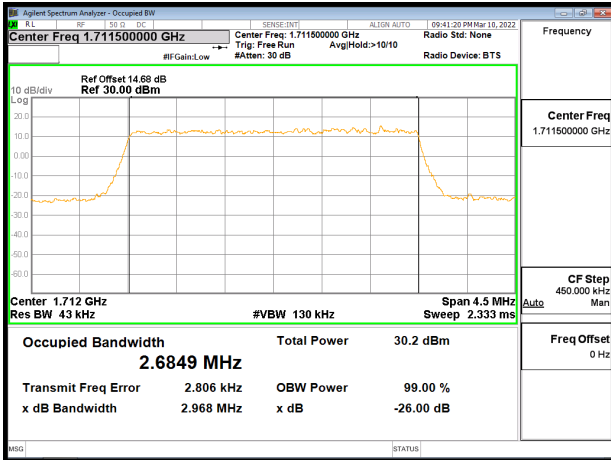
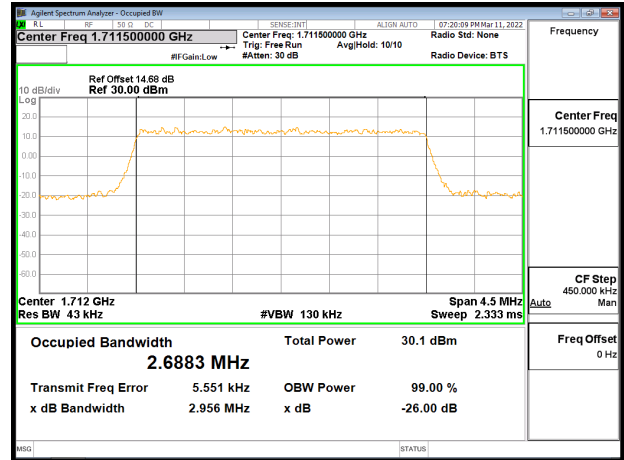


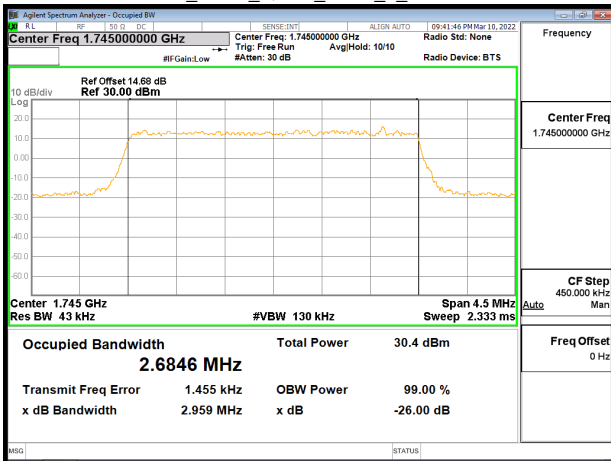
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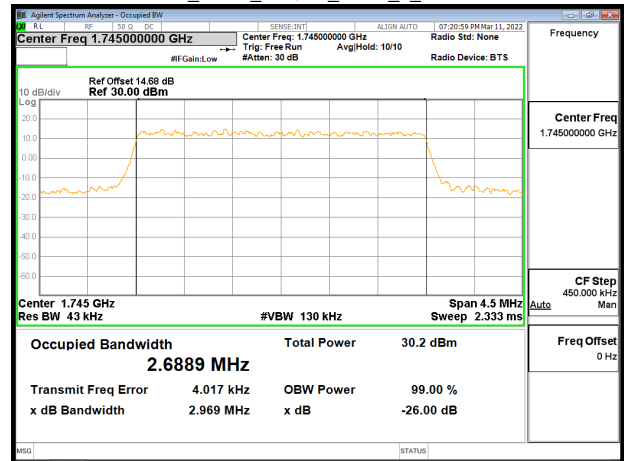
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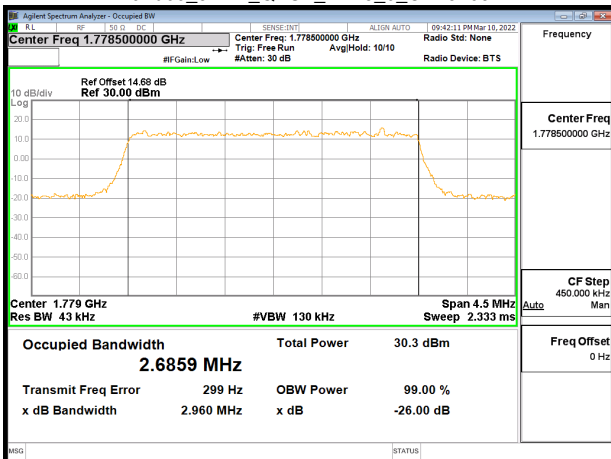
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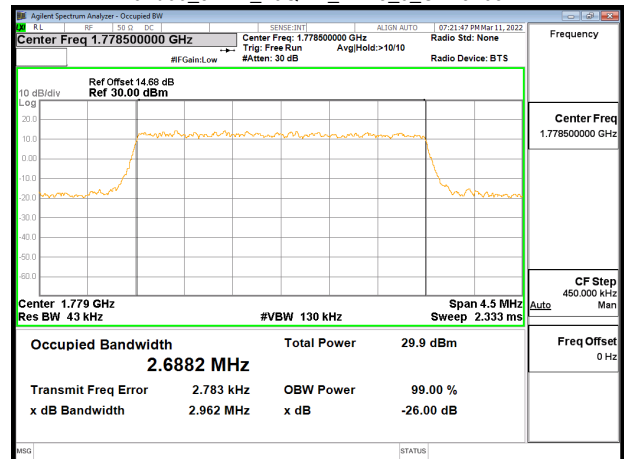
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Band66\_3MHz\_QPSK\_RB15\_0\_CH132657



Band66\_3MHz\_16QAM\_RB15\_0\_CH132657

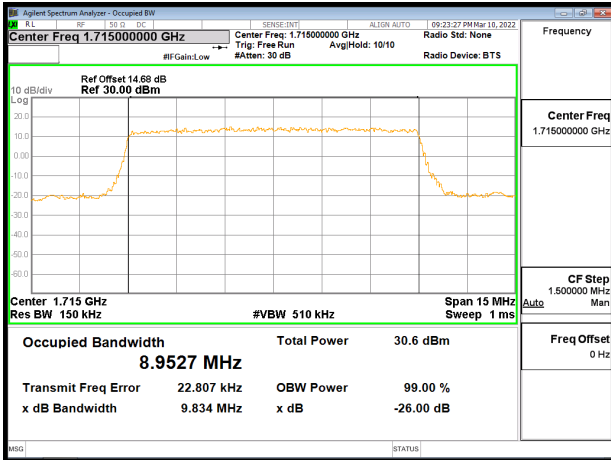


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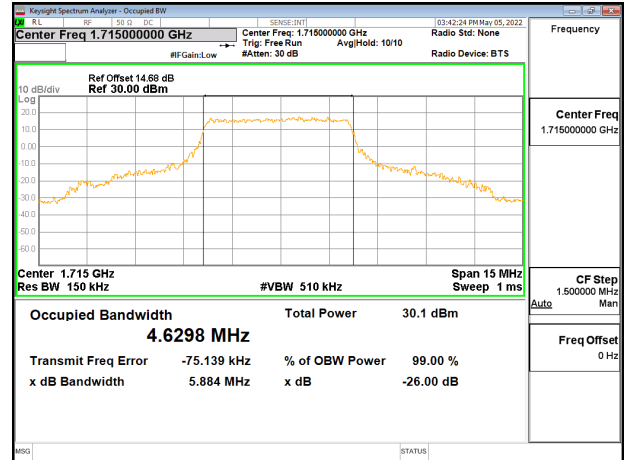
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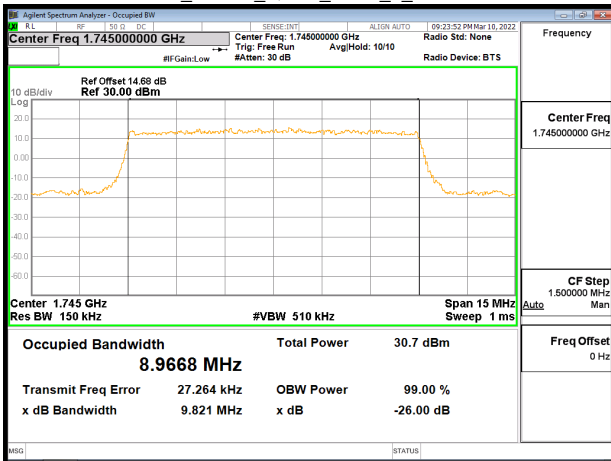
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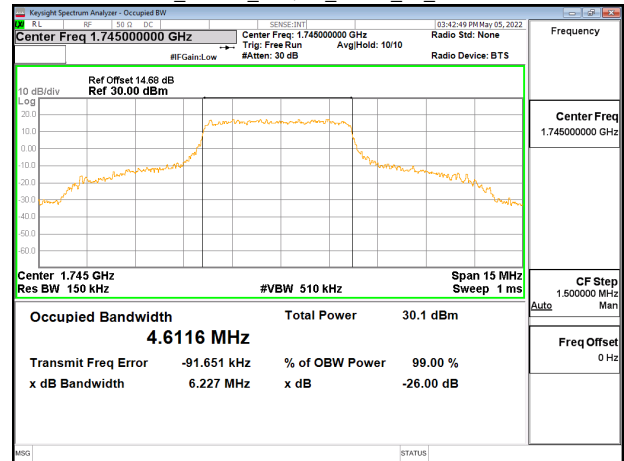
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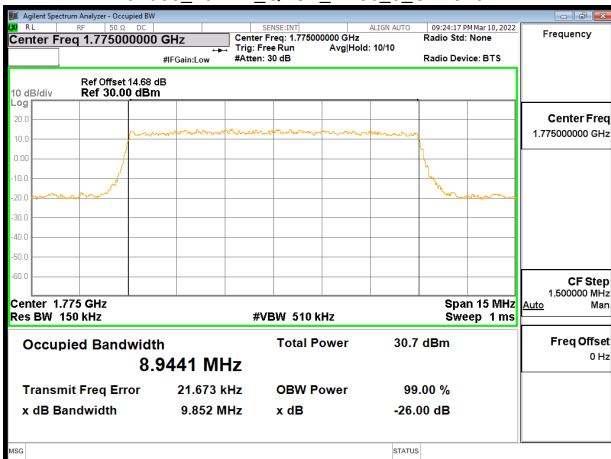
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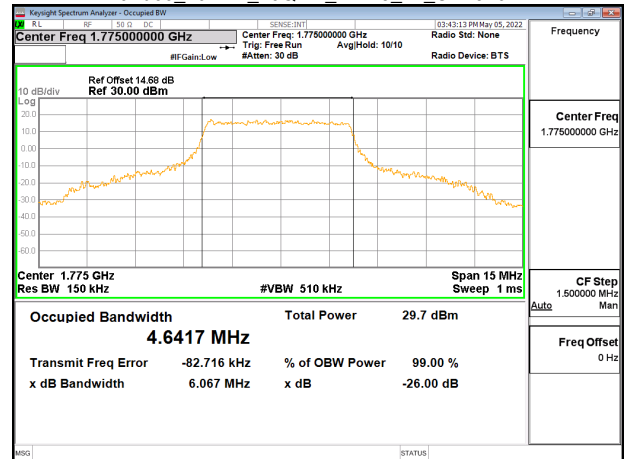
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Band66\_10MHz\_16QAM\_RB25\_12\_CH132622

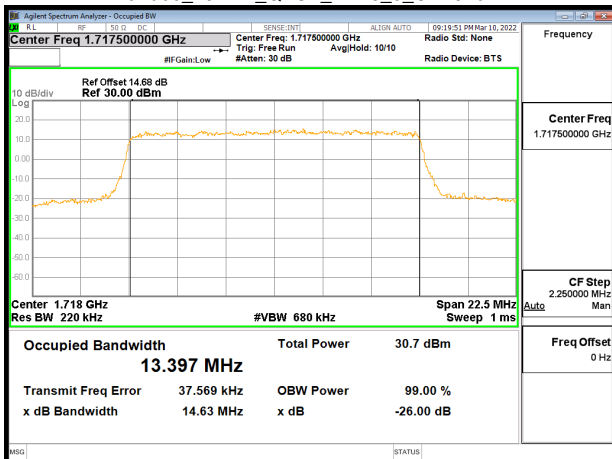


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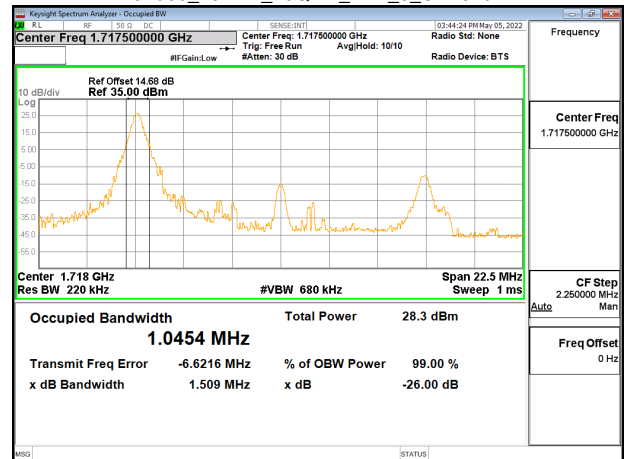
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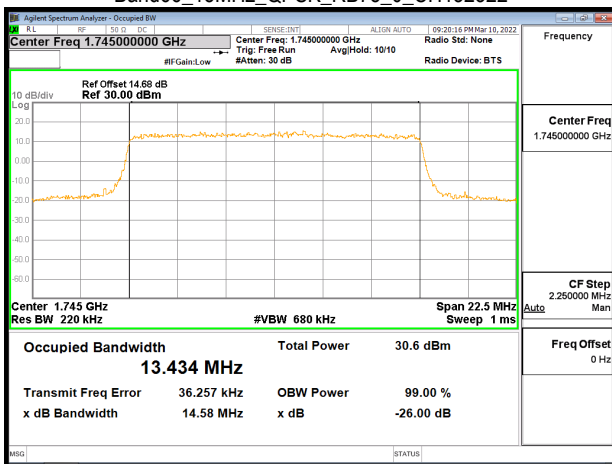
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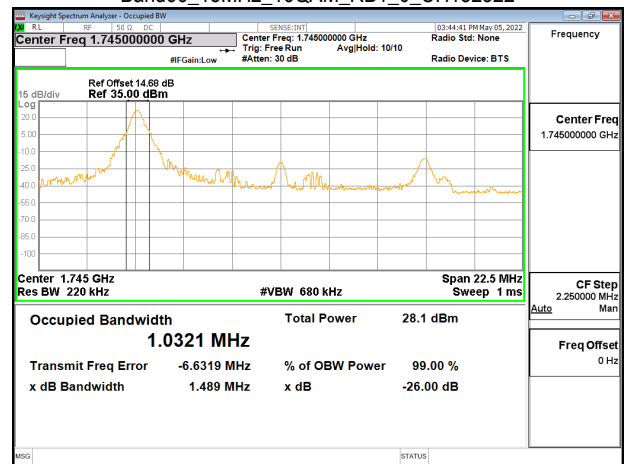
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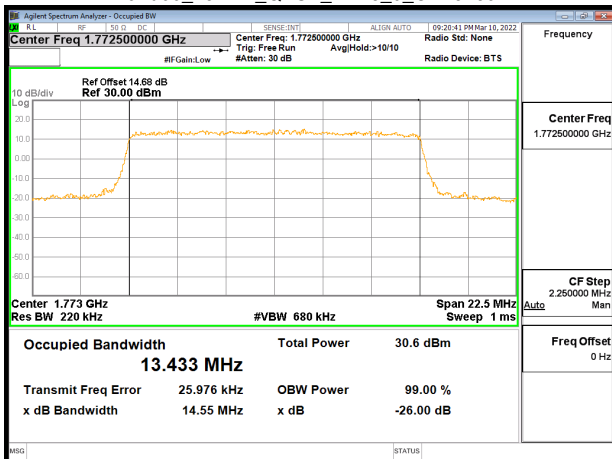
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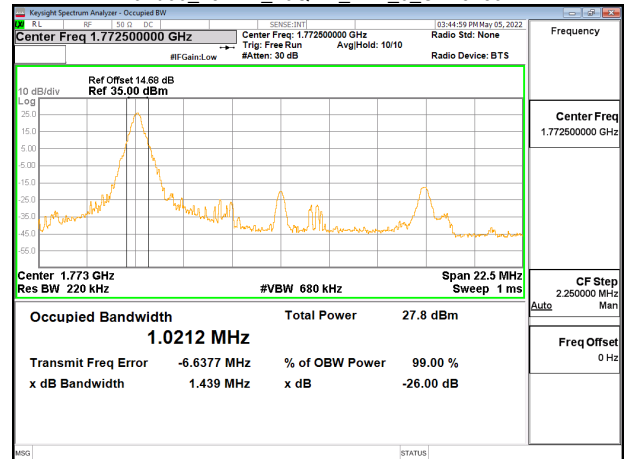
Band66\_15MHz\_16QAM\_RB1\_0\_CH132322



Band66\_15MHz\_QPSK\_RB75\_0\_CH132597



Band66\_15MHz\_16QAM\_RB1\_0\_CH132597

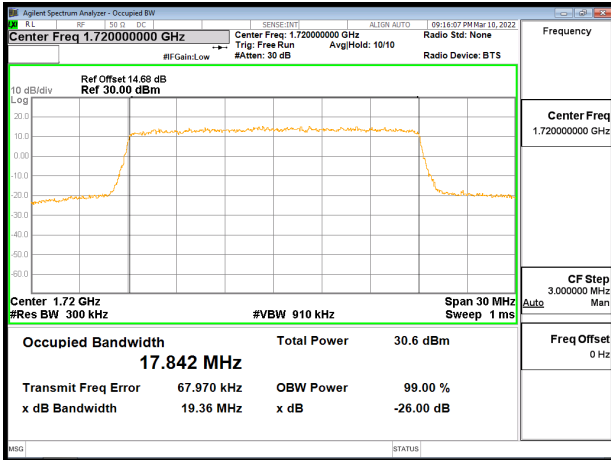


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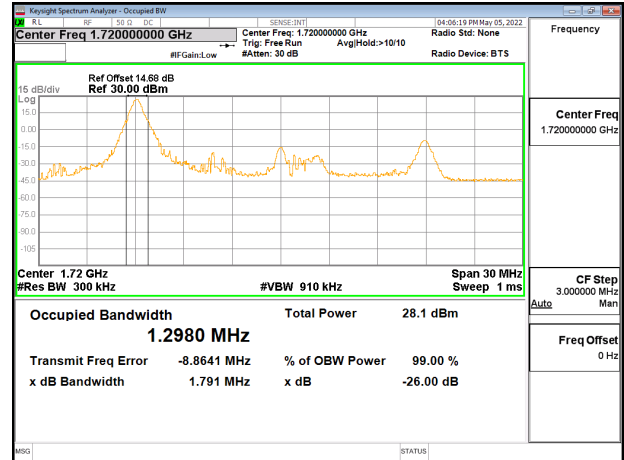
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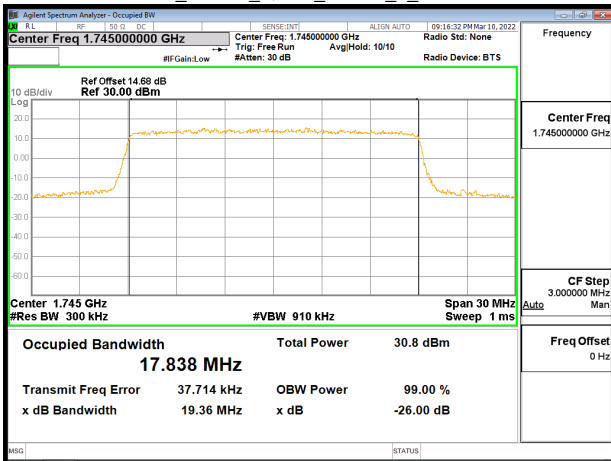
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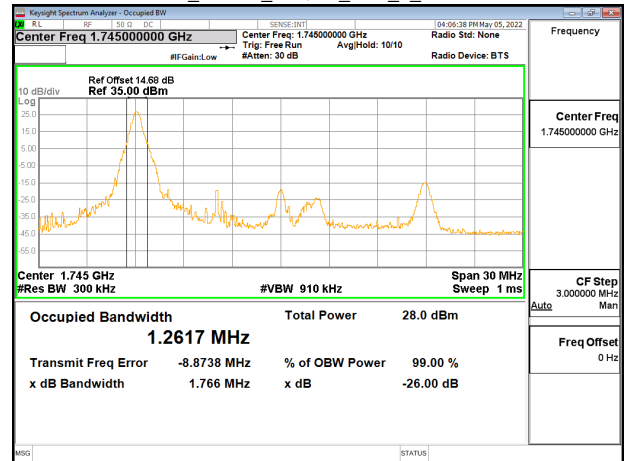
Band66\_20MHz\_16QAM\_RB1\_0\_CH132072



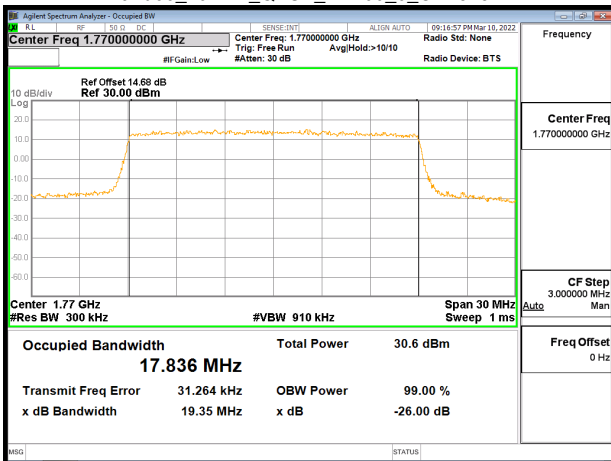
Band66\_20MHz\_QPSK\_RB100\_0\_CH132322



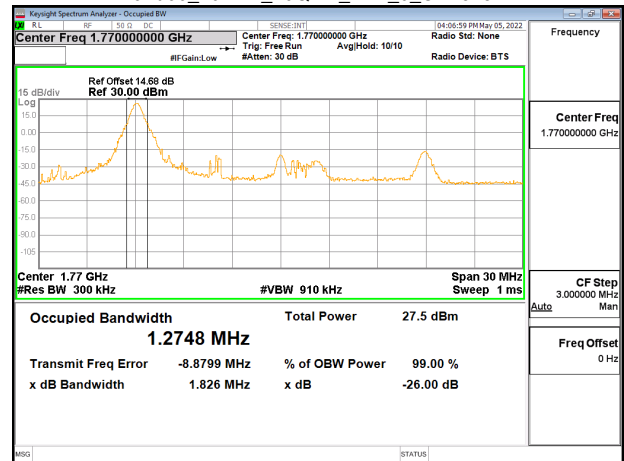
Band66\_20MHz\_16QAM\_RB1\_0\_CH132322



Band66\_20MHz\_QPSK\_RB100\_0\_CH132572



Band66\_20MHz\_16QAM\_RB1\_0\_CH132572



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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(g)

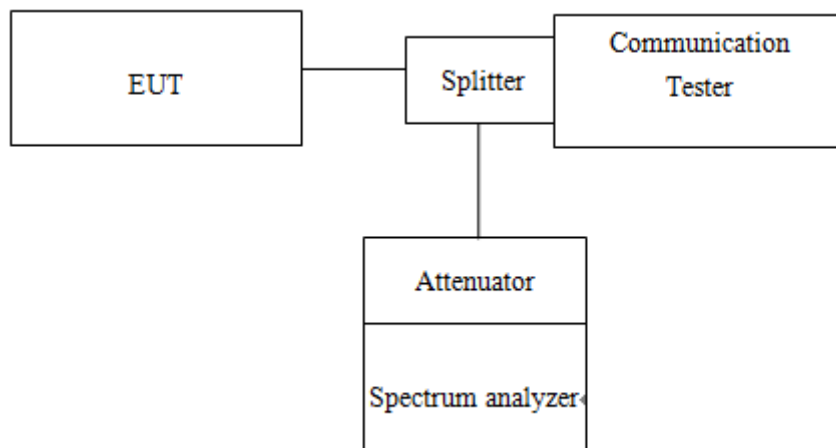
Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's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

### 9.2 Test SET-UP



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### 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:

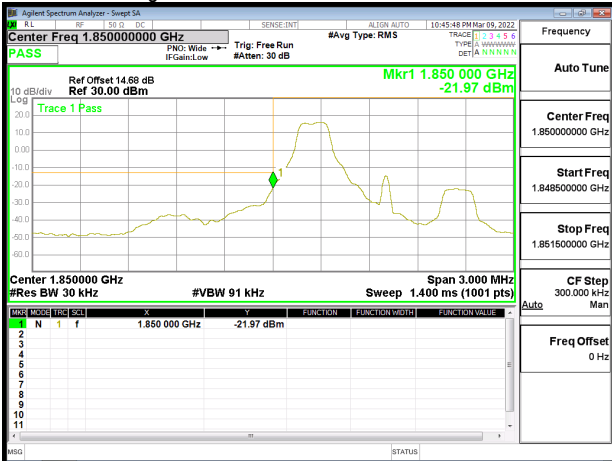
Refer to next pages.

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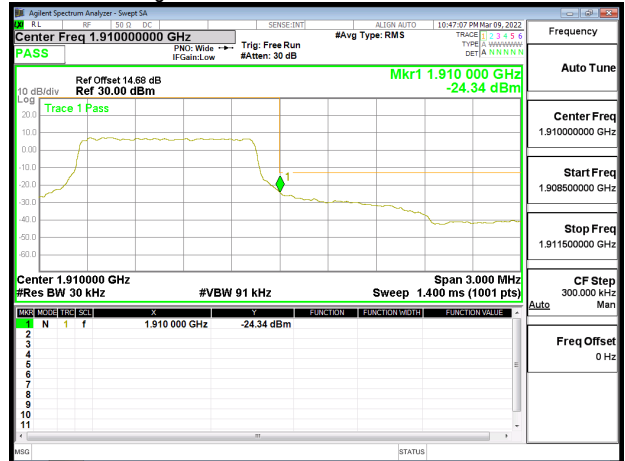
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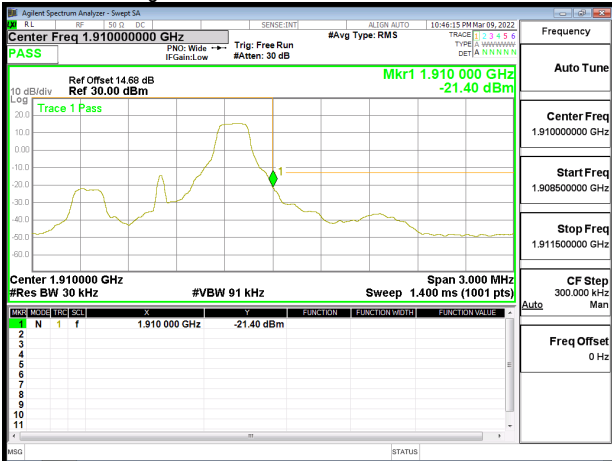
Band Edge\_Band2\_1.4MHz\_QPSK\_RB1\_0\_CH18607



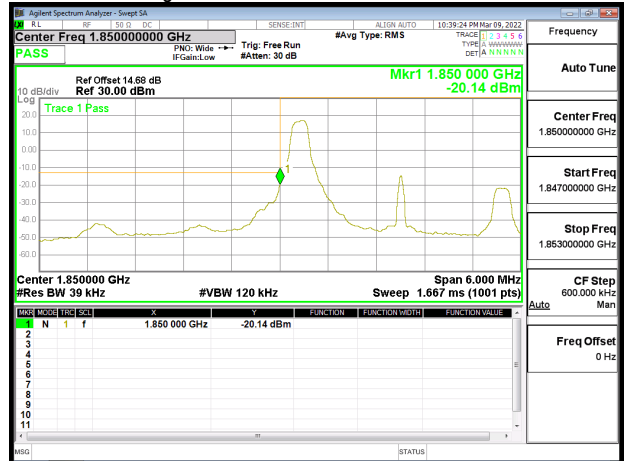
Band Edge\_Band2\_1.4MHz\_QPSK\_RB6\_0\_CH19193



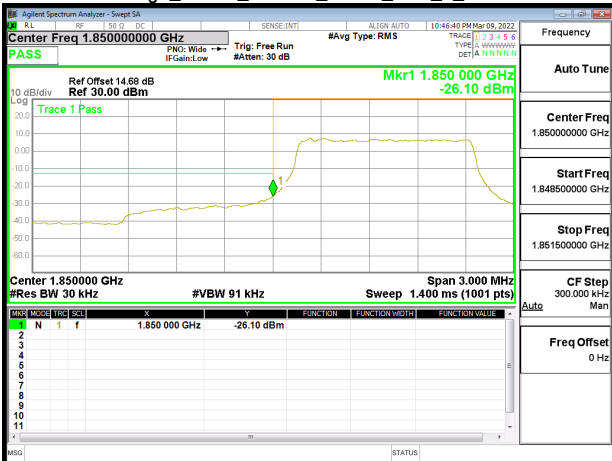
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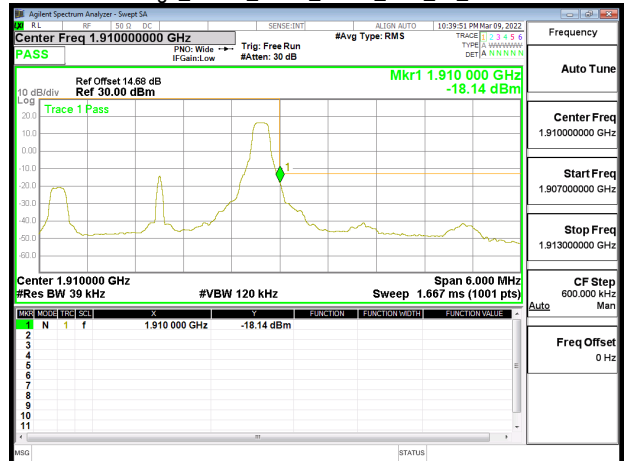
Band Edge\_Band2\_3MHz\_QPSK\_RB1\_0\_CH18615



Band Edge\_Band2\_1.4MHz\_QPSK\_RB6\_0\_CH18607



Band Edge\_Band2\_3MHz\_QPSK\_RB1\_14\_CH19185



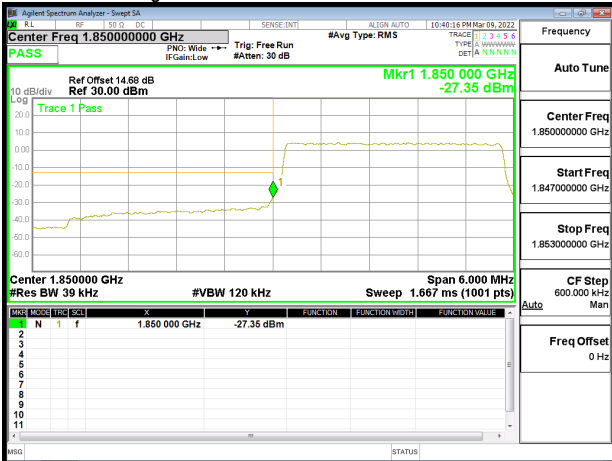
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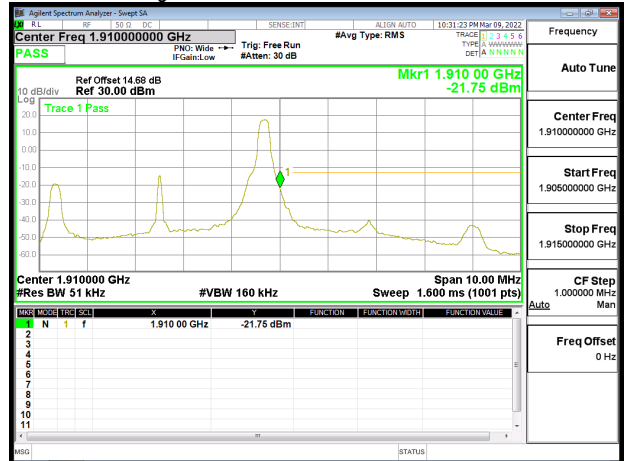
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Band Edge\_Band2\_3MHz\_QPSK\_RB15\_0\_CH18615



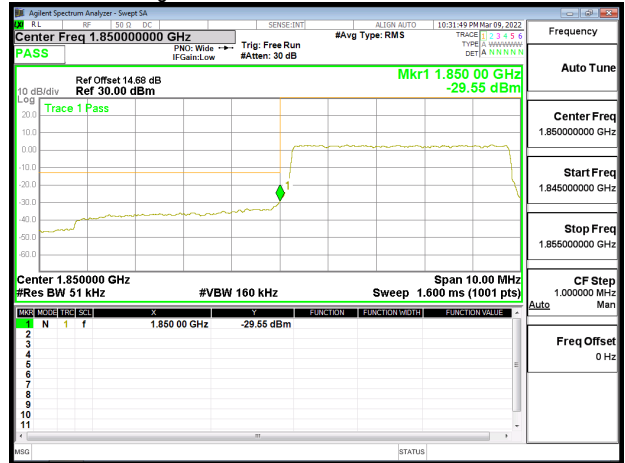
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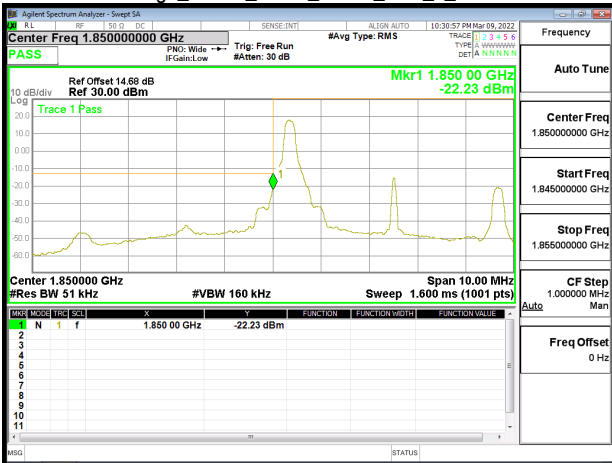
Band Edge\_Band2\_3MHz\_QPSK\_RB15\_0\_CH19185



Band Edge\_Band2\_5MHz\_QPSK\_RB25\_0\_CH18625



Band Edge\_Band2\_5MHz\_QPSK\_RB1\_0\_CH18625



Band Edge\_Band2\_5MHz\_QPSK\_RB25\_0\_CH19175

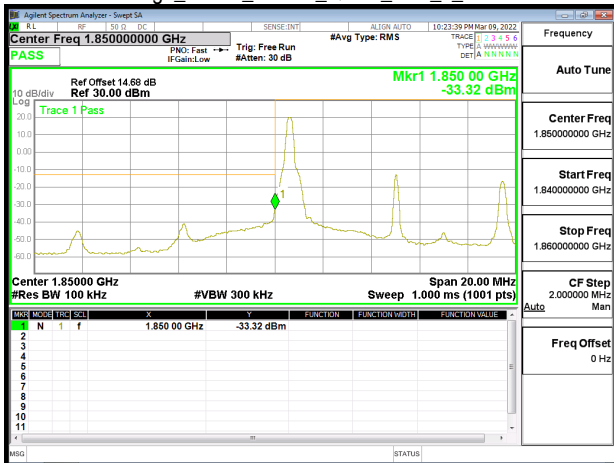


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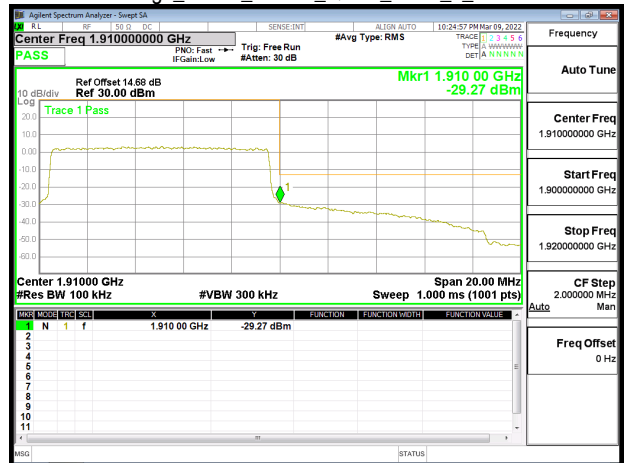
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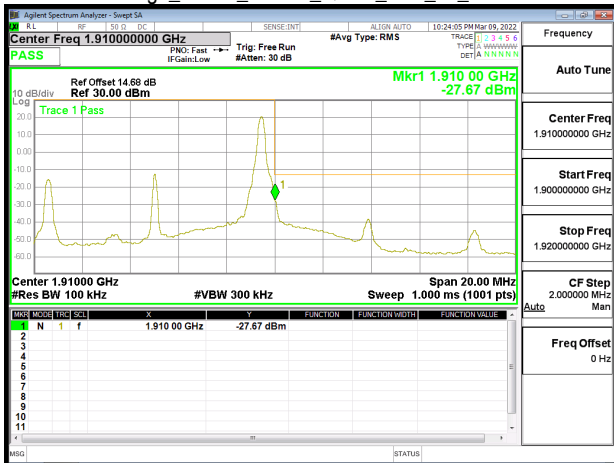
Band Edge\_Band2\_10MHz\_QPSK\_RB1\_0\_CH18650



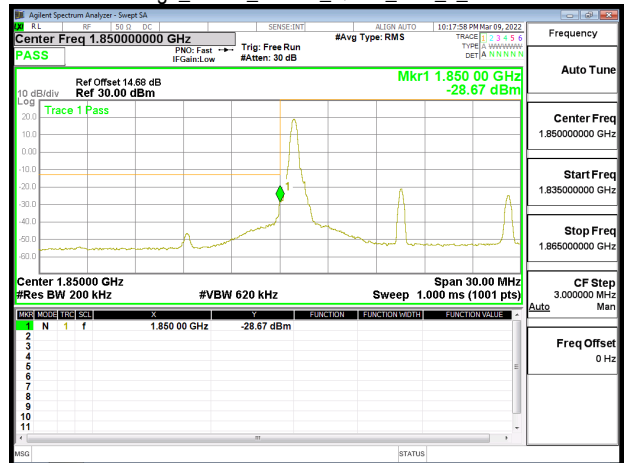
Band Edge\_Band2\_10MHz\_QPSK\_RB50\_0\_CH19150



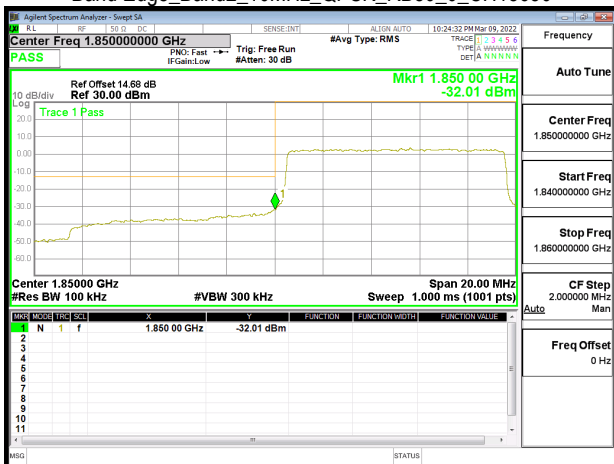
Band Edge\_Band2\_10MHz\_QPSK\_RB1\_49\_CH19150



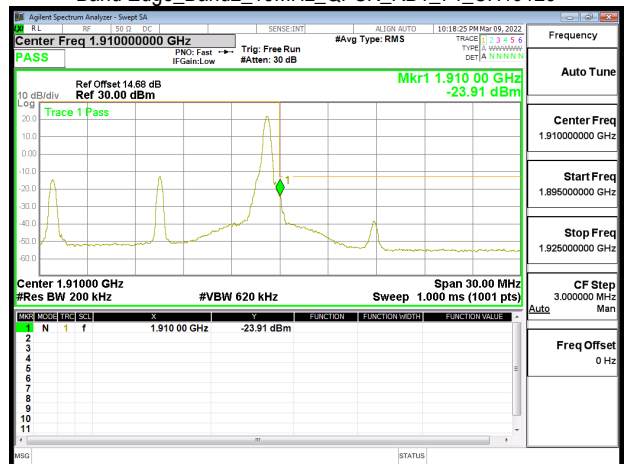
Band Edge\_Band2\_15MHz\_QPSK\_RB1\_0\_CH18675



Band Edge\_Band2\_10MHz\_QPSK\_RB50\_0\_CH18650



Band Edge\_Band2\_15MHz\_QPSK\_RB1\_74\_CH19125

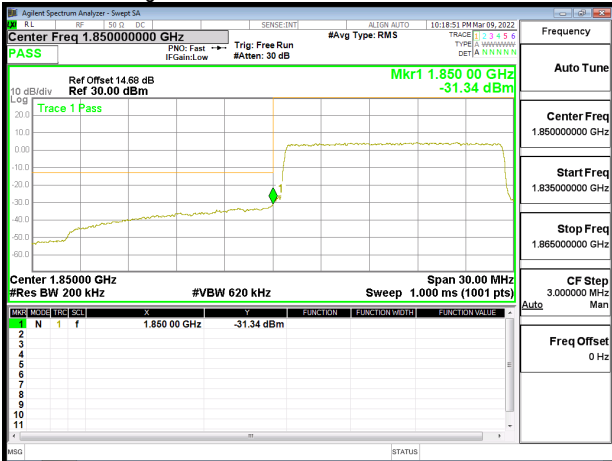


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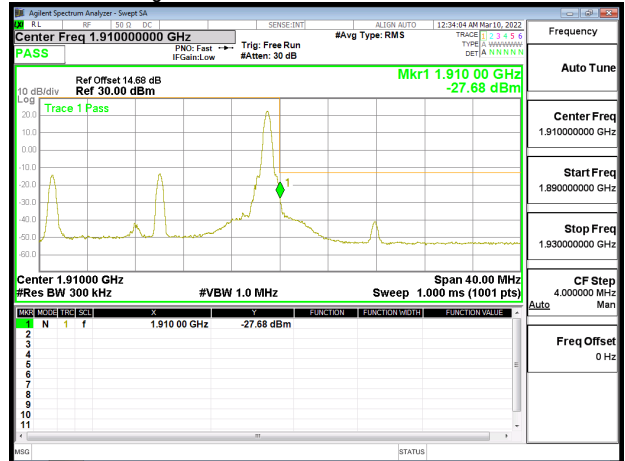
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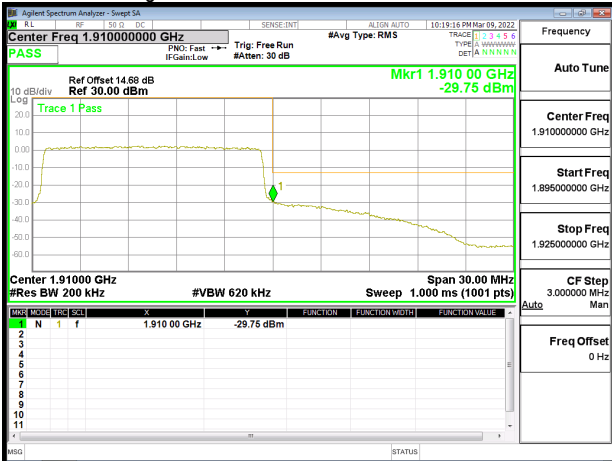
Band Edge\_Band2\_15MHz\_QPSK\_RB75\_0\_CH18675



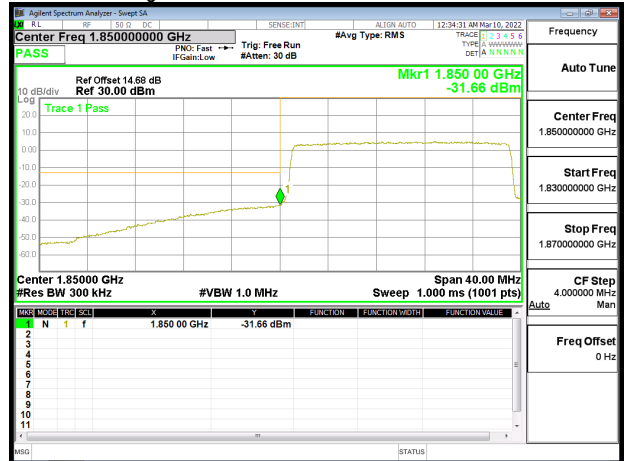
Band Edge\_Band2\_20MHz\_QPSK\_RB1\_99\_CH19100



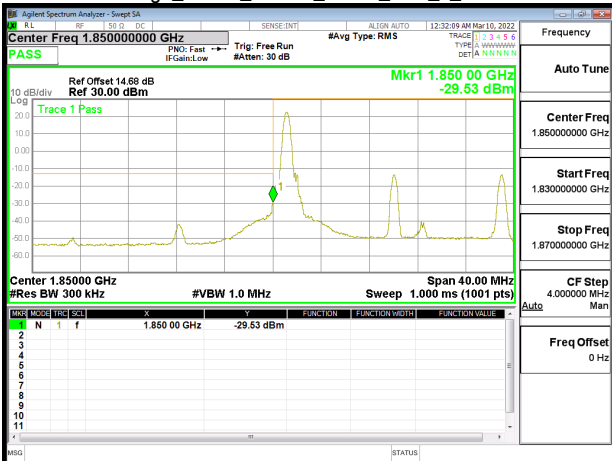
Band Edge\_Band2\_15MHz\_QPSK\_RB75\_0\_CH19125



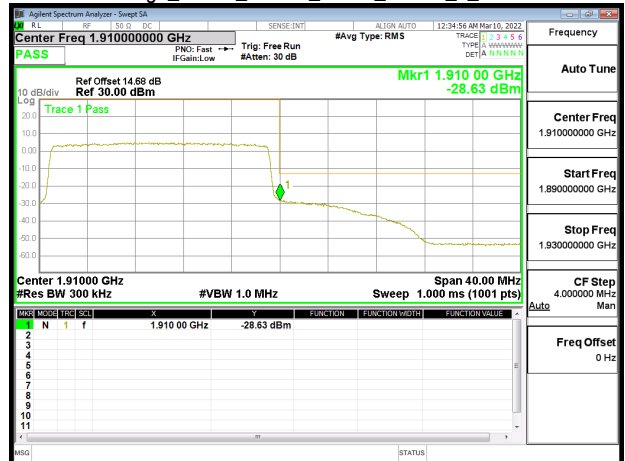
Band Edge\_Band2\_20MHz\_QPSK\_RB100\_0\_CH18700



Band Edge\_Band2\_20MHz\_QPSK\_RB1\_0\_CH18700



Band Edge\_Band2\_20MHz\_QPSK\_RB100\_0\_CH19100



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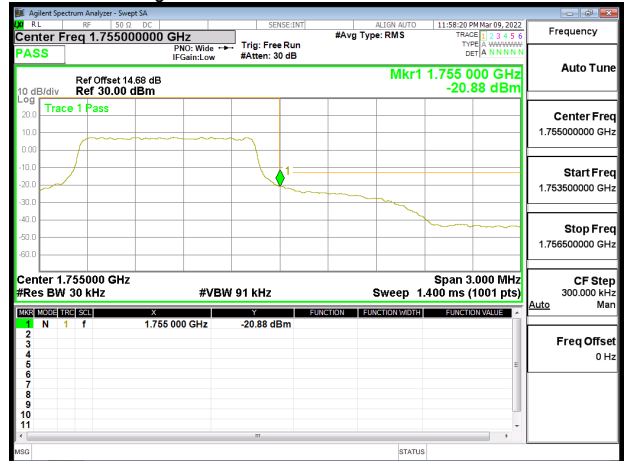
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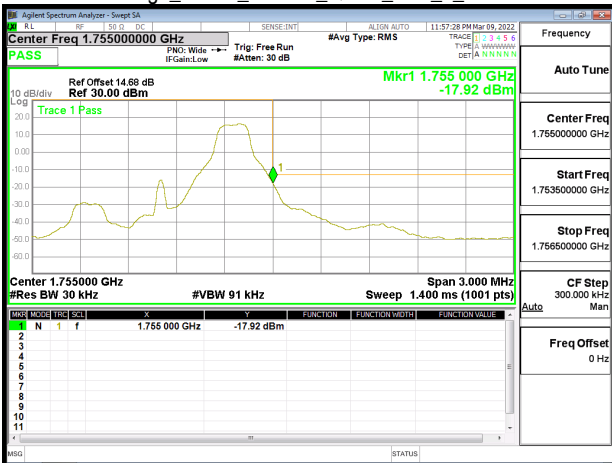
Band Edge\_Band4\_1.4MHz\_QPSK\_RB1\_0\_CH19957



Band Edge\_Band4\_1.4MHz\_QPSK\_RB6\_0\_CH20393



Band Edge\_Band4\_1.4MHz\_QPSK\_RB1\_5\_CH20393



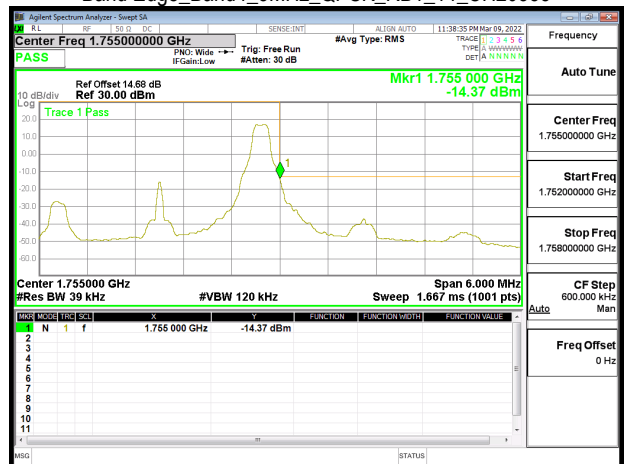
Band Edge\_Band4\_3MHz\_QPSK\_RB1\_0\_CH19965



Band Edge\_Band4\_1.4MHz\_QPSK\_RB6\_0\_CH19957



Band Edge\_Band4\_3MHz\_QPSK\_RB1\_14\_CH20385

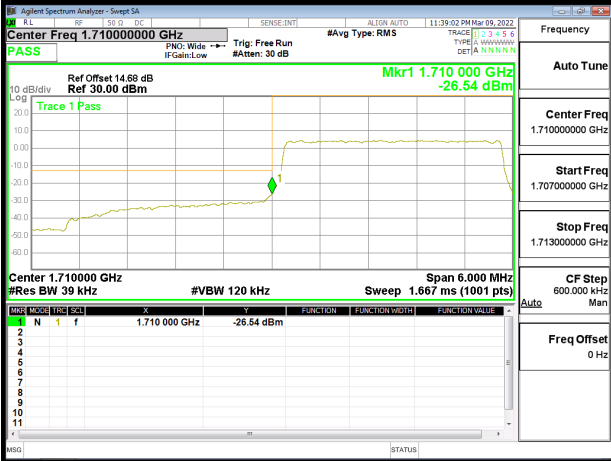


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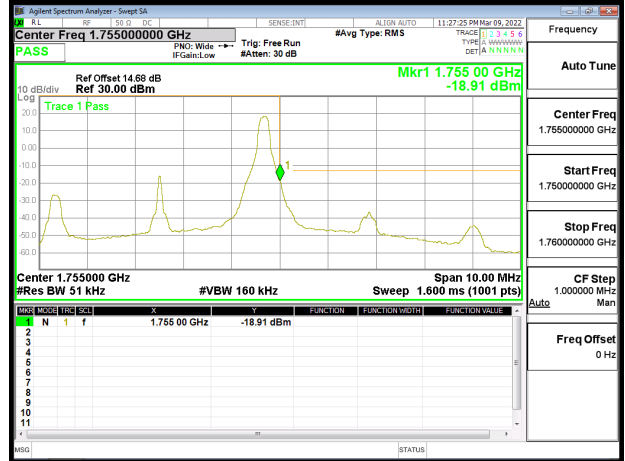
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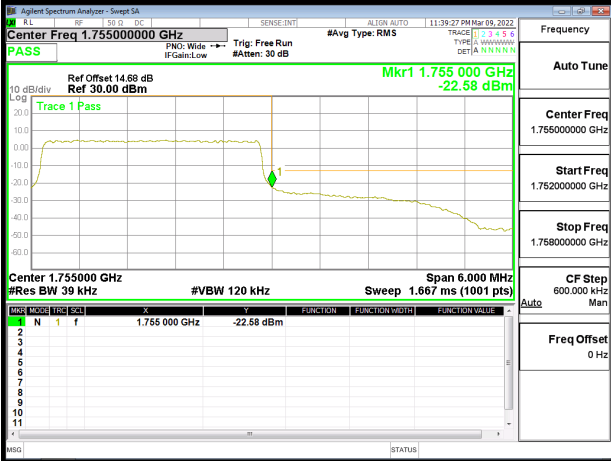
Band Edge\_Band4\_3MHz\_QPSK\_RB15\_0\_CH19965



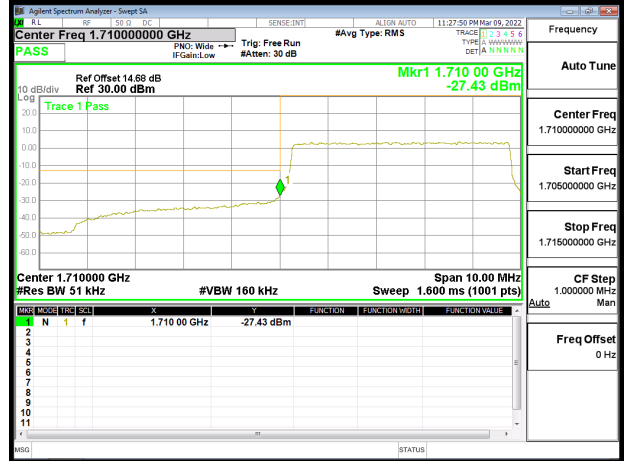
Band Edge\_Band4\_5MHz\_QPSK\_RB1\_24\_CH20375



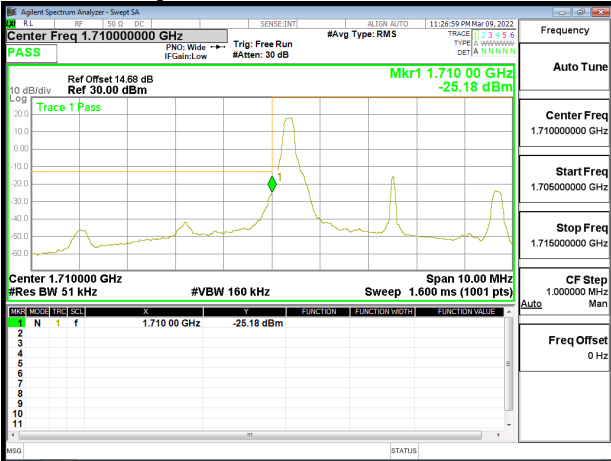
Band Edge\_Band4\_3MHz\_QPSK\_RB15\_0\_CH20385



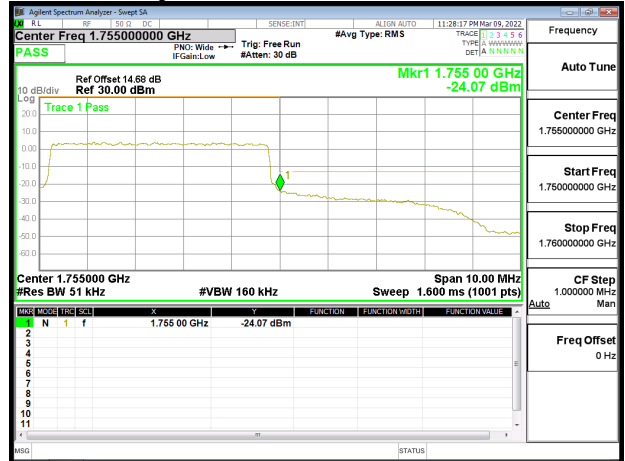
Band Edge\_Band4\_5MHz\_QPSK\_RB25\_0\_CH19975



Band Edge\_Band4\_5MHz\_QPSK\_RB1\_0\_CH19975



Band Edge\_Band4\_5MHz\_QPSK\_RB25\_0\_CH20375

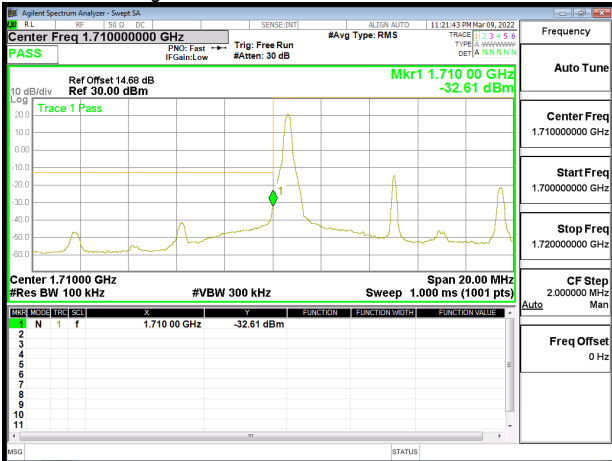


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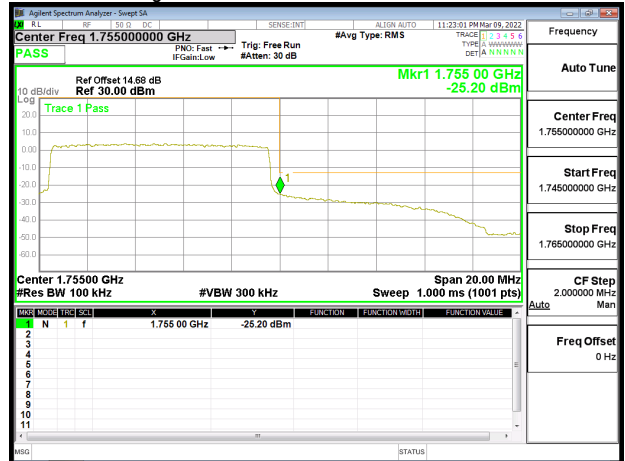
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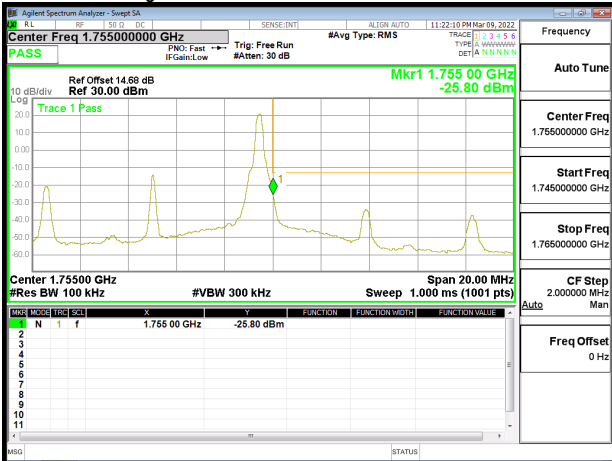
Band Edge\_Band4\_10MHz\_QPSK\_RB1\_0\_CH20000



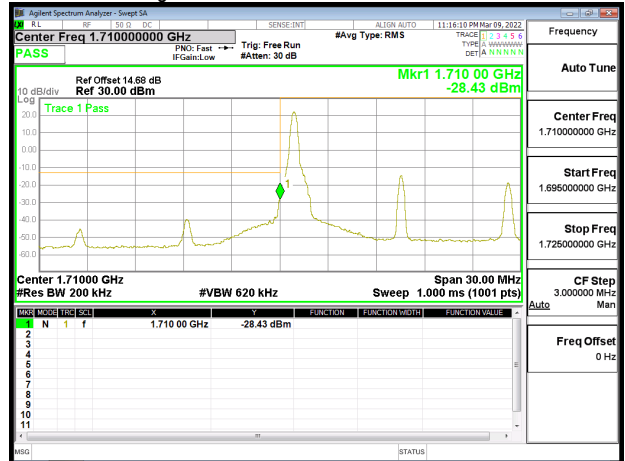
Band Edge\_Band4\_10MHz\_QPSK\_RB50\_0\_CH20350



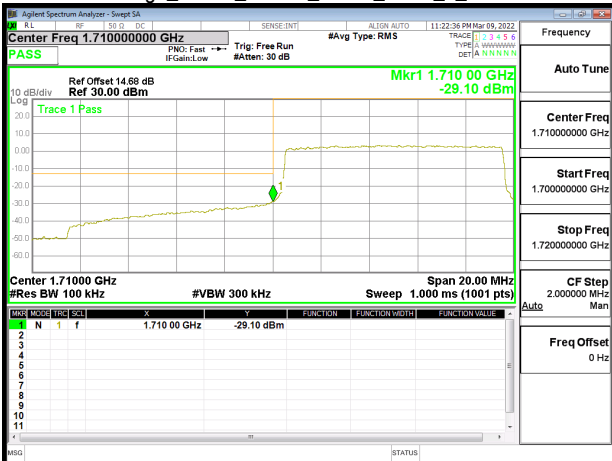
Band Edge\_Band4\_10MHz\_QPSK\_RB1\_49\_CH20350



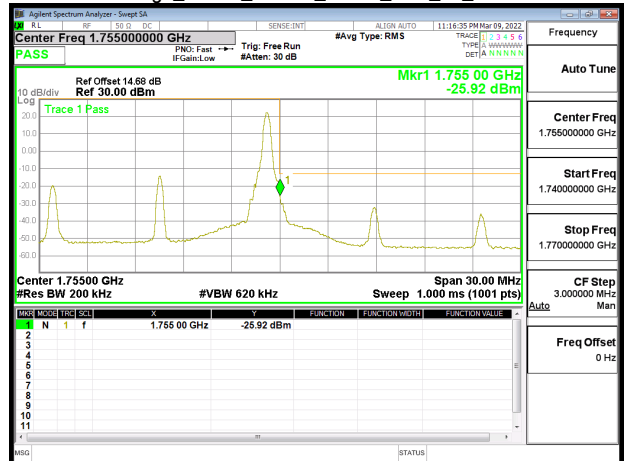
Band Edge\_Band4\_15MHz\_QPSK\_RB1\_0\_CH20025



Band Edge\_Band4\_10MHz\_QPSK\_RB50\_0\_CH20000



Band Edge\_Band4\_15MHz\_QPSK\_RB1\_74\_CH20325

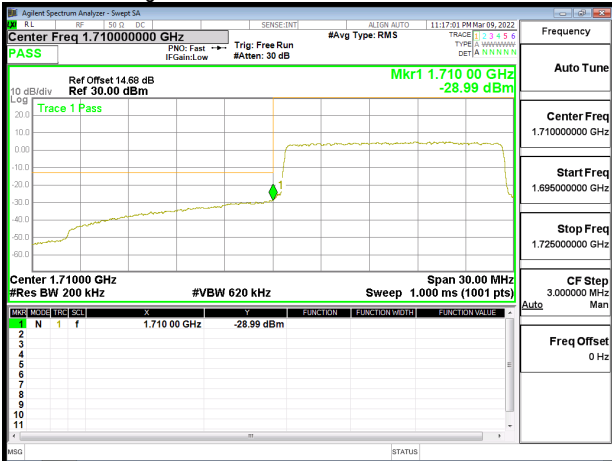


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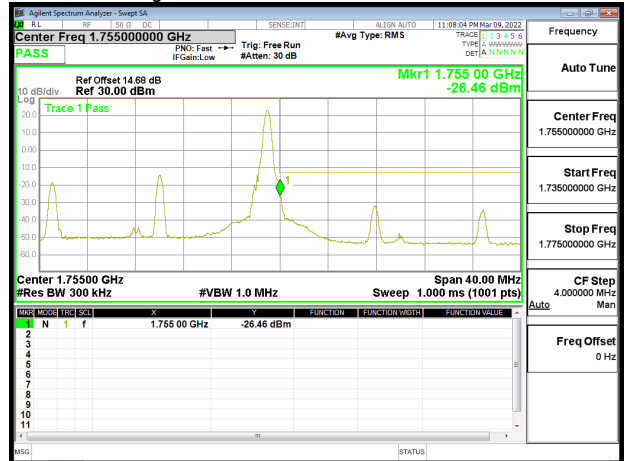
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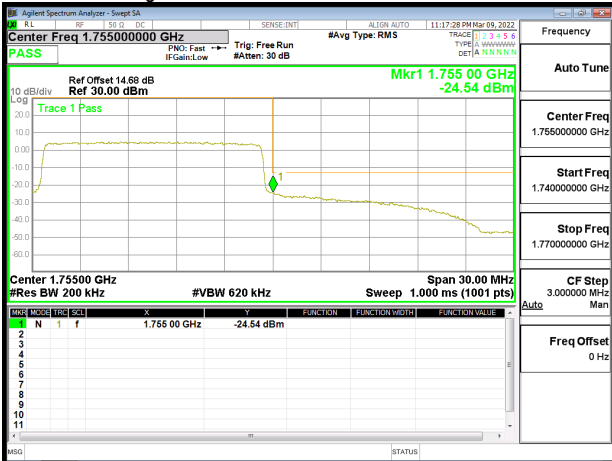
Band Edge\_Band4\_15MHz\_QPSK\_RB75\_0\_CH20025



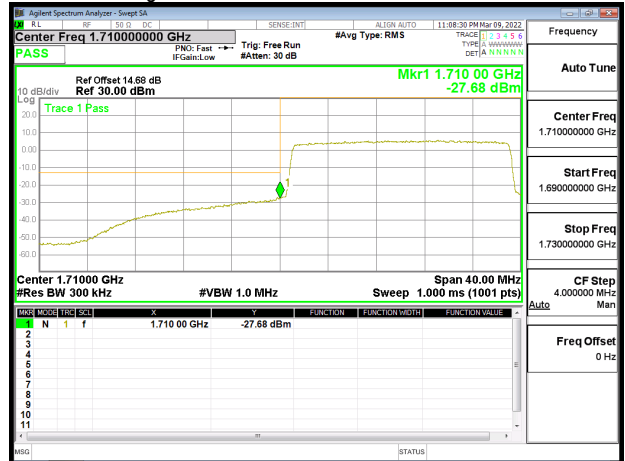
Band Edge\_Band4\_20MHz\_QPSK\_RB1\_99\_CH20300



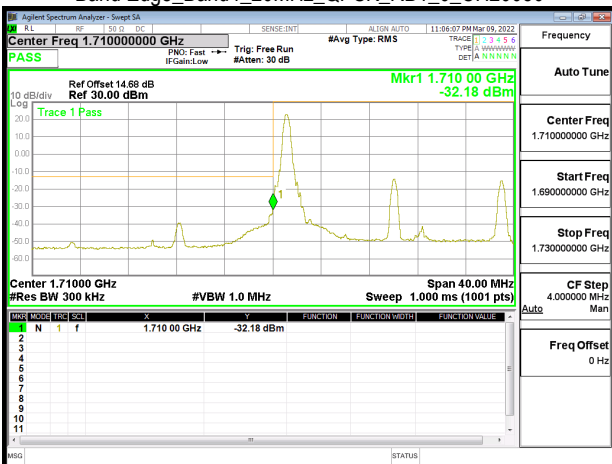
Band Edge\_Band4\_15MHz\_QPSK\_RB75\_0\_CH20325



Band Edge\_Band4\_20MHz\_QPSK\_RB100\_0\_CH20050



Band Edge\_Band4\_20MHz\_QPSK\_RB1\_0\_CH20050



Band Edge\_Band4\_20MHz\_QPSK\_RB100\_0\_CH20300

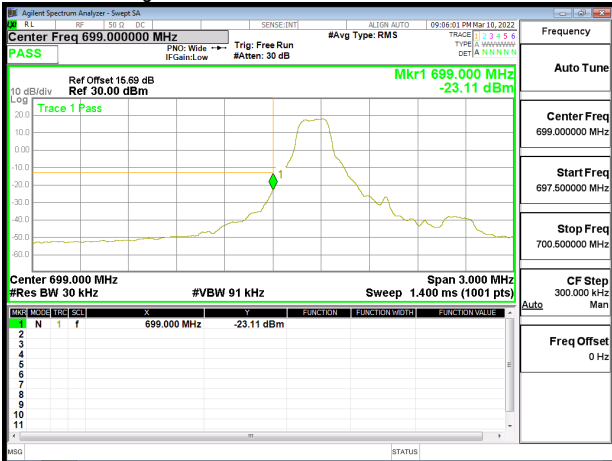


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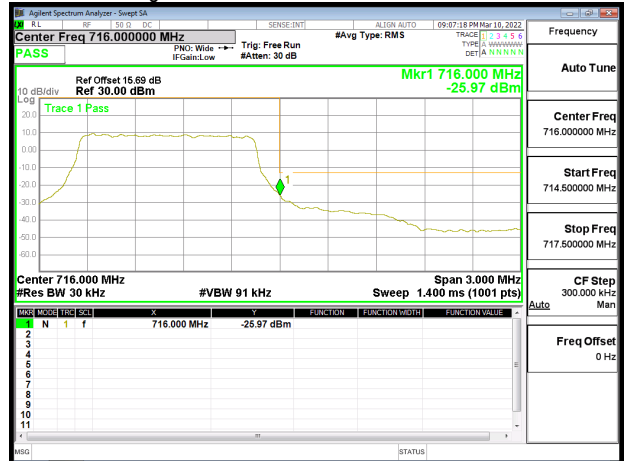
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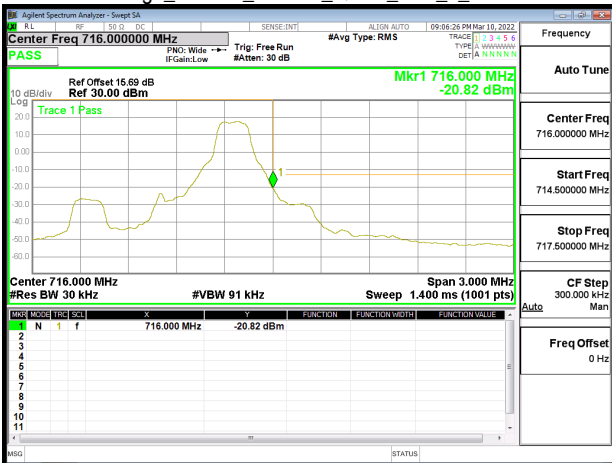
Band Edge\_Band12\_1.4MHz\_QPSK\_RB1\_0\_CH23017



Band Edge\_Band12\_1.4MHz\_QPSK\_RB6\_0\_CH23173



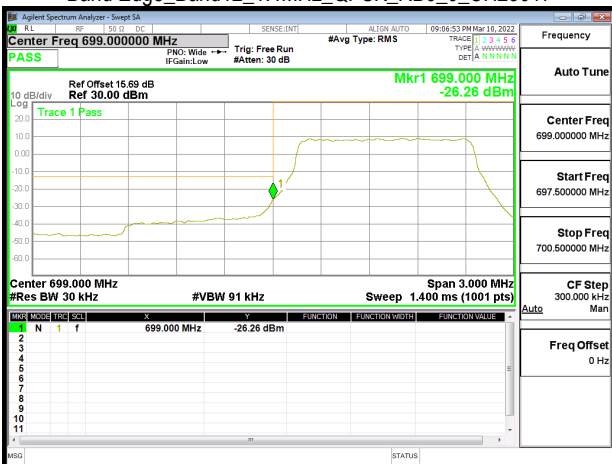
Band Edge\_Band12\_1.4MHz\_QPSK\_RB1\_5\_CH23173



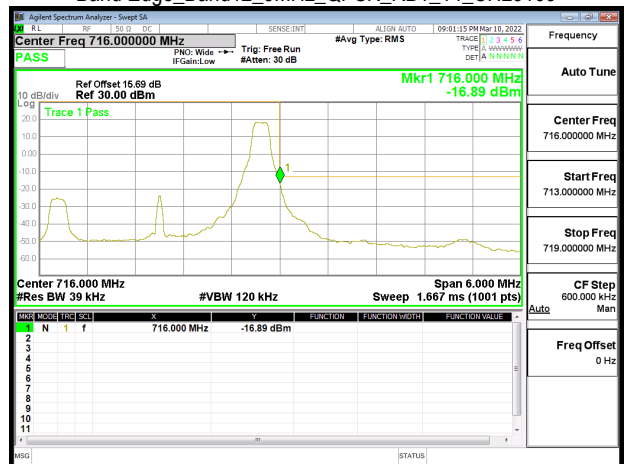
Band Edge\_Band12\_3MHz\_QPSK\_RB1\_0\_CH23025



Band Edge\_Band12\_1.4MHz\_QPSK\_RB6\_0\_CH23017



Band Edge\_Band12\_3MHz\_QPSK\_RB1\_14\_CH23165



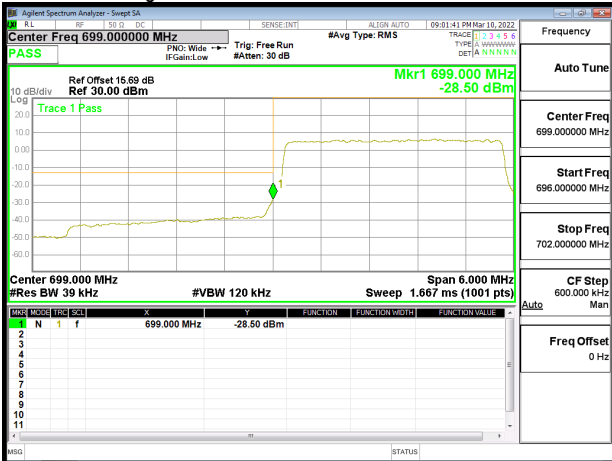
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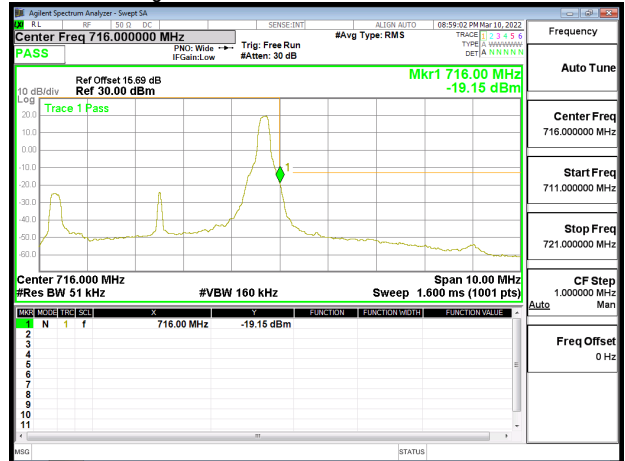
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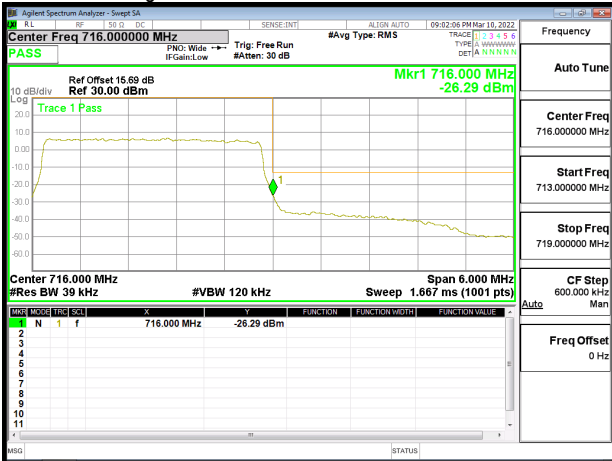
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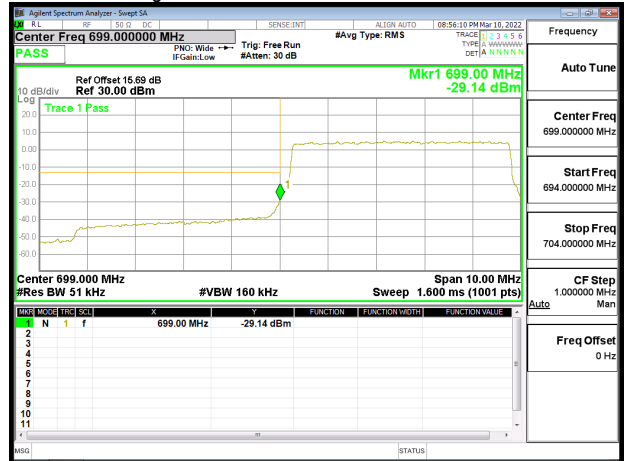
Band Edge\_Band12\_5MHz\_QPSK\_RB1\_24\_CH23155



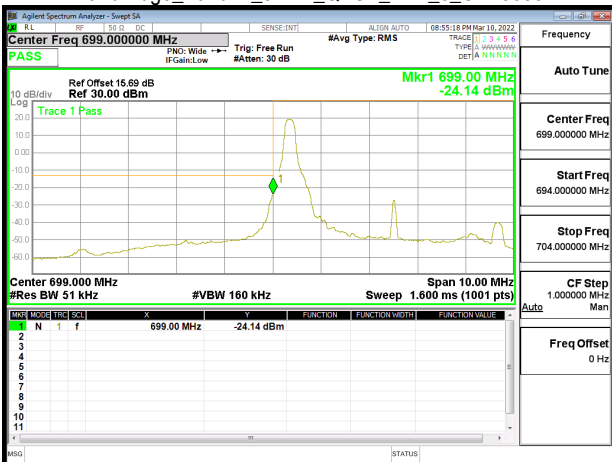
Band Edge\_Band12\_3MHz\_QPSK\_RB15\_0\_CH23165



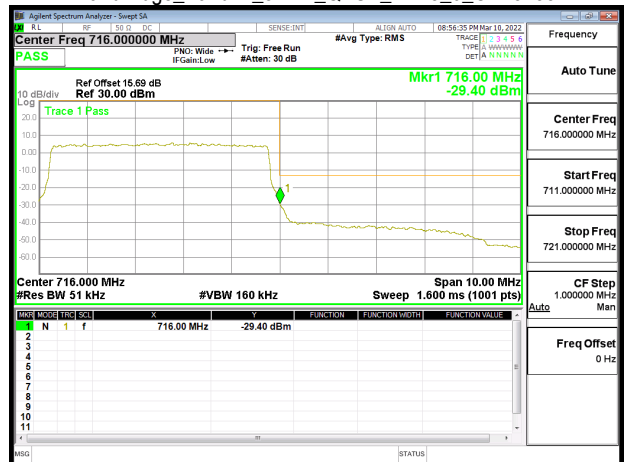
Band Edge\_Band12\_5MHz\_QPSK\_RB25\_0\_CH23035



Band Edge\_Band12\_5MHz\_QPSK\_RB1\_0\_CH23035



Band Edge\_Band12\_5MHz\_QPSK\_RB25\_0\_CH23155

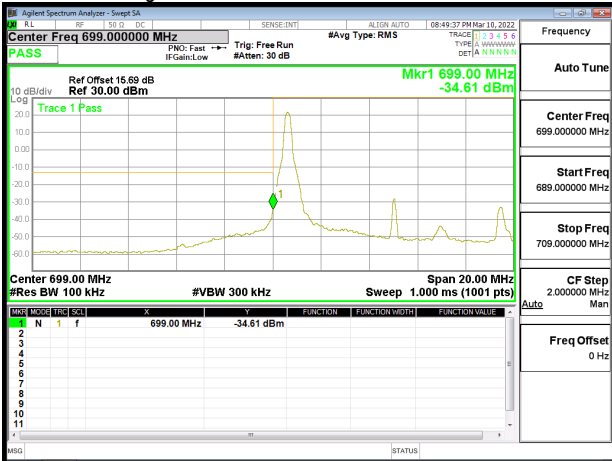


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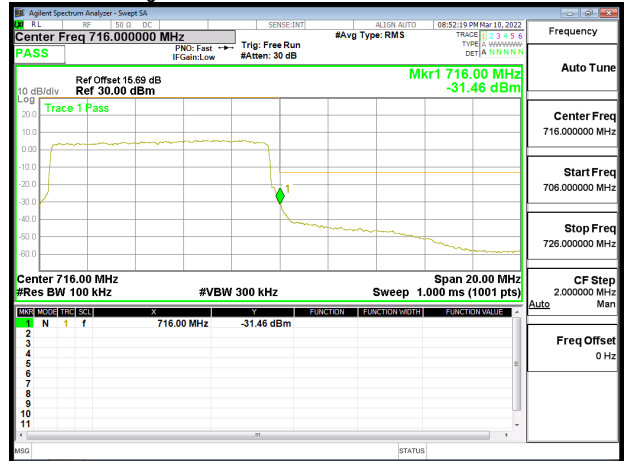
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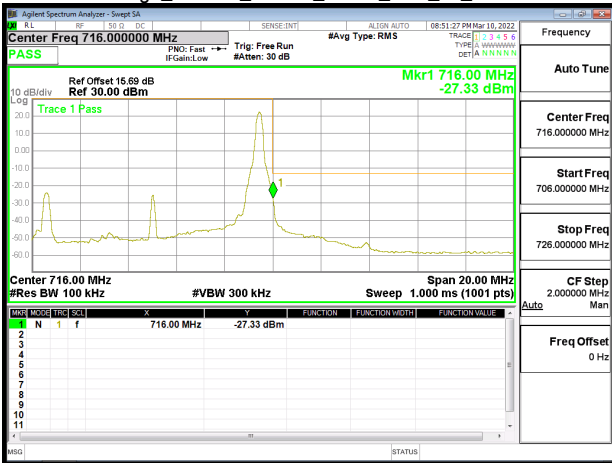
Band Edge\_Band12\_10MHz\_QPSK\_RB1\_0\_CH23060



Band Edge\_Band12\_10MHz\_QPSK\_RB50\_0\_CH23130



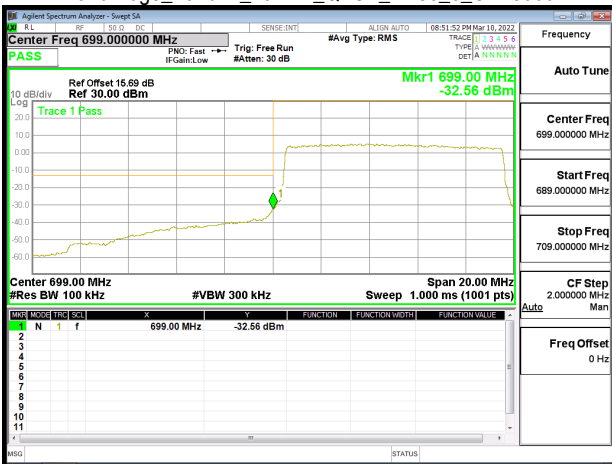
Band Edge\_Band12\_10MHz\_QPSK\_RB1\_49\_CH23130



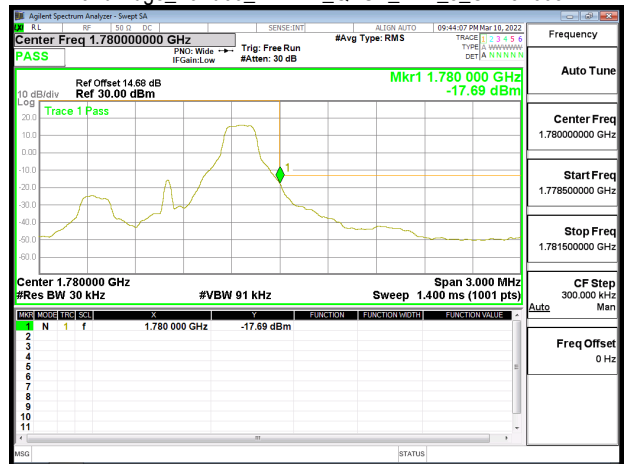
Band Edge\_Band66\_1.4MHz\_QPSK\_RB1\_0\_CH131979



Band Edge\_Band12\_10MHz\_QPSK\_RB50\_0\_CH23060



Band Edge\_Band66\_1.4MHz\_QPSK\_RB1\_5\_CH132665

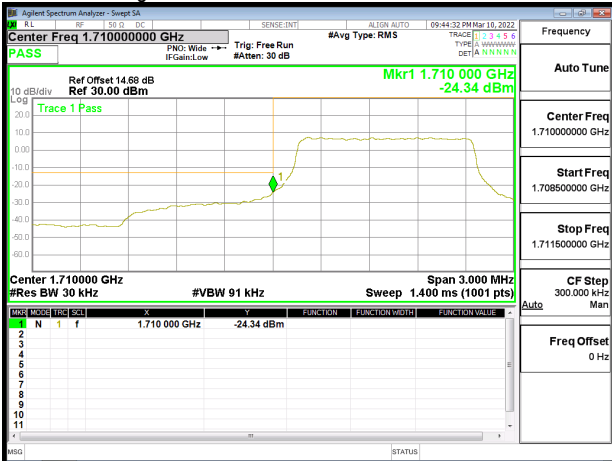


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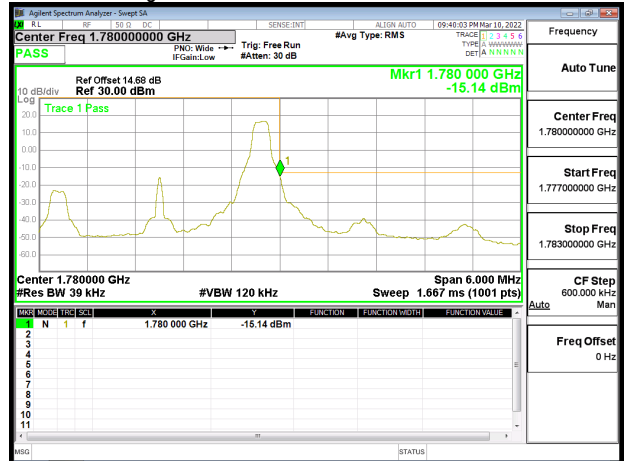
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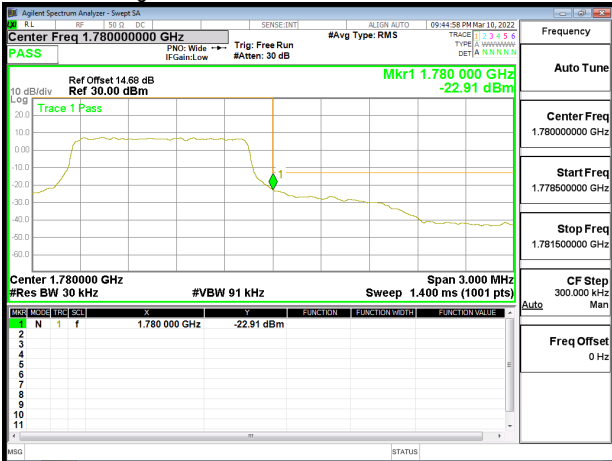
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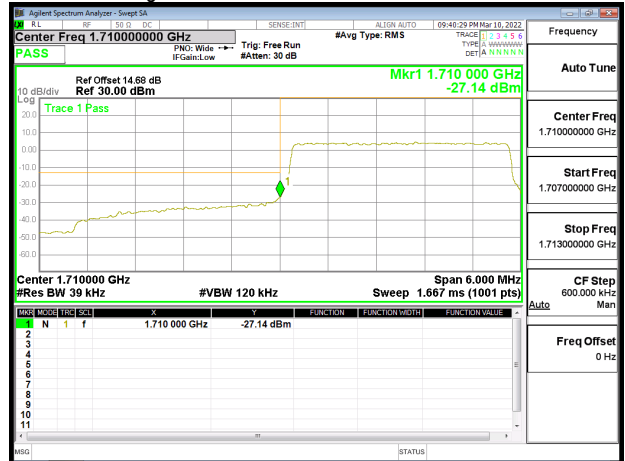
Band Edge\_Band66\_3MHz\_QPSK\_RB1\_14\_CH132657



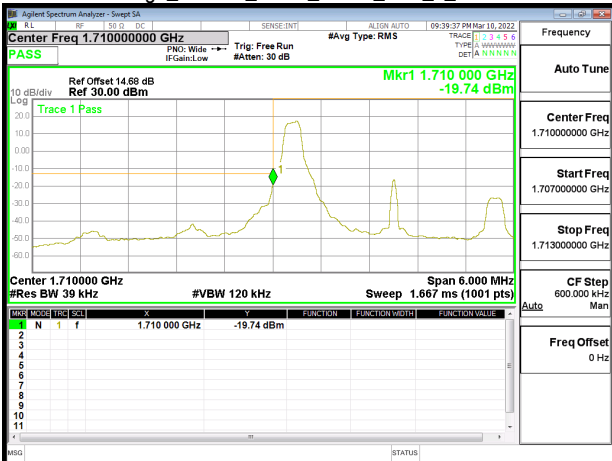
Band Edge\_Band66\_1.4MHz\_QPSK\_RB6\_0\_CH132665



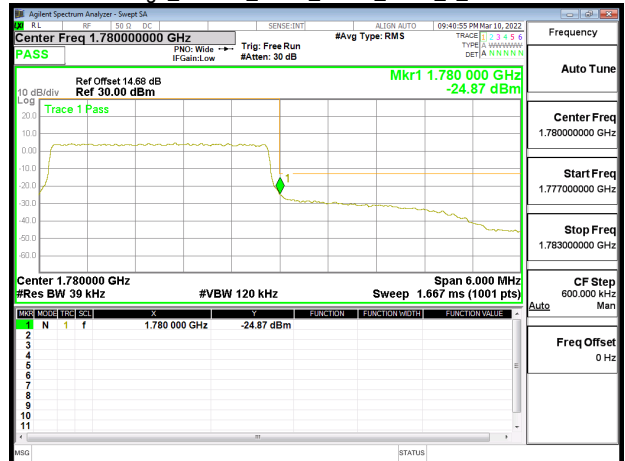
Band Edge\_Band66\_3MHz\_QPSK\_RB15\_0\_CH131987



Band Edge\_Band66\_3MHz\_QPSK\_RB1\_0\_CH131987



Band Edge\_Band66\_3MHz\_QPSK\_RB15\_0\_CH132657

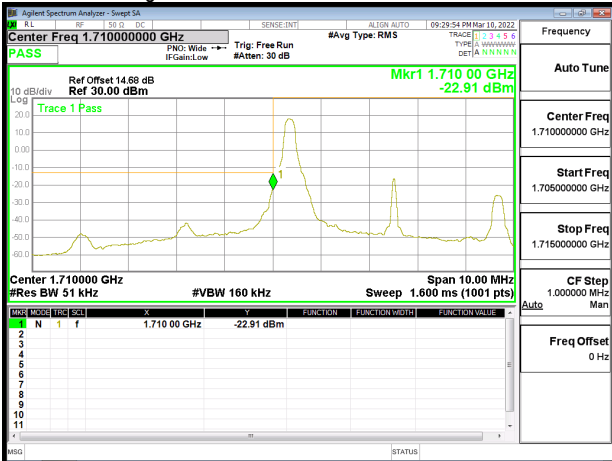


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

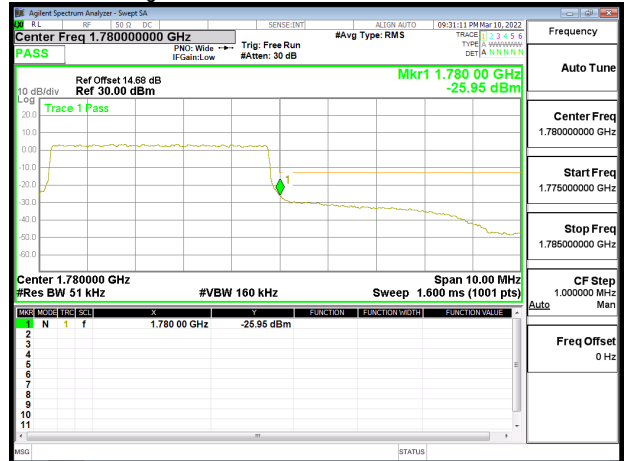
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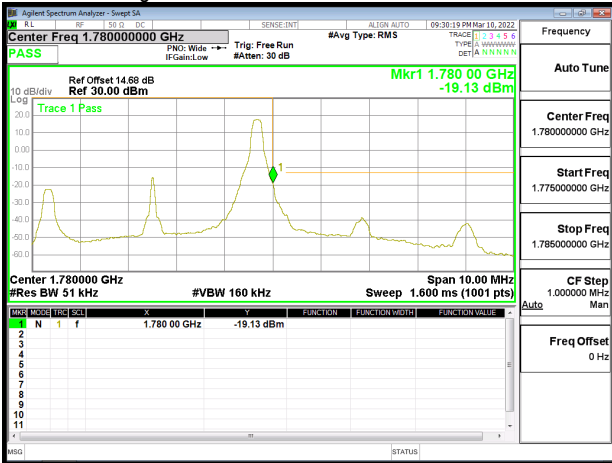
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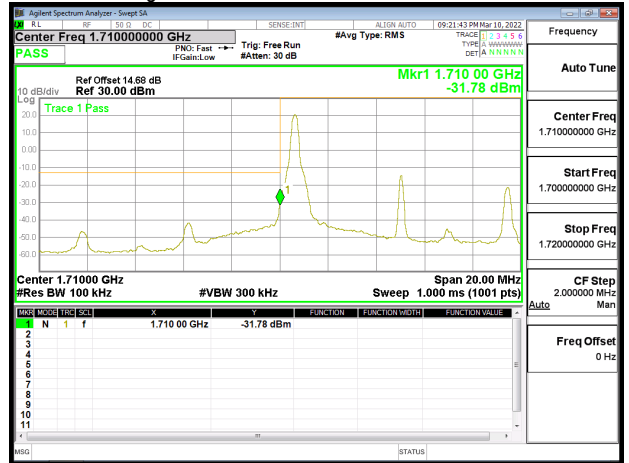
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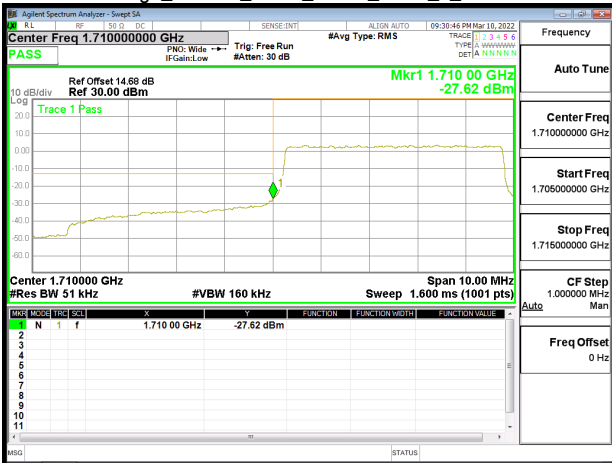
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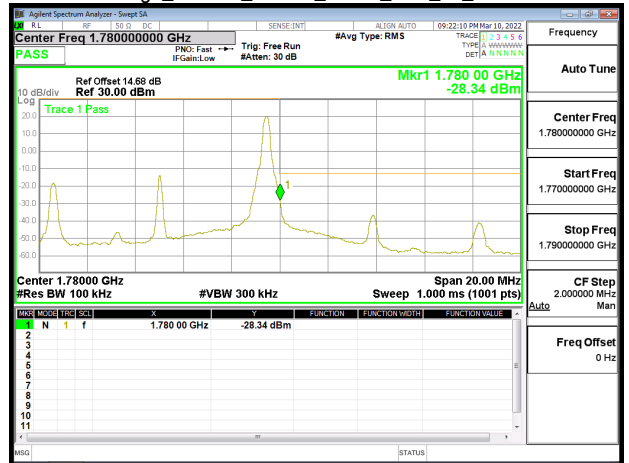
Band Edge\_Band66\_10MHz\_QPSK\_RB1\_0\_CH132022



Band Edge\_Band66\_5MHz\_QPSK\_RB25\_0\_CH131997



Band Edge\_Band66\_10MHz\_QPSK\_RB1\_49\_CH132622



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