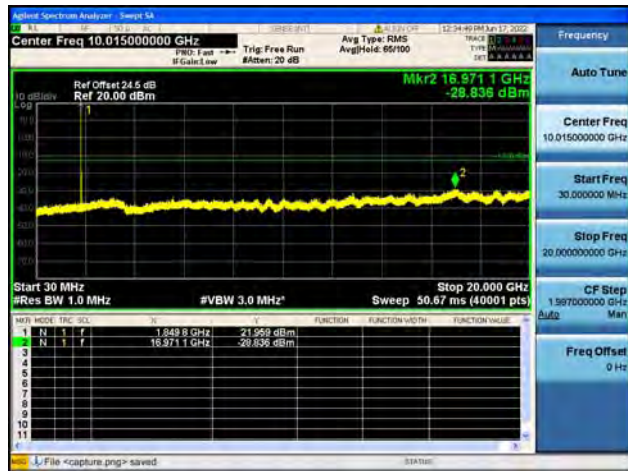
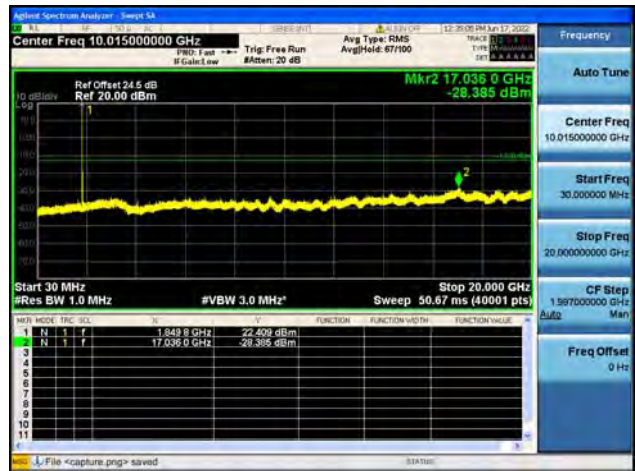




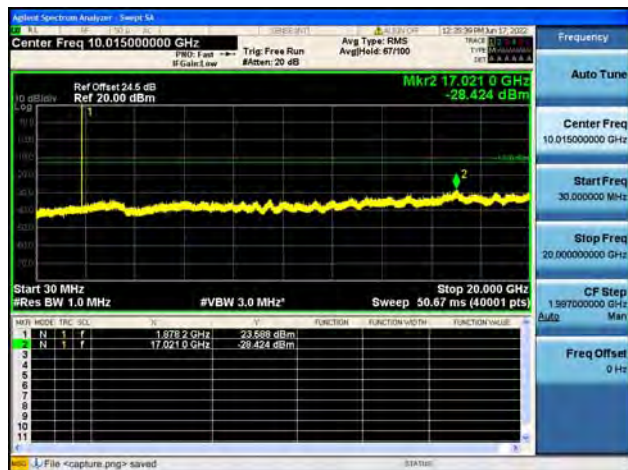
B2 / 3MHz / Low CH / QPSK



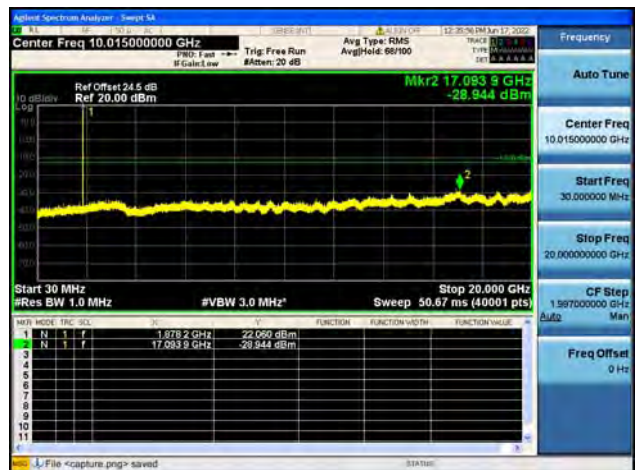
B2 / 3MHz / Low CH / 16QAM



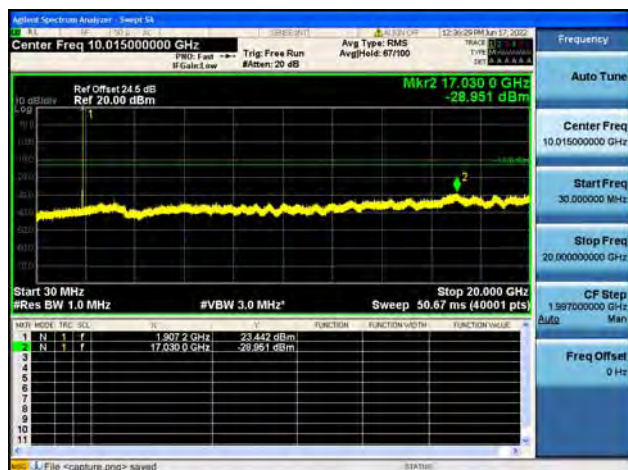
B2 / 3MHz / Mid CH / QPSK



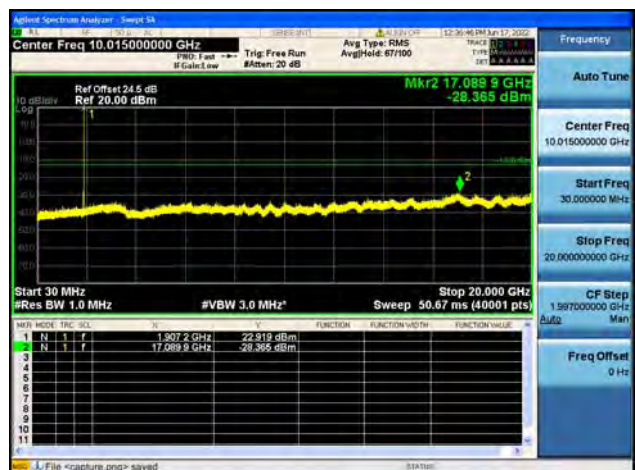
B2 / 3MHz / Mid CH / 16QAM



B2 / 3MHz / High CH / QPSK

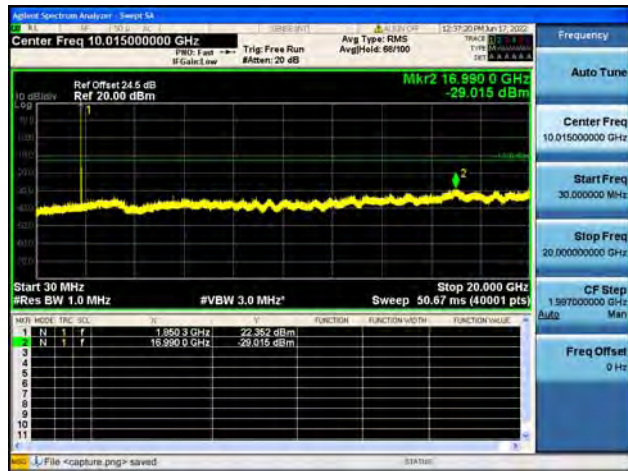


B2 / 3MHz / High CH / 16QAM





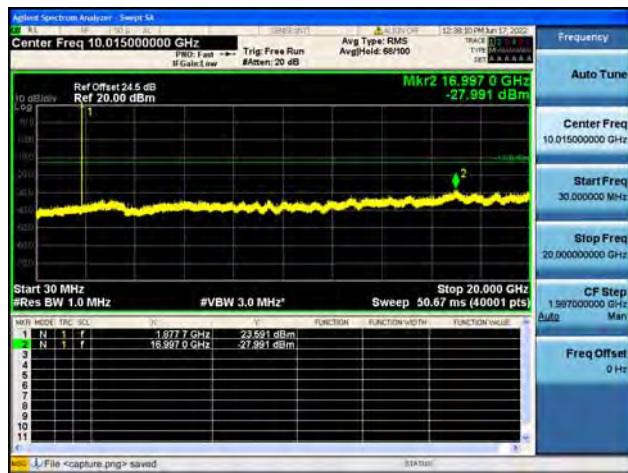
B2 / 5MHz / Low CH / QPSK



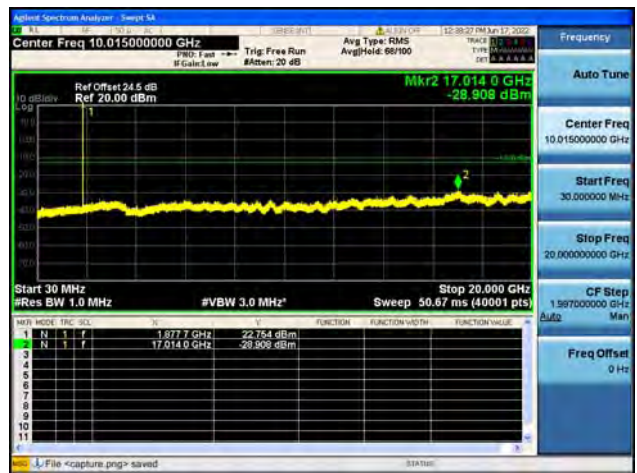
B2 / 5MHz / Low CH / 16QAM



B2 / 5MHz / Mid CH / QPSK



B2 / 5MHz / Mid CH / 16QAM



B2 / 5MHz / High CH / QPSK

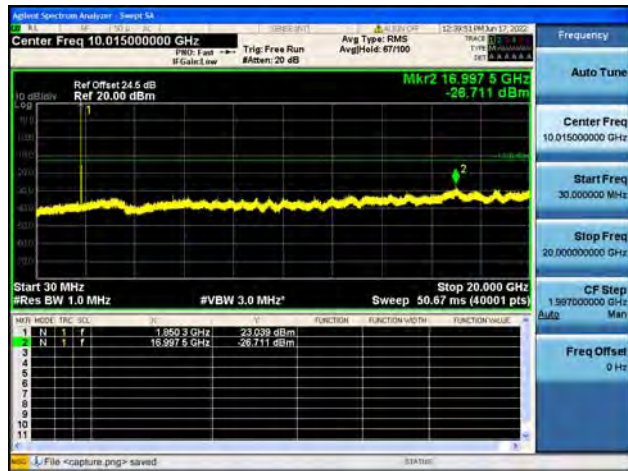


B2 / 5MHz / High CH / 16QAM

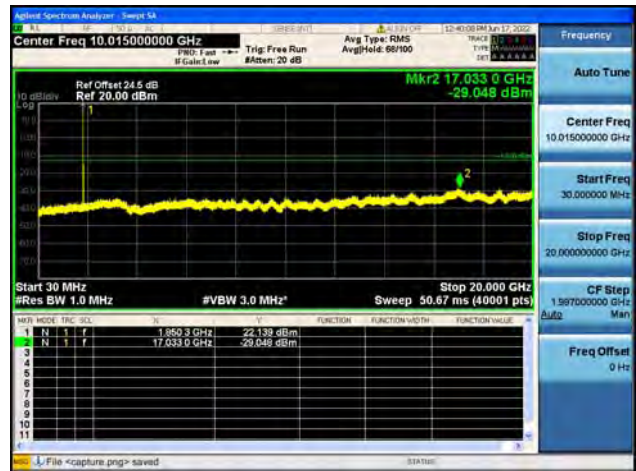




B2 / 10MHz / Low CH / QPSK



B2 / 10MHz / Low CH / 16QAM



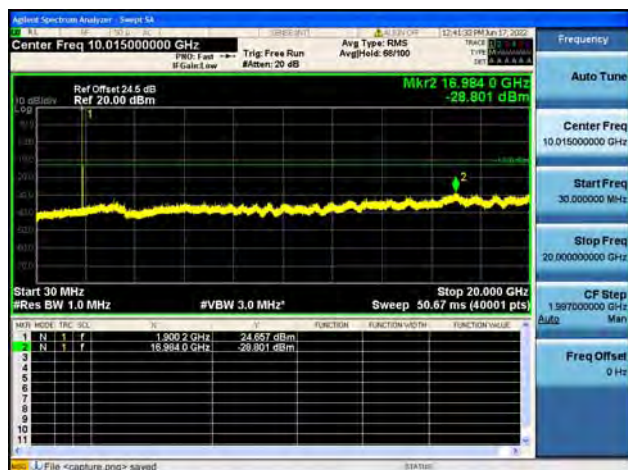
B2 / 10MHz / Mid CH / QPSK



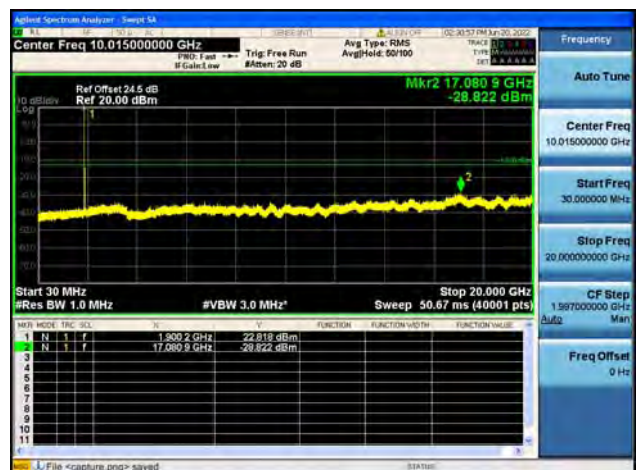
B2 / 10MHz / Mid CH / 16QAM



B2 / 10MHz / High CH / QPSK

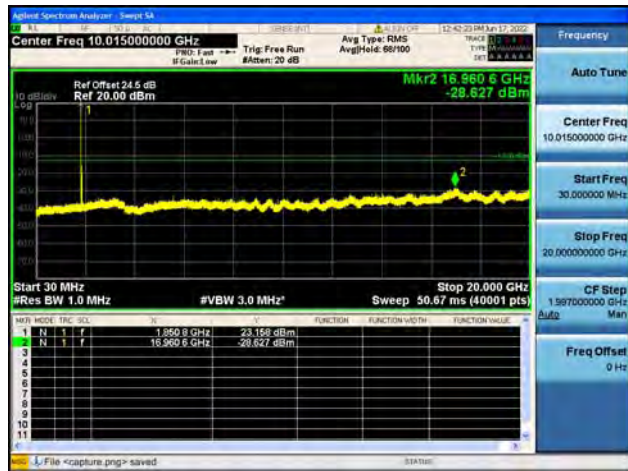


B2 / 10MHz / High CH / 16QAM

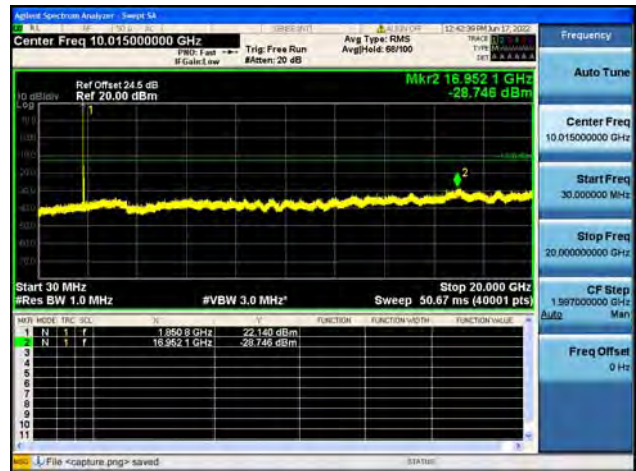




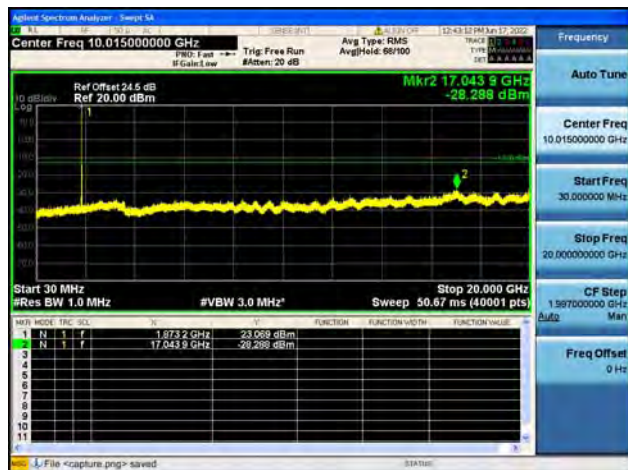
B2 / 15MHz / Low CH / QPSK



B2 / 15MHz / Low CH / 16QAM



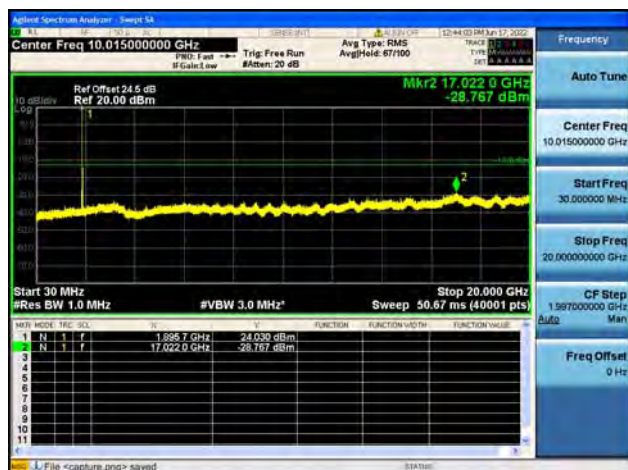
B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / Mid CH / 16QAM



B2 / 15MHz / High CH / QPSK

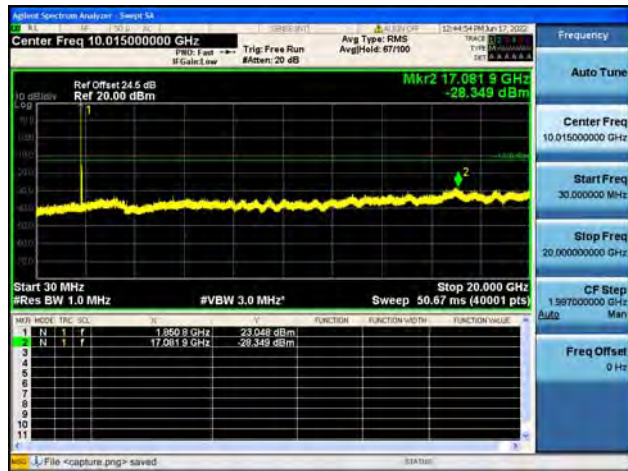


B2 / 15MHz / High CH / 16QAM

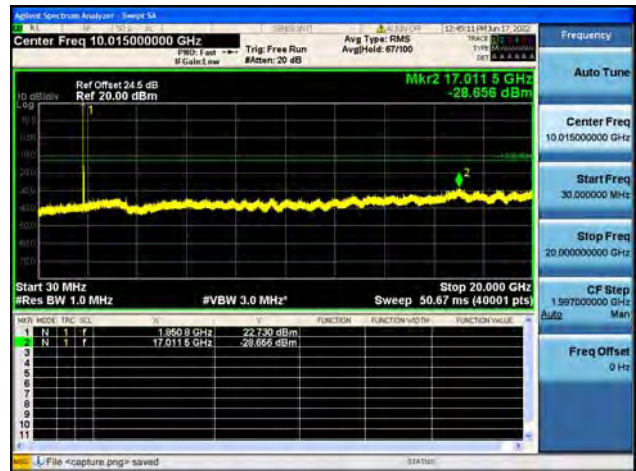




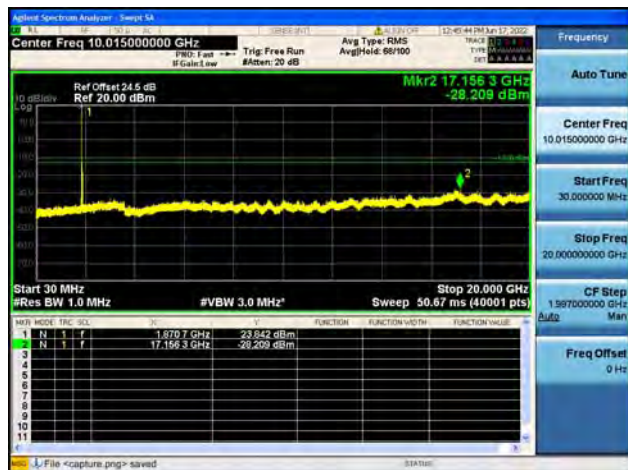
B2 / 20MHz / Low CH / QPSK



B2 / 20MHz / Low CH / 16QAM



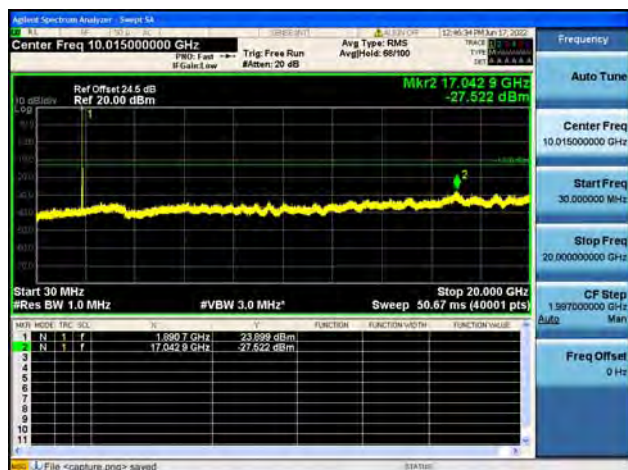
B2 / 20MHz / Mid CH / QPSK



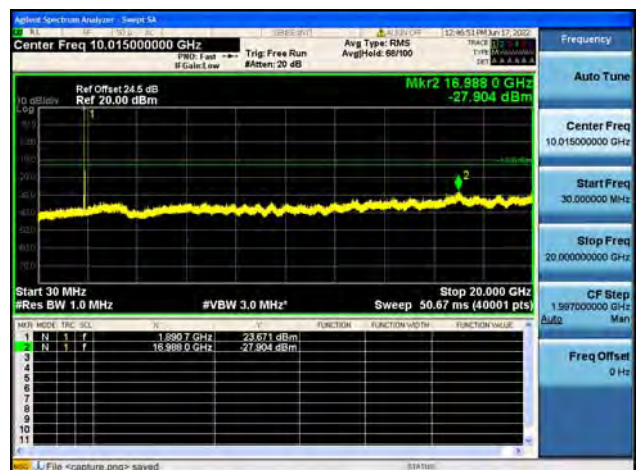
B2 / 20MHz / Mid CH / 16QAM



B2 / 20MHz / High CH / QPSK

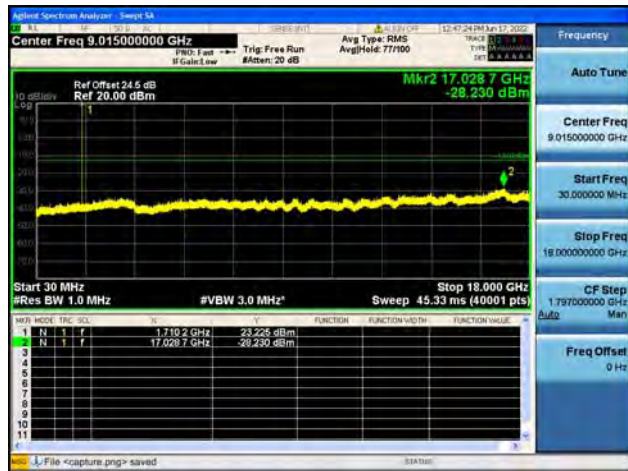


B2 / 20MHz / High CH / 16QAM

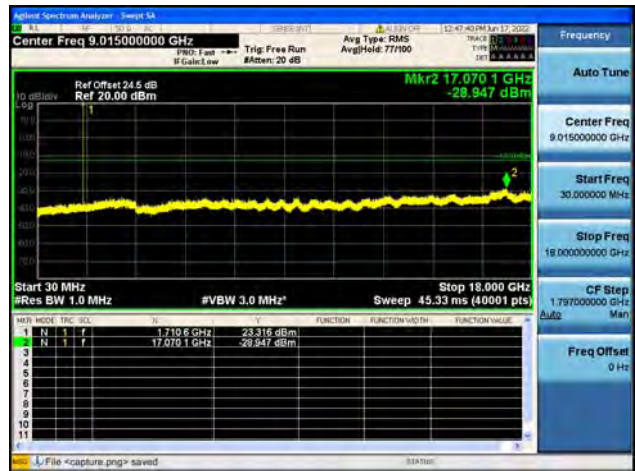




B4 / 1.4MHz / Low CH / QPSK



B4 / 1.4MHz / Low CH / 16QAM



B4 / 1.4MHz / Mid CH / QPSK



B4 / 1.4MHz / Mid CH / 16QAM



B4 / 1.4MHz / High CH / QPSK

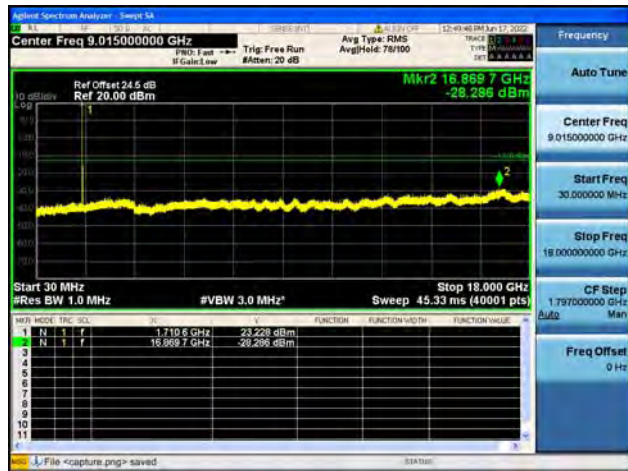


B4 / 1.4MHz / High CH / 16QAM

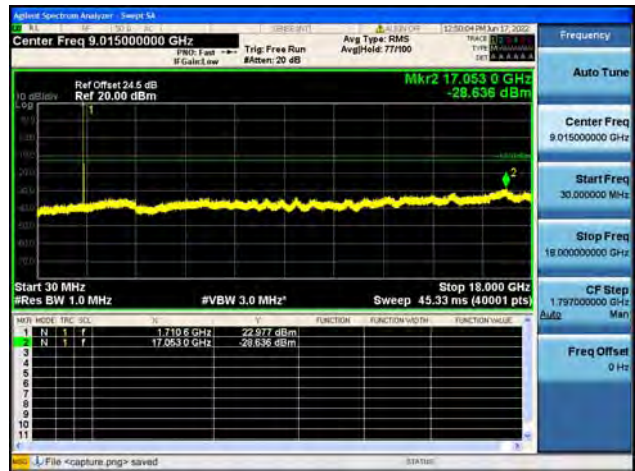




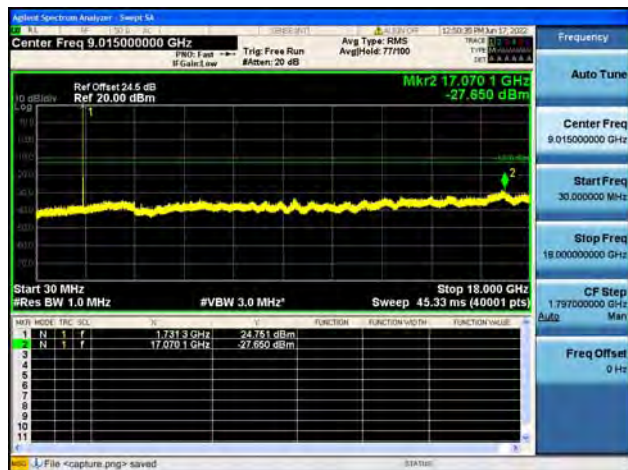
B4 / 3MHz / Low CH / QPSK



B4 / 3MHz / Low CH / 16QAM



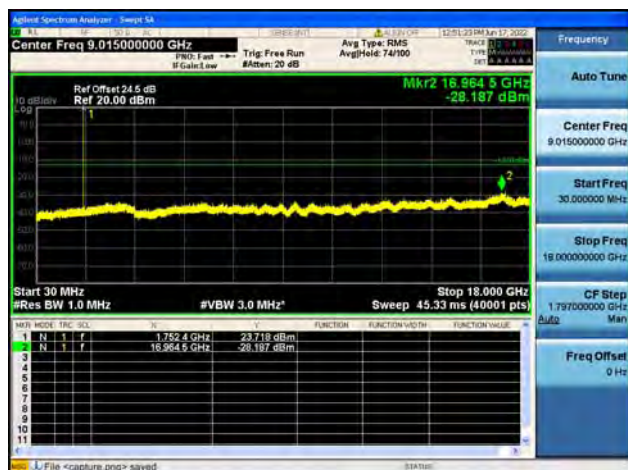
B4 / 3MHz / Mid CH / QPSK



B4 / 3MHz / Mid CH / 16QAM



B4 / 3MHz / High CH / QPSK

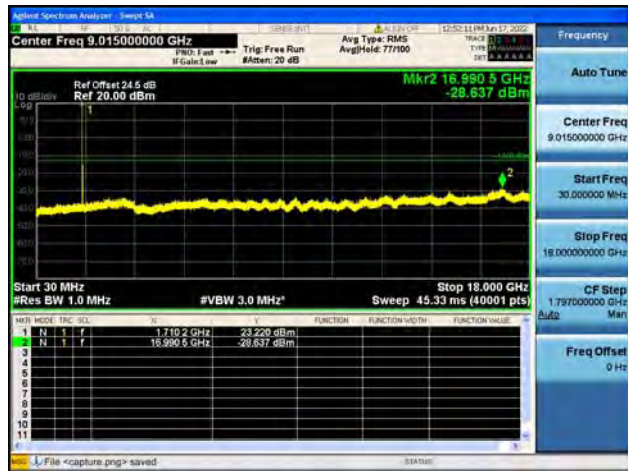


B4 / 3MHz / High CH / 16QAM

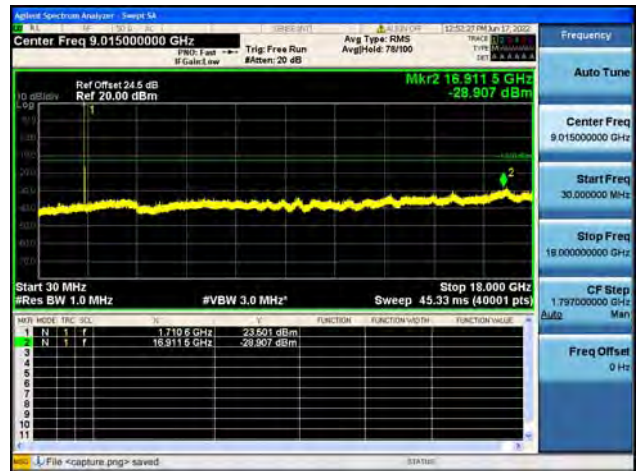




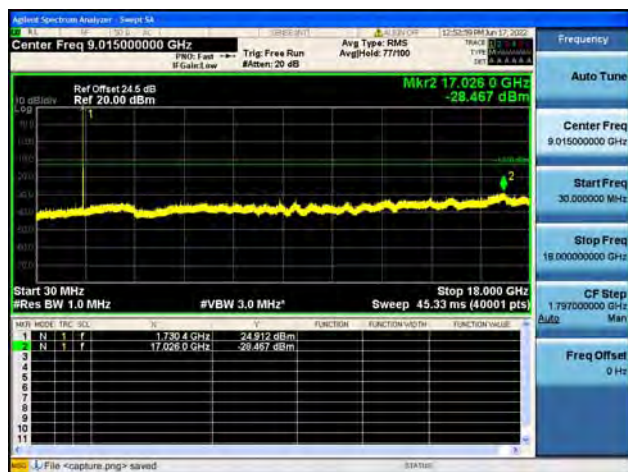
B4 / 5MHz / Low CH / QPSK



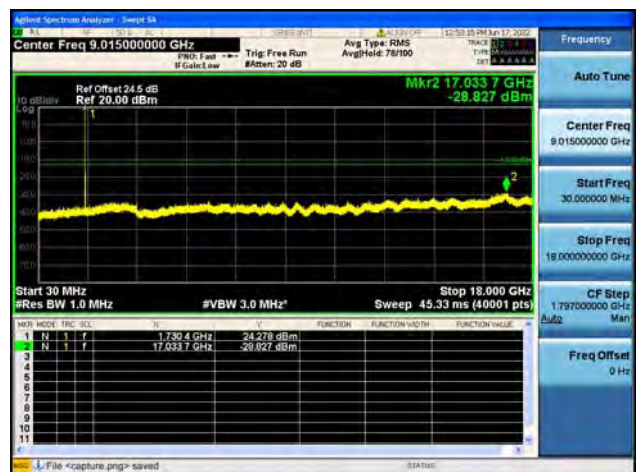
B4 / 5MHz / Low CH / 16QAM



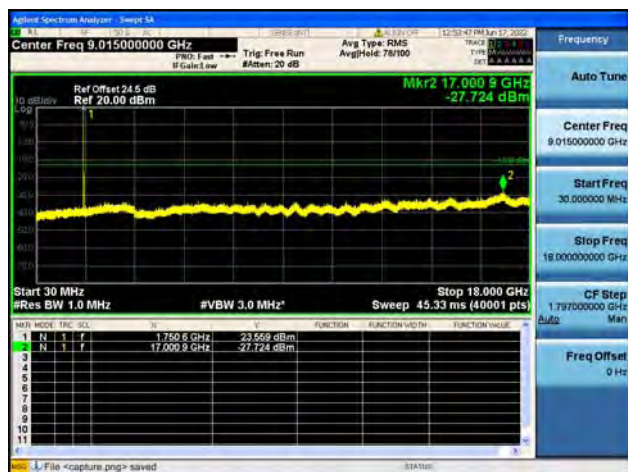
B4 / 5MHz / Mid CH / QPSK



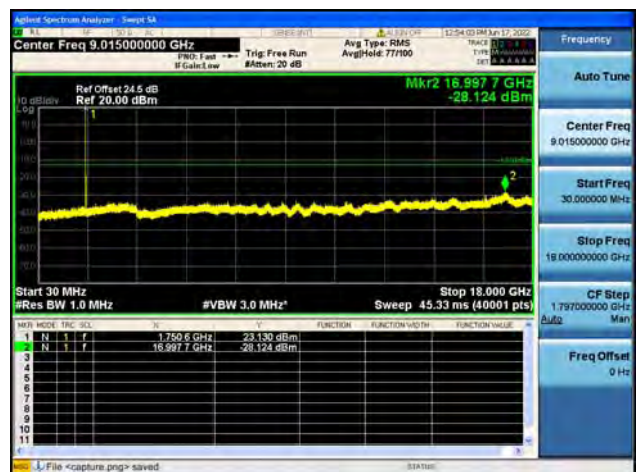
B4 / 5MHz / Mid CH / 16QAM



B4 / 5MHz / High CH / QPSK



B4 / 5MHz / High CH / 16QAM

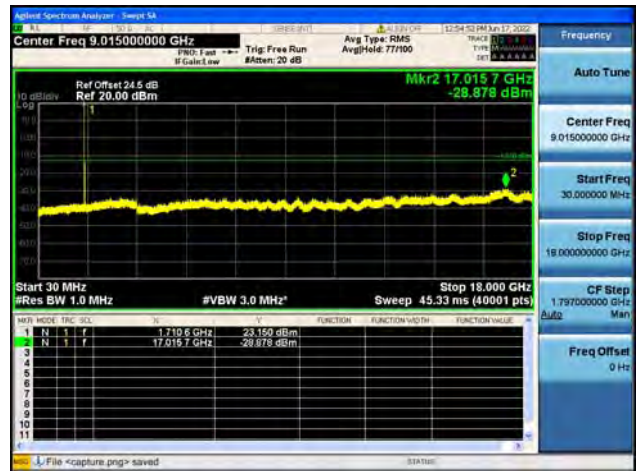




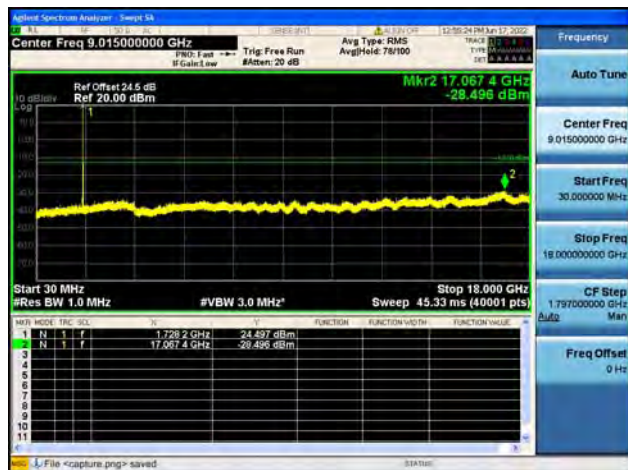
B4 / 10MHz / Low CH / QPSK



B4 / 10MHz / Low CH / 16QAM



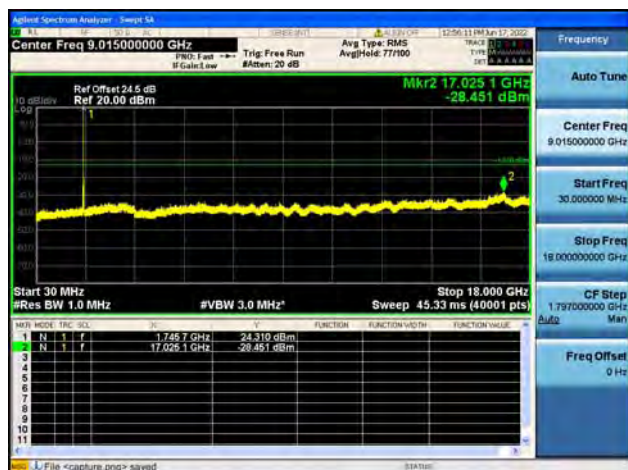
B4 / 10MHz / Mid CH / QPSK



B4 / 10MHz / Mid CH / 16QAM



B4 / 10MHz / High CH / QPSK

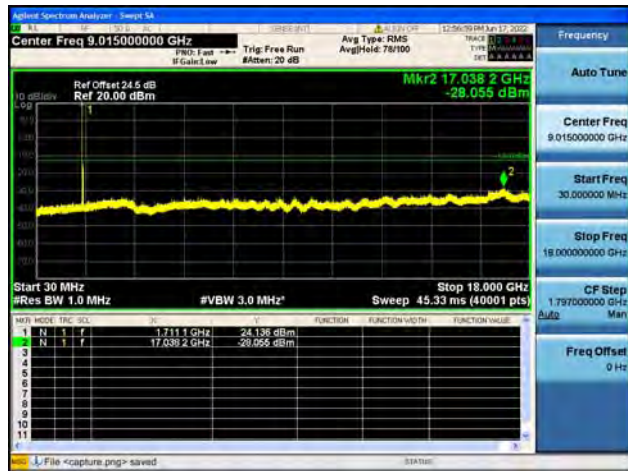


B4 / 10MHz / High CH / 16QAM





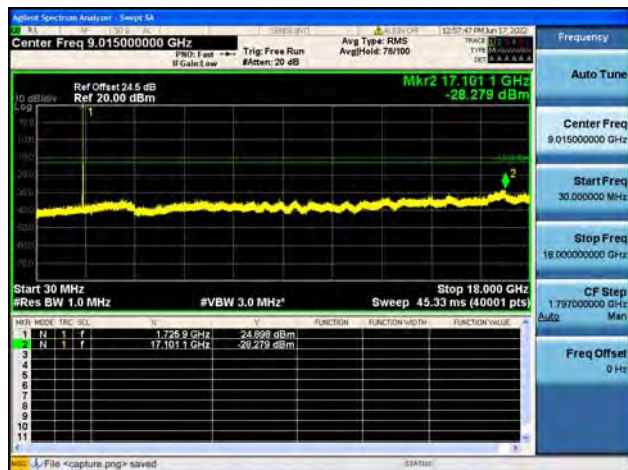
B4 / 15MHz / Low CH / QPSK



B4 / 15MHz / Low CH / 16QAM



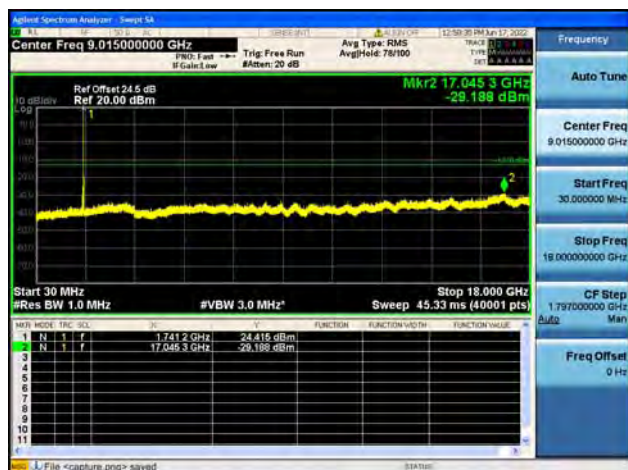
B4 / 15MHz / Mid CH / QPSK



B4 / 15MHz / Mid CH / 16QAM



B4 / 15MHz / High CH / QPSK

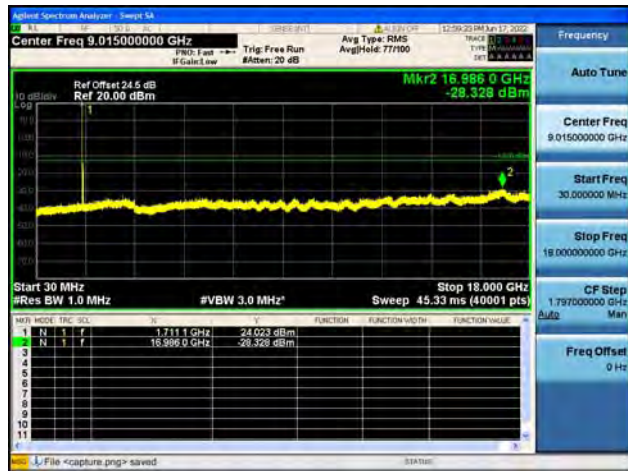


B4 / 15MHz / High CH / 16QAM

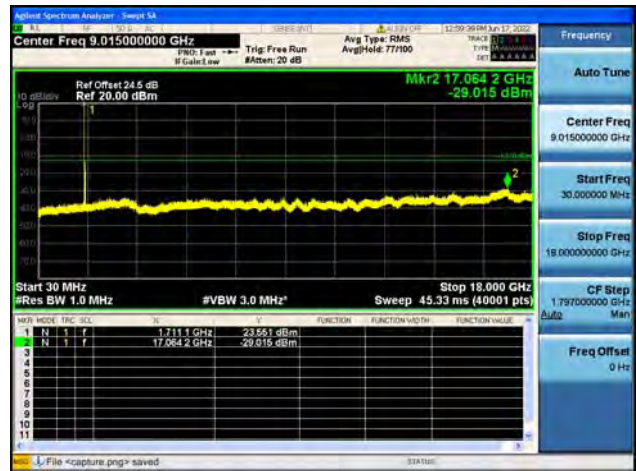




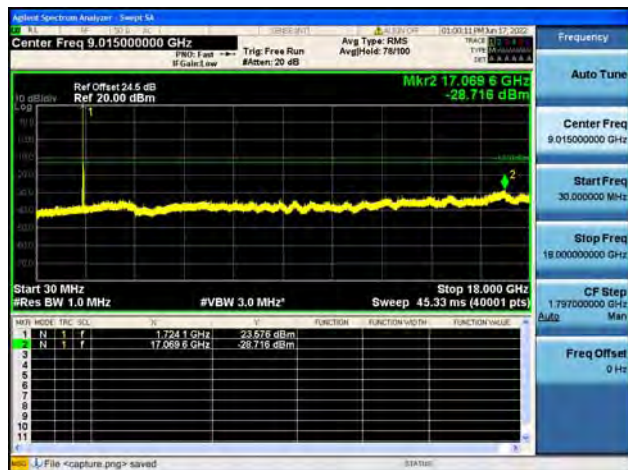
B4 / 20MHz / Low CH / QPSK



B4 / 20MHz / Low CH / 16QAM



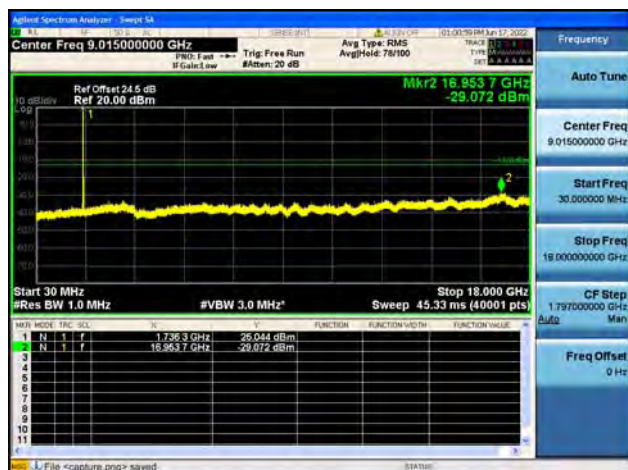
B4 / 20MHz / Mid CH / QPSK



B4 / 20MHz / Mid CH / 16QAM



B4 / 20MHz / High CH / QPSK



B4 / 20MHz / High CH / 16QAM

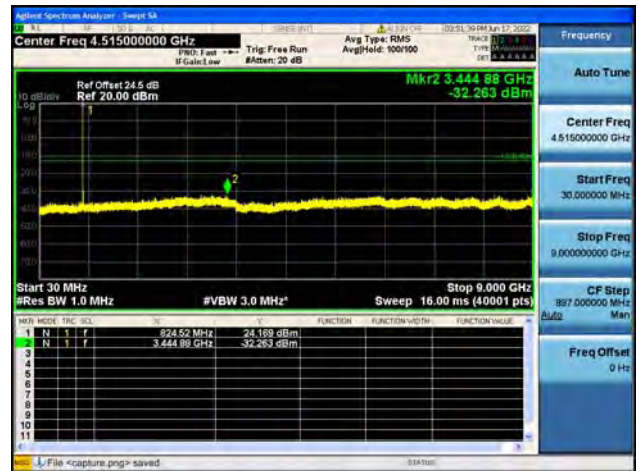




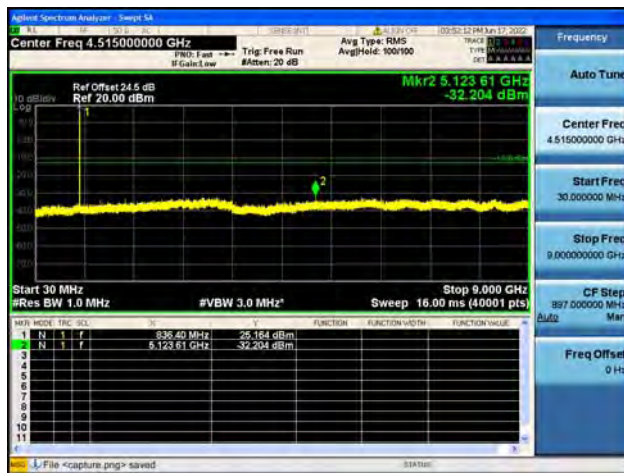
B5 / 1.4MHz / Low CH / QPSK



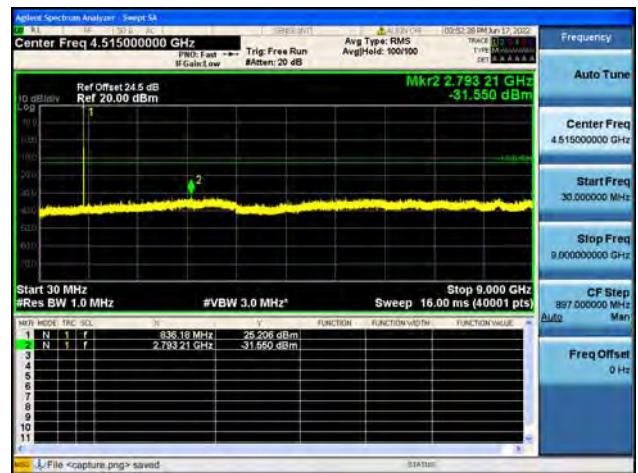
B5 / 1.4MHz / Low CH / 16QAM



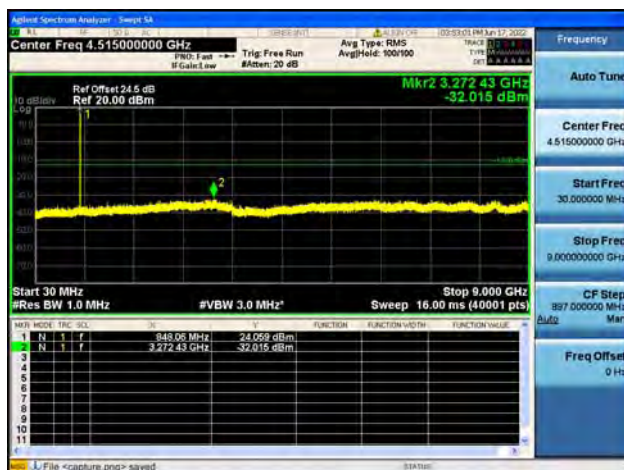
B5 / 1.4MHz / Mid CH / QPSK



B5 / 1.4MHz / Mid CH / 16QAM



B5 / 1.4MHz / High CH / QPSK

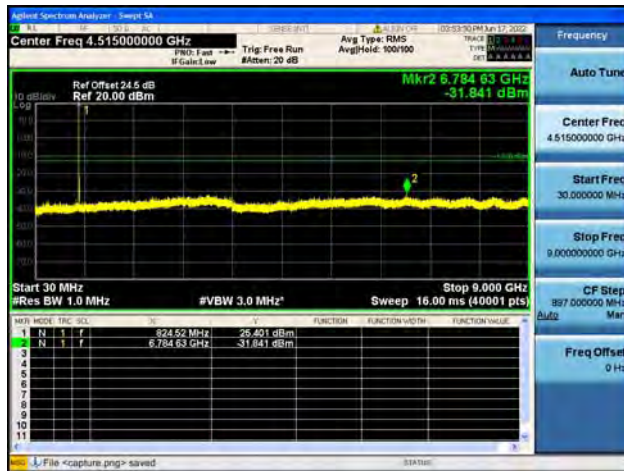


B5 / 1.4MHz / High CH / 16QAM

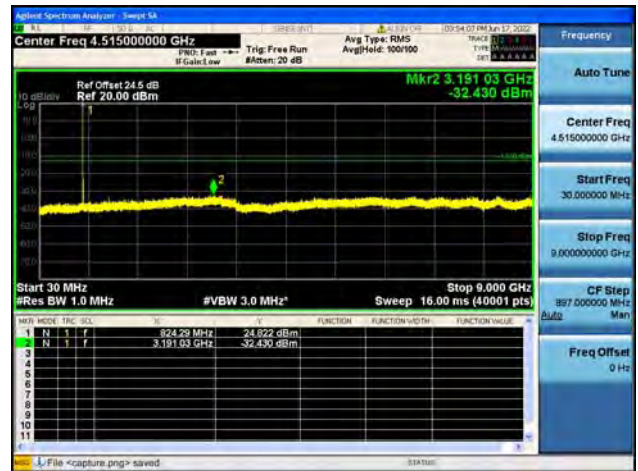




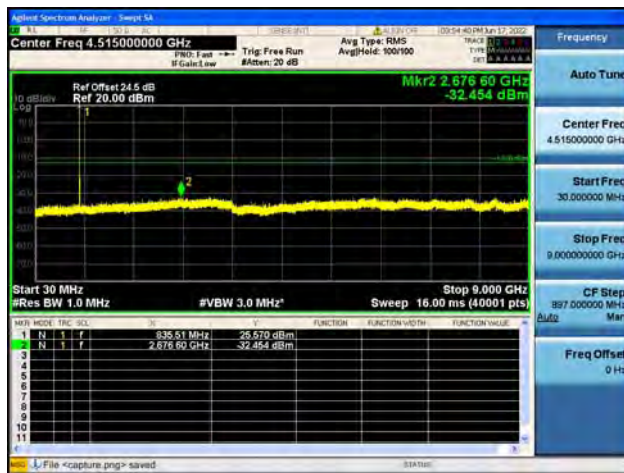
B5 / 3MHz / Low CH / QPSK



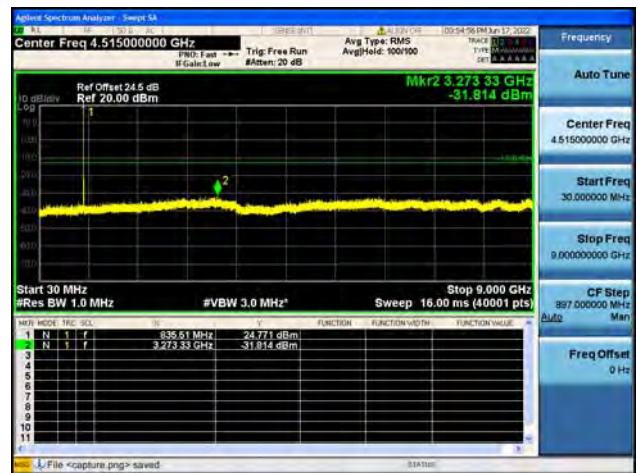
B5 / 3MHz / Low CH / 16QAM



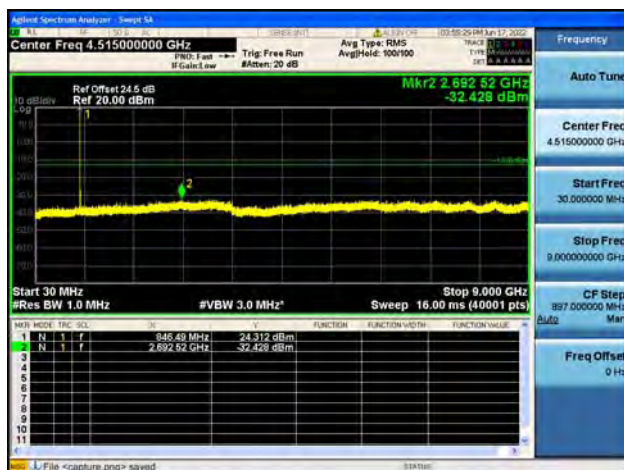
B5 / 3MHz / Mid CH / QPSK



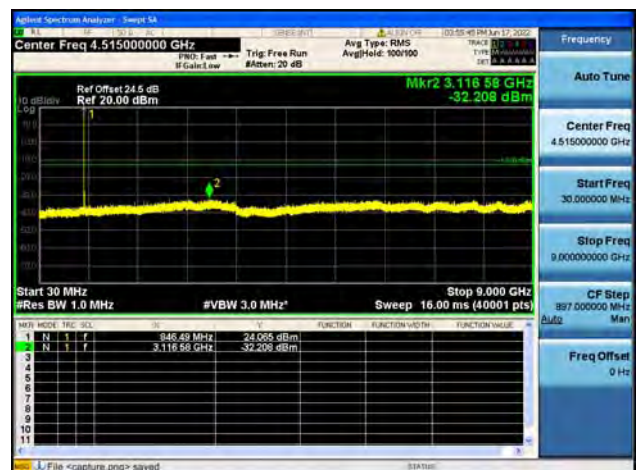
B5 / 3MHz / Mid CH / 16QAM



B5 / 3MHz / High CH / QPSK

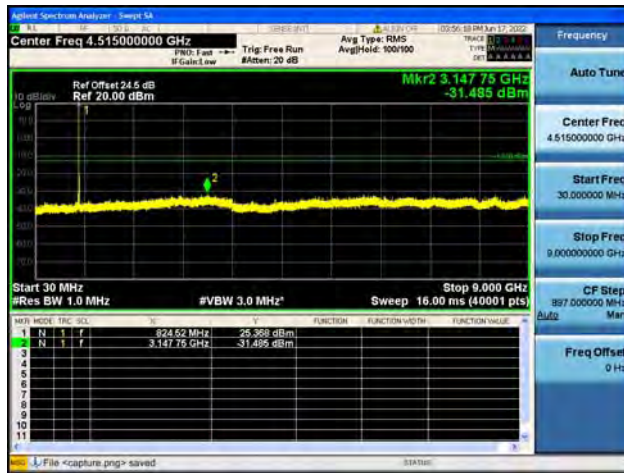


B5 / 3MHz / High CH / 16QAM

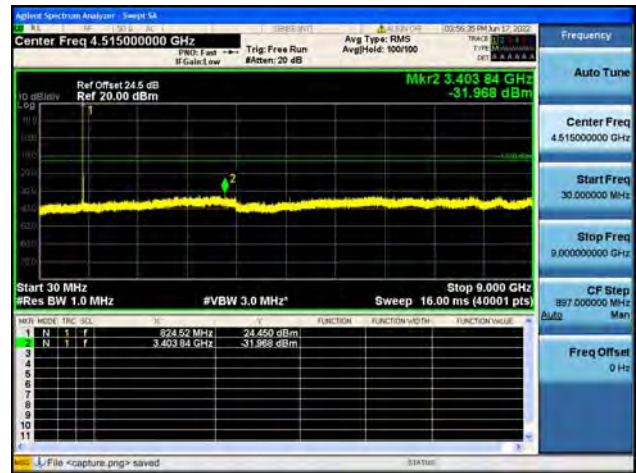




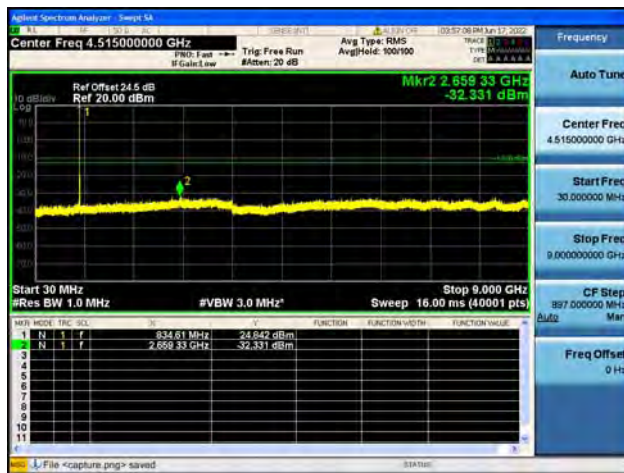
B5 / 5MHz / Low CH / QPSK



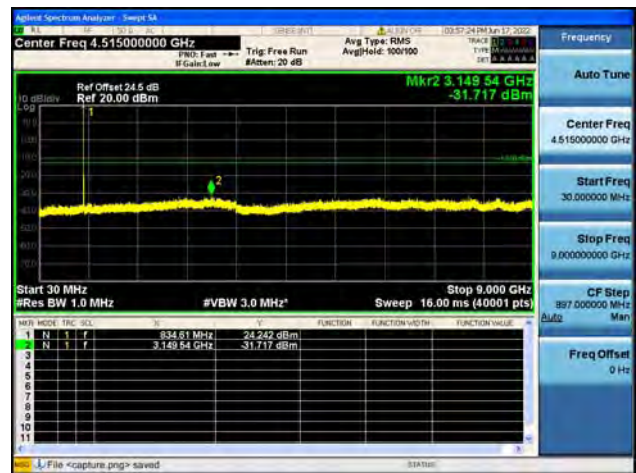
B5 / 5MHz / Low CH / 16QAM



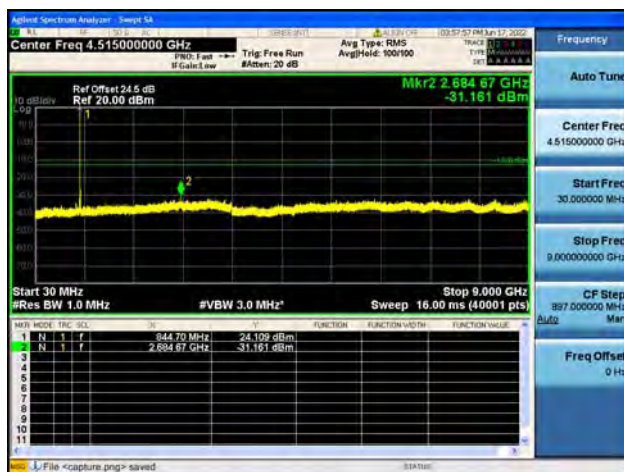
B5 / 5MHz / Mid CH / QPSK



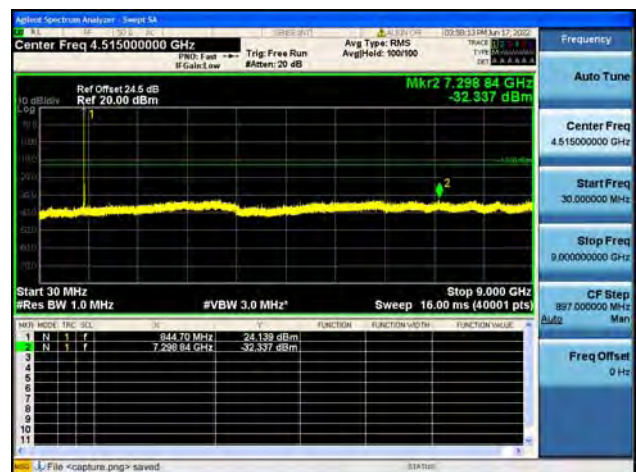
B5 / 5MHz / Mid CH / 16QAM



B5 / 5MHz / High CH / QPSK

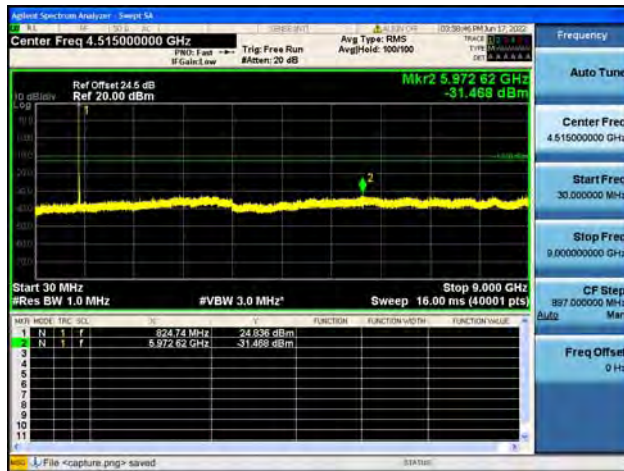


B5 / 5MHz / High CH / 16QAM

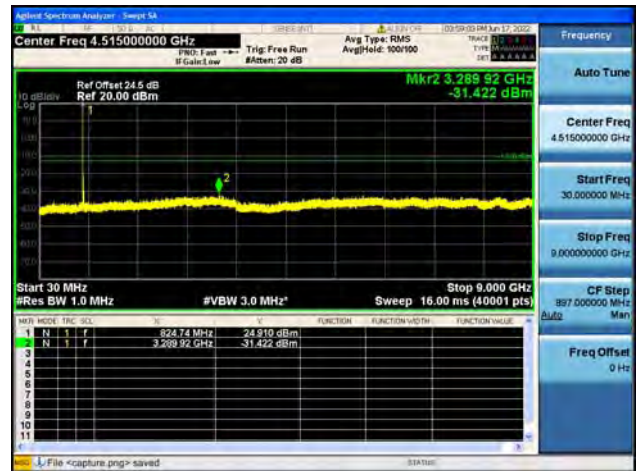




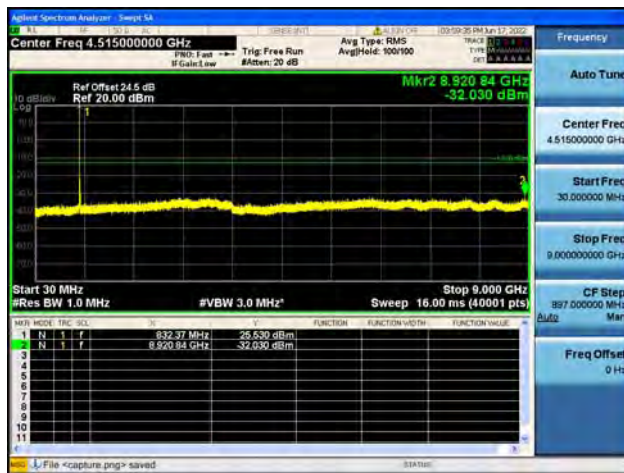
B5 / 10MHz / Low CH / QPSK



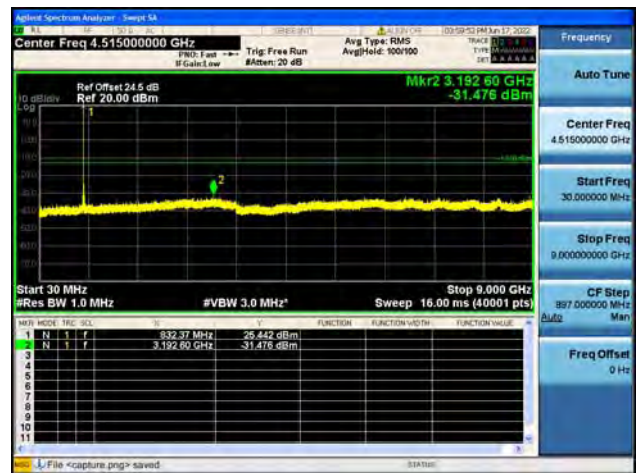
B5 / 10MHz / Low CH / 16QAM



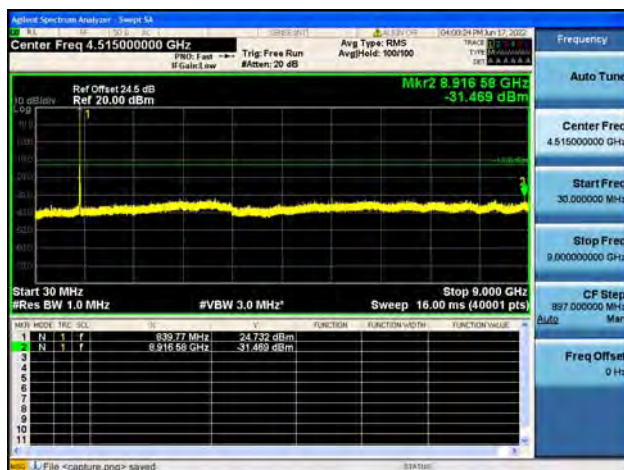
B5 / 10MHz / Mid CH / QPSK



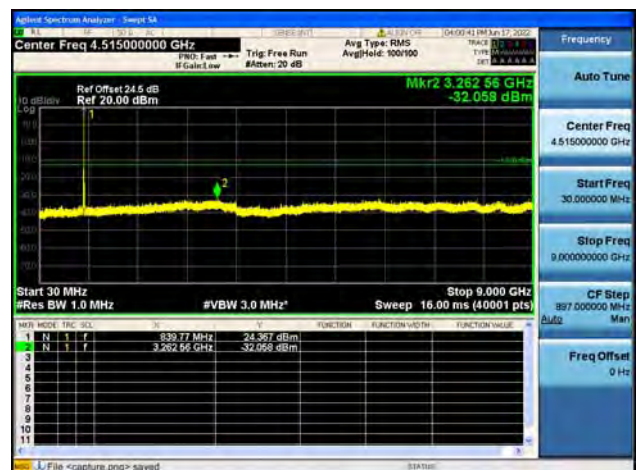
B5 / 10MHz / Mid CH / 16QAM



B5 / 10MHz / High CH / QPSK

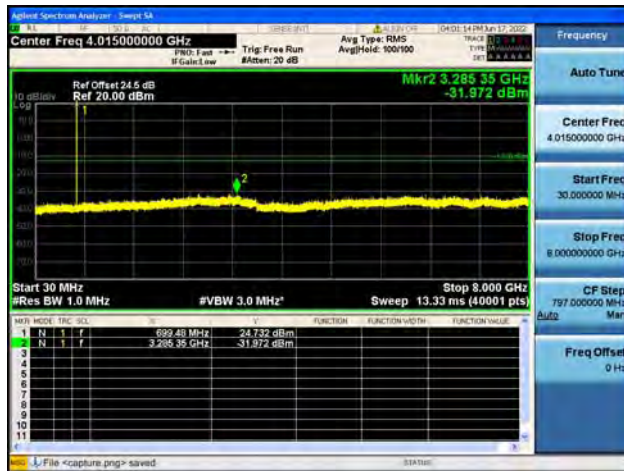


B5 / 10MHz / High CH / 16QAM

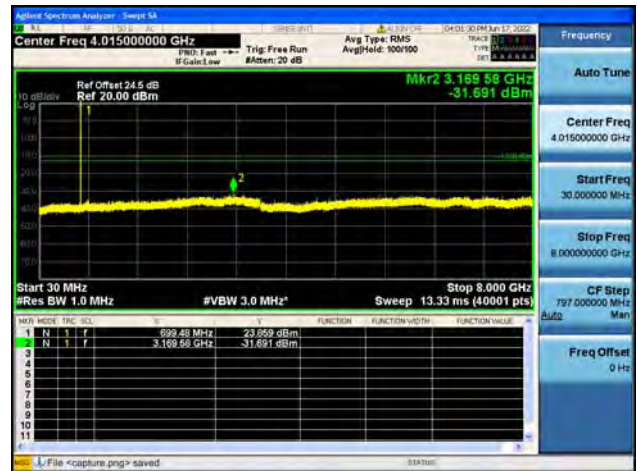




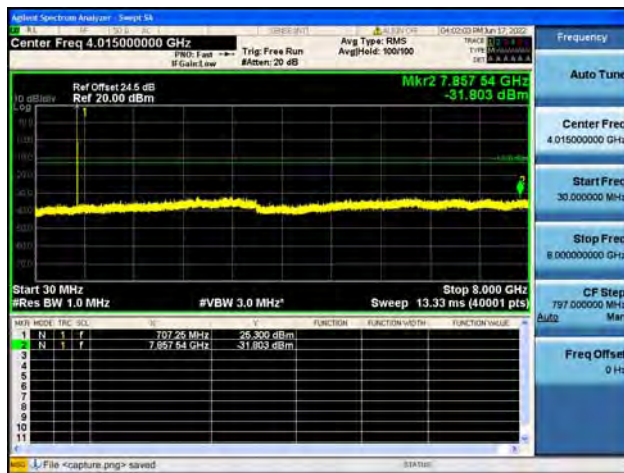
B12 / 1.4MHz / Low CH / QPSK



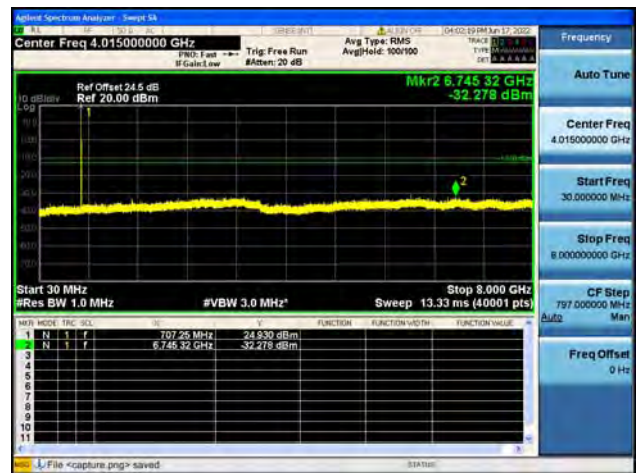
B12 / 1.4MHz / Low CH / 16QAM



B12 / 1.4MHz / Mid CH / QPSK



B12 / 1.4MHz / Mid CH / 16QAM



B12 / 1.4MHz / High CH / QPSK



B12 / 1.4MHz / High CH / 16QAM

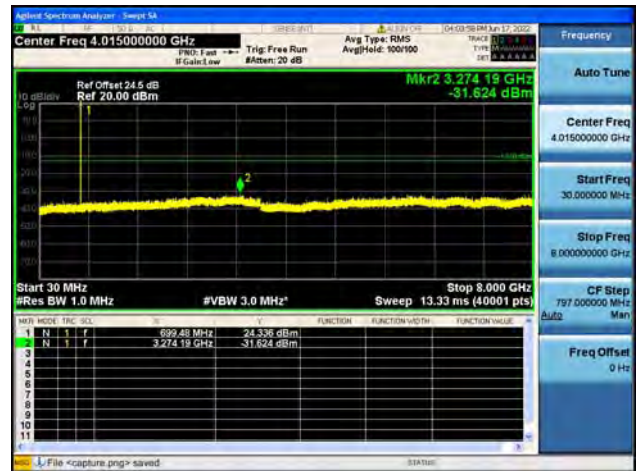




B12 / 3MHz / Low CH / QPSK



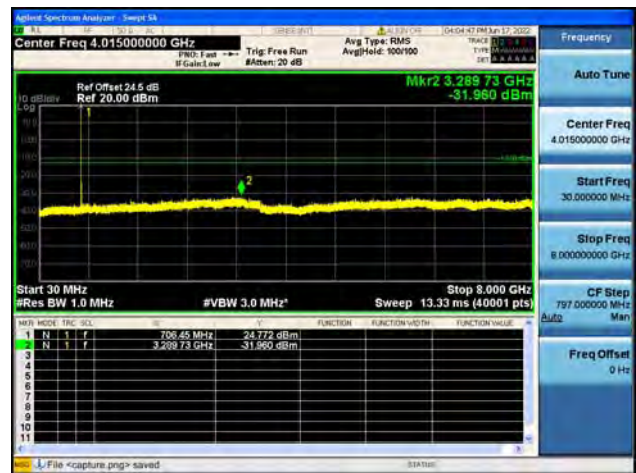
B12 / 3MHz / Low CH / 16QAM



B12 / 3MHz / Mid CH / QPSK



B12 / 3MHz / Mid CH / 16QAM



B12 / 3MHz / High CH / QPSK

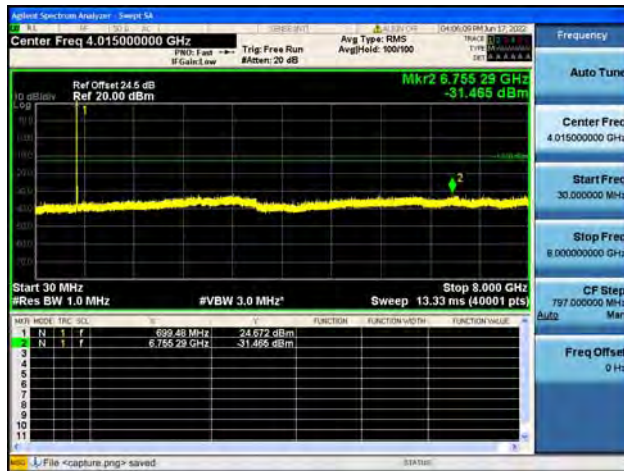


B12 / 3MHz / High CH / 16QAM





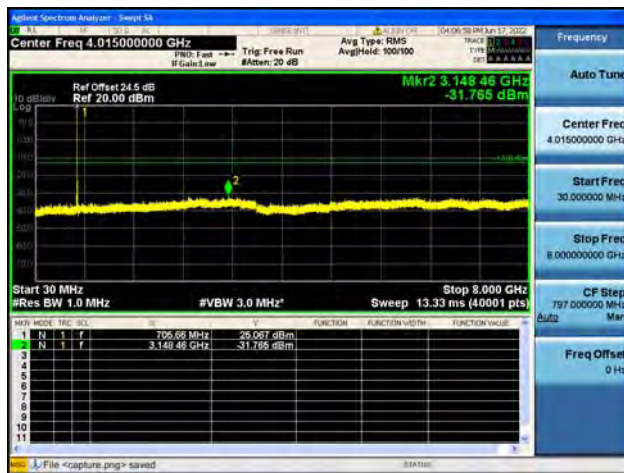
B12 / 5MHz / Low CH / QPSK



B12 / 5MHz / Low CH / 16QAM



B12 / 5MHz / Mid CH / QPSK



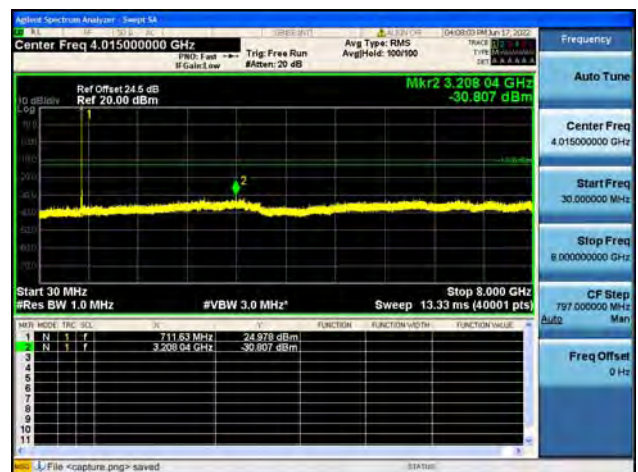
B12 / 5MHz / Mid CH / 16QAM



B12 / 5MHz / High CH / QPSK

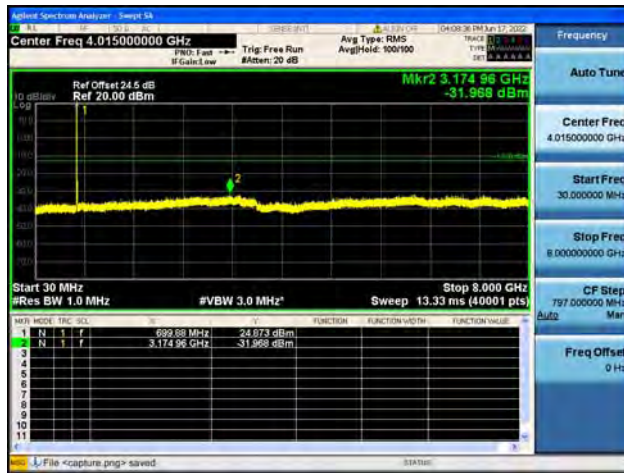


B12 / 5MHz / High CH / 16QAM

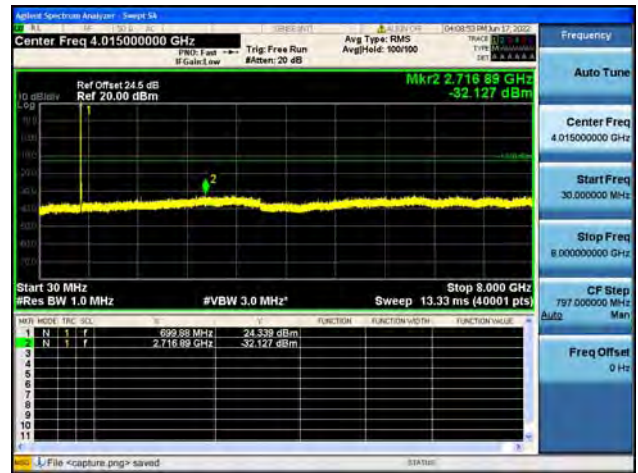




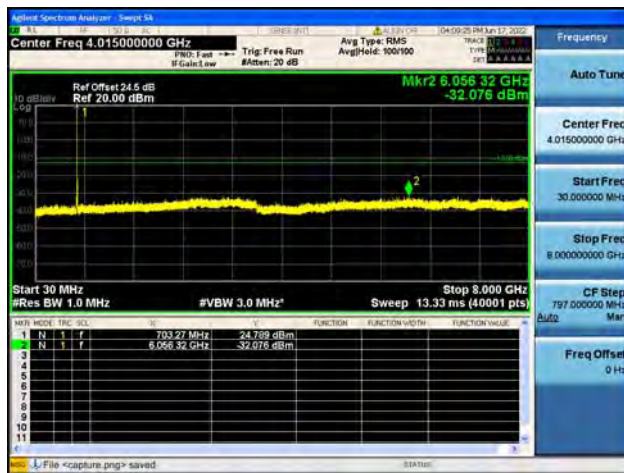
B12 / 10MHz / Low CH / QPSK



B12 / 10MHz / Low CH / 16QAM



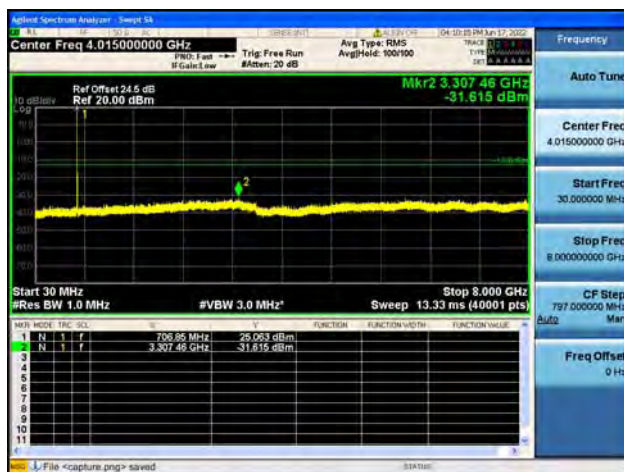
B12 / 10MHz / Mid CH / QPSK



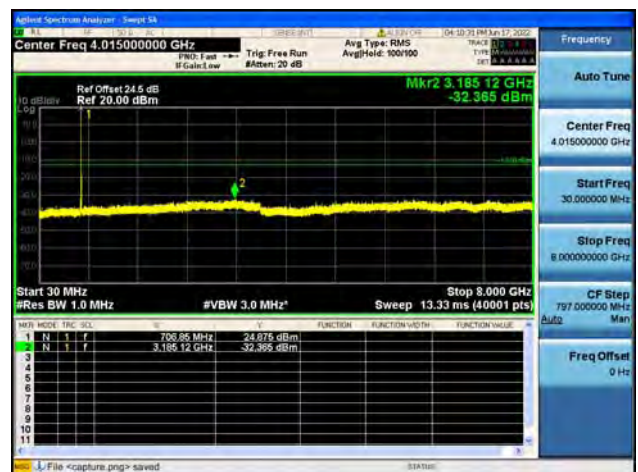
B12 / 10MHz / Mid CH / 16QAM



B12 / 10MHz / High CH / QPSK

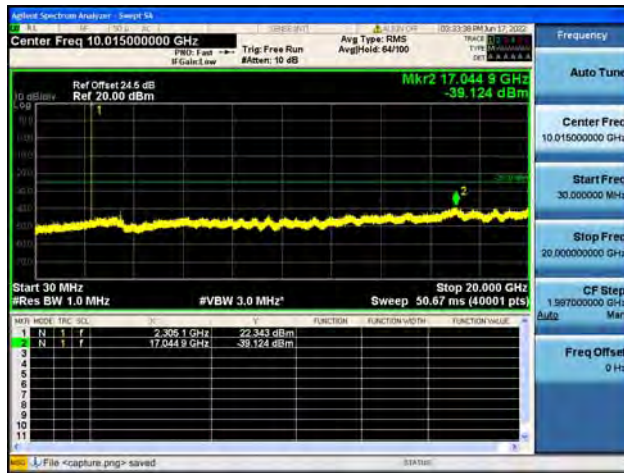


B12 / 10MHz / High CH / 16QAM





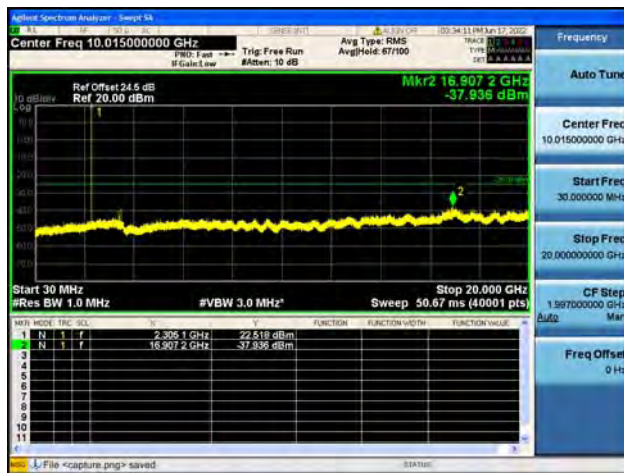
B30-30M-20G / 5MHz / Low CH / QPSK



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



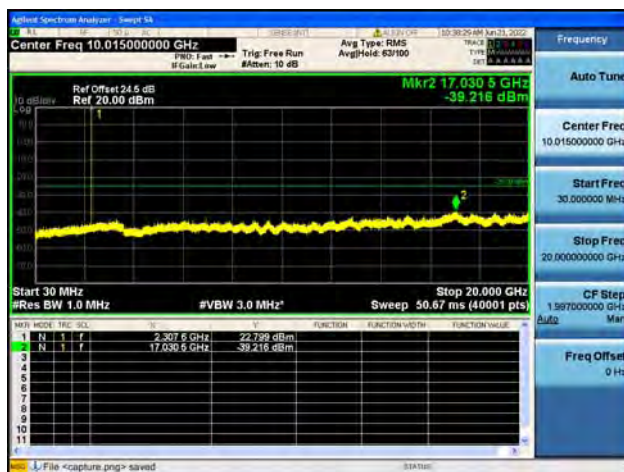
B30-30M-20G / 5MHz / Low CH / 16QAM



B30-20G-24G / 5MHz / Low CH / 16QAM



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

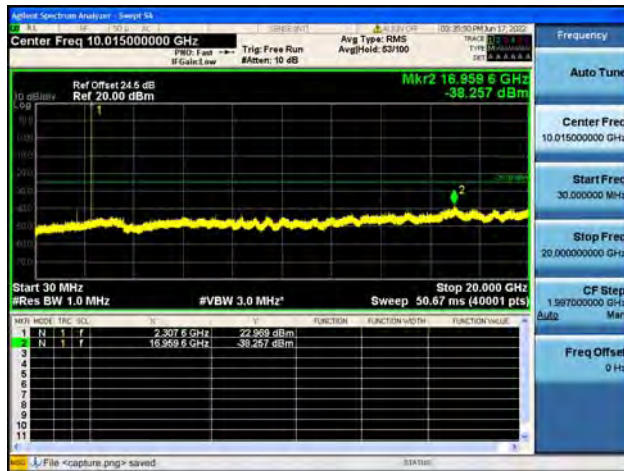


B30-20G-24G / 5MHz / Mid CH / QPSK





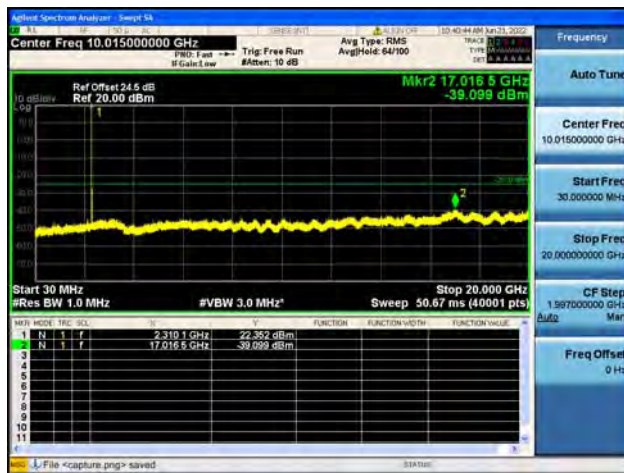
B30-30M-20G / 5MHz / Mid CH / 16QAM



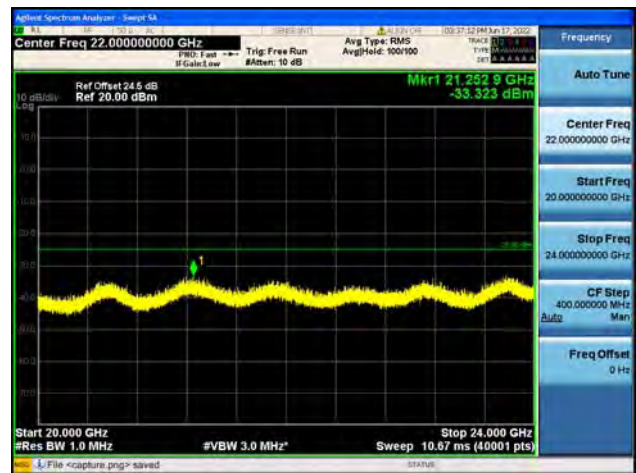
B30-20G-24G / 5MHz / Mid CH / 16QAM



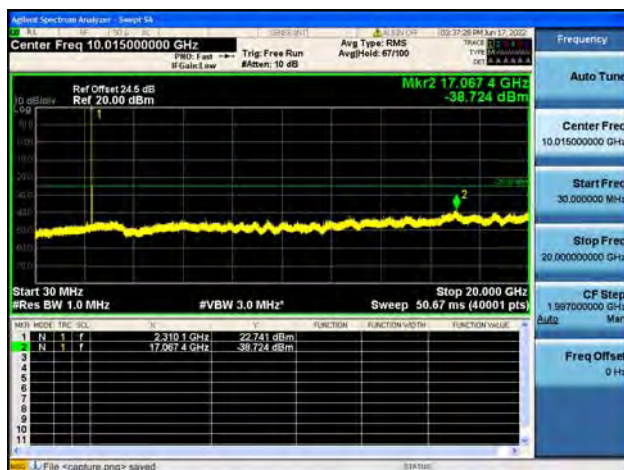
B30-30M-20G / 5MHz / High CH / QPSK



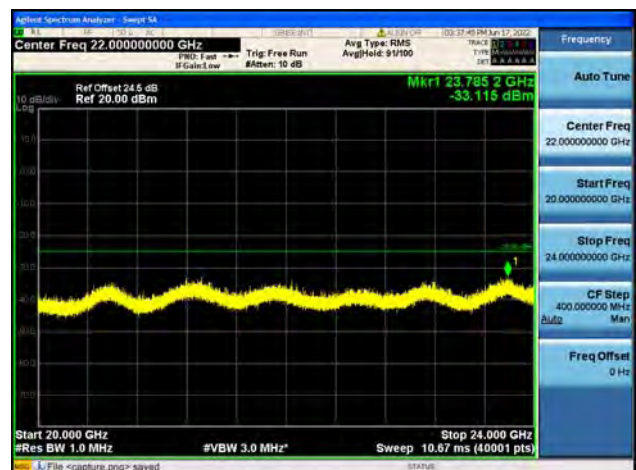
B30-20G-24G / 5MHz / High CH / QPSK



B30-30M-20G / 5MHz / High CH / 16QAM

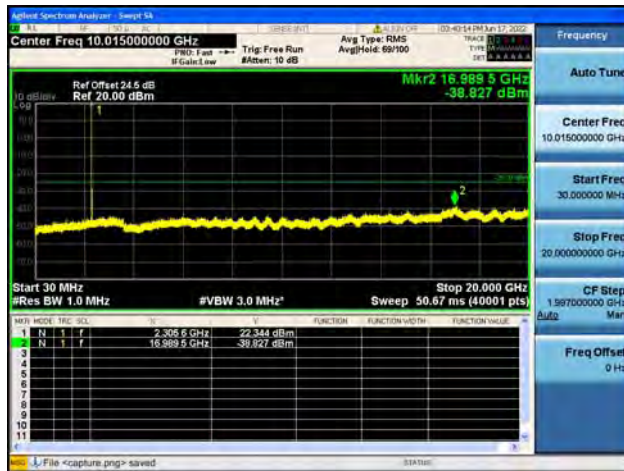


B30-20G-24G / 5MHz / High CH / 16QAM





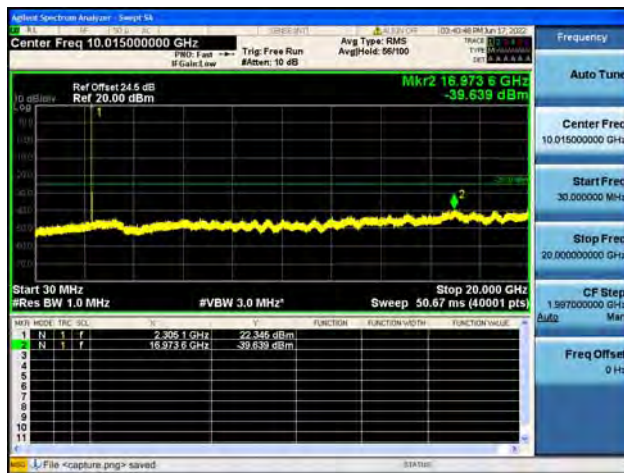
B30-30M-20G / 10MHz / Mid CH / QPSK



B30-20G-24G / 10MHz / Mid CH / QPSK



B30-30M-20G / 10MHz / Mid CH / 16QAM

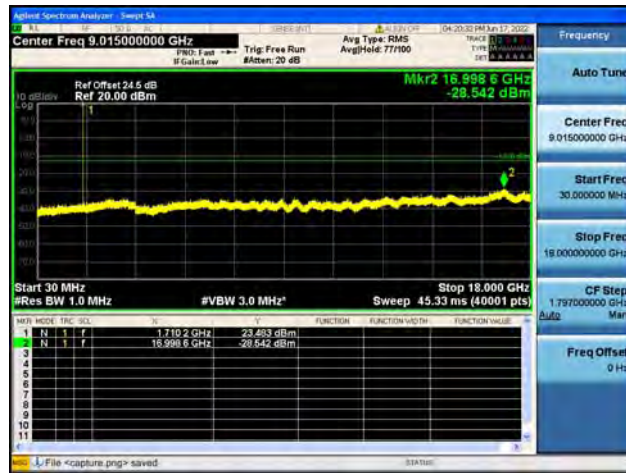


B30-20G-24G / 10MHz / Mid CH / 16QAM

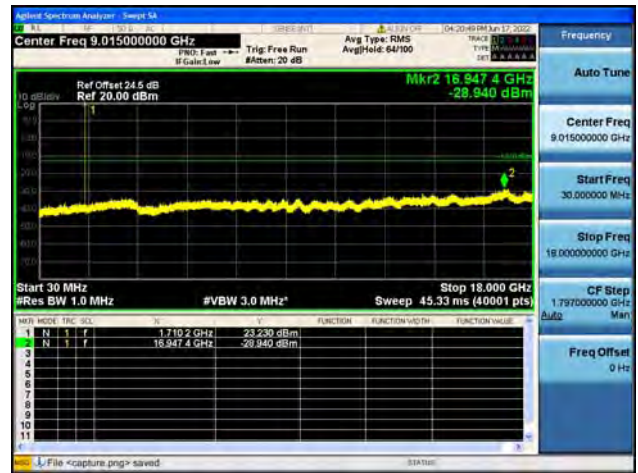




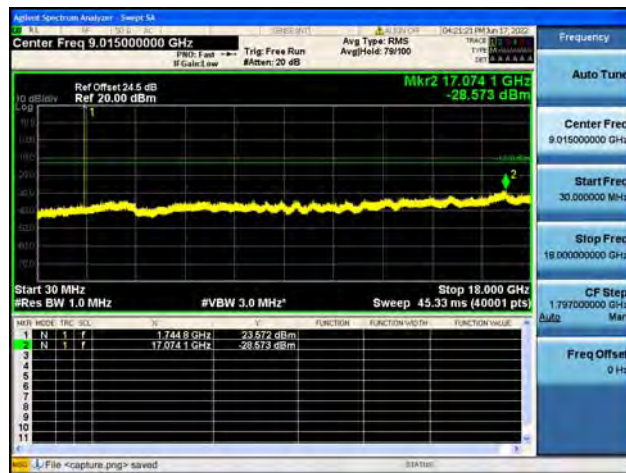
B66 / 1.4MHz / Low CH / QPSK



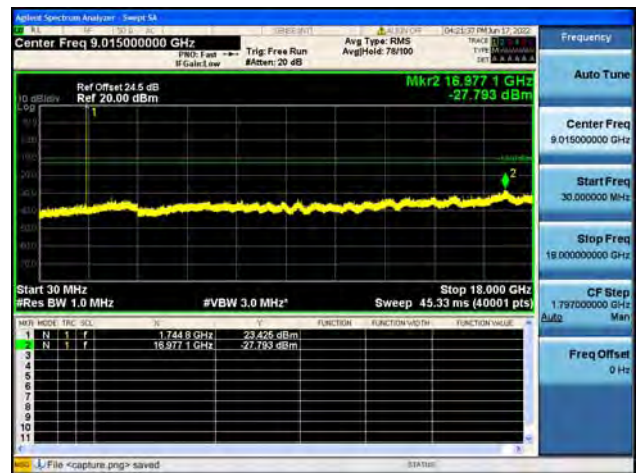
B66 / 1.4MHz / Low CH / 16QAM



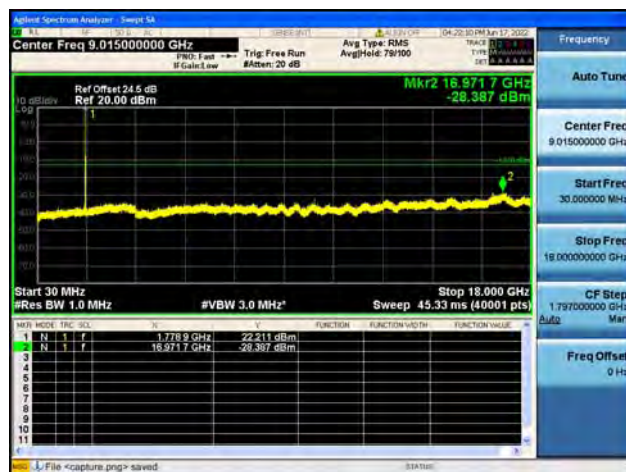
B66 / 1.4MHz / Mid CH / QPSK



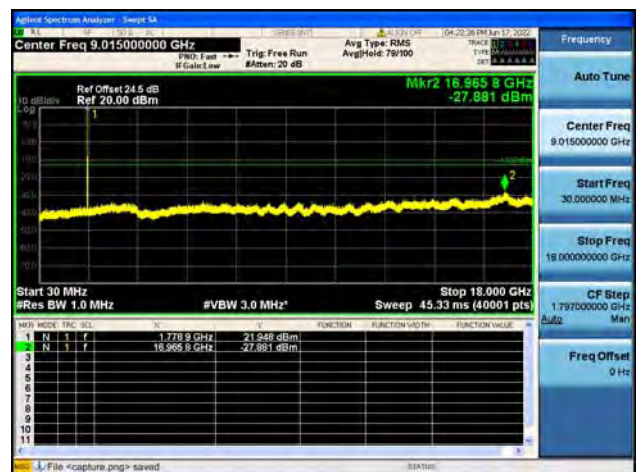
B66 / 1.4MHz / Mid CH / 16QAM



B66 / 1.4MHz / High CH / QPSK

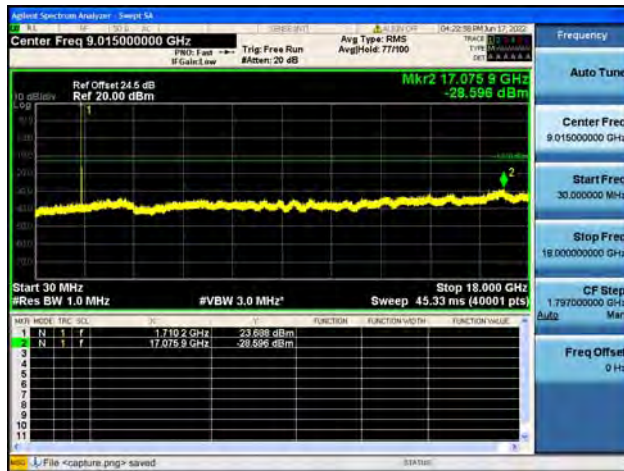


B66 / 1.4MHz / High CH / 16QAM

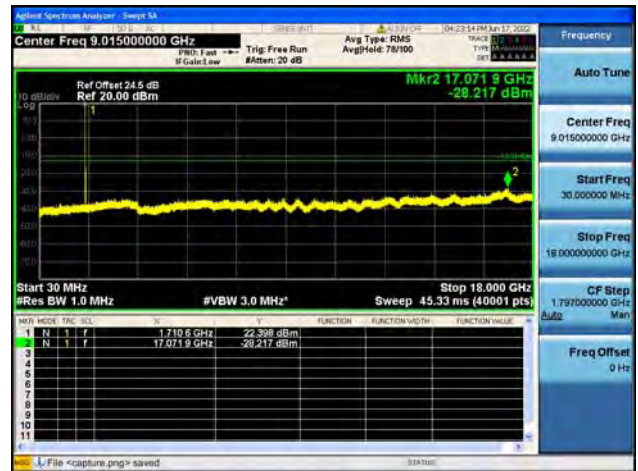




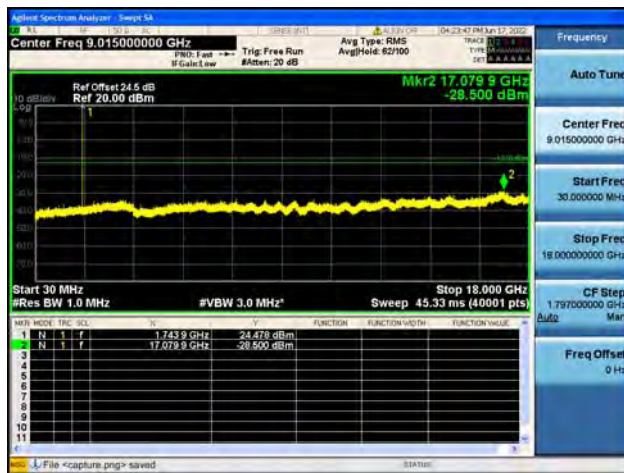
B66 / 3MHz / Low CH / QPSK



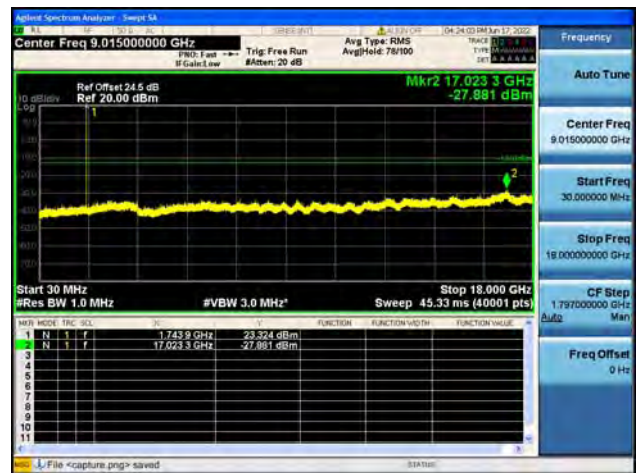
B66 / 3MHz / Low CH / 16QAM



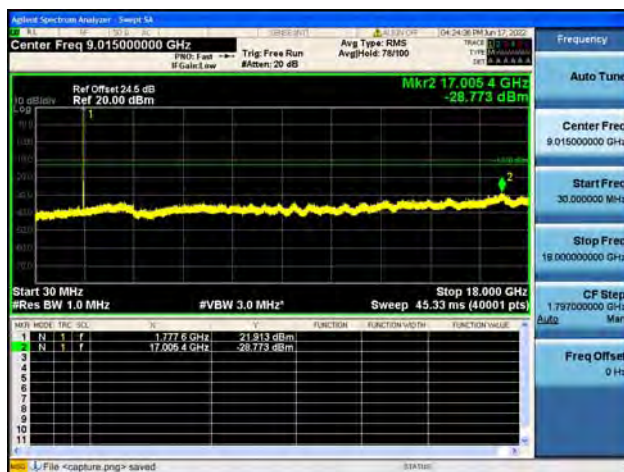
B66 / 3MHz / Mid CH / QPSK



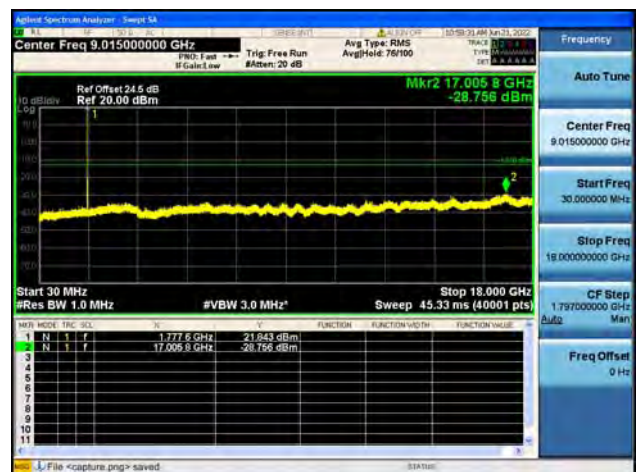
B66 / 3MHz / Mid CH / 16QAM



B66 / 3MHz / High CH / QPSK

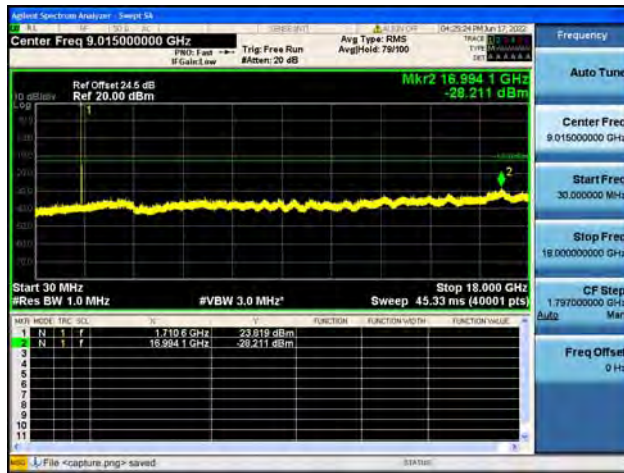


B66 / 3MHz / High CH / 16QAM





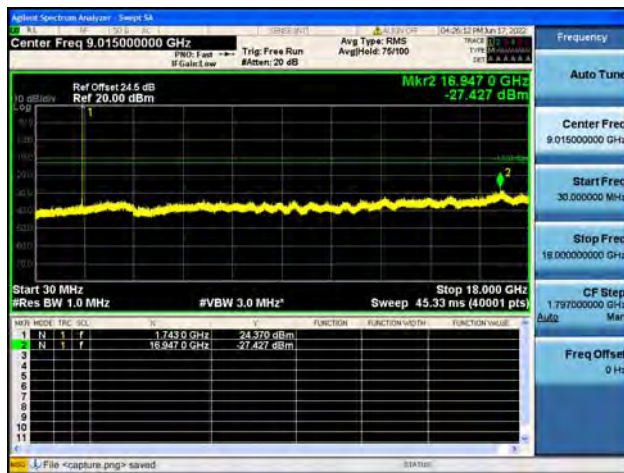
B66 / 5MHz / Low CH / QPSK



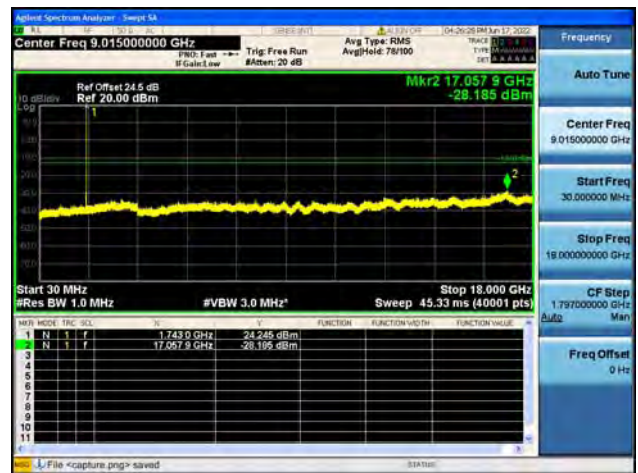
B66 / 5MHz / Low CH / 16QAM



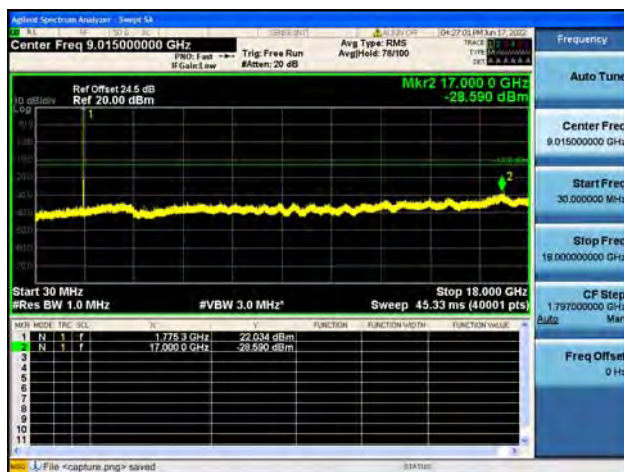
B66 / 5MHz / Mid CH / QPSK



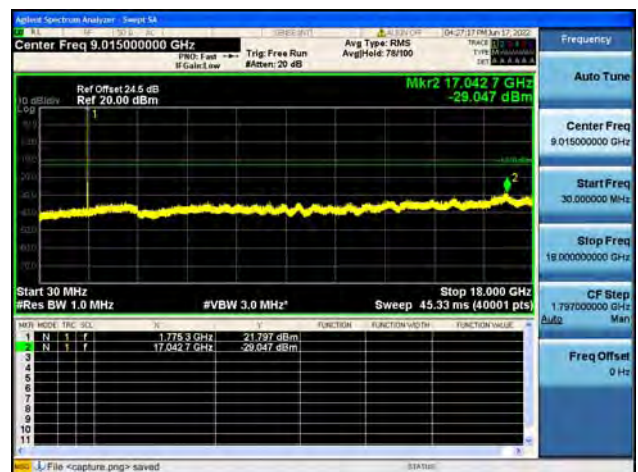
B66 / 5MHz / Mid CH / 16QAM



B66 / 5MHz / High CH / QPSK

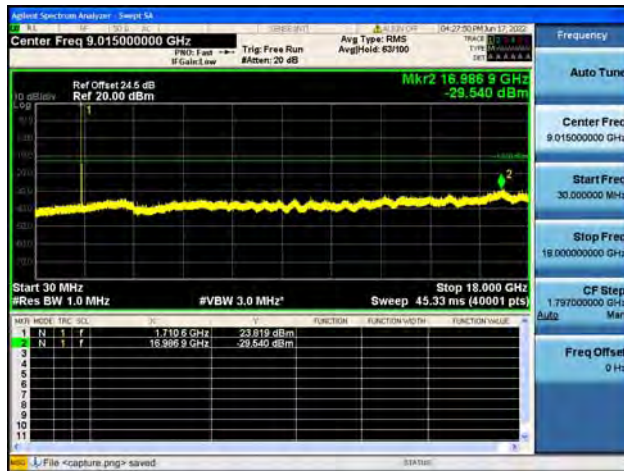


B66 / 5MHz / High CH / 16QAM





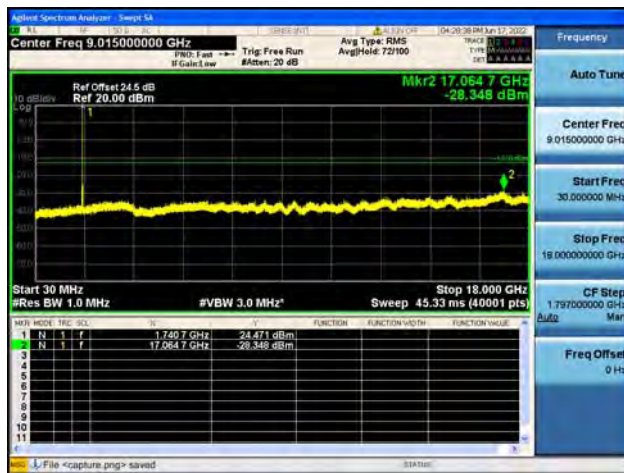
B66 / 10MHz / Low CH / QPSK



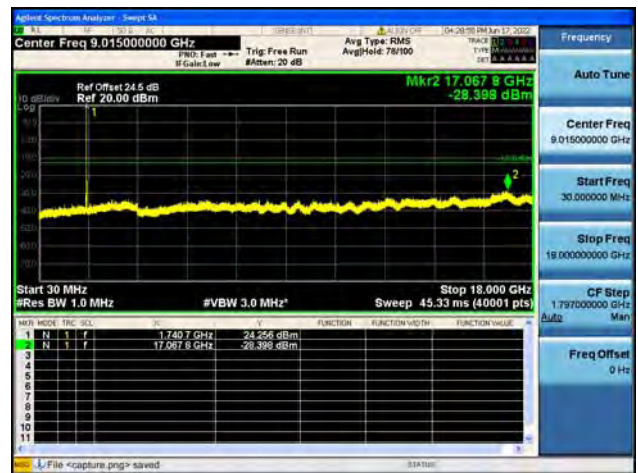
B66 / 10MHz / Low CH / 16QAM



B66 / 10MHz / Mid CH / QPSK



B66 / 10MHz / Mid CH / 16QAM



B66 / 10MHz / High CH / QPSK

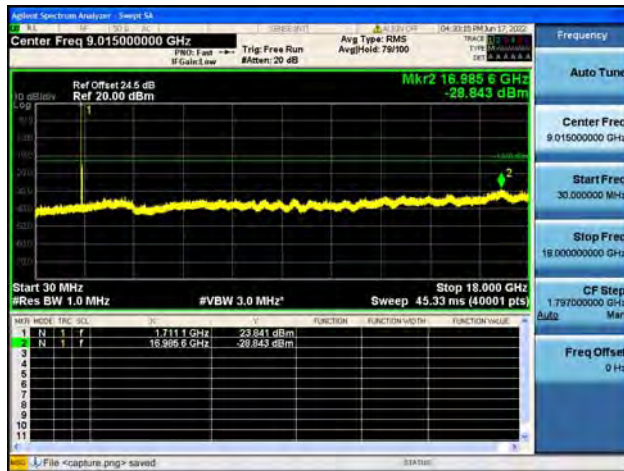


B66 / 10MHz / High CH / 16QAM

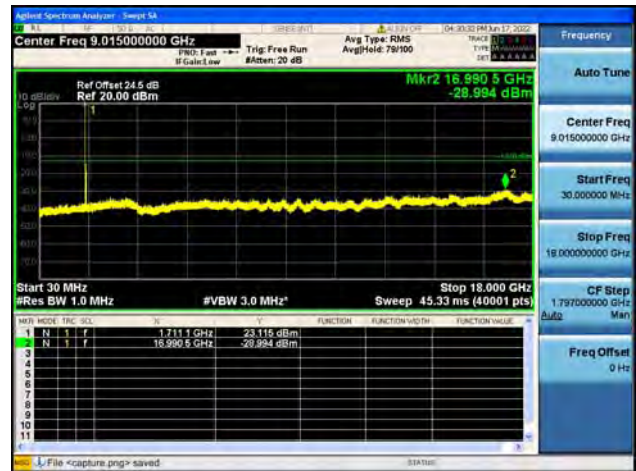




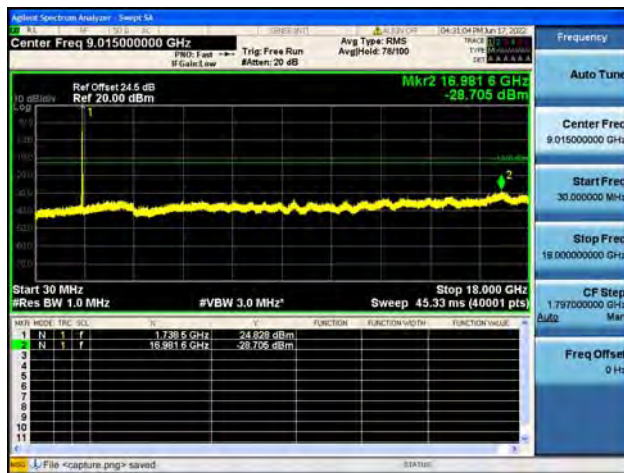
B66 / 15MHz / Low CH / QPSK



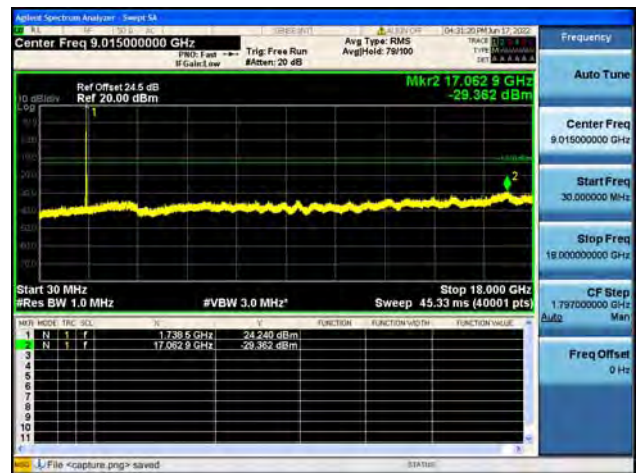
B66 / 15MHz / Low CH / 16QAM



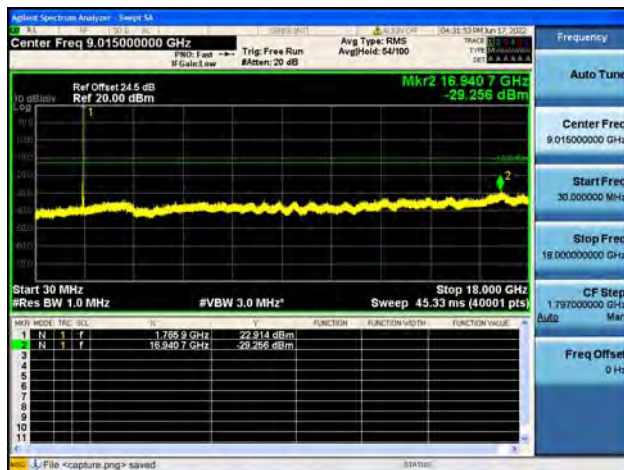
B66 / 15MHz / Mid CH / QPSK



B66 / 15MHz / Mid CH / 16QAM



B66 / 15MHz / High CH / QPSK

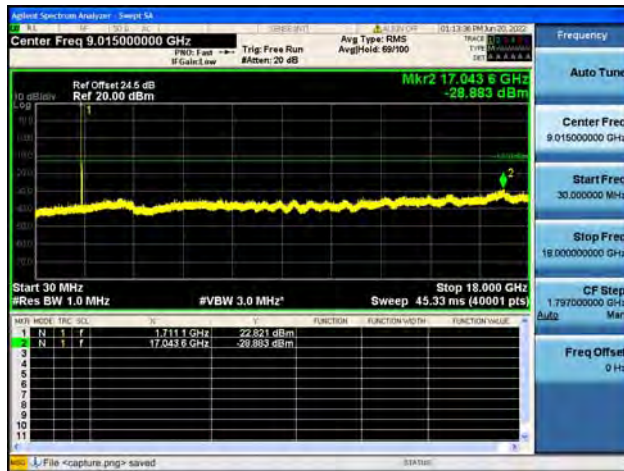


B66 / 15MHz / High CH / 16QAM

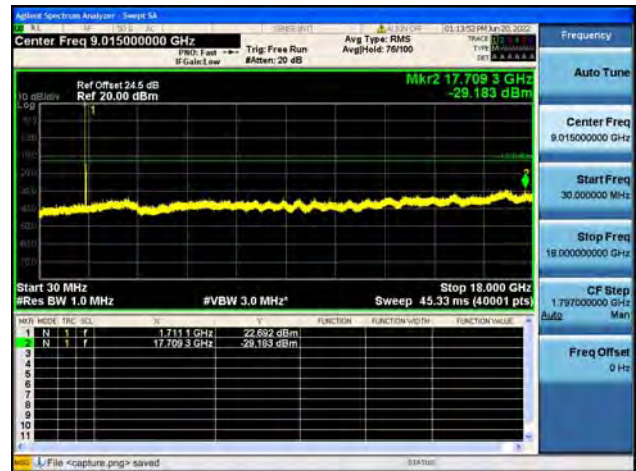




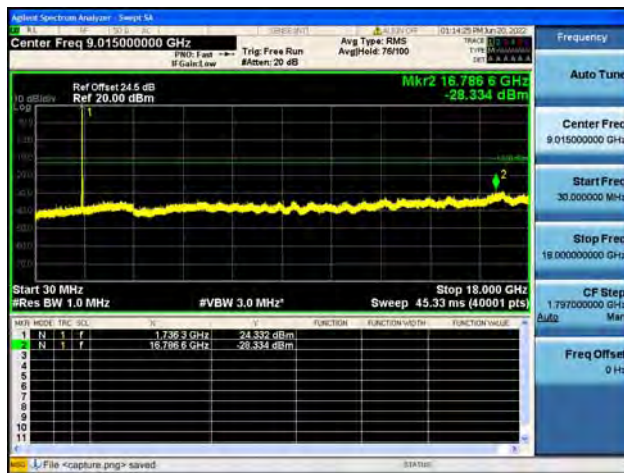
B66 / 20MHz / Low CH / QPSK



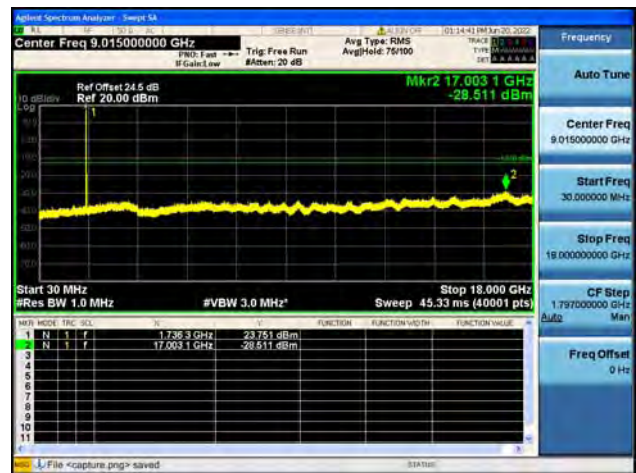
B66 / 20MHz / Low CH / 16QAM



B66 / 20MHz / Mid CH / QPSK



B66 / 20MHz / Mid CH / 16QAM



B66 / 20MHz / High CH / QPSK



B66 / 20MHz / High CH / 16QAM





2.6. Band Edge

2.6.1. Requirement

Band 2

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 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

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 12

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.

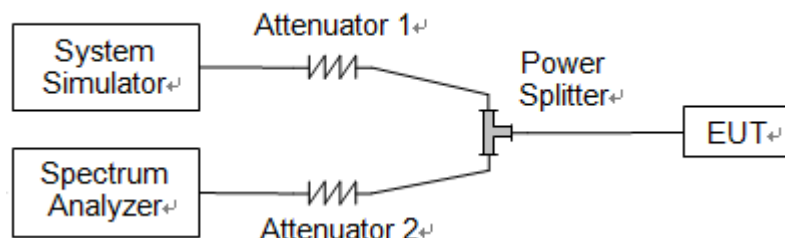


Band 30

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;
- (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.

2.6.2. Description



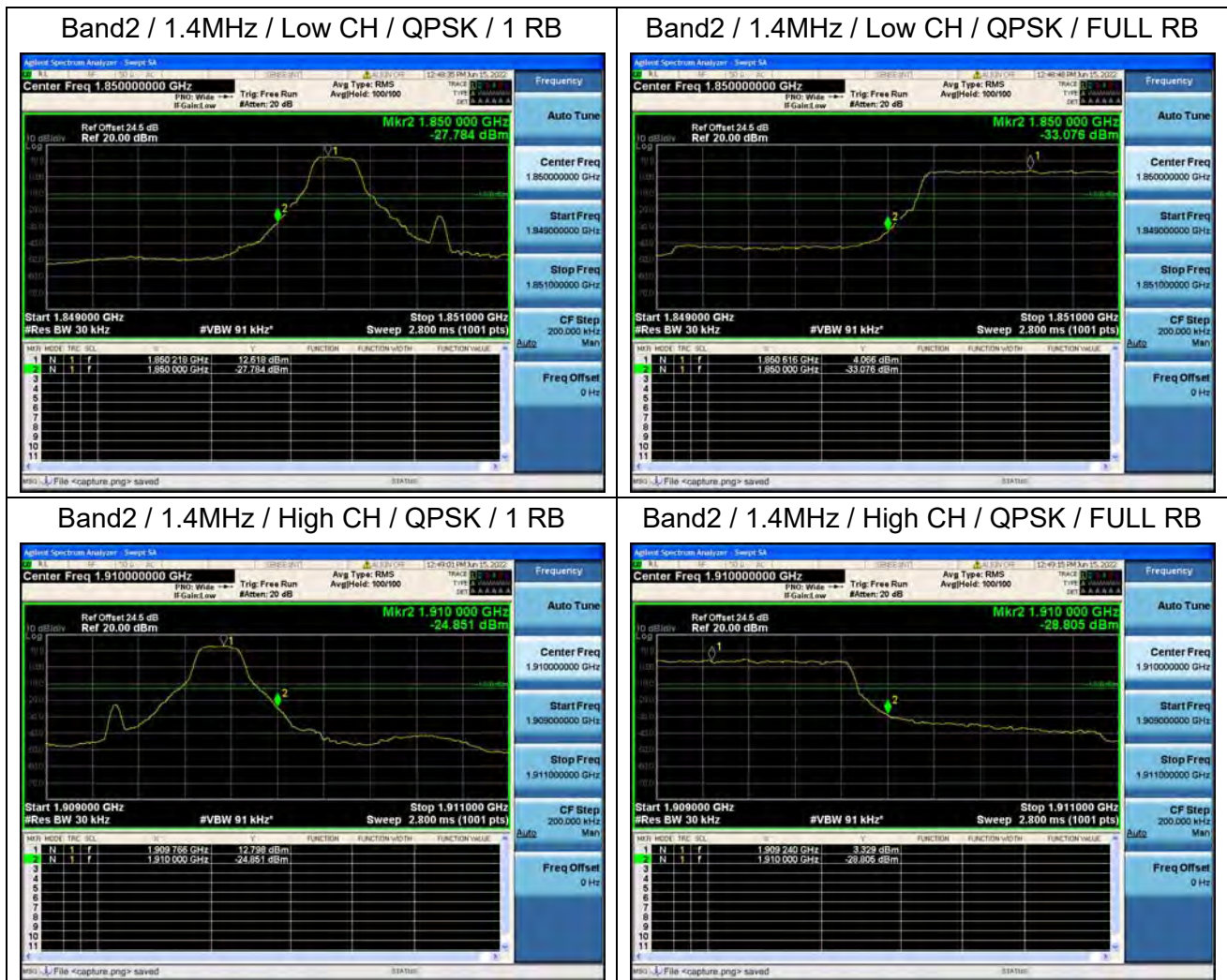
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test Procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

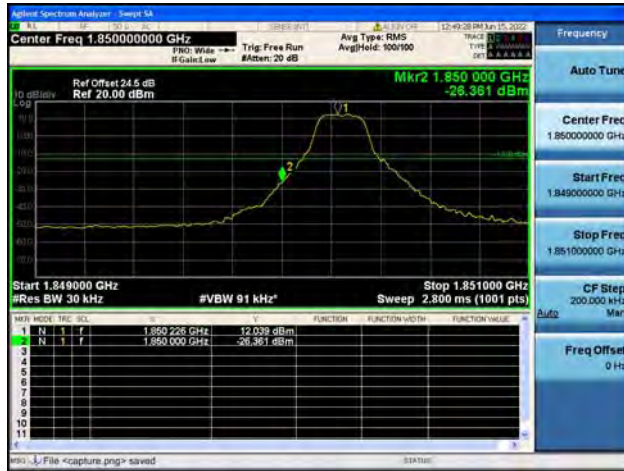


2.6.4. Test Result





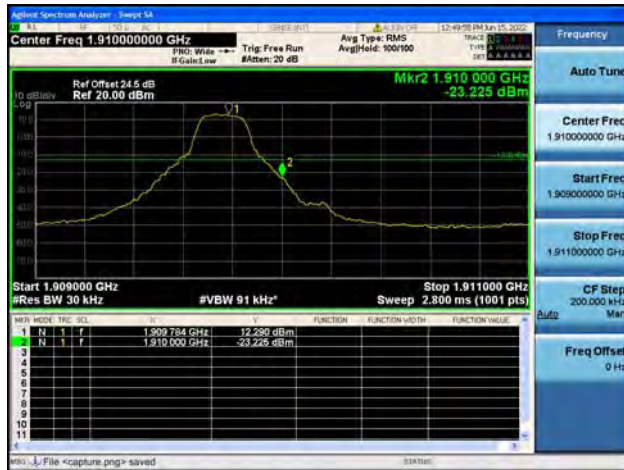
Band2 / 3MHz / Low CH / QPSK / 1 RB



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 / 15MHz / Low CH / QPSK / 1 RB



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



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



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



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



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



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



Band2 / 20MHz / High CH / QPSK / FULL RB





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



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



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



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



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





Band4 / 5MHz / Low CH / QPSK / 1 RB



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



Band4 / 5MHz / High CH / QPSK / 1 RB



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



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



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



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



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 RBV



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

