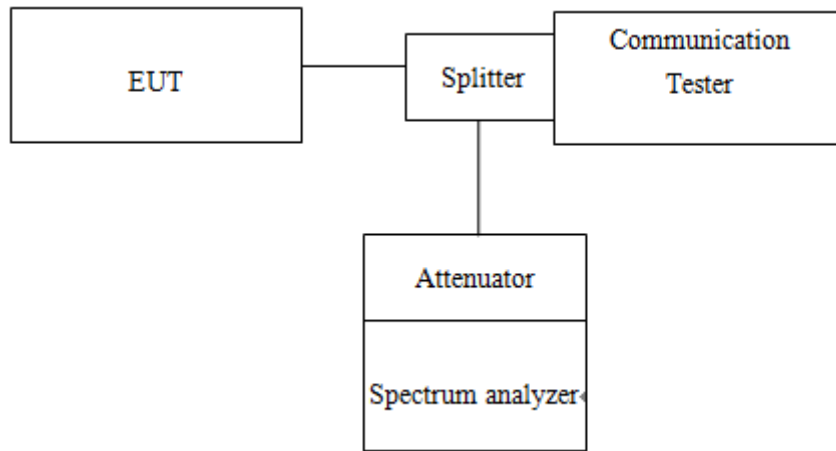
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the 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 $43 + 10 \log_{10}(P)$ 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 \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4 Band Edge Measurement Result:

Refer to next pages.

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Band Edge_Band2_1.4MHz_QPSK_RB1_0_CH18607



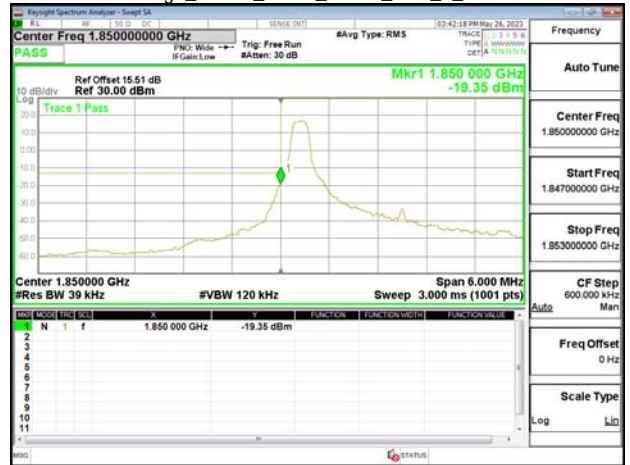
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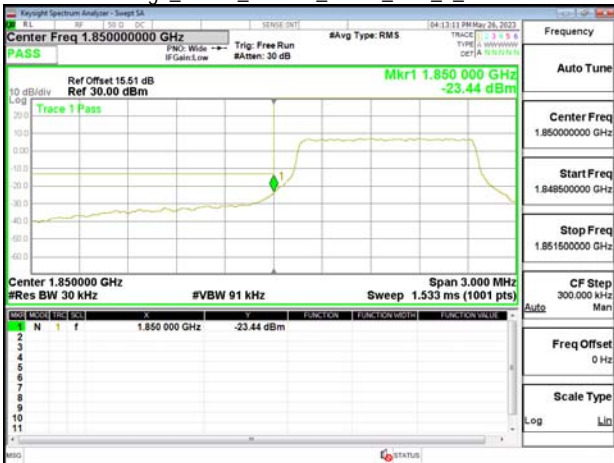
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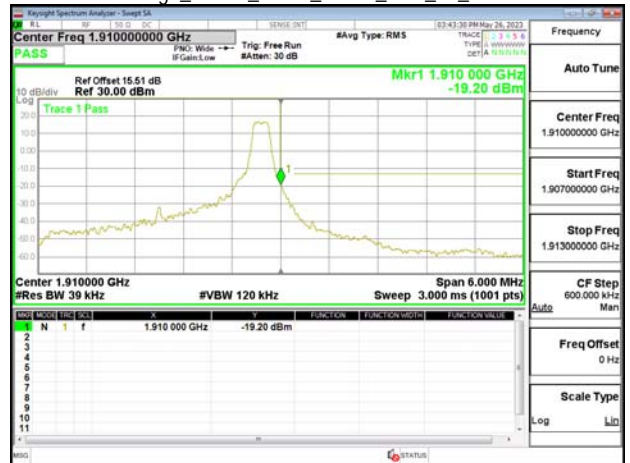
Band Edge_Band2_3MHz_QPSK_RB1_0_CH18615



Band Edge_Band2_1.4MHz_QPSK_RB6_0_CH18607



Band Edge_Band2_3MHz_QPSK_RB1_14_CH19185

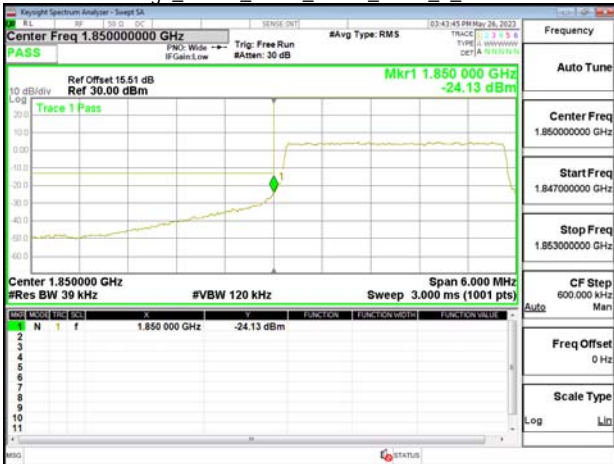


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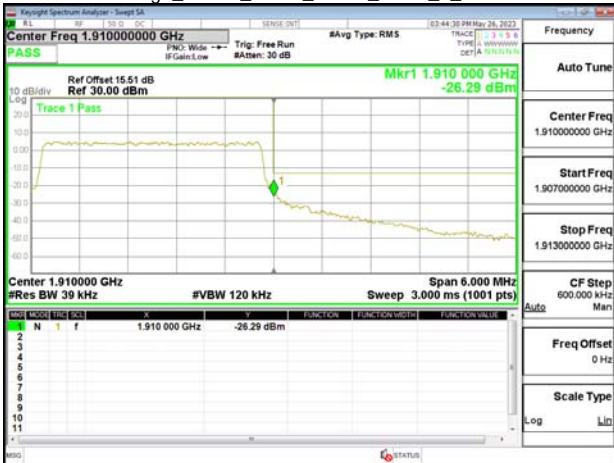
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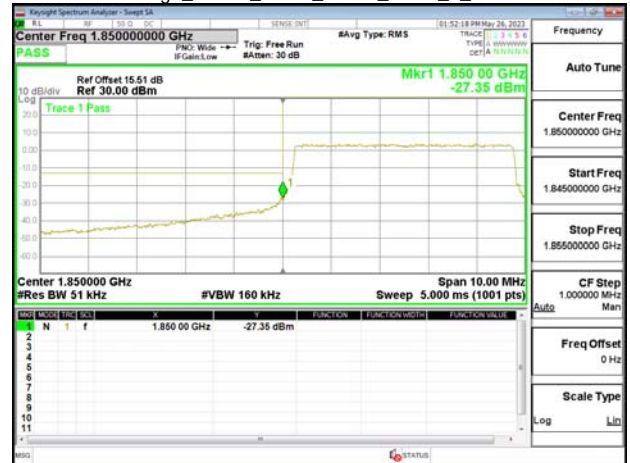
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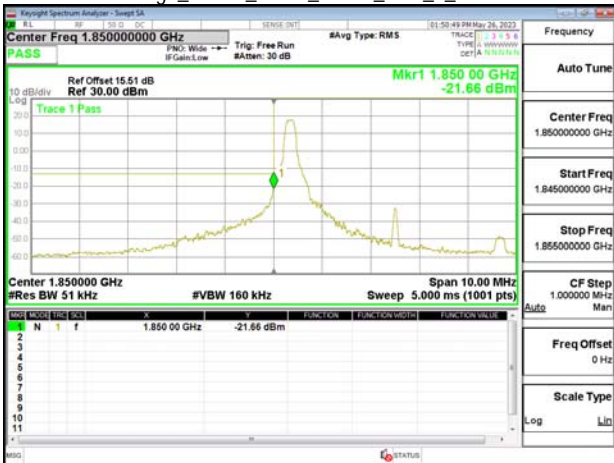
Band Edge_Band2_3MHz_QPSK_RB15_0_CH19185



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Band Edge_Band2_5MHz_QPSK_RB1_0_CH18625



Band Edge_Band2_5MHz_QPSK_RB25_0_CH19175

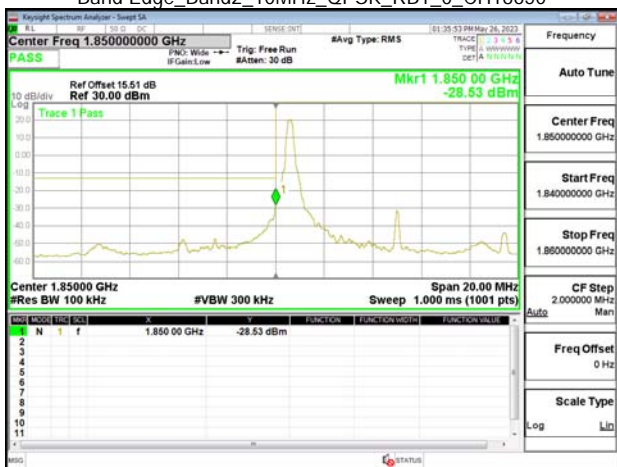


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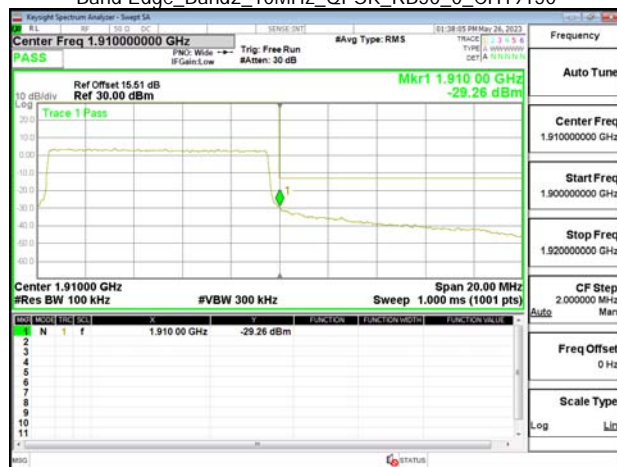
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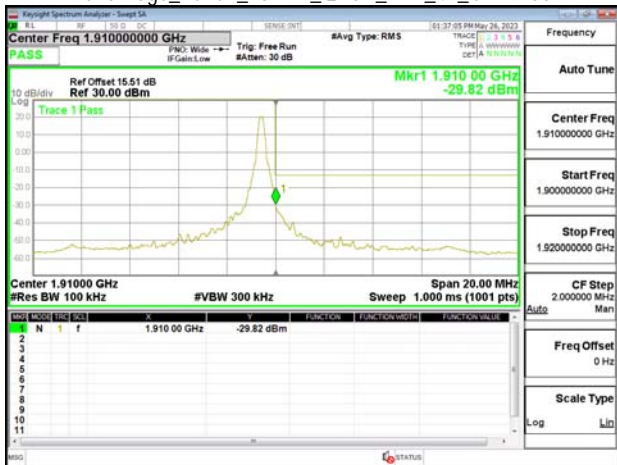
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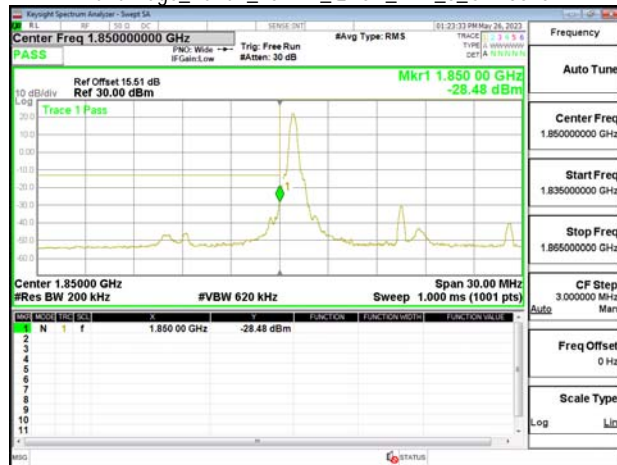
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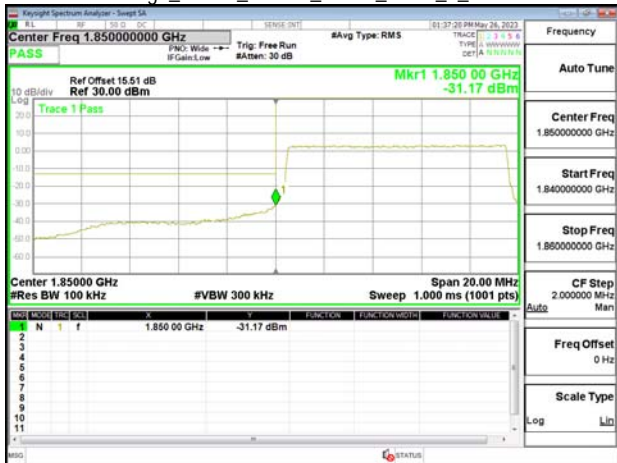
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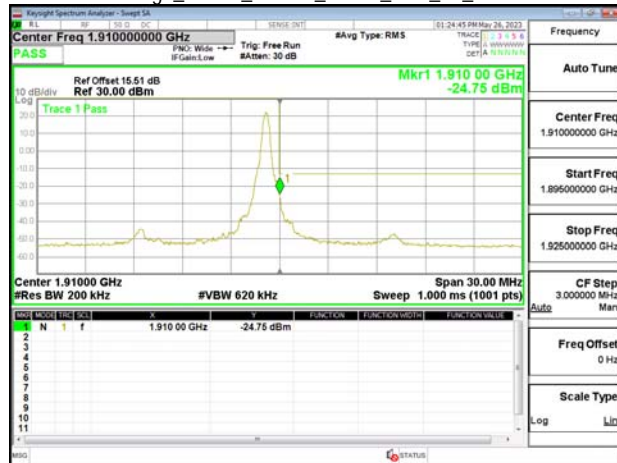
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Band Edge_Band2_10MHz_OPSK_RB50_0_CH18650



Band Edge_Band2_15MHz_OPSK_RB1_74_CH19125

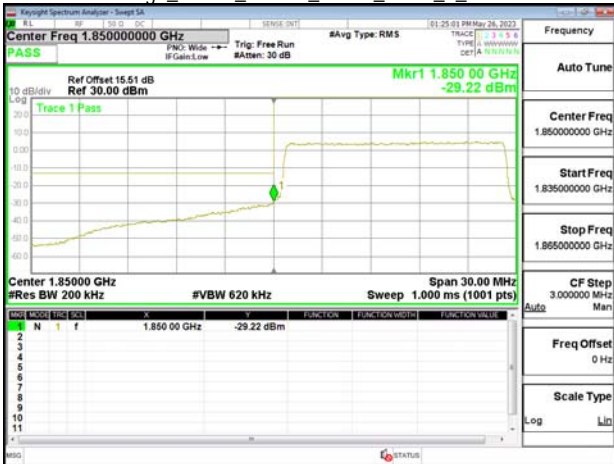


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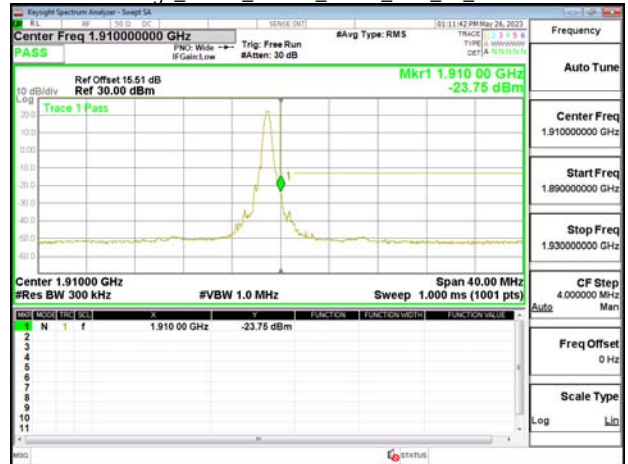
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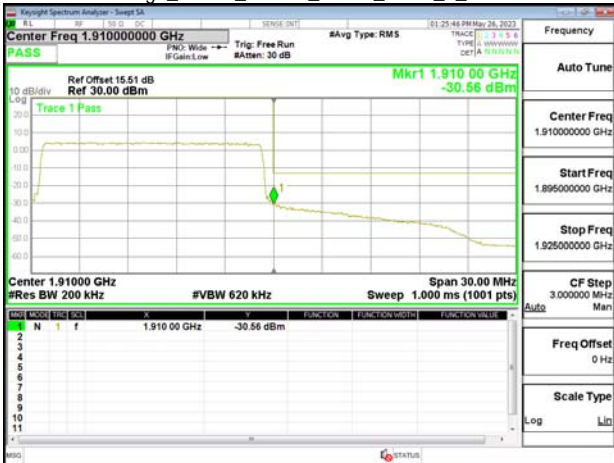
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Band Edge_Band2_20MHz_QPSK_RB1_99_CH19100



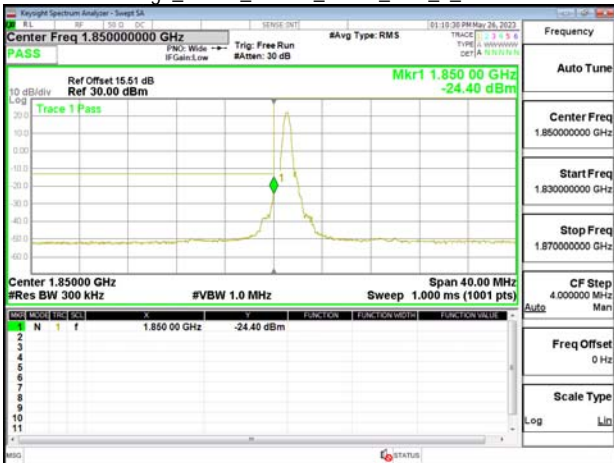
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Band Edge_Band2_20MHz_QPSK_RB100_0_CH18700



Band Edge_Band2_20MHz_QPSK_RB1_0_CH18700



Band Edge_Band2_20MHz_QPSK_RB100_0_CH19100



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Band Edge_Band4_1.4MHz_QPSK_RB1_0_CH19957



Band Edge_Band4_1.4MHz_QPSK_RB6_0_CH20393



Band Edge_Band4_1.4MHz_QPSK_RB1_5_CH20393



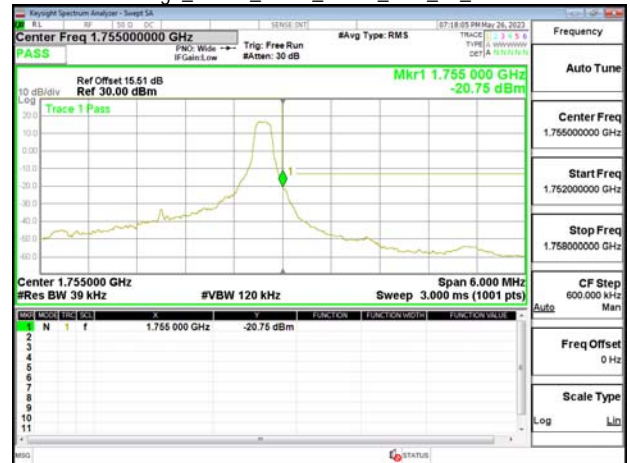
Band Edge_Band4_3MHz_QPSK_RB1_0_CH19965



Band Edge_Band4_1.4MHz_QPSK_RB6_0_CH19957



Band Edge_Band4_3MHz_QPSK_RB1_14_CH20385



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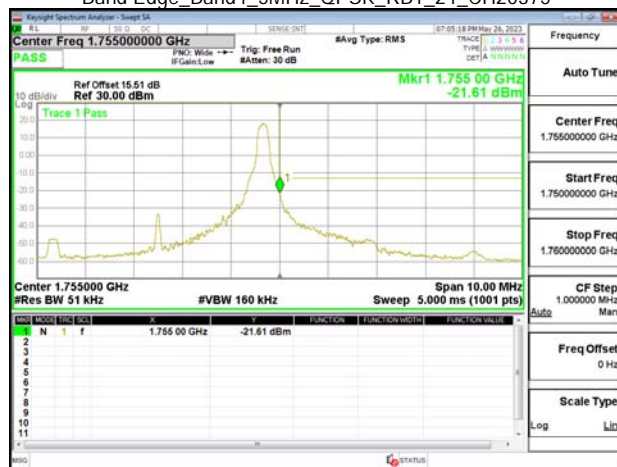
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Band Edge_Band4_3MHz_QPSK_RB15_0_CH19965



Band Edge_Band4_5MHz_QPSK_RB1_24_CH20375



Band Edge_Band4_3MHz_QPSK_RB15_0_CH20385



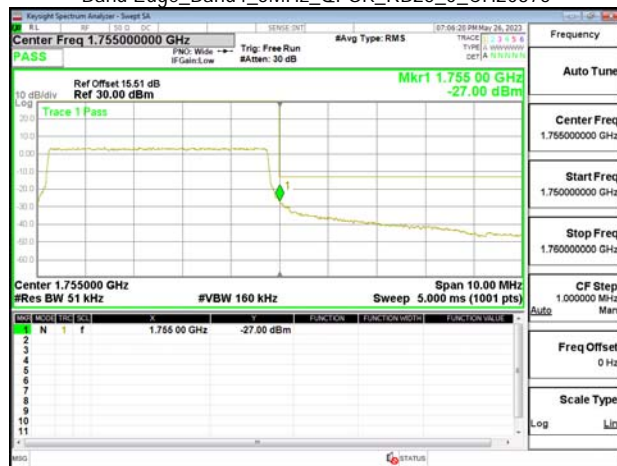
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Band Edge_Band4_5MHz_QPSK_RB1_0_CH19975



Band Edge_Band4_5MHz_QPSK_RB25_0_CH20375

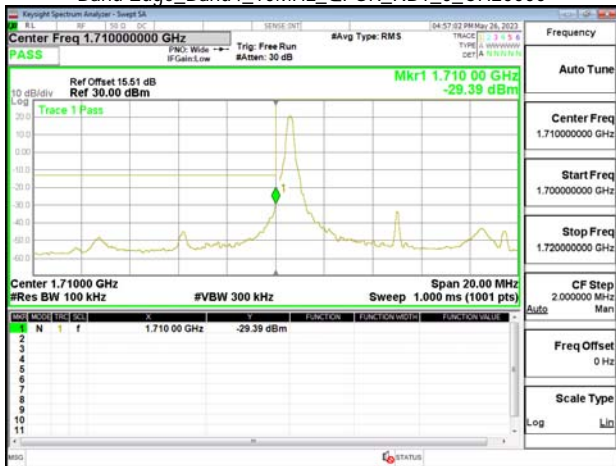


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Band Edge_Band4_10MHz_OPSK_RB1_0_CH20000



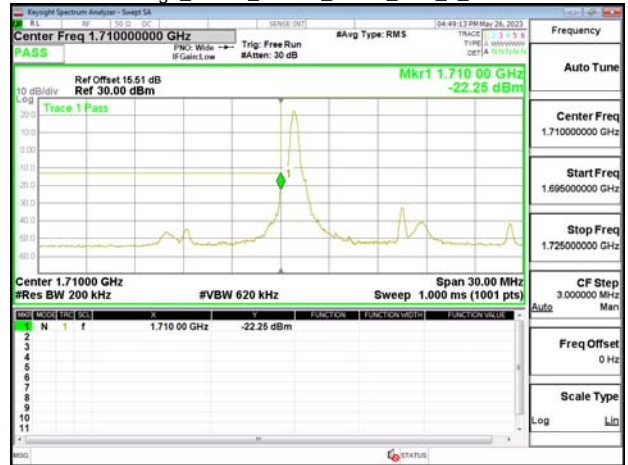
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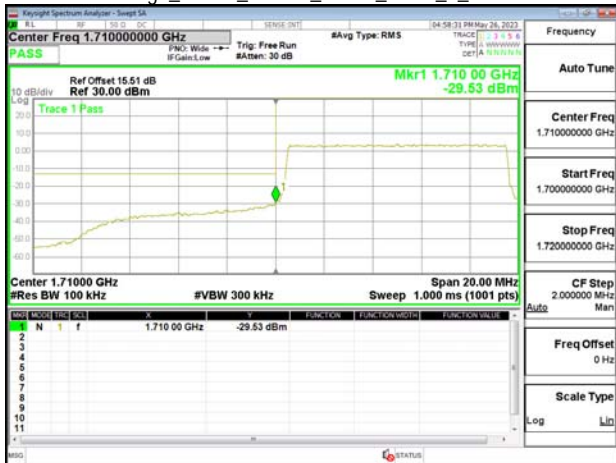
Band Edge_Band4_10MHz_OPSK_RB1_49_CH20350



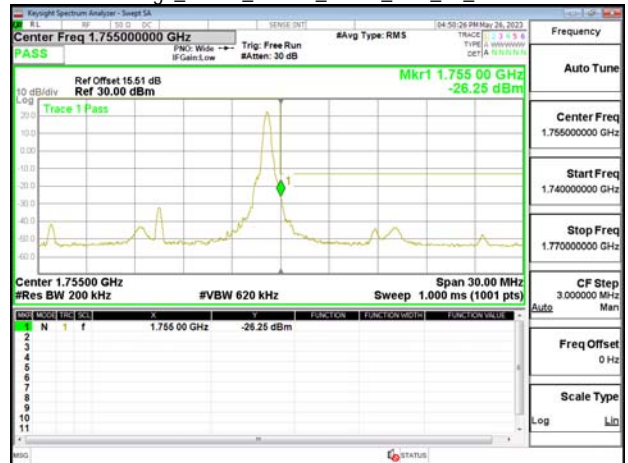
Band Edge_Band4_15MHz_OPSK_RB1_0_CH20025



Band Edge_Band4_10MHz_OPSK_RB50_0_CH20000



Band Edge_Band4_15MHz_OPSK_RB1_74_CH20325



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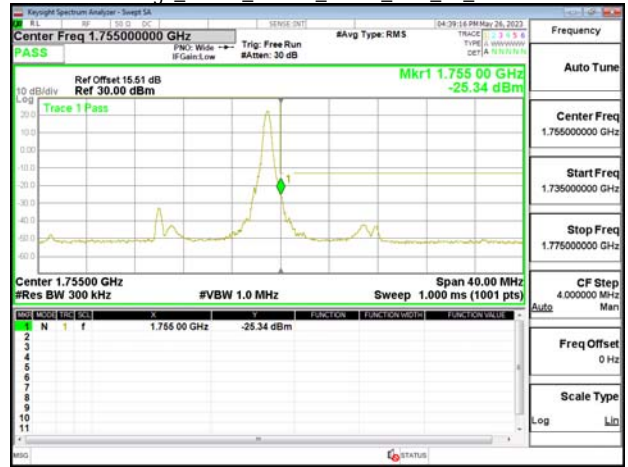
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Band Edge_Band4_15MHz_QPSK_RB75_0_CH20025



Band Edge_Band4_20MHz_QPSK_RB1_99_CH20300



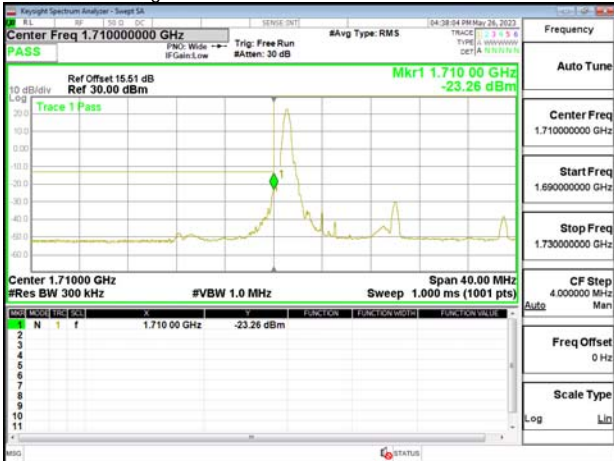
Band Edge_Band4_15MHz_QPSK_RB75_0_CH20325



Band Edge_Band4_20MHz_QPSK_RB100_0_CH20050



Band Edge_Band4_20MHz_QPSK_RB1_0_CH20050



Band Edge_Band4_20MHz_QPSK_RB100_0_CH20300



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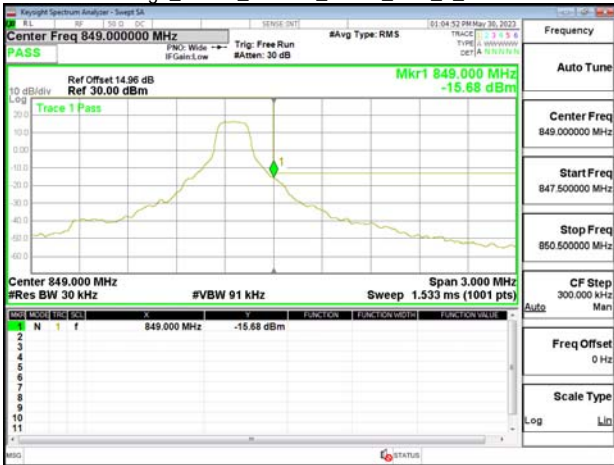
Band Edge_Band5_1.4MHz_QPSK_RB1_0_CH20407



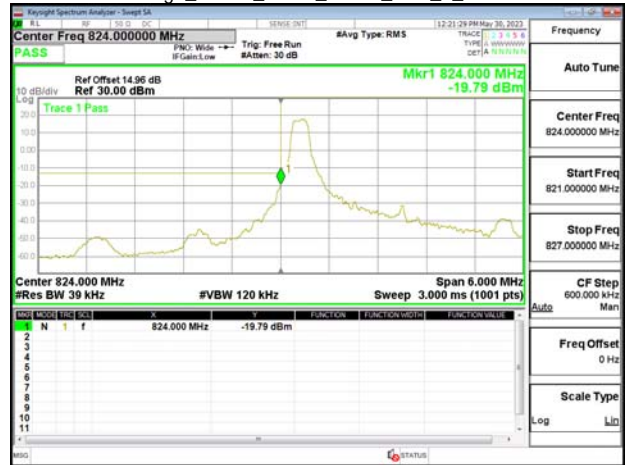
Band Edge_Band5_1.4MHz_QPSK_RB6_0_CH20643



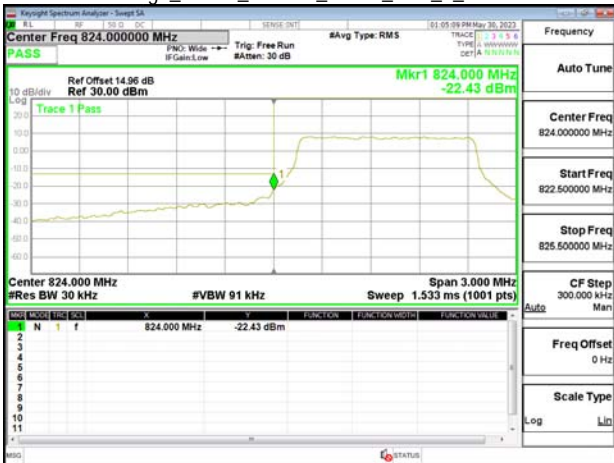
Band Edge_Band5_1.4MHz_QPSK_RB1_5_CH20643



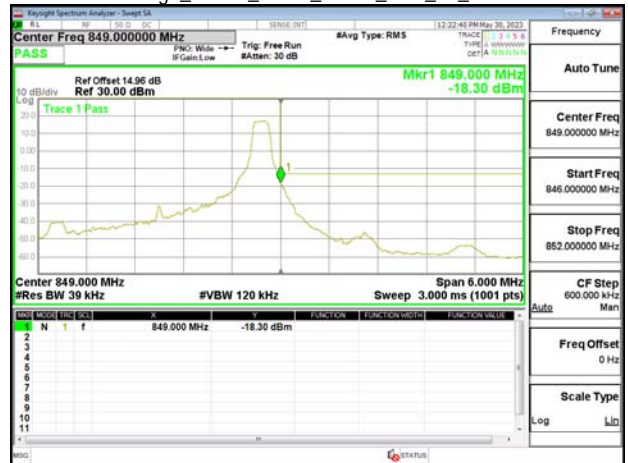
Band Edge_Band5_3MHz_QPSK_RB1_0_CH20415



Band Edge_Band5_1.4MHz_QPSK_RB6_0_CH20407



Band Edge_Band5_3MHz_QPSK_RB1_14_CH20635



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