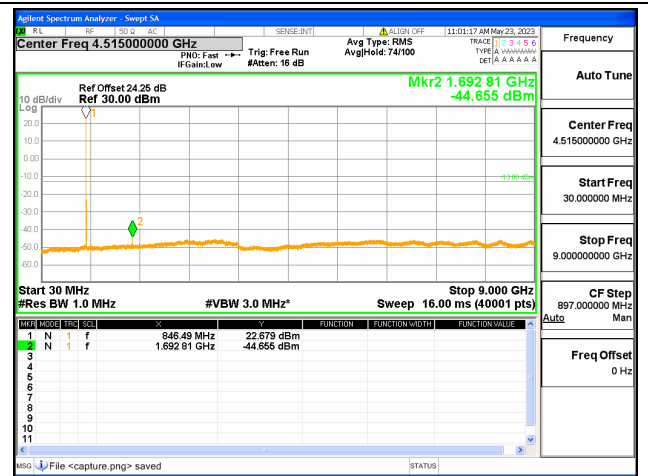
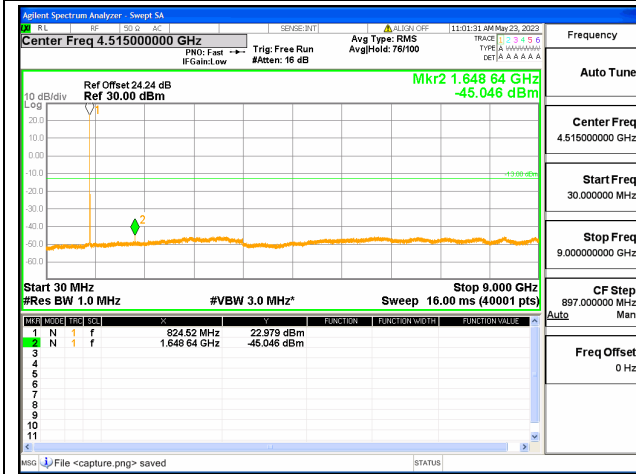


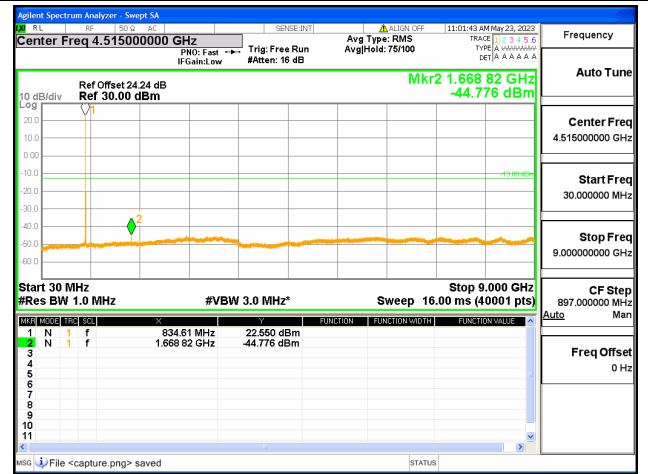
Band26 Part22 / 3MHz / Mid CH / QPSK



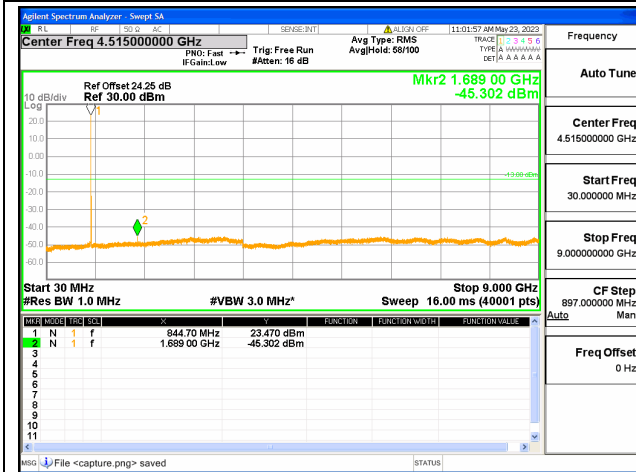
Band26 Part22 / 3MHz / High CH / QPSK



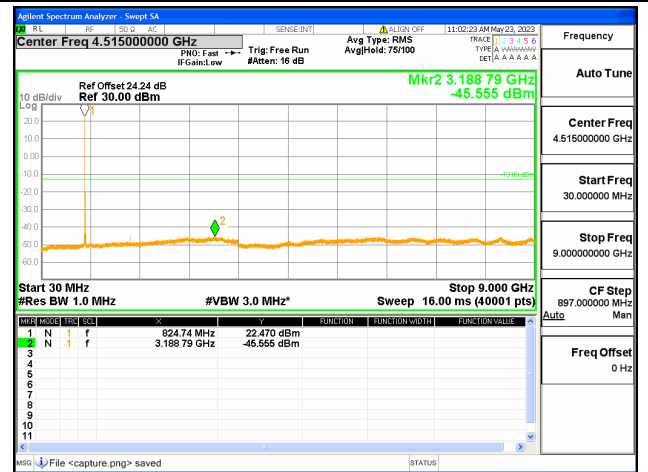
Band26 Part22 / 5MHz / Low CH / QPSK



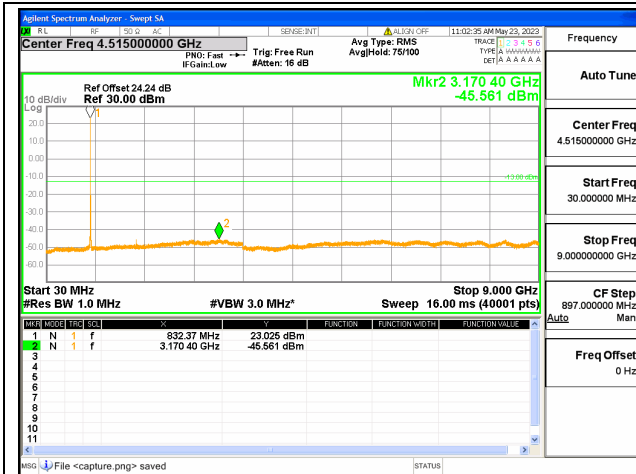
Band26 Part22 / 5MHz / Mid CH / QPSK



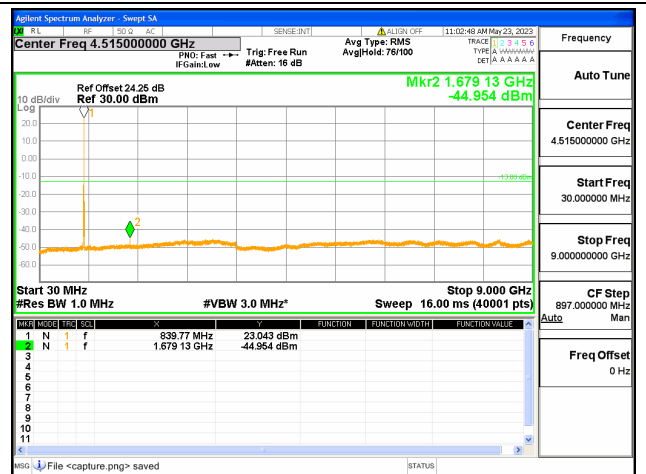
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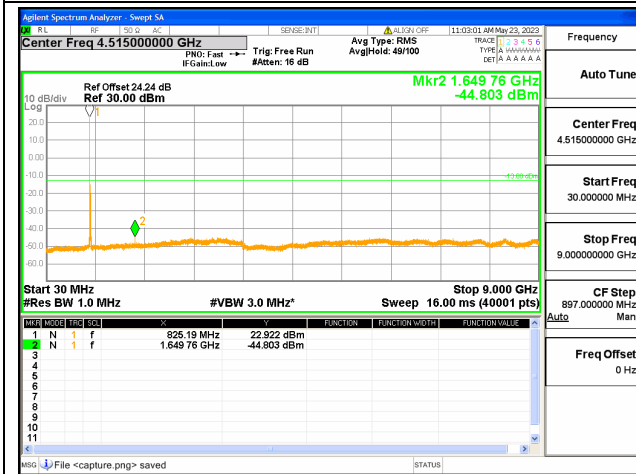
Band26 Part22 / 10MHz / Low CH / QPSK



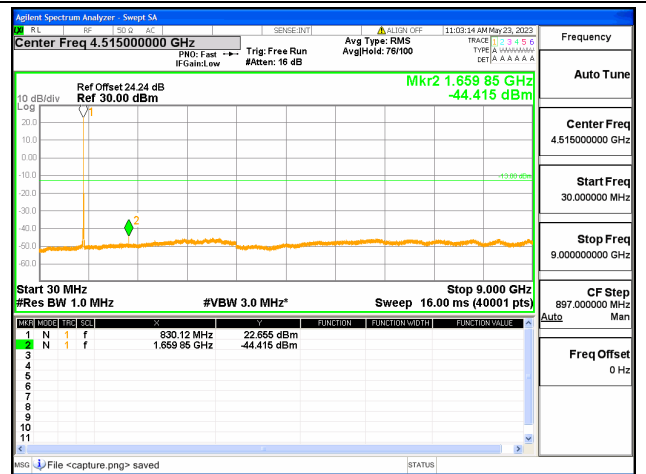
Band26 Part22 / 10MHz / Mid CH / QPSK



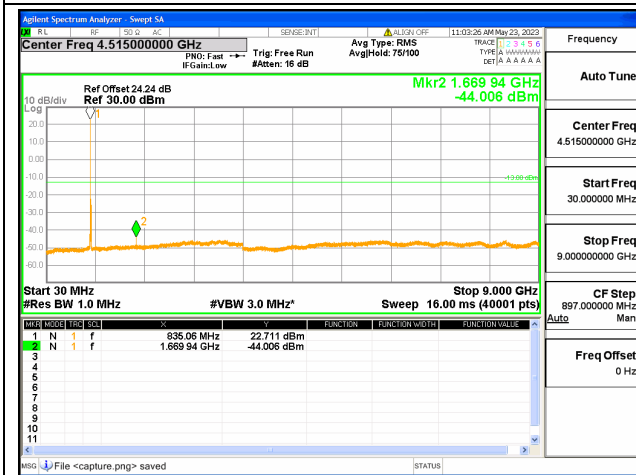
Band26 Part22 / 10MHz / High CH / QPSK



Band26 Part22 / 15MHz / Low CH / QPSK

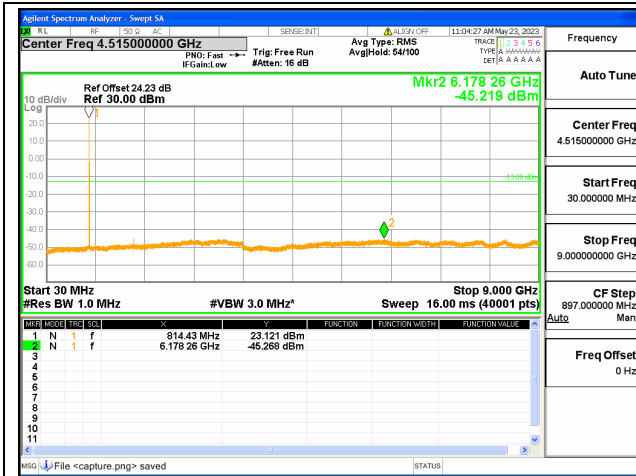


Band26 Part22 / 15MHz / Mid CH / QPSK

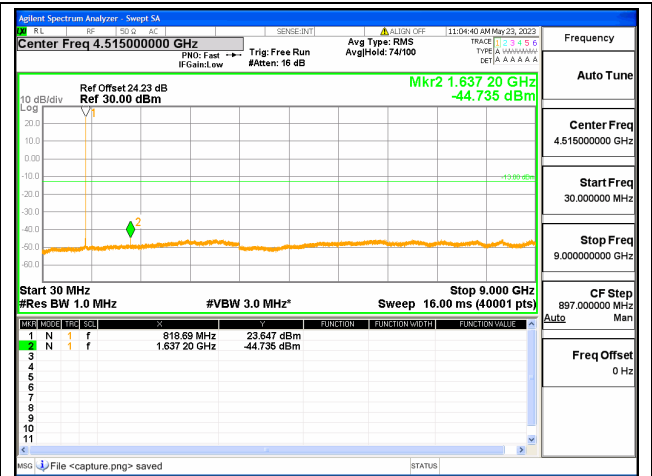


Band26 Part22 / 15MHz / High CH / QPSK

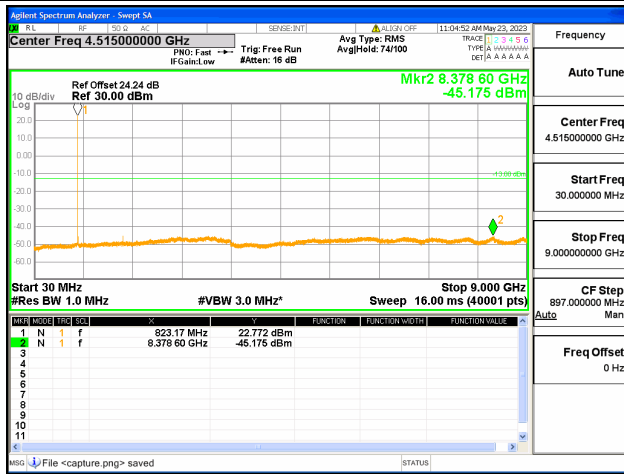
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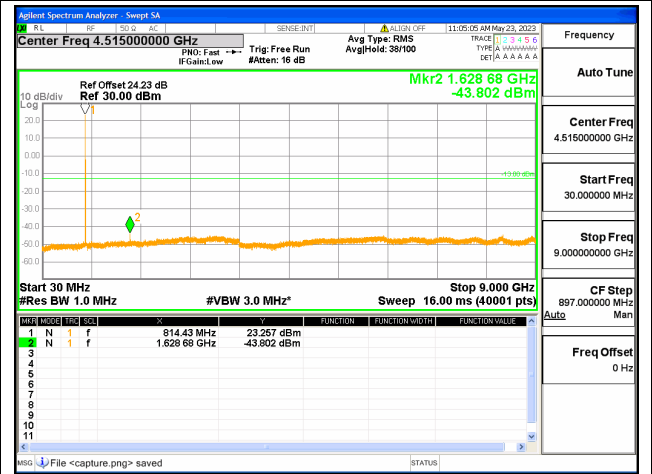
Band26 Part90 / 1.4MHz / Low CH / QPSK



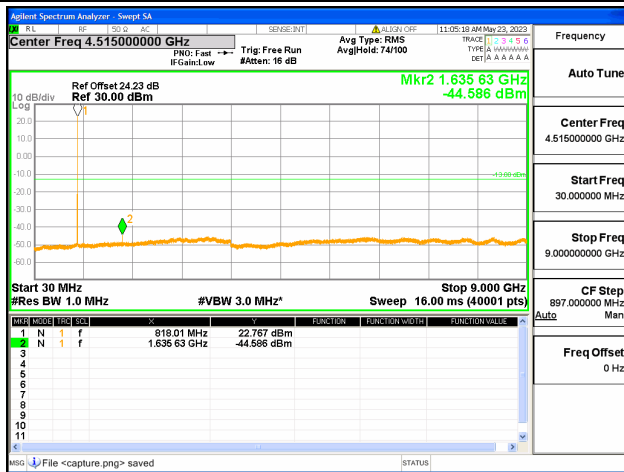
Band26 Part90 / 1.4MHz / Mid CH / QPSK



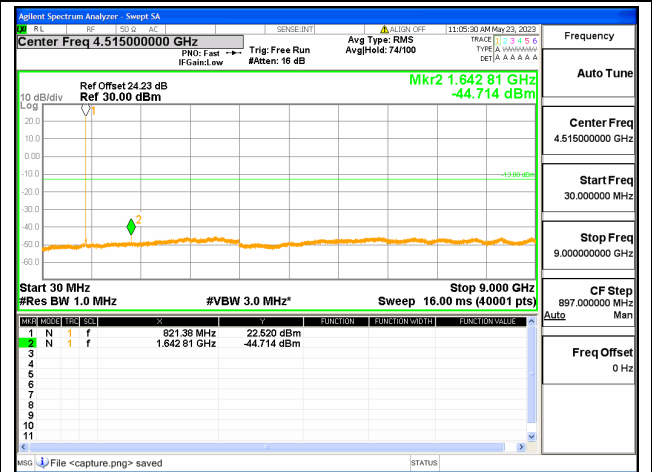
Band26 Part90 / 1.4MHz / High CH / QPSK



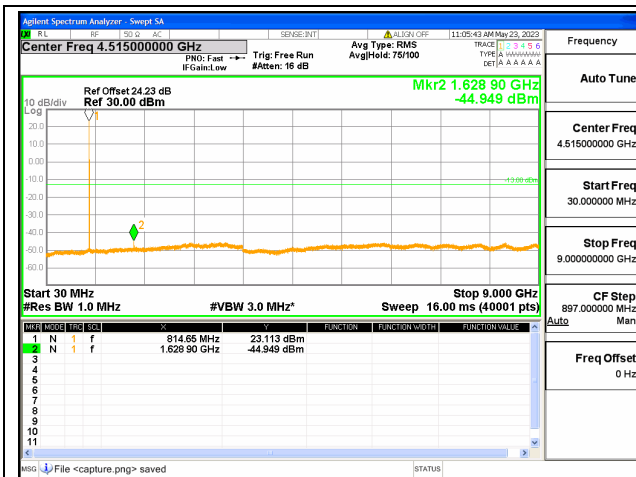
Band26 Part90 / 3MHz / Low CH / QPSK



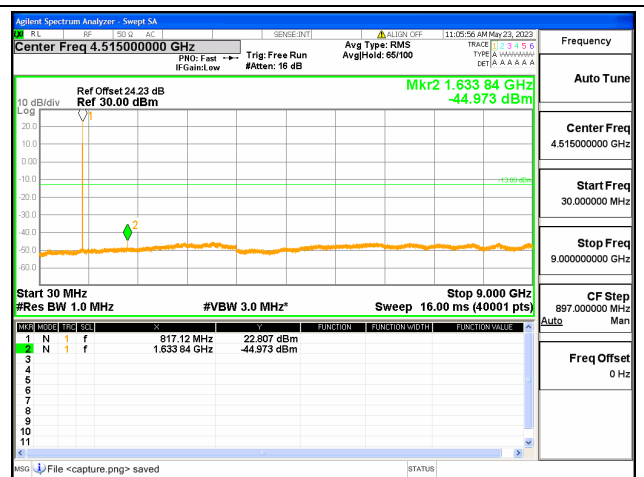
Band26 Part90 / 3MHz / Mid CH / QPSK



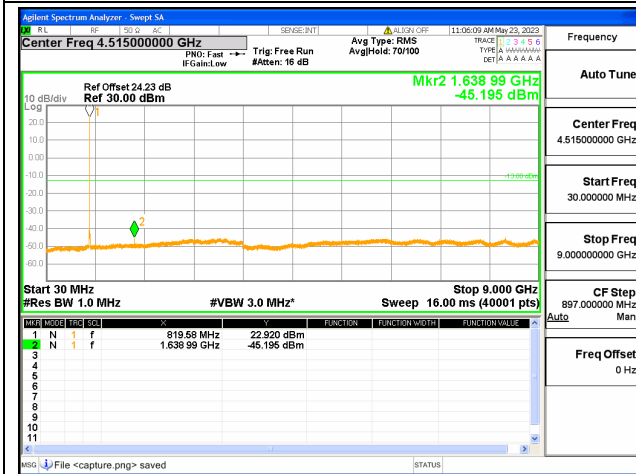
Band26 Part90 / 3MHz / High CH / QPSK



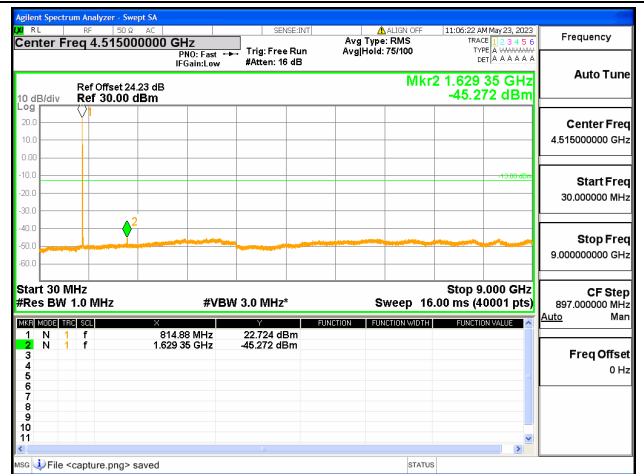
Band26 Part90 / 5MHz / Low CH / QPSK



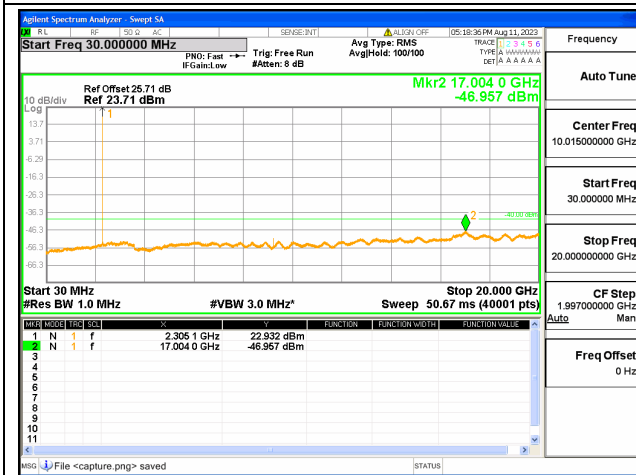
Band26 Part90 / 5MHz / Mid CH / QPSK



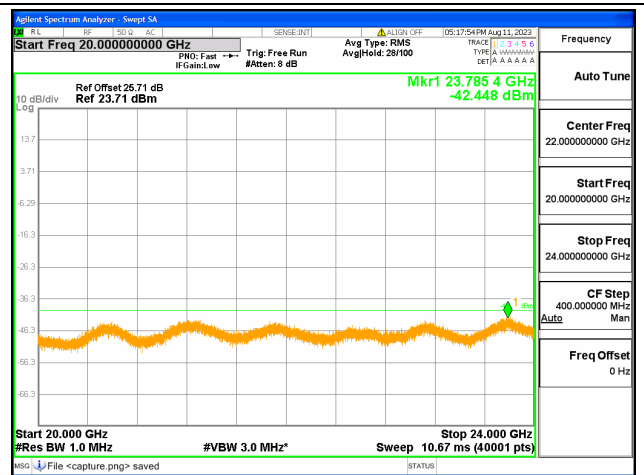
Band26 Part90 / 5MHz / High CH / QPSK



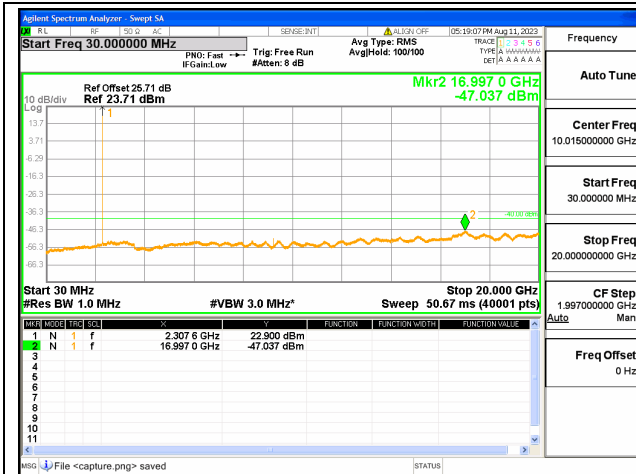
Band26 Part90 / 10MHz / Mid CH / QPSK



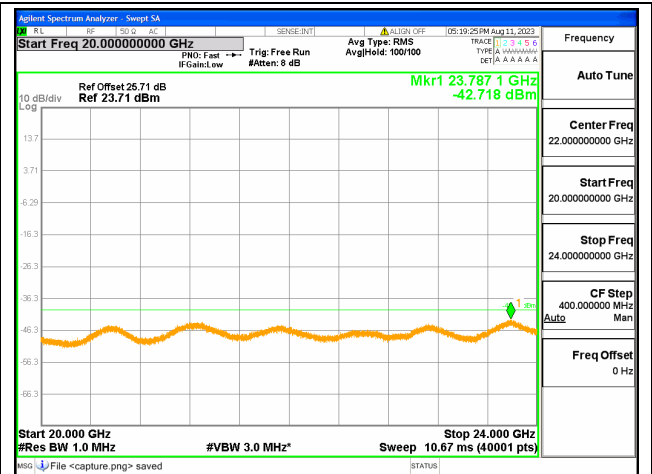
B30-30M-20G / 5MHz / Low CH / QPSK



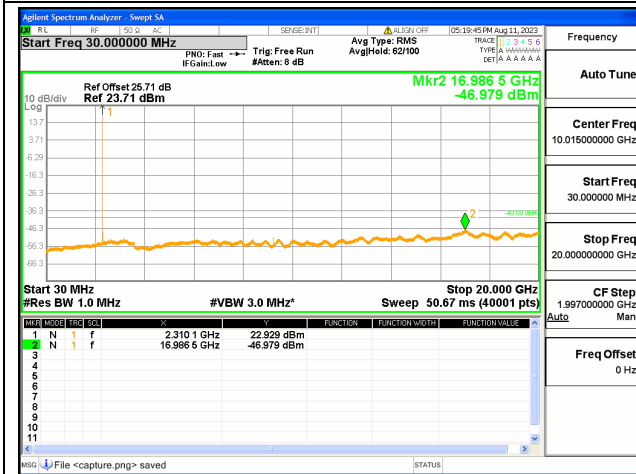
B30-20G-24G / 5MHz / Low CH / QPSK



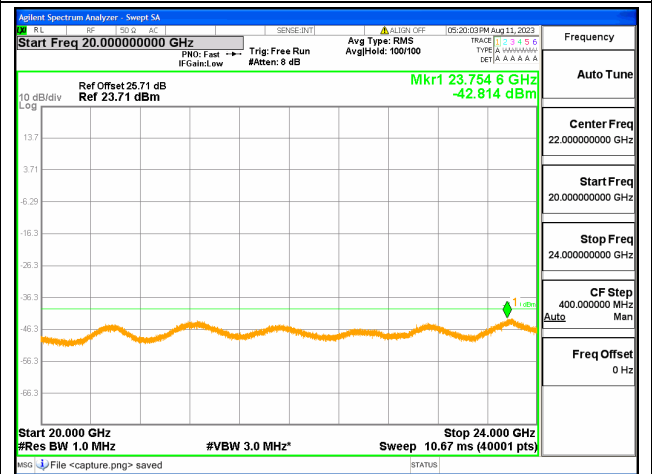
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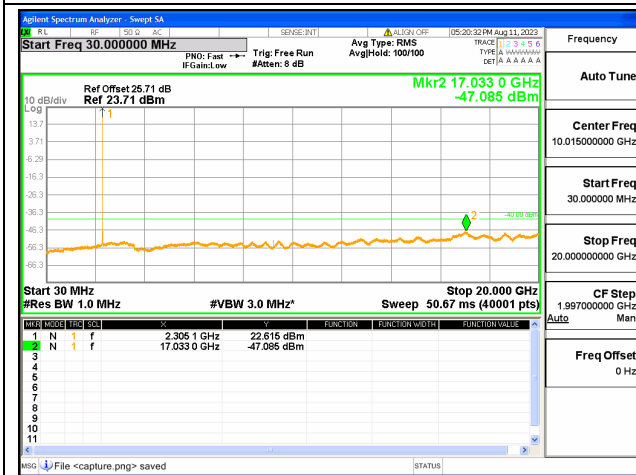
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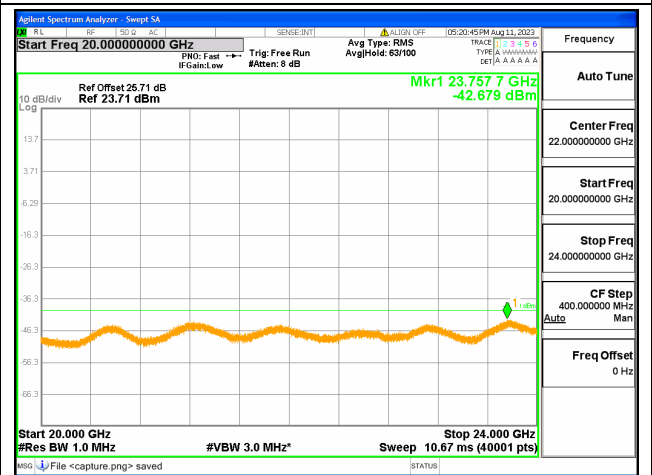
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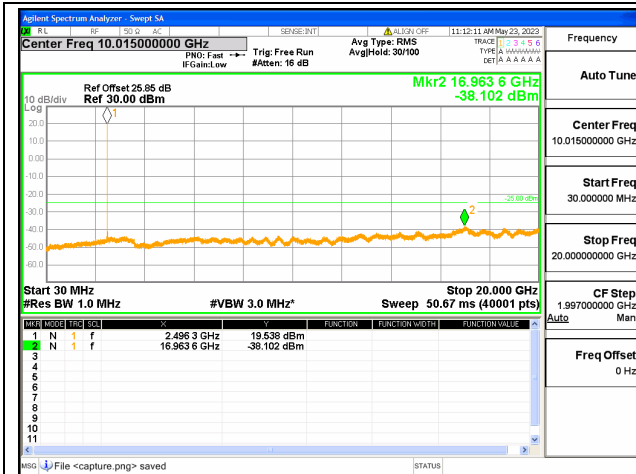
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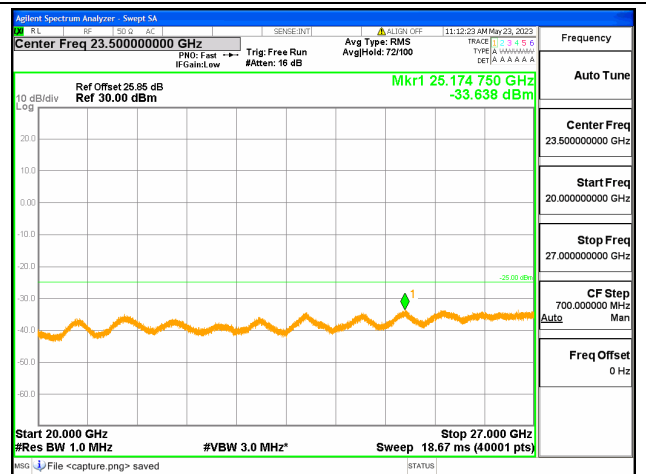
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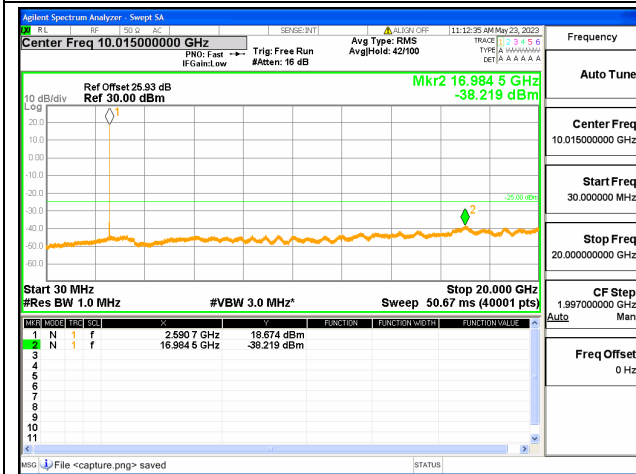
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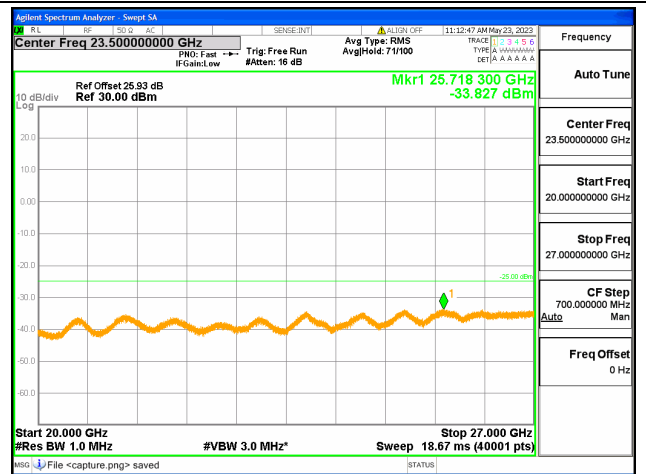
Band41-30M-20G / 5MHz / Low CH / QPSK



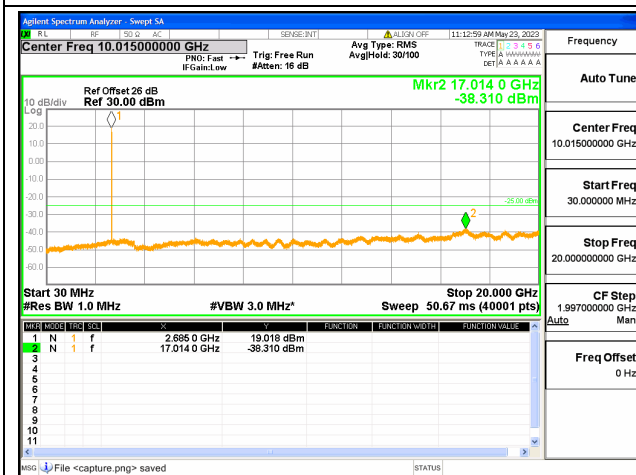
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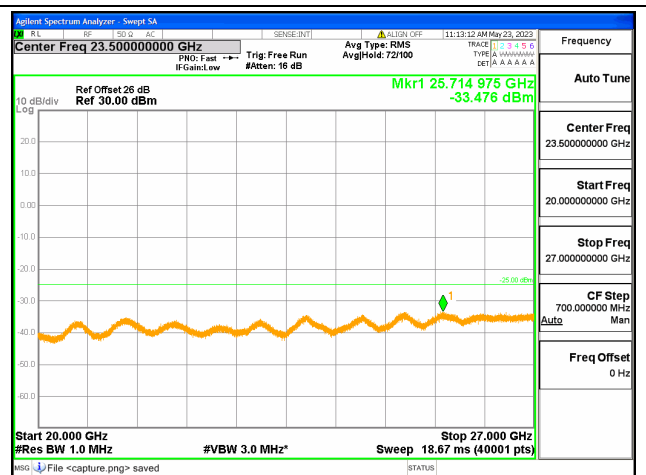
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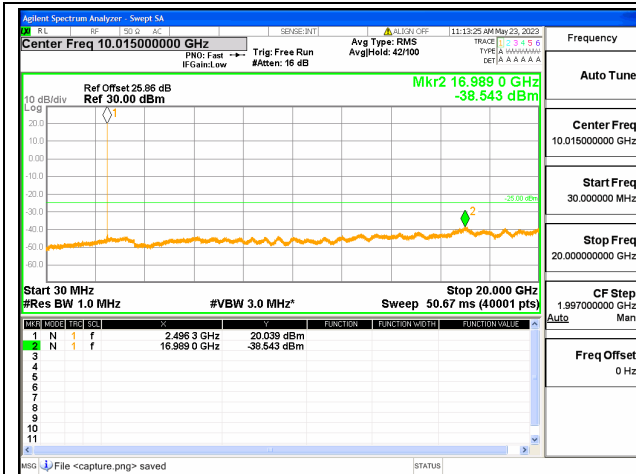
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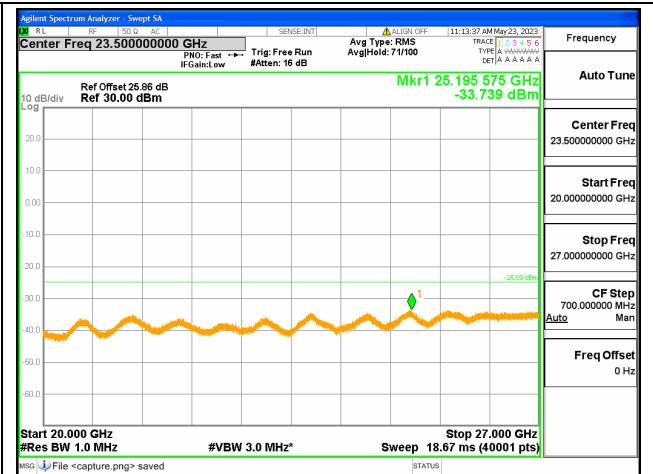
Band41-30M-20G / 5MHz / High CH / QPSK



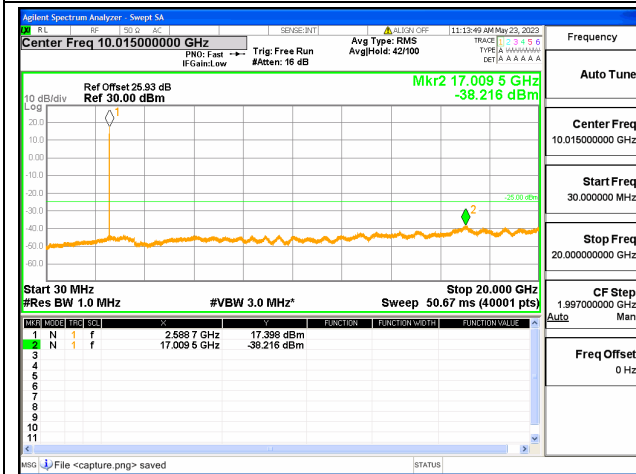
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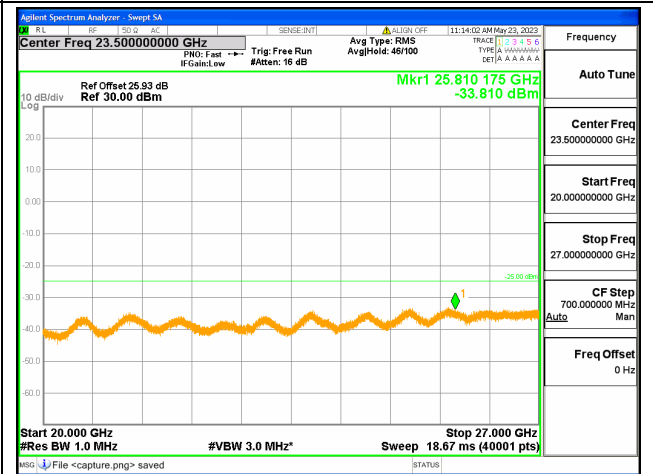
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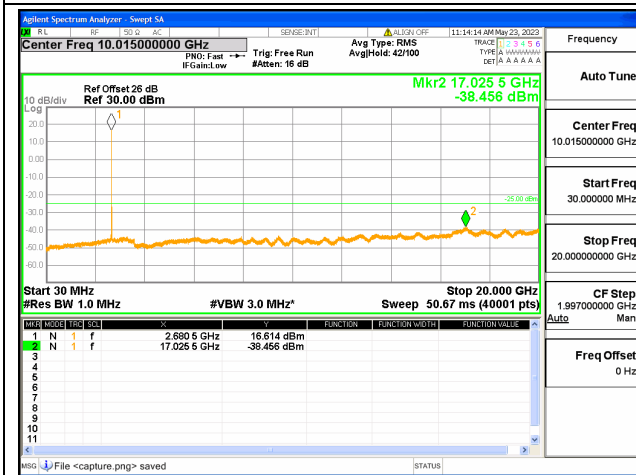
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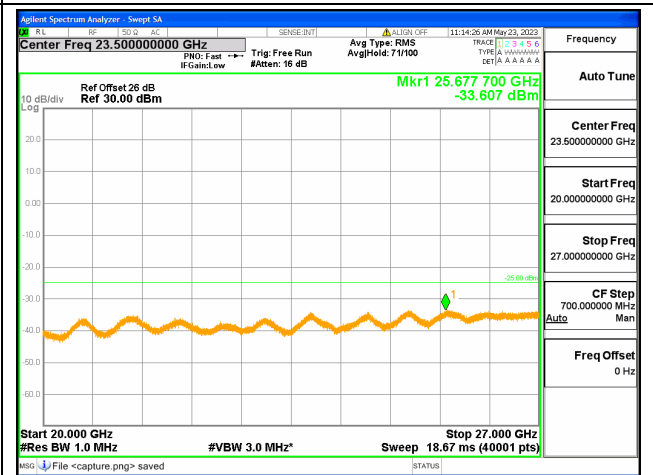
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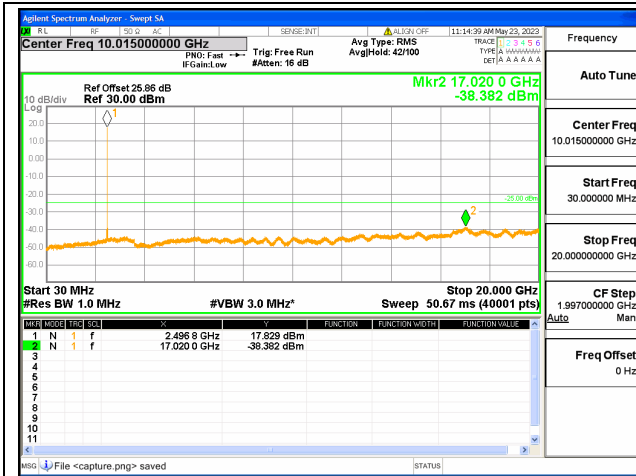
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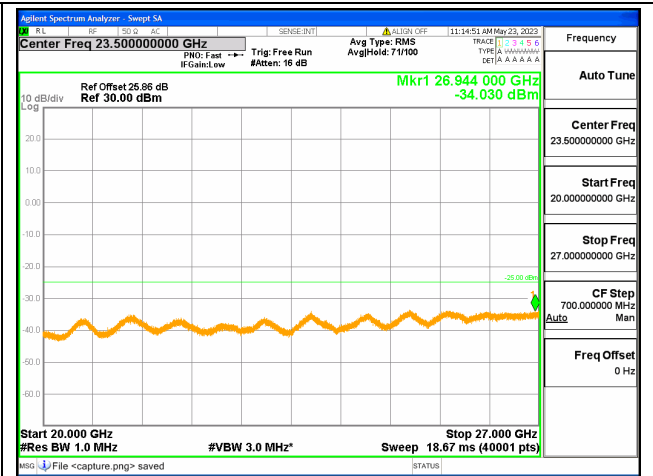
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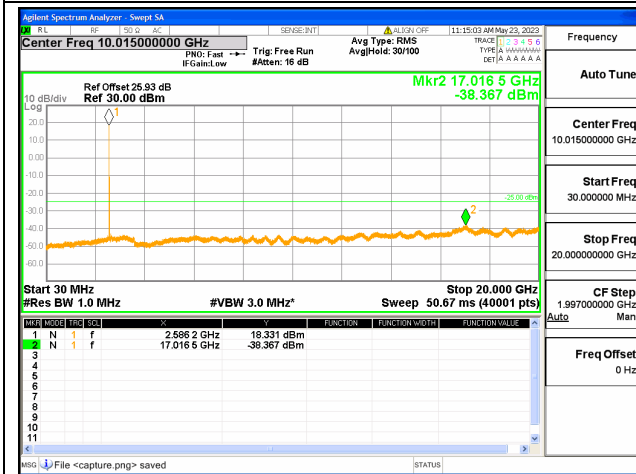
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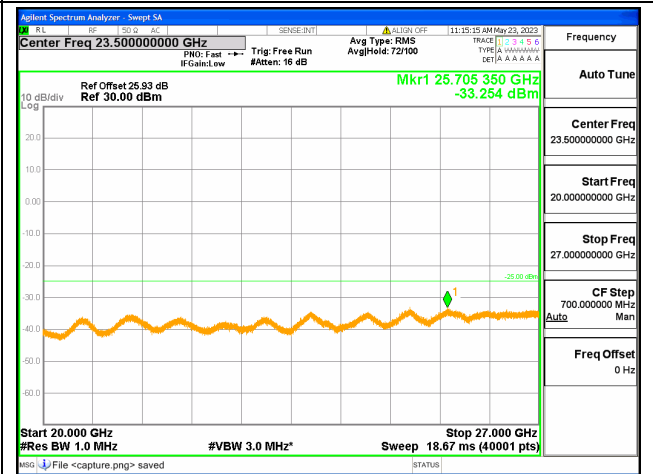
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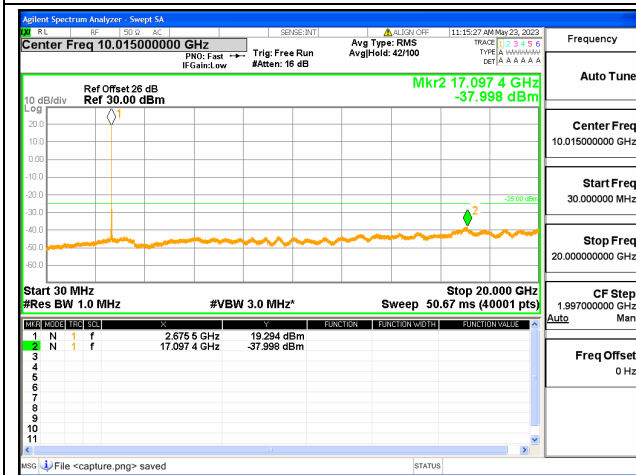
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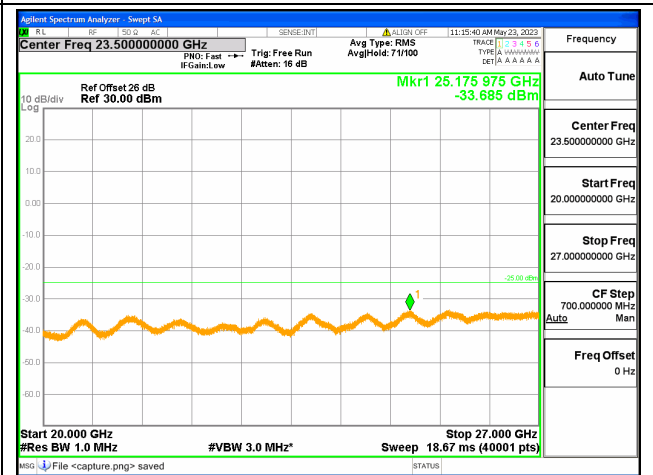
Band41-30M-20G / 15MHz / Mid CH / QPSK



Band41-20G-27G / 15MHz / Mid CH / QPSK

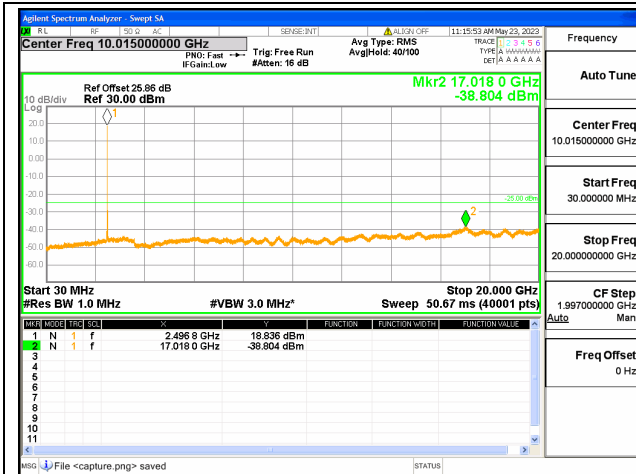


Band41-30M-20G / 15MHz / High CH / QPSK

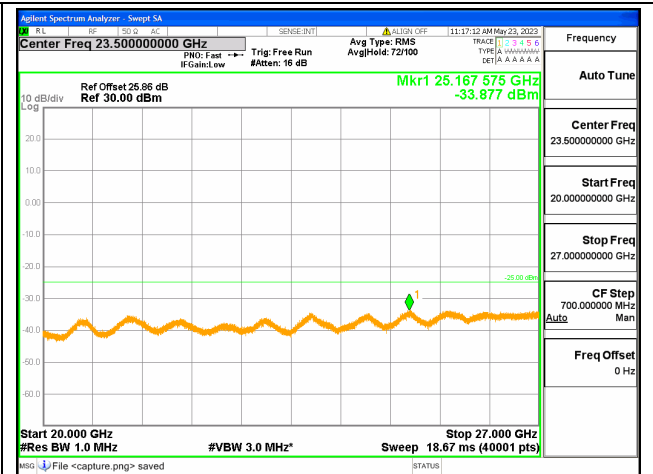


Band41-20G-27G / 15MHz / High CH / QPSK

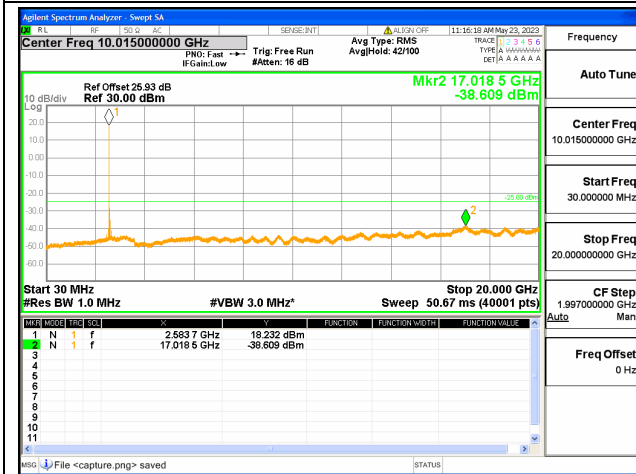




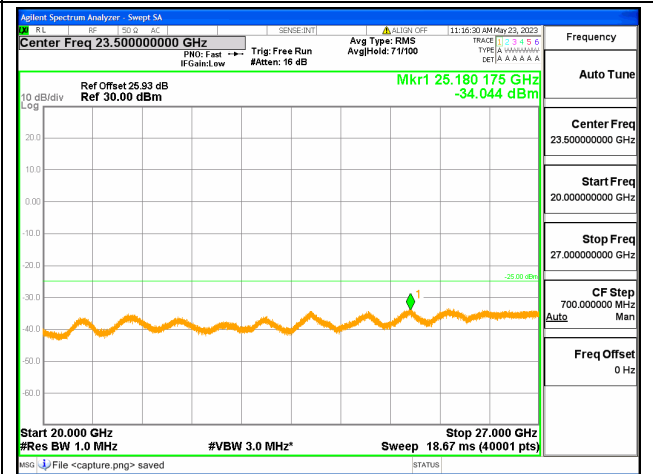
Band41-30M-20G / 20MHz / Low CH / QPSK



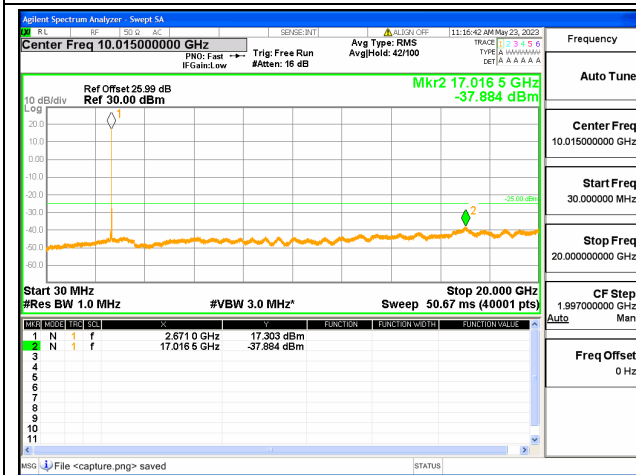
Band41-20G-27G / 20MHz / Low CH / QPSK



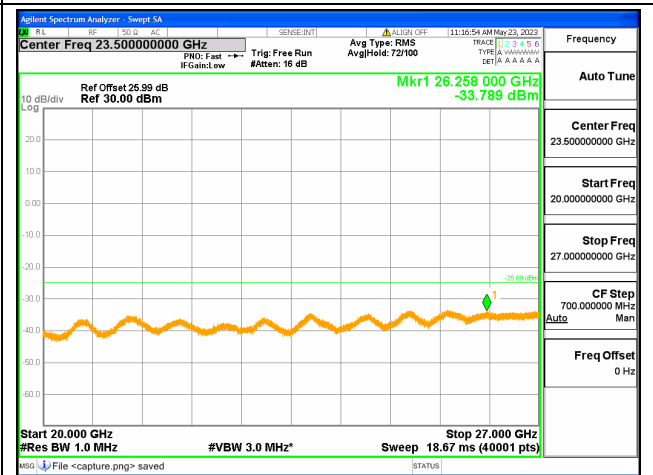
Band41-30M-20G / 20MHz / Mid CH / QPSK



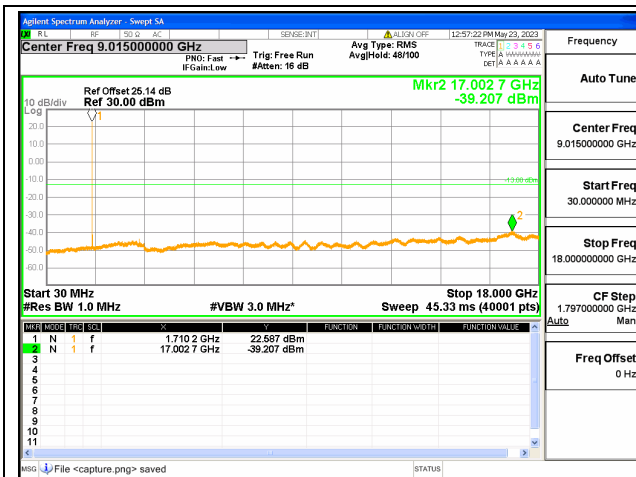
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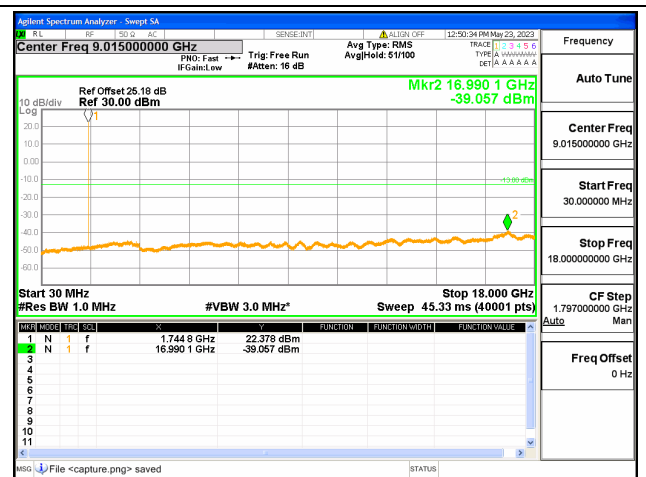
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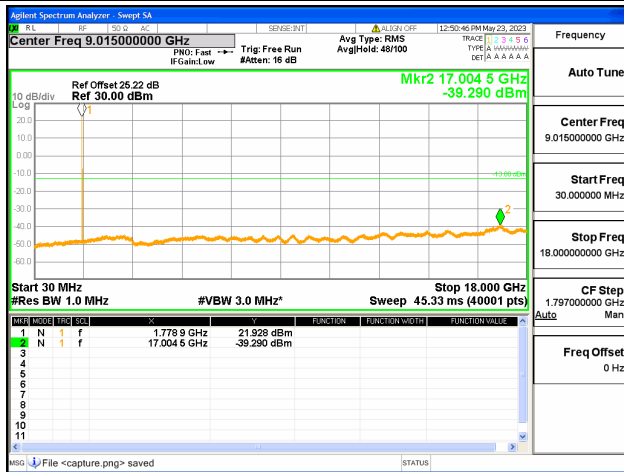
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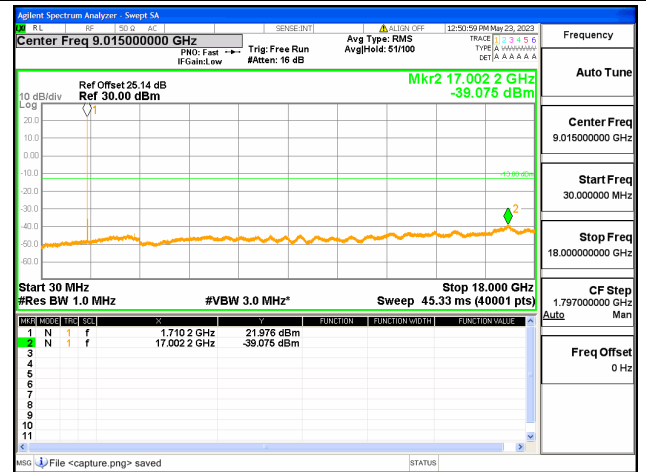
Band66 / 1.4MHz / Low CH / QPSK



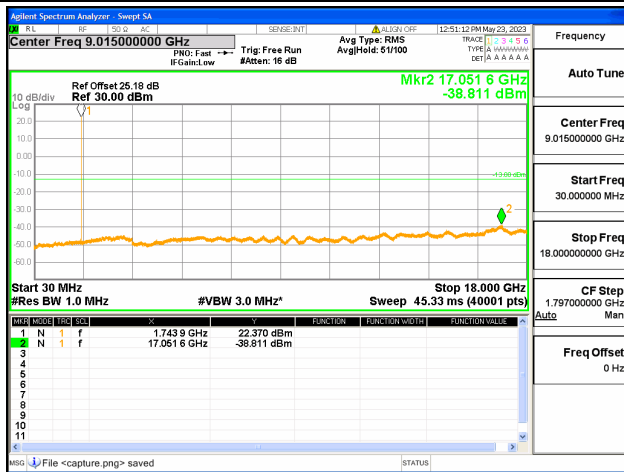
Band66 / 1.4MHz / Mid CH / QPSK



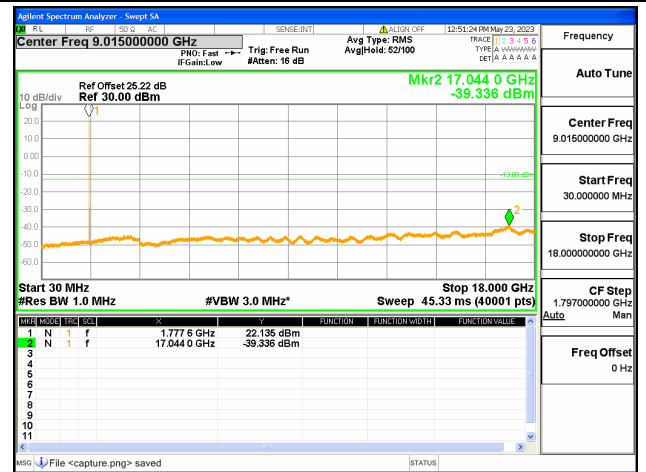
Band66 / 1.4MHz / High CH / QPSK



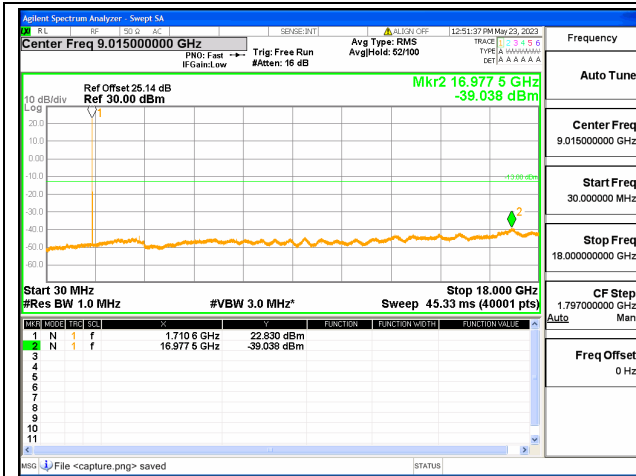
Band66 / 3MHz / Low CH / QPSK



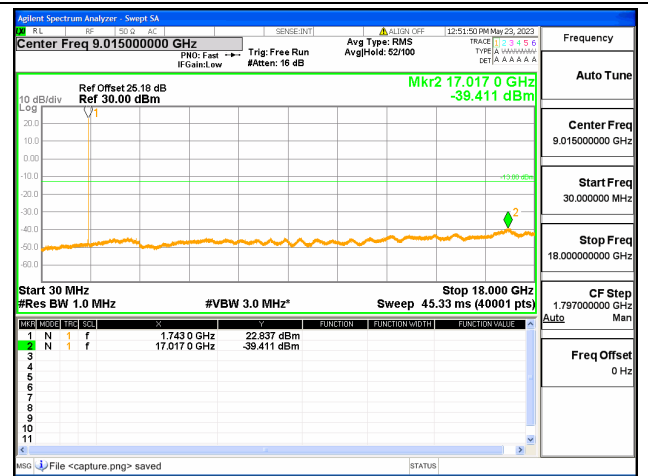
Band66 / 3MHz / Mid CH / QPSK



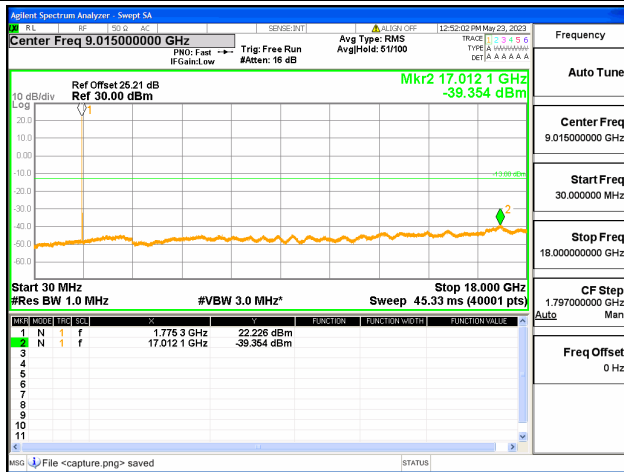
Band66 / 3MHz / High CH / QPSK



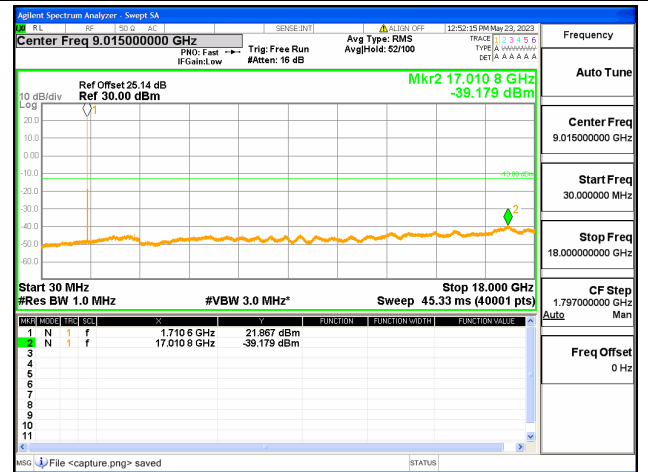
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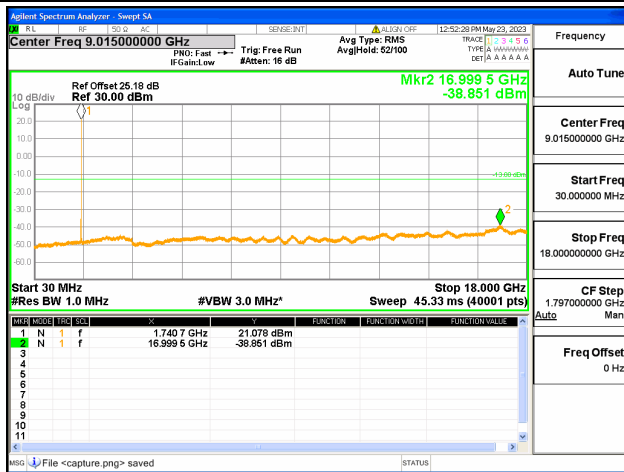
Band66 / 5MHz / Mid CH / QPSK



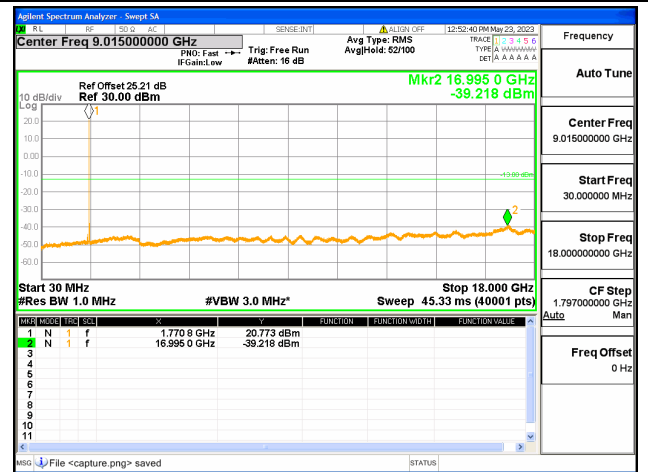
Band66 / 5MHz / High CH / QPSK



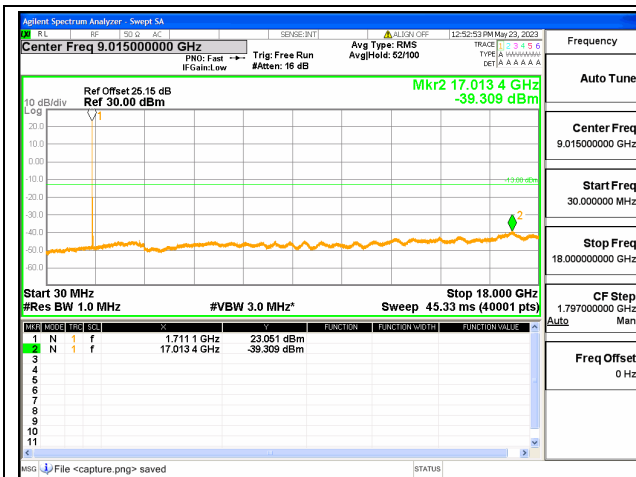
Band66 / 10MHz / Low CH / QPSK



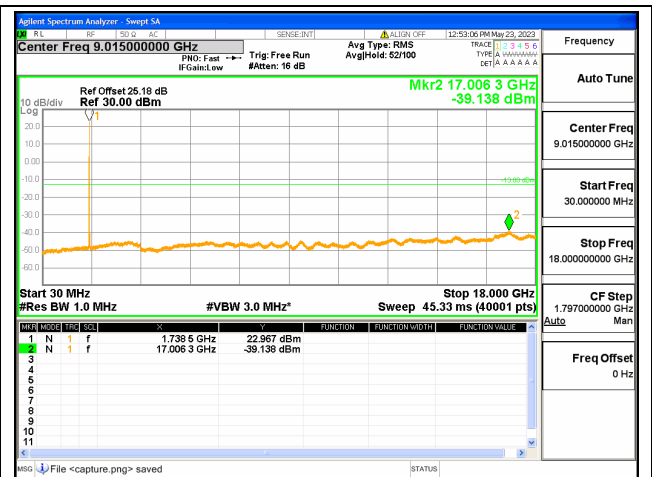
Band66 / 10MHz / Mid CH / QPSK



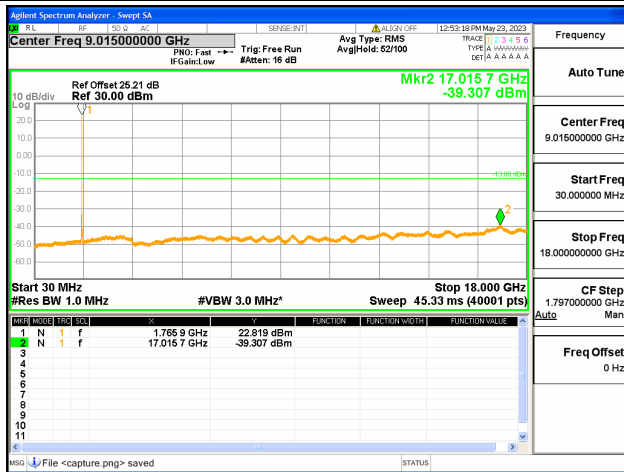
Band66 / 10MHz / High CH / QPSK



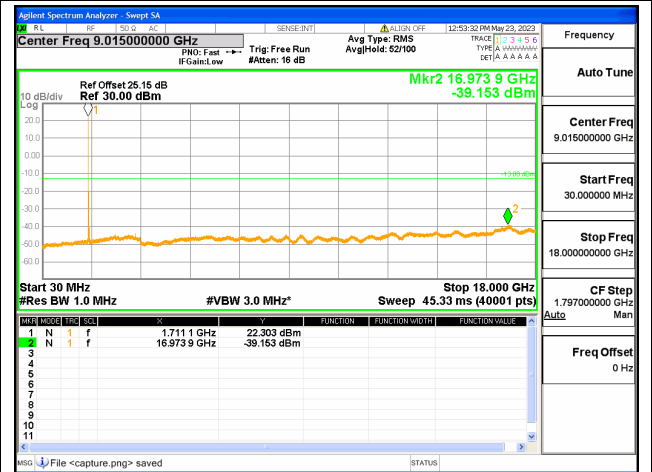
Band66 / 15MHz / Low CH / QPSK



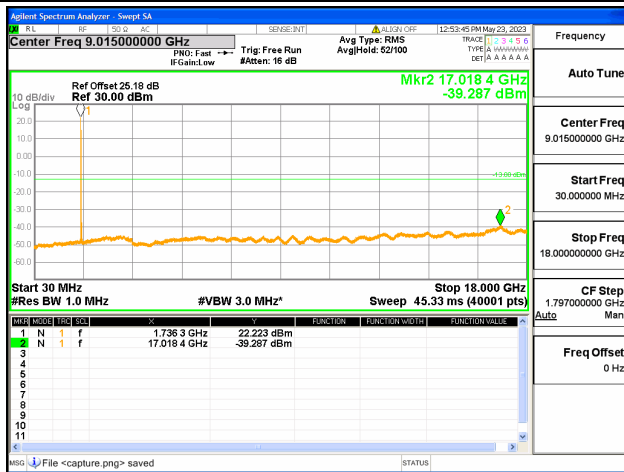
Band66 / 15MHz / Mid CH / QPSK



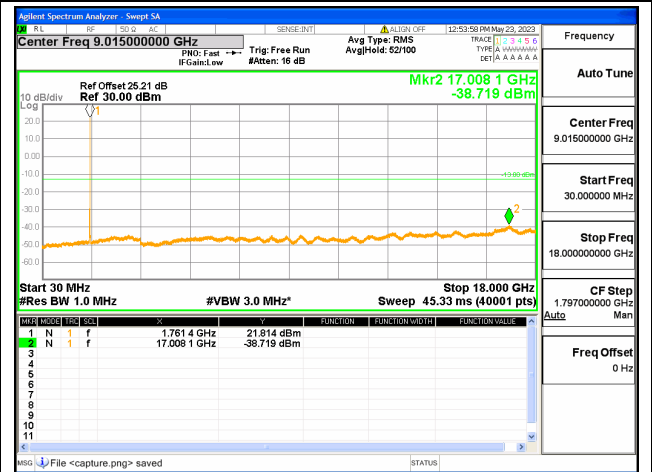
Band66 / 15MHz / High CH / QPSK



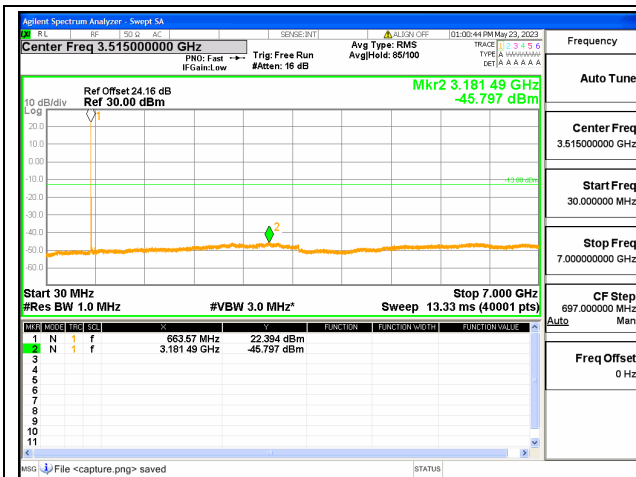
Band66 / 20MHz / Low CH / QPSK



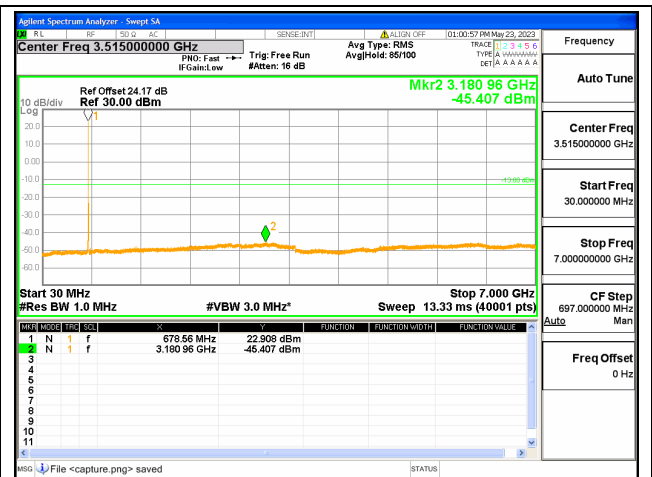
Band66 / 20MHz / Mid CH / QPSK



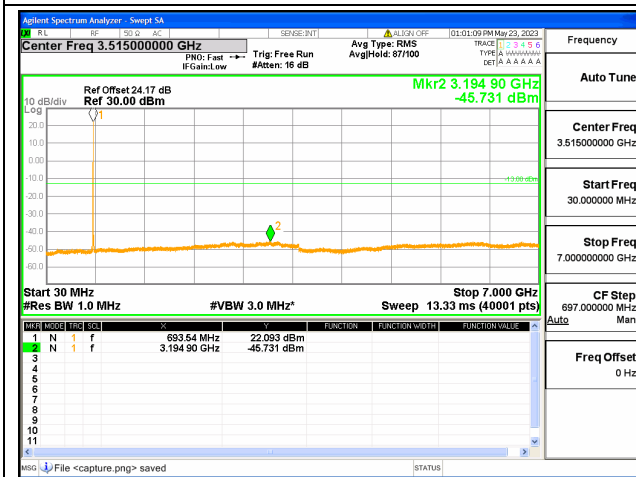
Band66 / 20MHz / High CH / QPSK



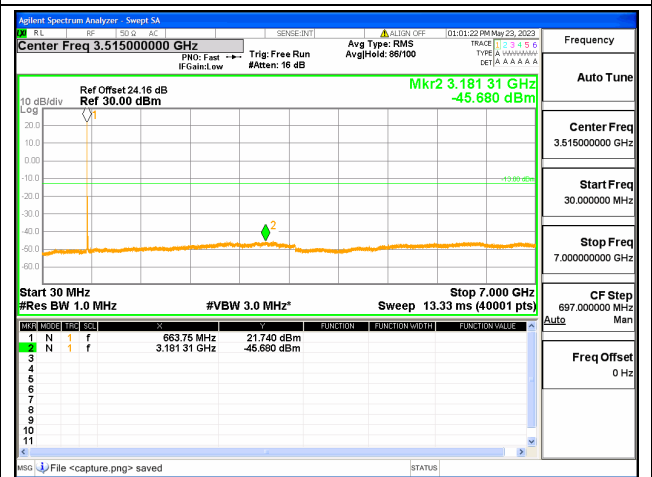
Band71 / 5MHz / Low CH / QPSK



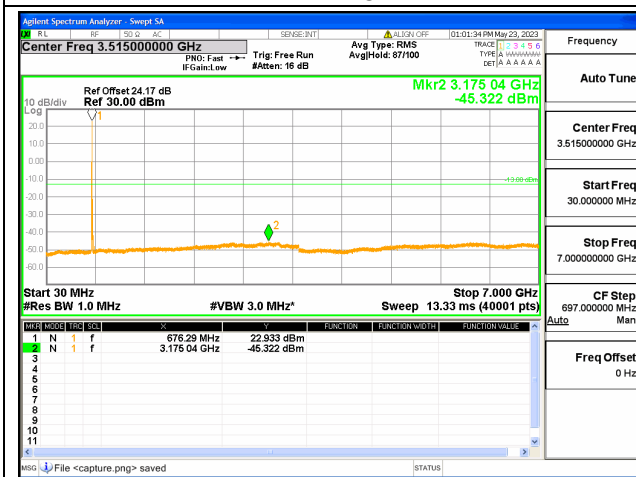
Band71 / 5MHz / Mid CH / QPSK



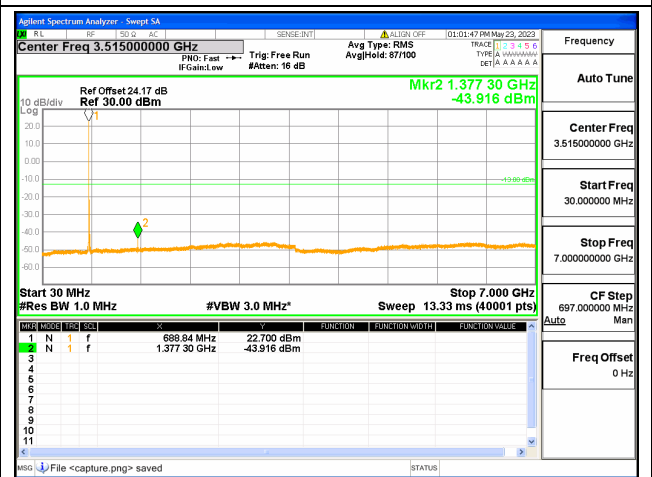
Band71 / 5MHz / High CH / QPSK



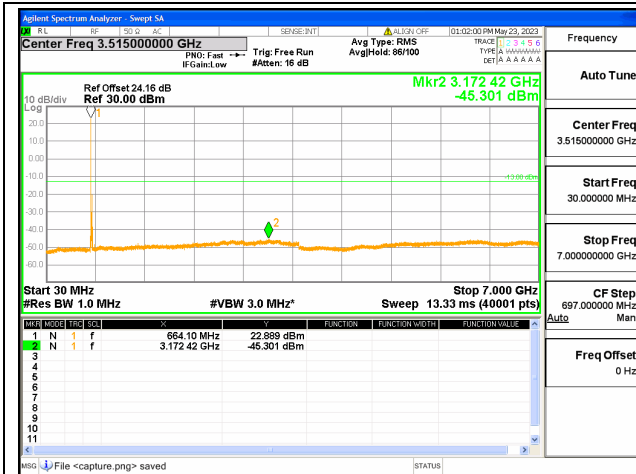
Band71 / 10MHz / Low CH / QPSK



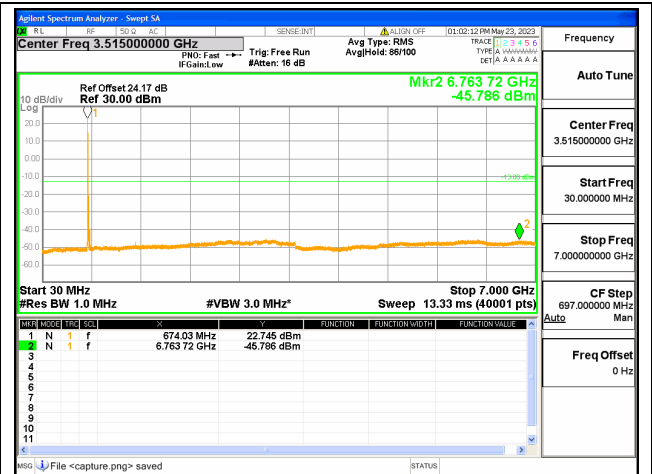
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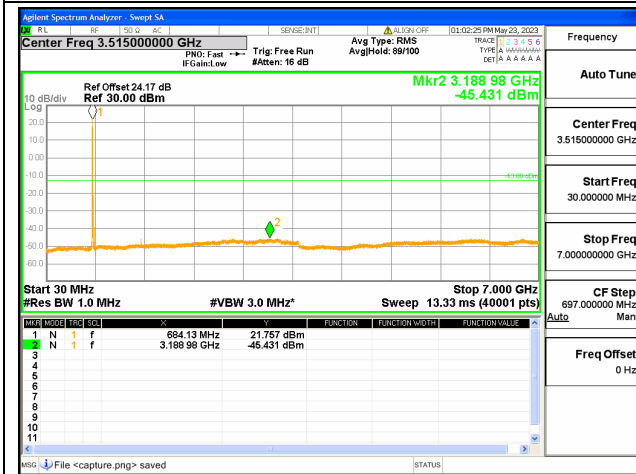
Band71 / 10MHz / High CH / QPSK



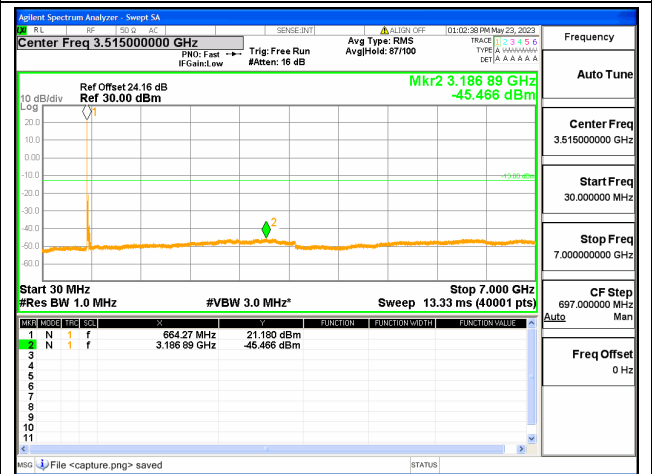
Band71 / 15MHz / Low CH / QPSK



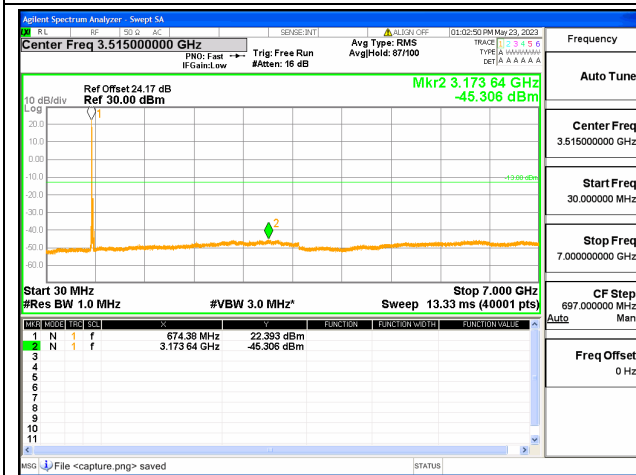
Band71 / 15MHz / Mid CH / QPSK



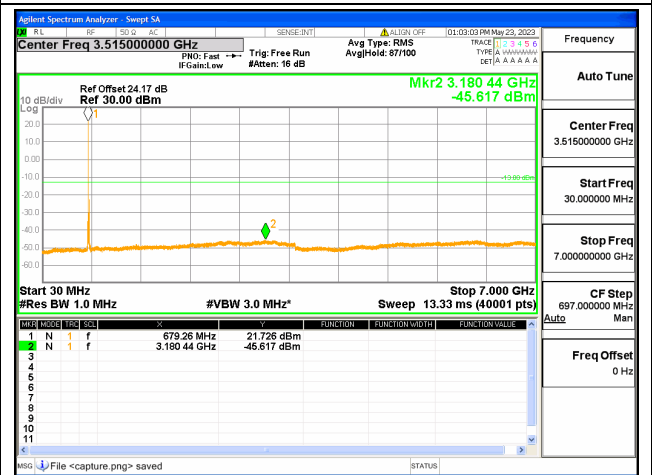
Band71 / 15MHz / High CH / QPSK



Band71 / 20MHz / Low CH / QPSK



Band71 / 20MHz / Mid CH / QPSK



Band71 / 20MHz / High CH / QPSK



## 2.6. Band Edge

### 2.6.1. Requirement

#### Band 2, 25

According to FCC section 24.238(a), for operations in the 1850–1910MHz bands, 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 in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### Band 4, 66

According to FCC section 27.53(h), for operations in the 1710–1755MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### Band 5, 26

According to FCC section 22.917(a), for operations in the 824–849MHz bands, 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 in a 100kHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### Band 41

According to FCC section 27.53(m) (4), 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.

**Band 12, 17, 71**

According to FCC section 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a 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, by at least  $43 + 10 \log (P)$  dB. Compliance 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.

**Band 13**

According to FCC section 27.53(c)(2), 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 in a 100kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed.

**Band 14**

According to FCC section 90.543(e), for operations in the 758-768 MHz and the 788-798 MHz bands, 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:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.
- (2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least  $43 + 10 \log (P)$  dB.
- (3) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (4) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

**Band 30**

According to FCC section 27.53(a) (4), for mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

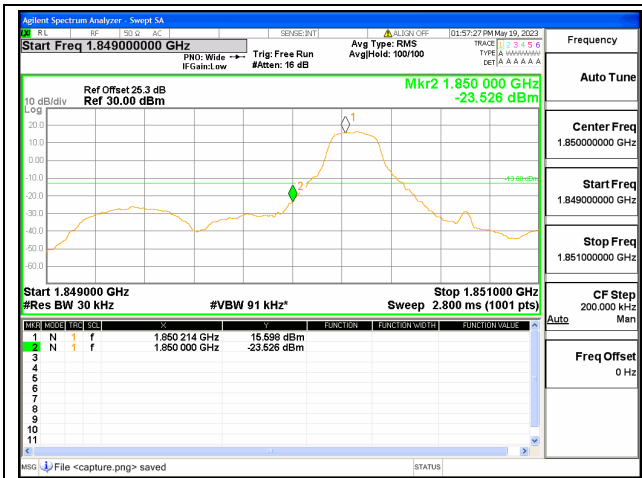
- (i) By a factor of not less than:  $43 + 10 \log (P)$  dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log (P)$  dB on all frequencies between 2320 and 2324 MHz and on all frequencies 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;



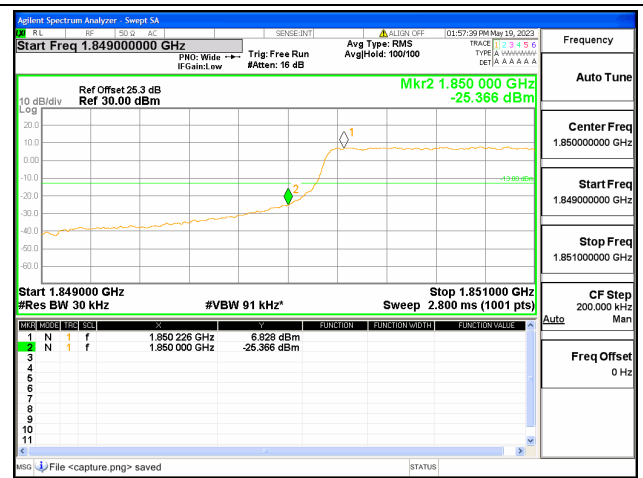




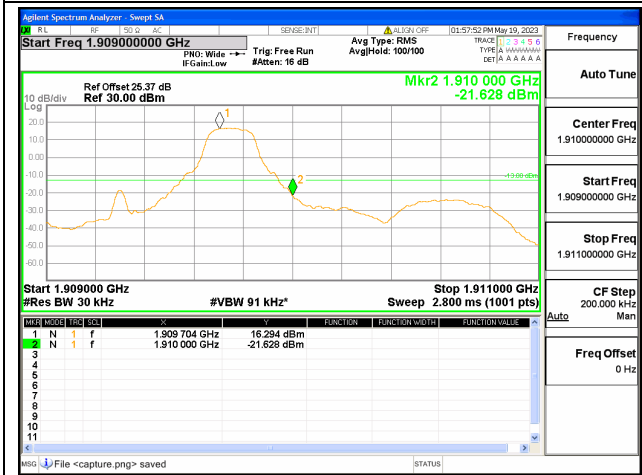
2.6.4. Test Result



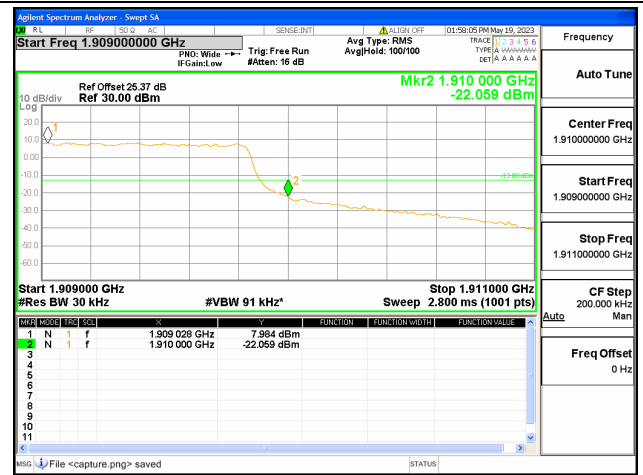
Band2 / 1.4MHz / Low CH / QPSK / 1 RB



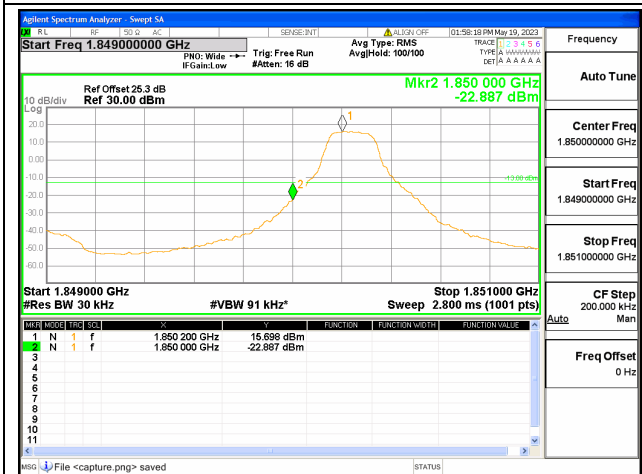
Band2 / 1.4MHz / Low CH / QPSK / FULL RB



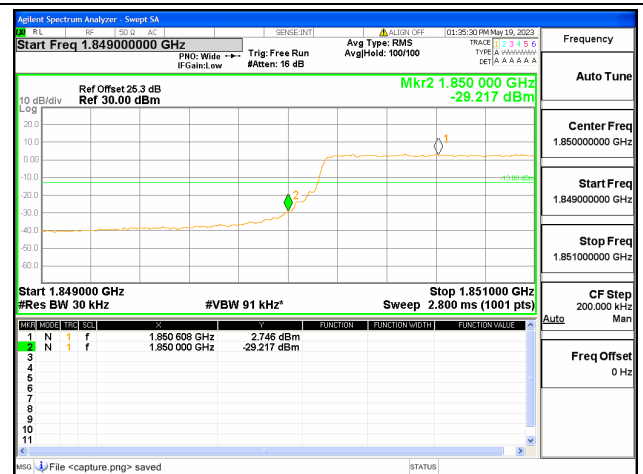
Band2 / 1.4MHz / High CH / QPSK / 1 RB



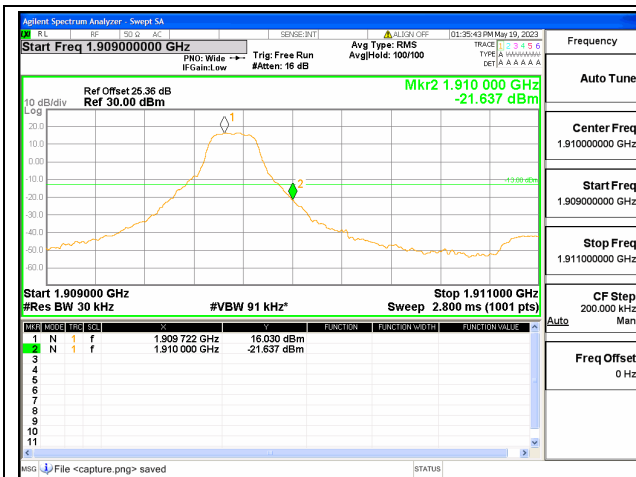
Band2 / 1.4MHz / High CH / QPSK / FULL RB



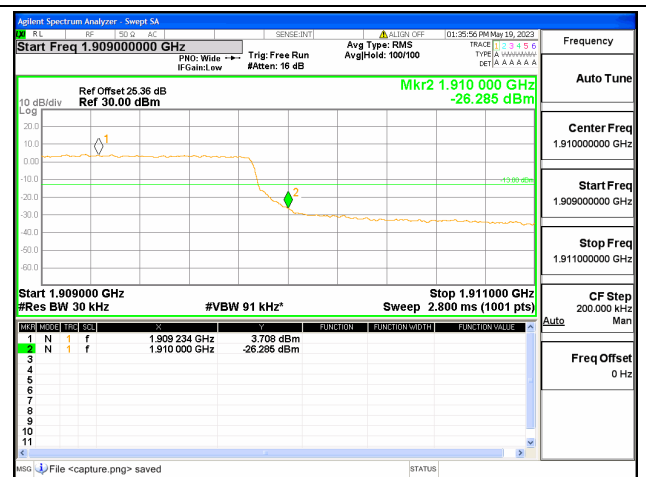
Band2 / 3MHz / Low CH / QPSK / 1 RB



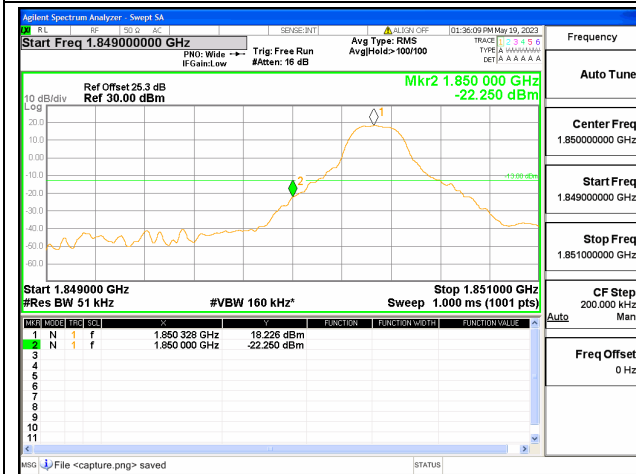
Band2 / 3MHz / Low CH / QPSK / FULL RB



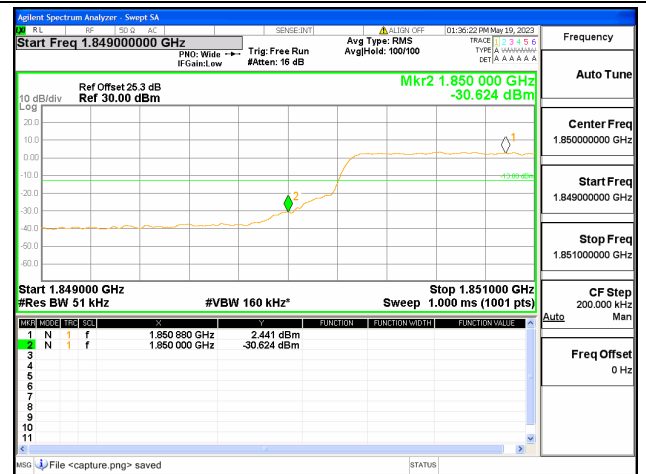
Band2 / 3MHz / High CH / QPSK / 1 RB



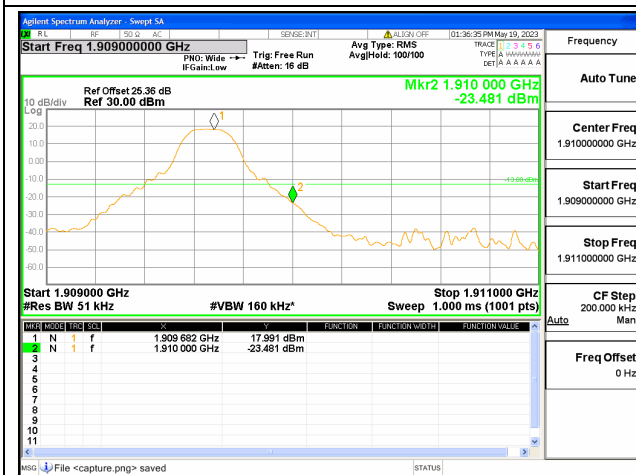
Band2 / 3MHz / High CH / QPSK / FULL RB



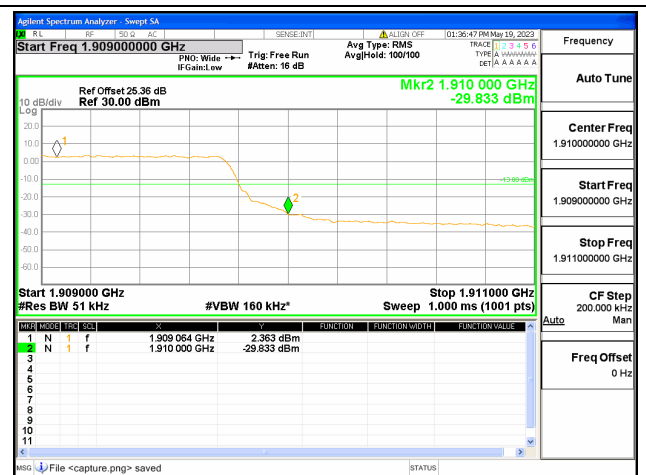
Band2 / 5MHz / Low CH / QPSK / 1 RB



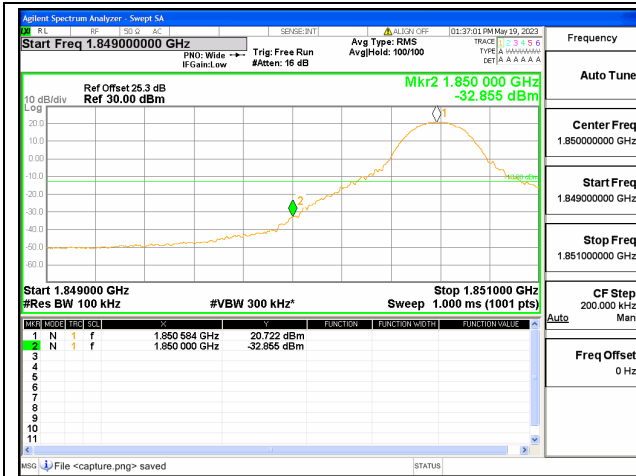
Band2 / 5MHz / Low CH / QPSK / FULL RB



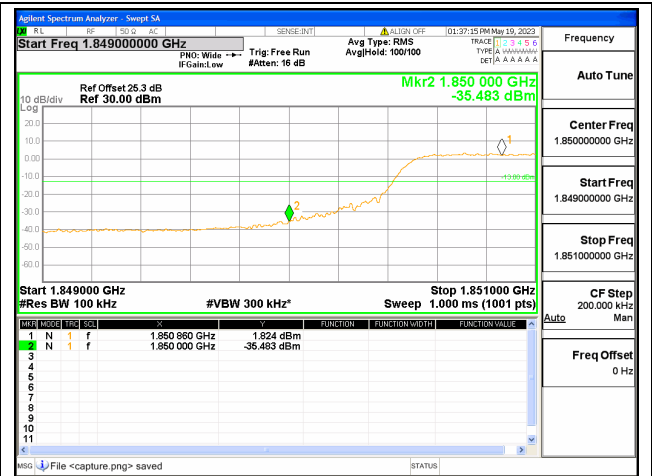
Band2 / 5MHz / High CH / QPSK / 1 RB



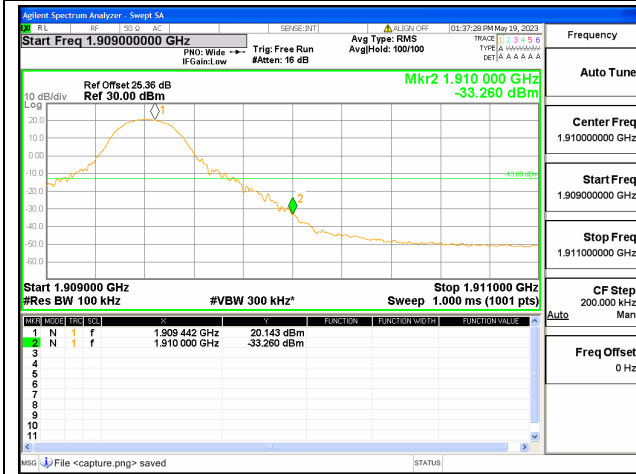
Band2 / 5MHz / High CH / QPSK / FULL RB



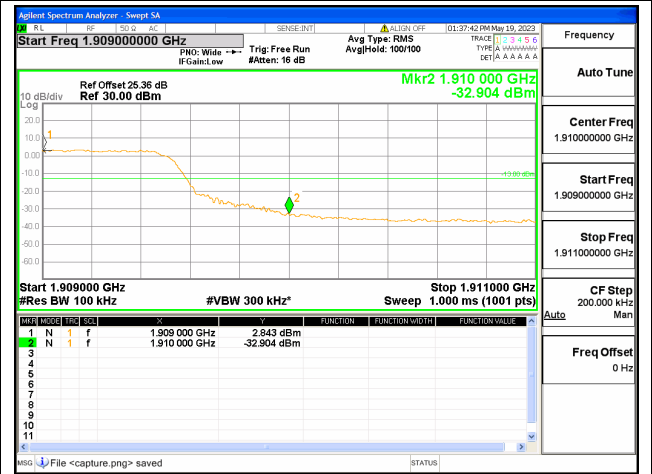
Band2 / 10MHz / Low CH / QPSK / 1 RB



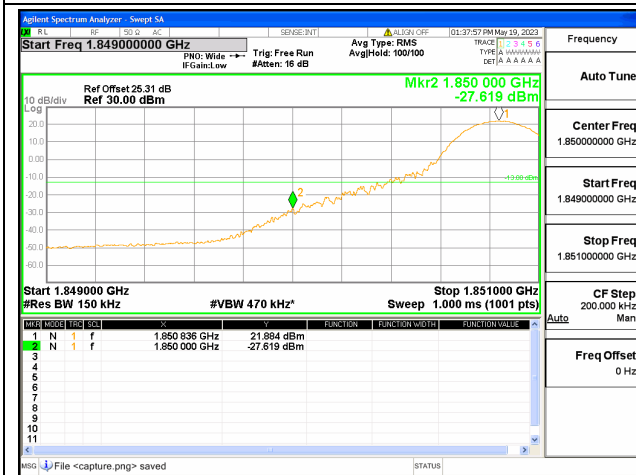
Band2 / 10MHz / Low CH / QPSK / FULL RB



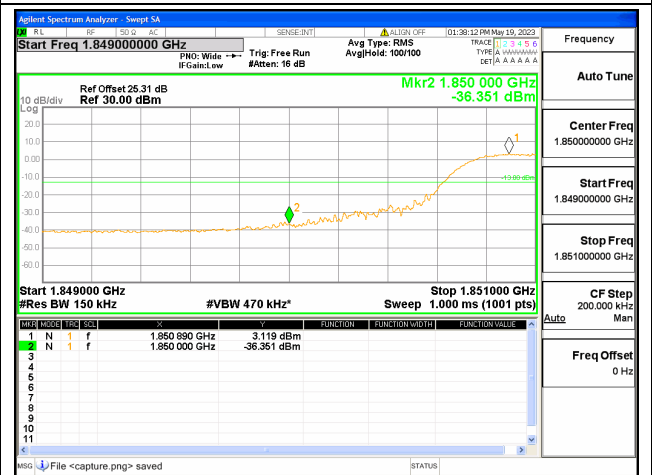
Band2 / 10MHz / High CH / QPSK / 1 RB



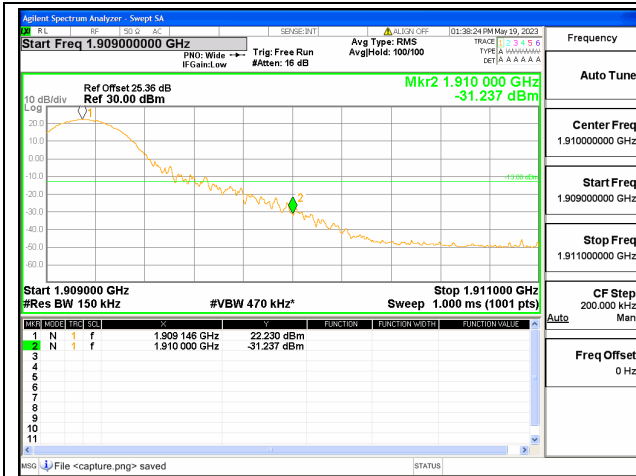
Band2 / 10MHz / High CH / QPSK / FULL RB



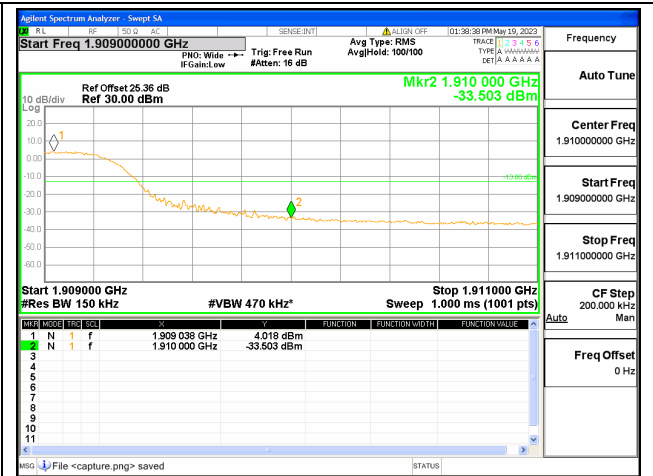
Band2 / 15MHz / Low CH / QPSK / 1 RB



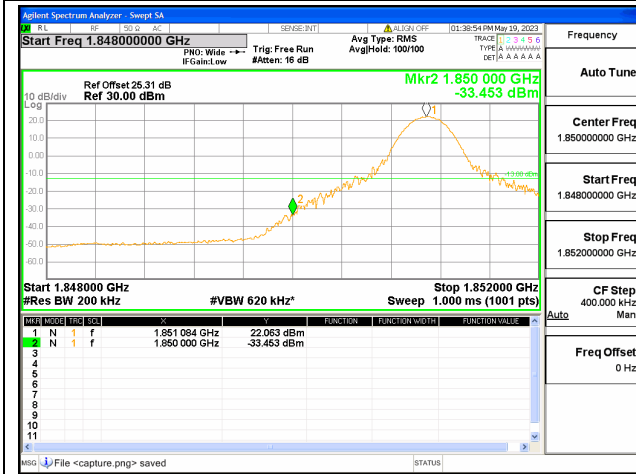
Band2 / 15MHz / Low CH / QPSK / FULL RB



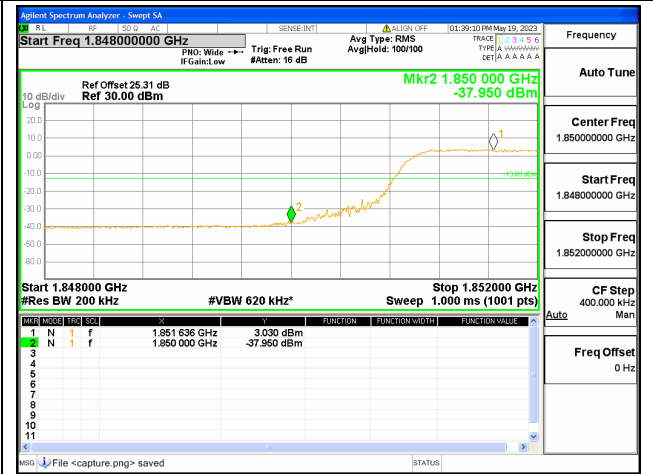
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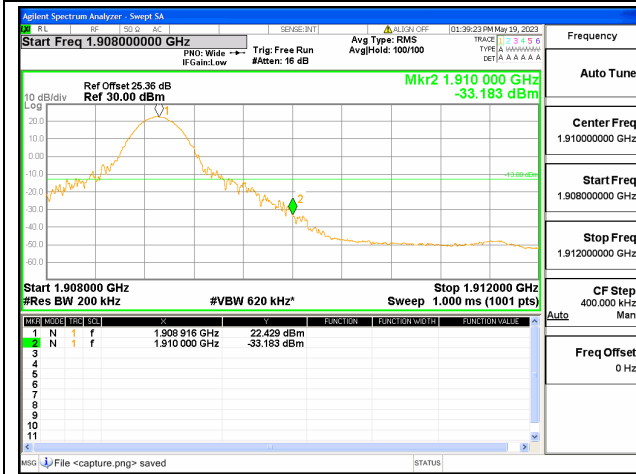
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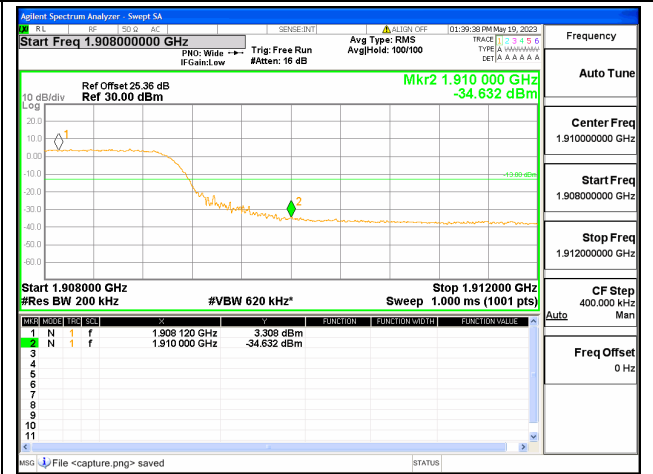
Band2 / 20MHz / Low CH / QPSK / 1 RB



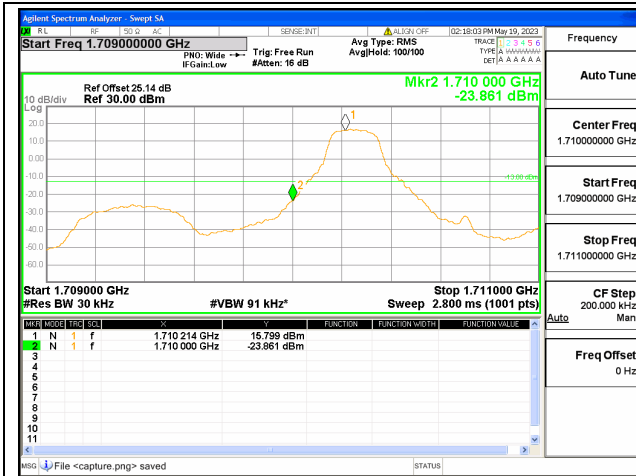
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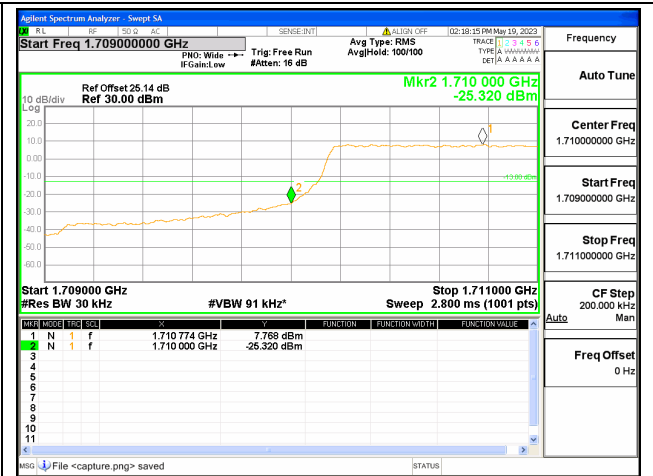
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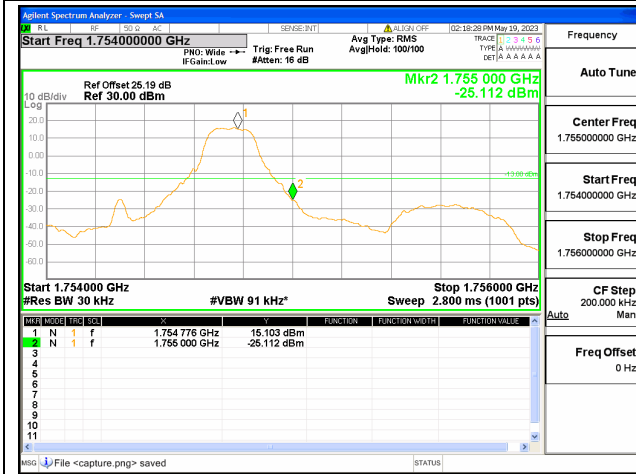
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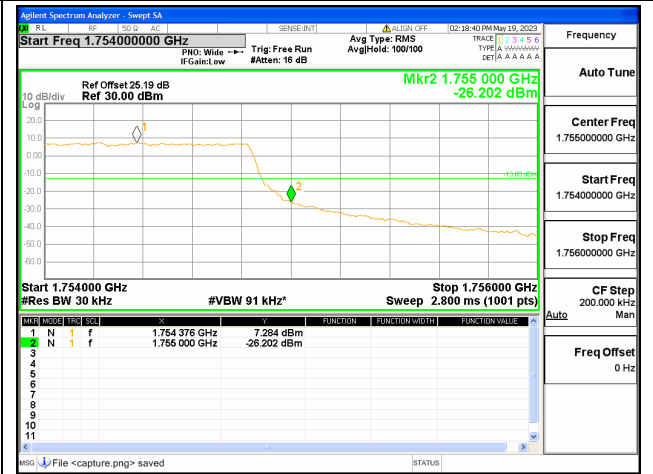
Band4 / 1.4MHz / Low CH / QPSK / 1 RB



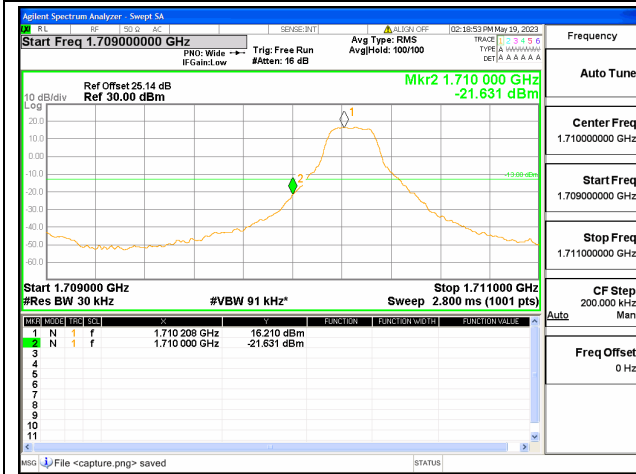
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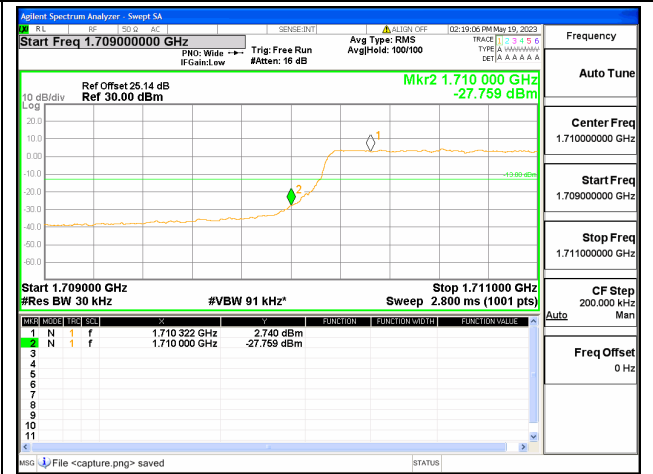
Band4 / 1.4MHz / High CH / QPSK / 1 RB



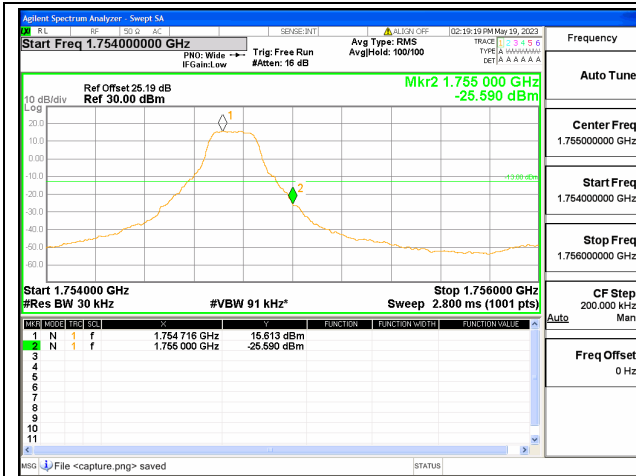
Band4 / 1.4MHz / High CH / QPSK / FULL RB



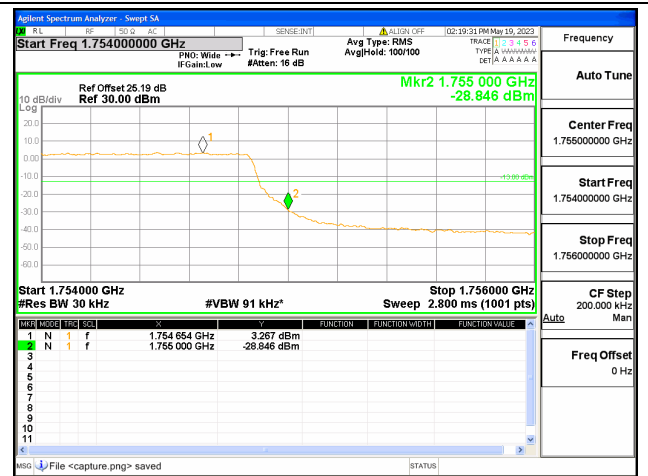
Band4 / 3MHz / Low CH / QPSK / 1 RB



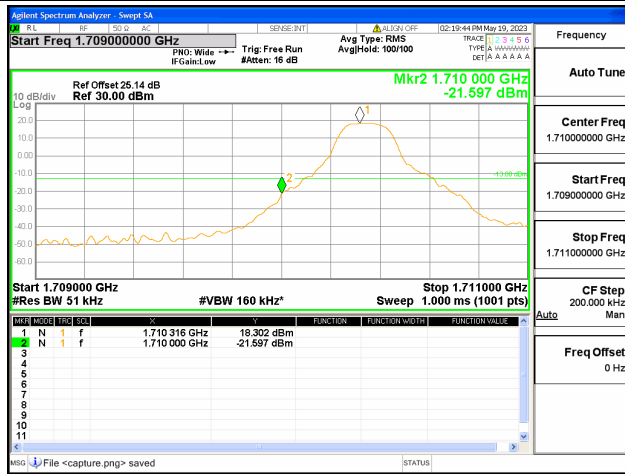
Band4 / 3MHz / Low CH / QPSK / FULL RB



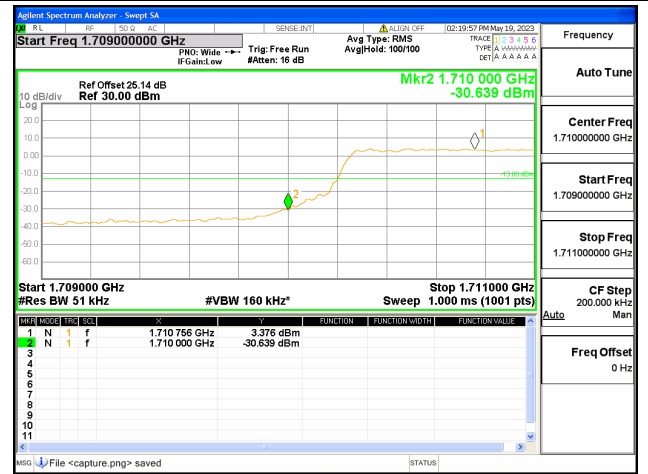
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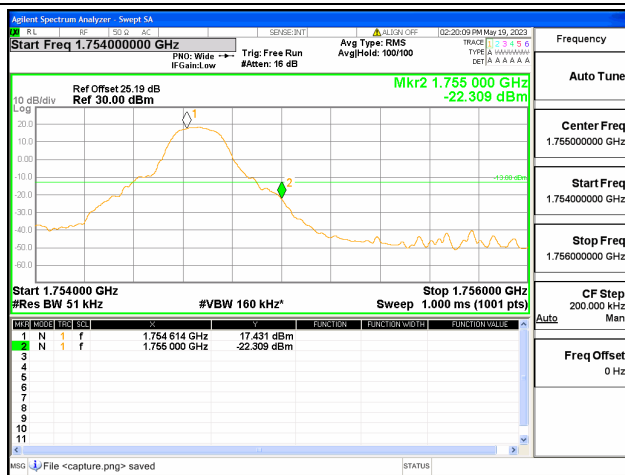
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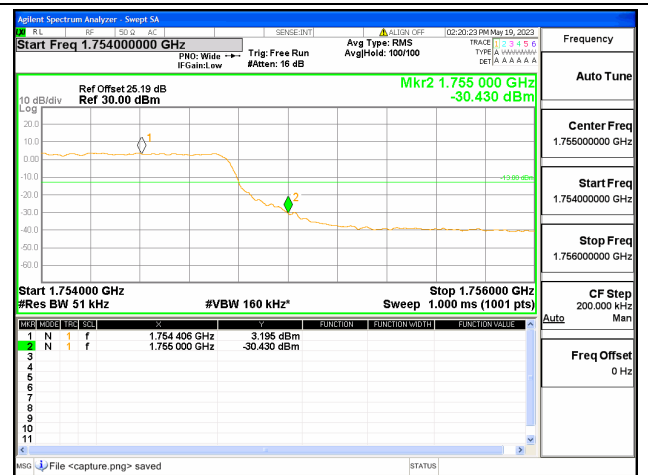
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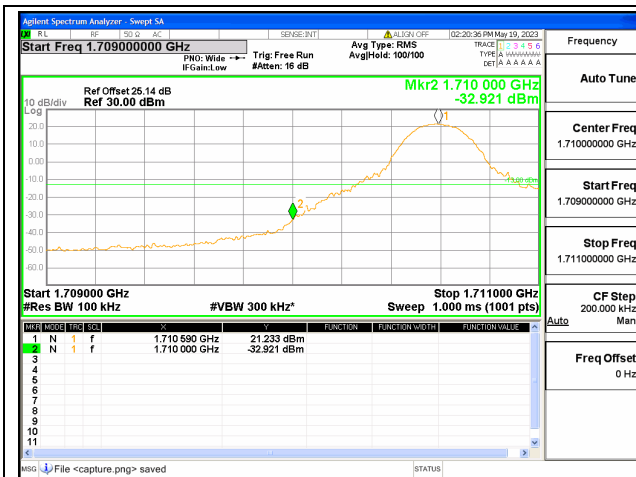
Band4 / 5MHz / Low CH / QPSK / FULL RB



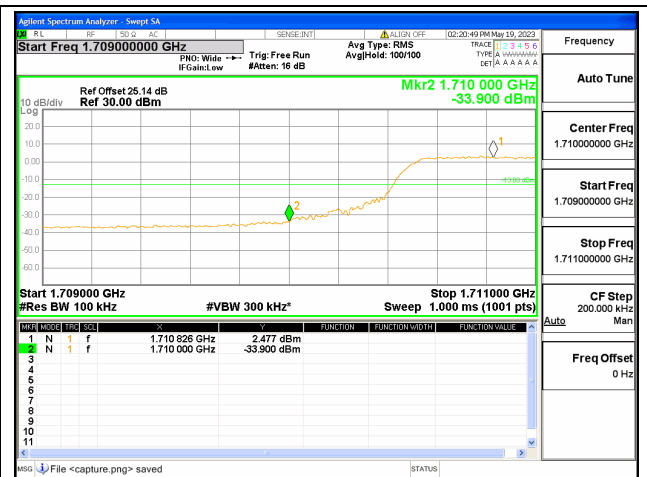
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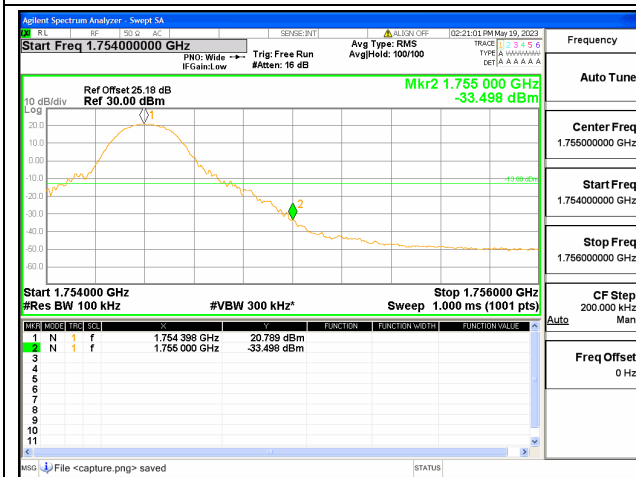
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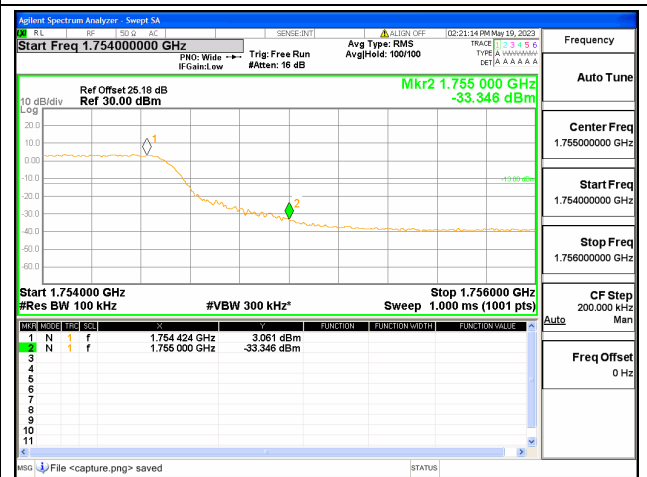
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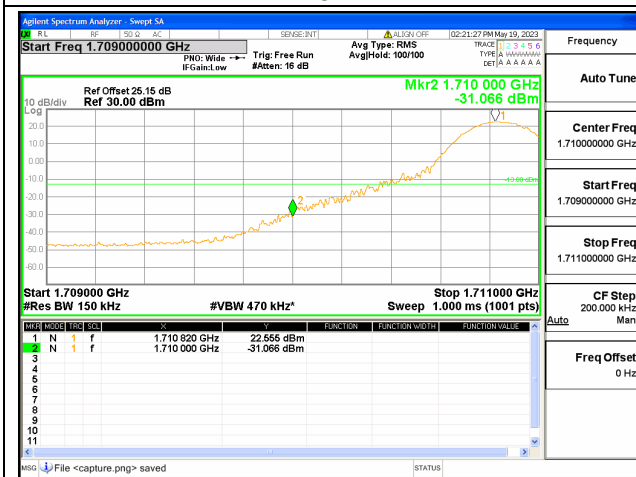
Band4 / 10MHz / Low CH / QPSK / FULL RB



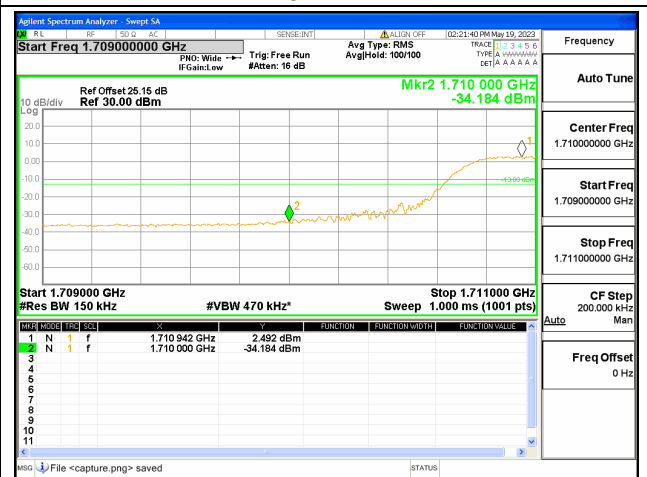
Band4 / 10MHz / High CH / QPSK / 1 RB



Band4 / 10MHz / High CH / QPSK / FULL RB

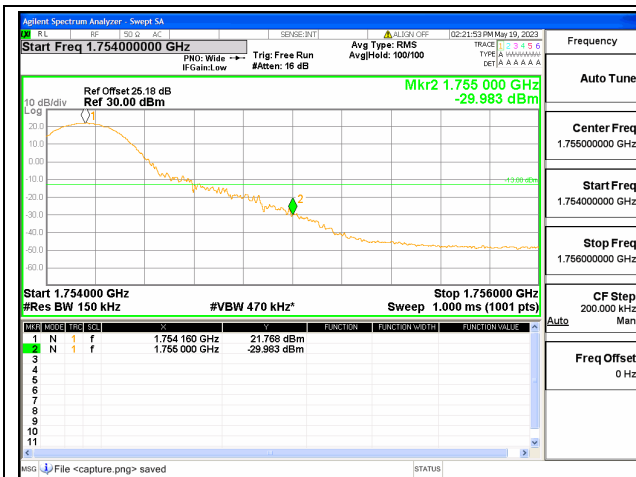


Band4 / 15MHz / Low CH / QPSK / 1 RB

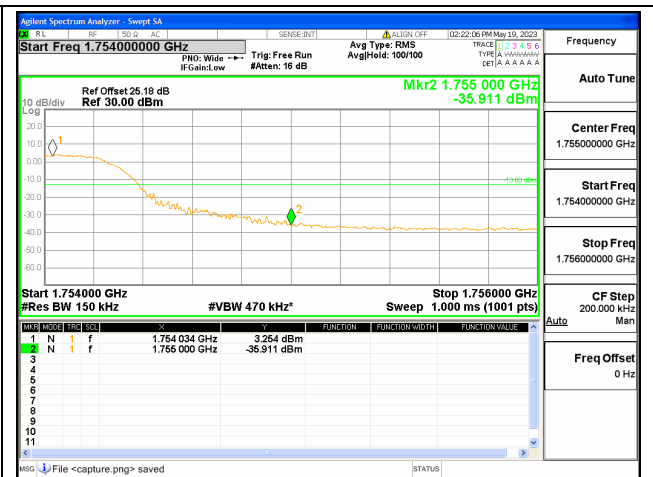


Band4 / 15MHz / Low CH / QPSK / FULL RB

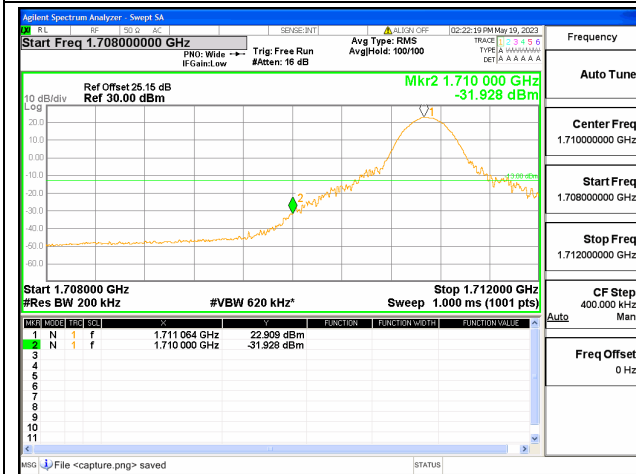




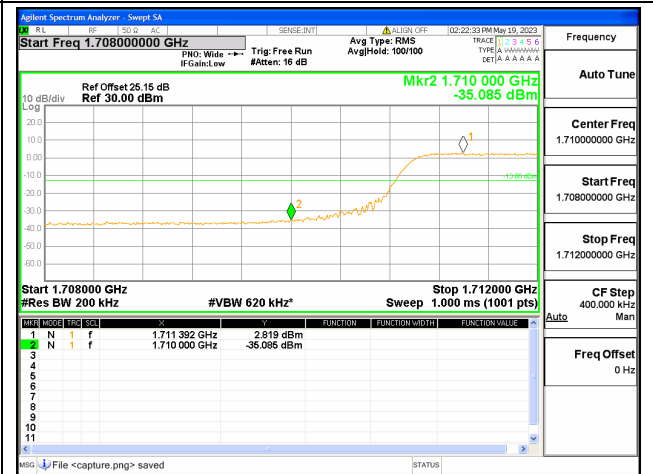
Band4 / 15MHz / High CH / QPSK / 1 RB



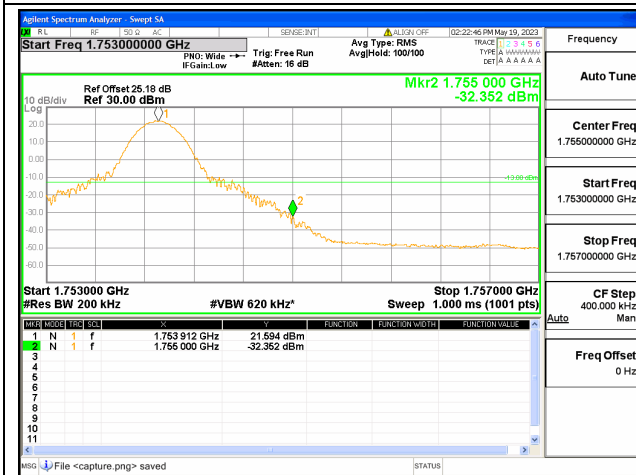
Band4 / 15MHz / High CH / QPSK / FULL RB



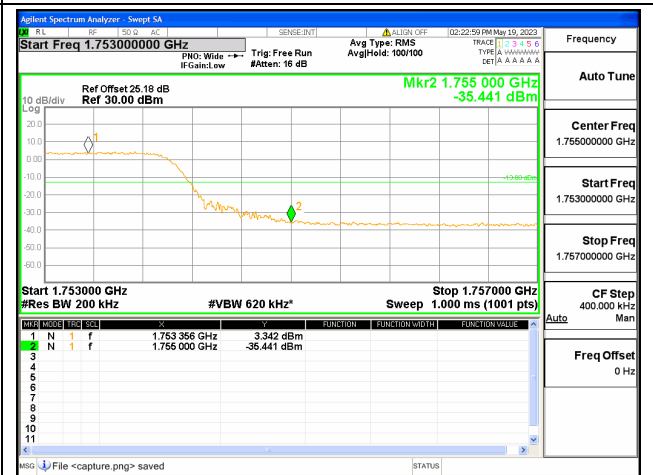
Band4 / 20MHz / Low CH / QPSK / 1 RB



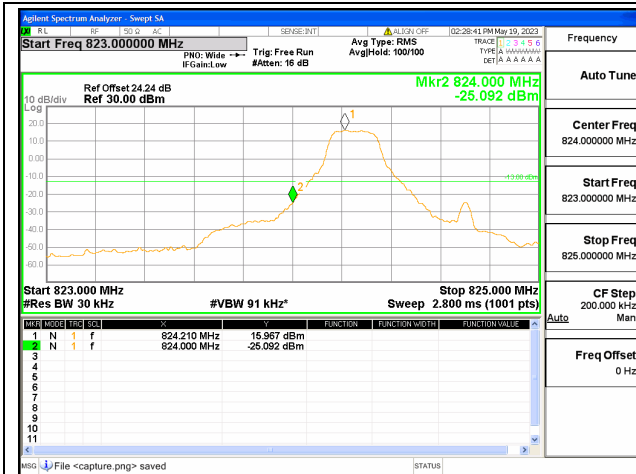
Band4 / 20MHz / Low CH / QPSK / FULL RB



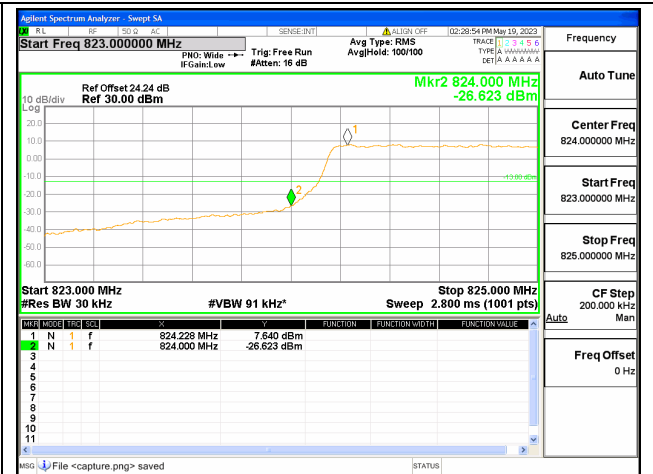
Band4 / 20MHz / High CH / QPSK / 1 RB



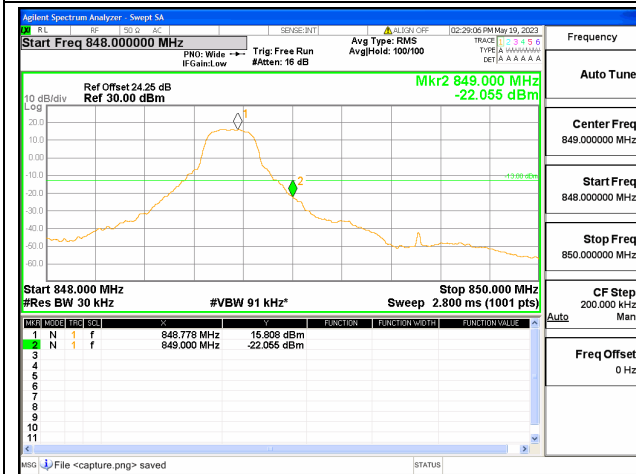
Band4 / 20MHz / High CH / QPSK / FULL RB



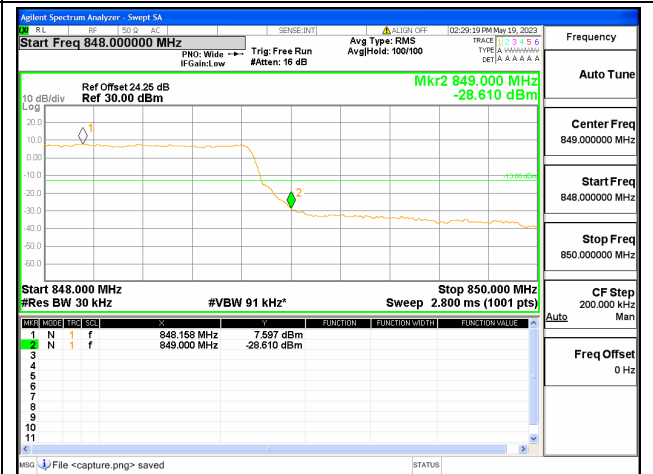
Band5 / 1.4MHz / Low CH / QPSK / 1 RB



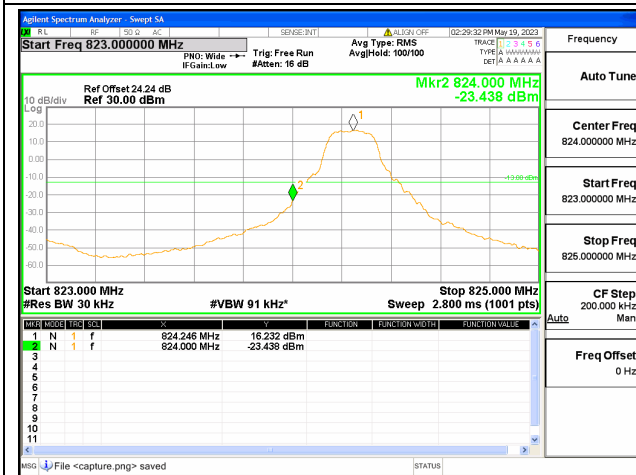
Band5 / 1.4MHz / Low CH / QPSK / FULL RB



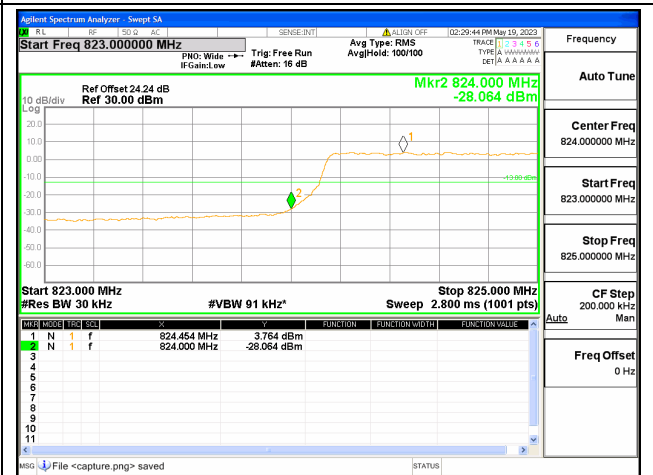
Band5 / 1.4MHz / High CH / QPSK / 1 RB



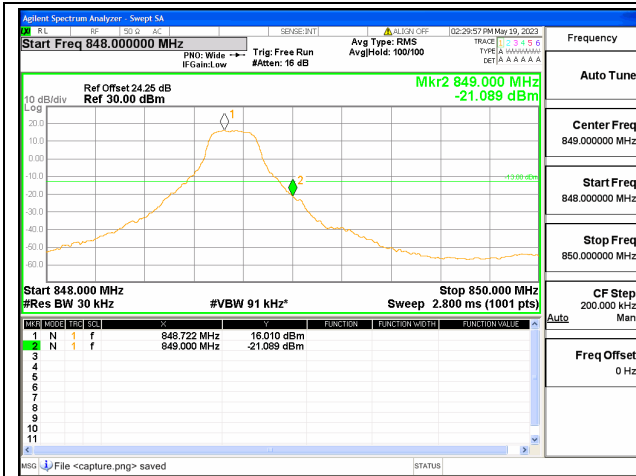
Band5 / 1.4MHz / High CH / QPSK / FULL RB



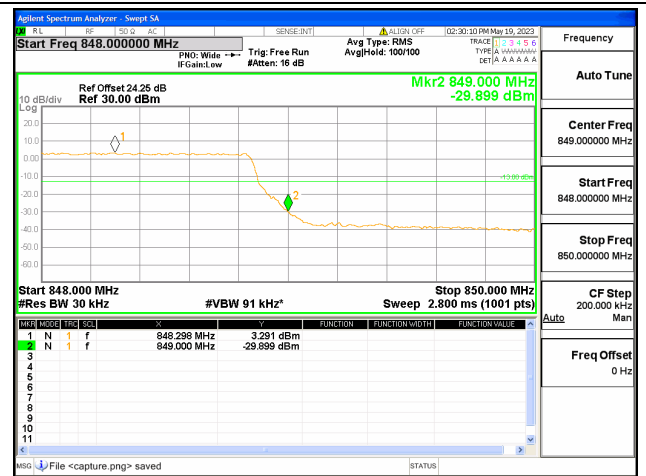
Band5 / 3MHz / Low CH / QPSK / 1 RB



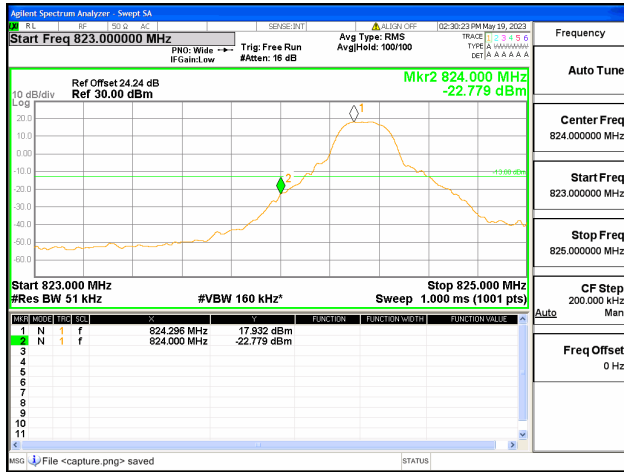
Band5 / 3MHz / Low CH / QPSK / FULL RB



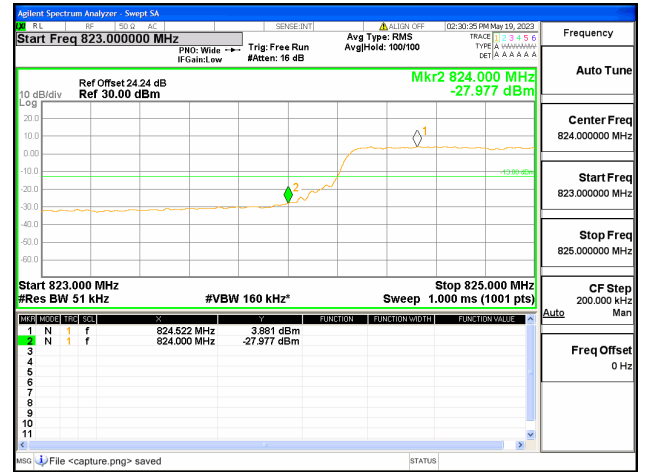
Band5 / 3MHz / High CH / QPSK / 1 RB



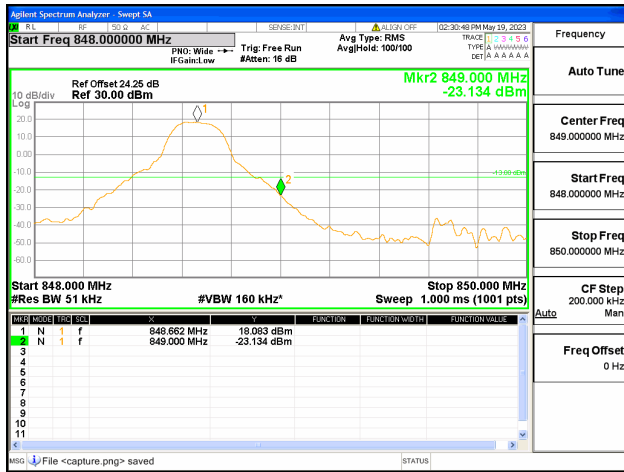
Band5 / 3MHz / High CH / QPSK / FULL RB



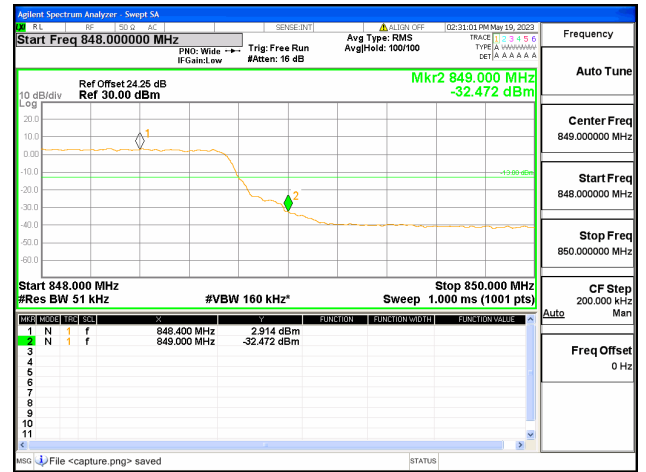
Band5 / 5MHz / Low CH / QPSK / 1 RB



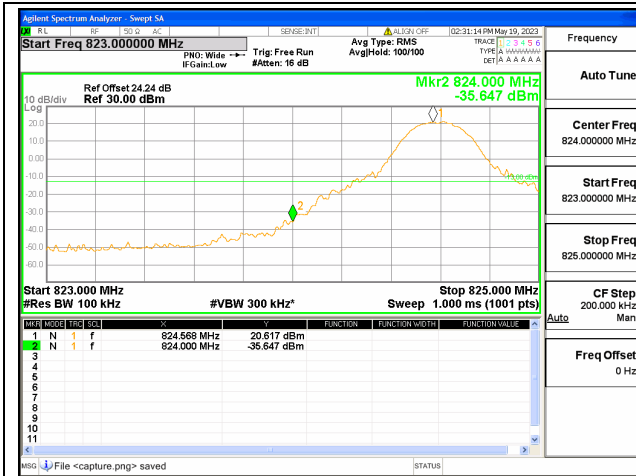
Band5 / 5MHz / Low CH / QPSK / FULL RB



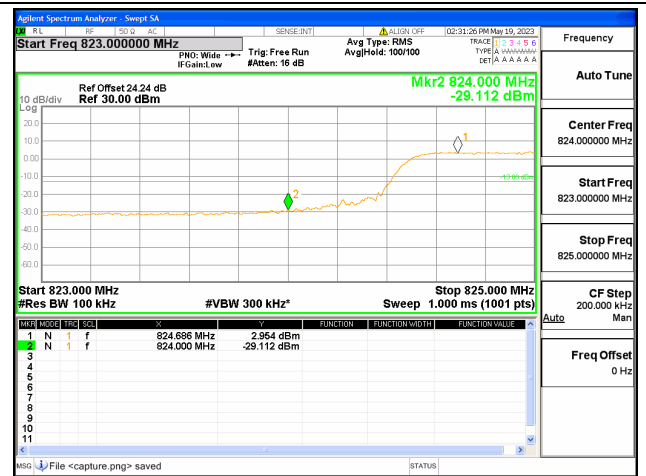
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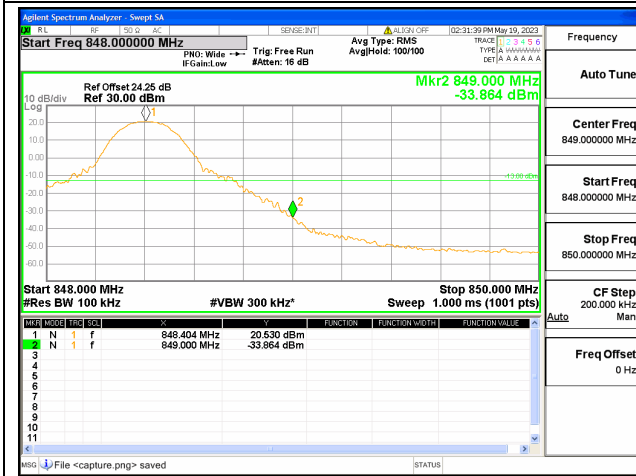
Band5 / 5MHz / High CH / QPSK / FULL RB



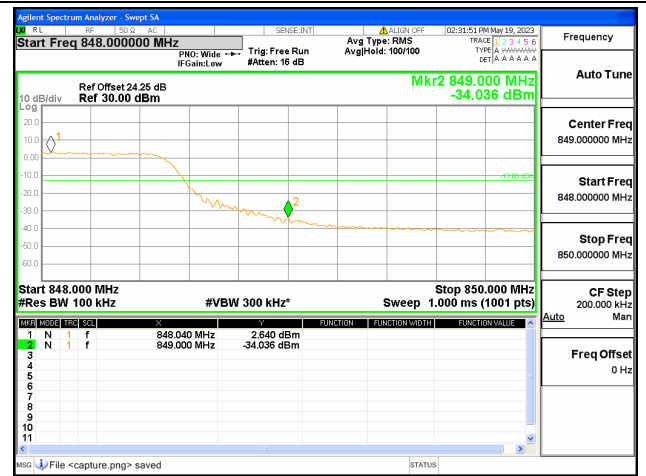
Band5 / 10MHz / Low CH / QPSK / 1 RB



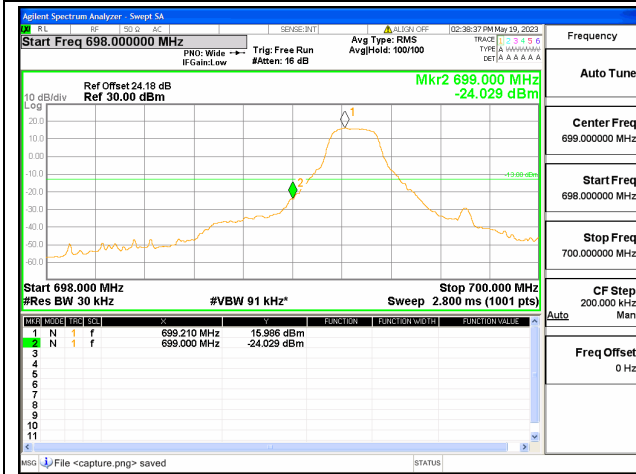
Band5 / 10MHz / Low CH / QPSK / FULL RB



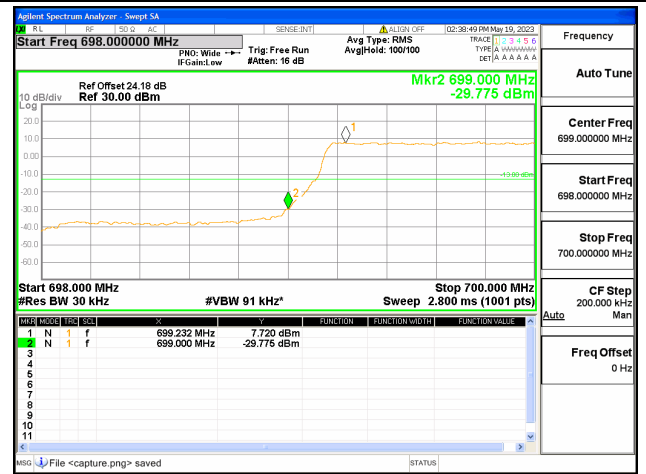
Band5 / 10MHz / High CH / QPSK / 1 RB



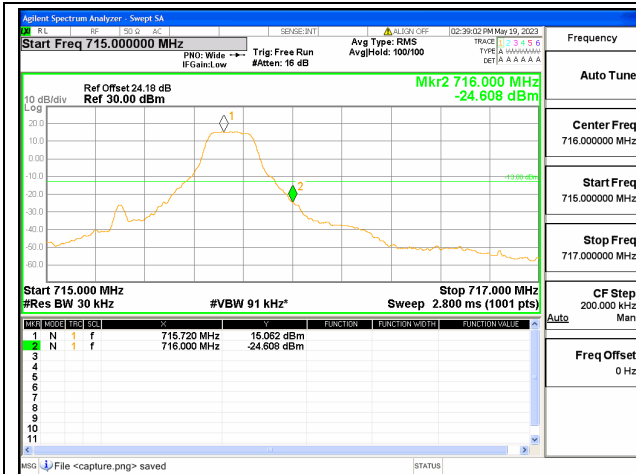
Band5 / 10MHz / High CH / QPSK / FULL RB



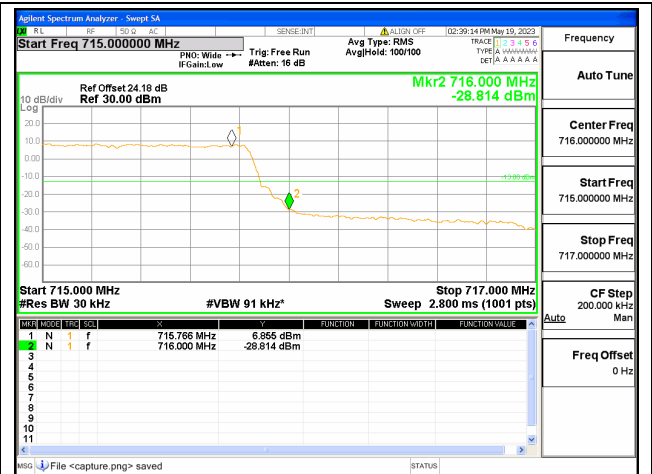
Band12 / 1.4MHz / Low CH / QPSK / 1 RB



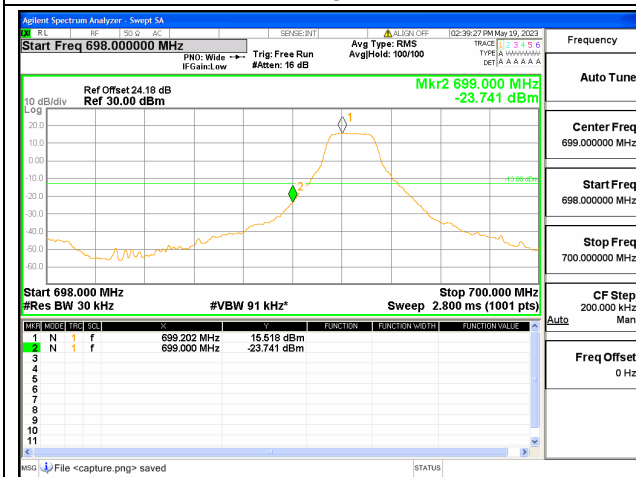
Band12 / 1.4MHz / Low CH / QPSK / FULL RB



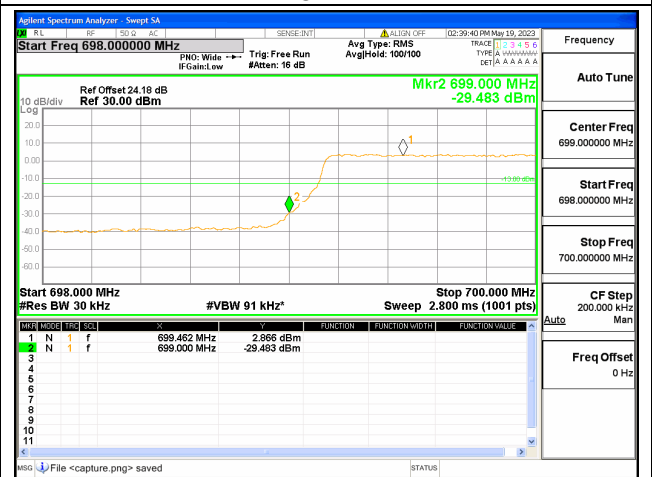
Band12 / 1.4MHz / High CH / QPSK / 1 RB



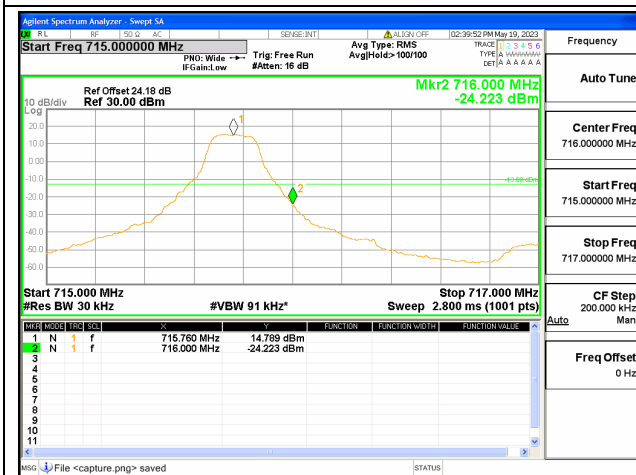
Band12 / 1.4MHz / High CH / QPSK / FULL RB



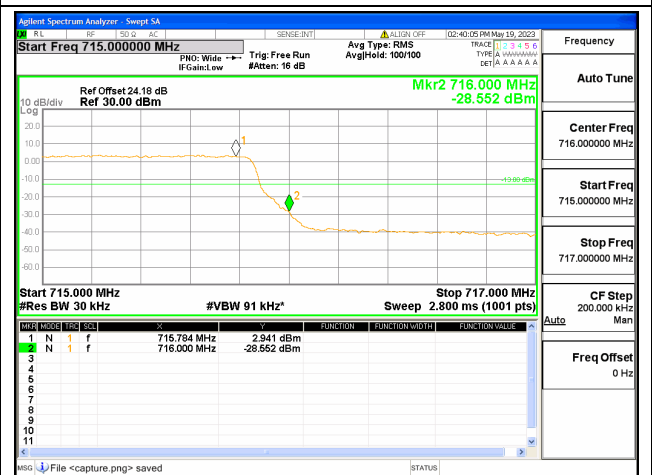
Band12 / 3MHz / Low CH / QPSK / 1 RB



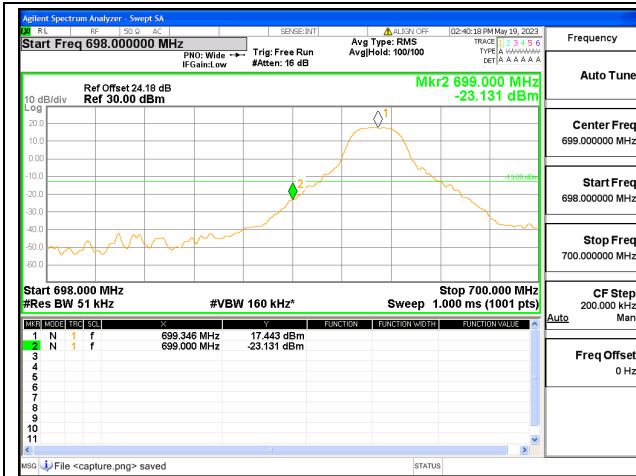
Band12 / 3MHz / Low CH / QPSK / FULL RB



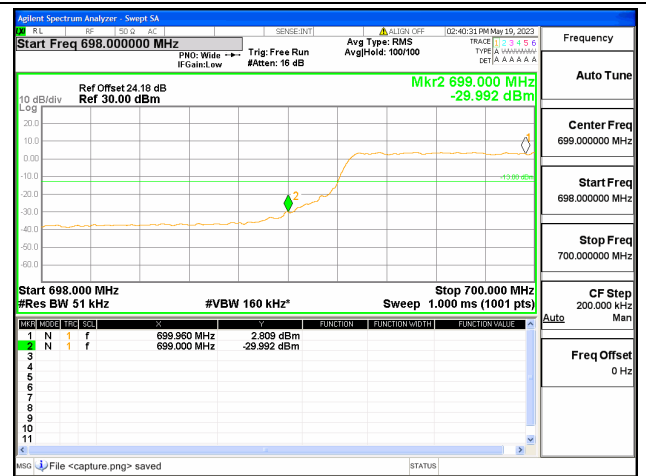
Band12 / 3MHz / High CH / QPSK / 1 RB



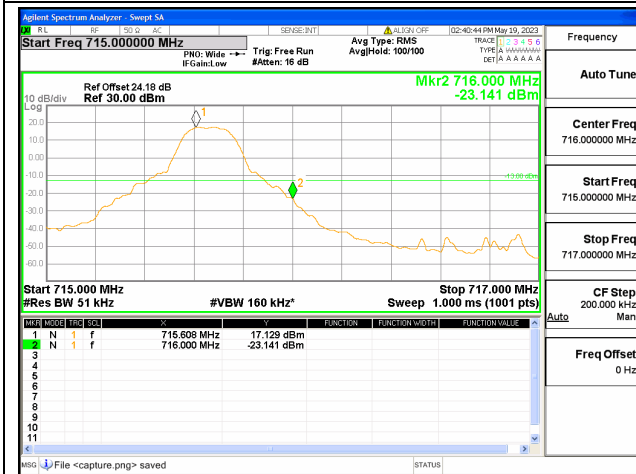
Band12 / 3MHz / High CH / QPSK / FULL RB



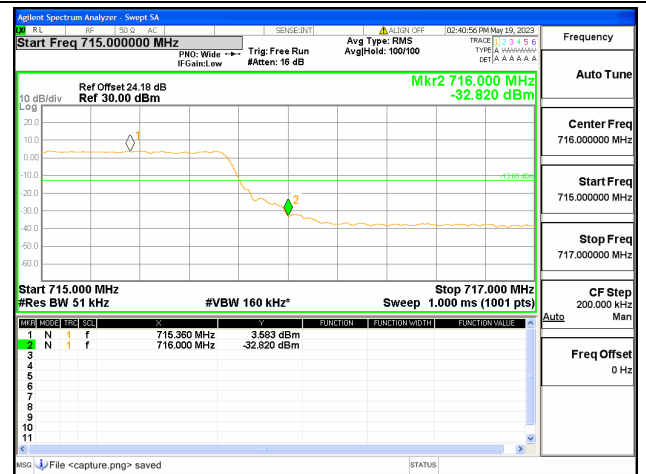
Band12 / 5MHz / Low CH / QPSK / 1 RB



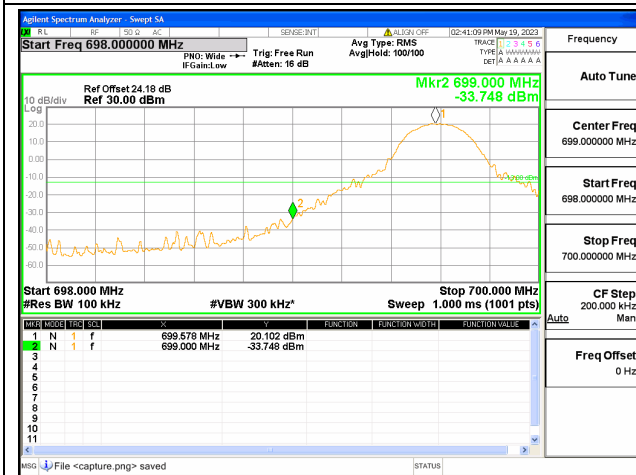
Band12 / 5MHz / Low CH / QPSK / FULL RB



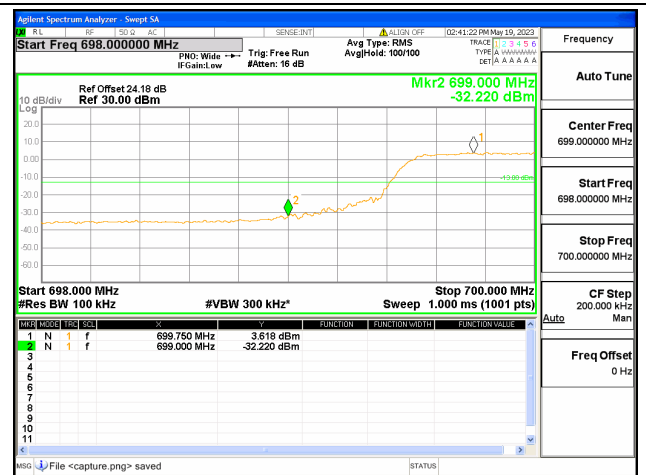
Band12 / 5MHz / High CH / QPSK / 1 RB



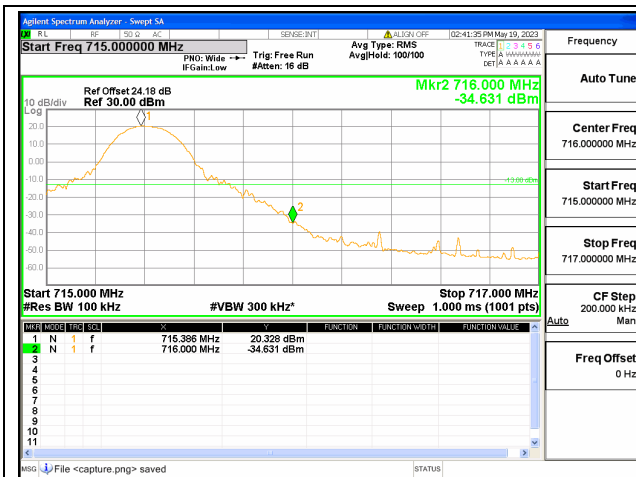
Band12 / 5MHz / High CH / QPSK / FULL RB



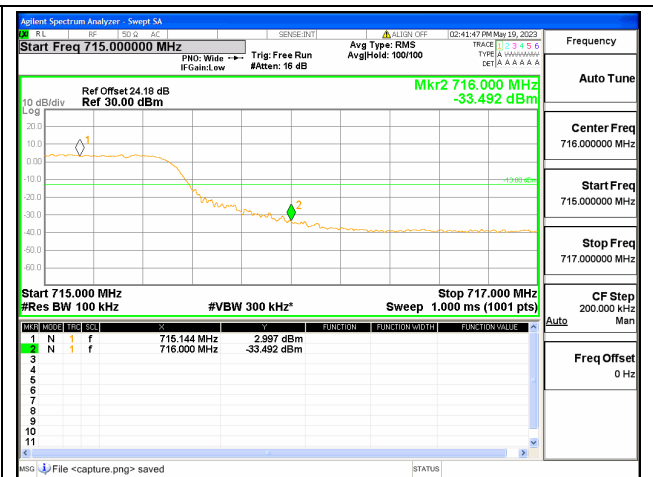
Band12 / 10MHz / Low CH / QPSK / 1 RB



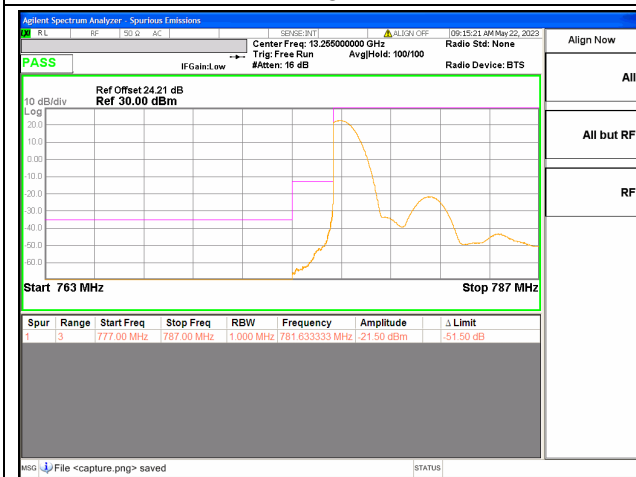
Band12 / 10MHz / Low CH / QPSK / FULL RB



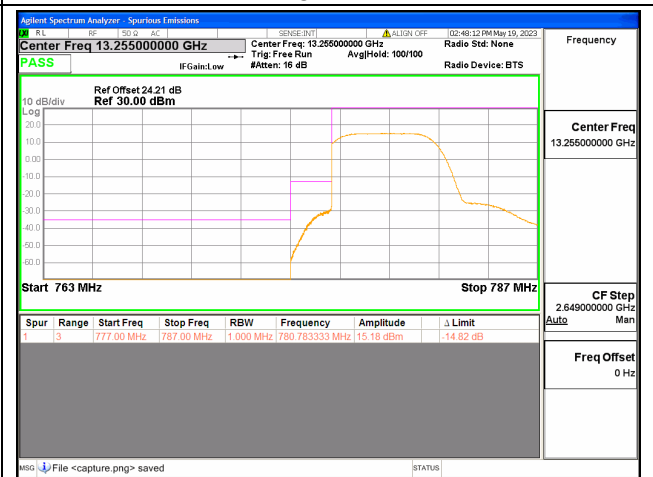
Band12 / 10MHz / High CH / QPSK / 1 RB



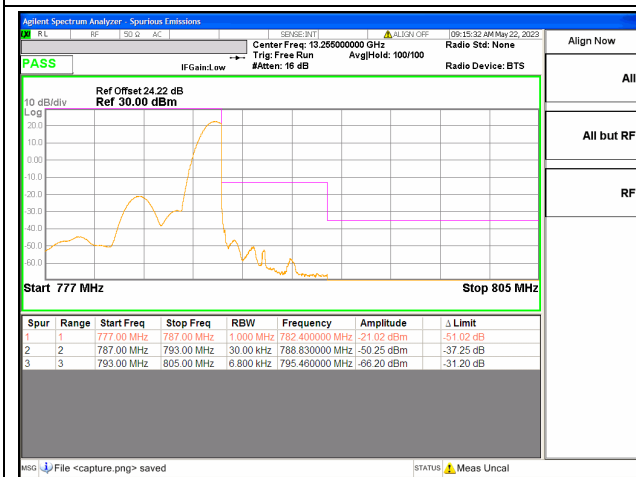
Band12 / 10MHz / High CH / QPSK / FULL RB



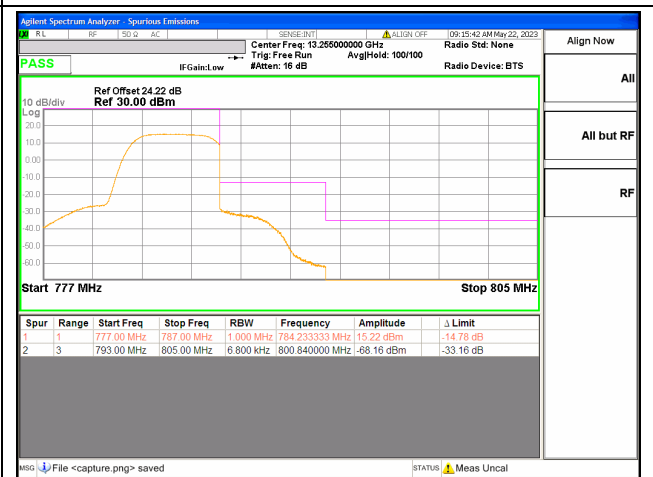
Band13 / 5MHz / Low CH / QPSK / 1 RB



Band13 / 5MHz / Low CH / QPSK / FULL RB



Band13 / 5MHz / High CH / QPSK / 1 RB



Band13 / 5MHz / High CH / QPSK / FULL RB