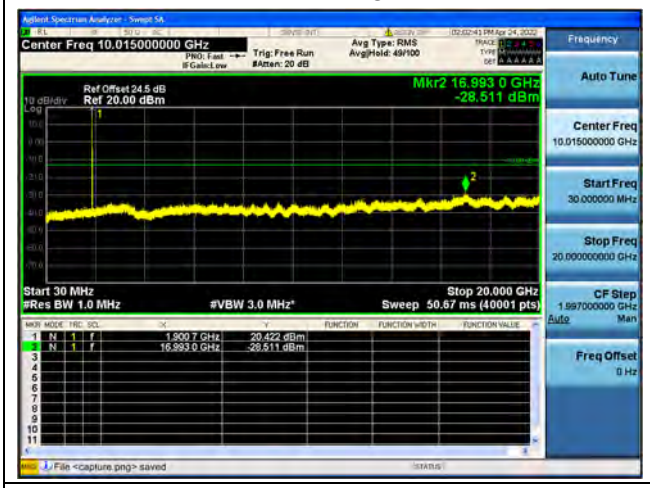
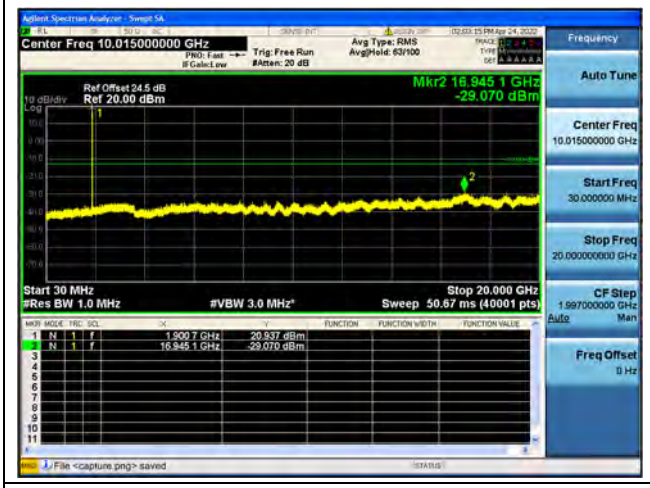
Band25 / 15MHz / High CH / QPSK



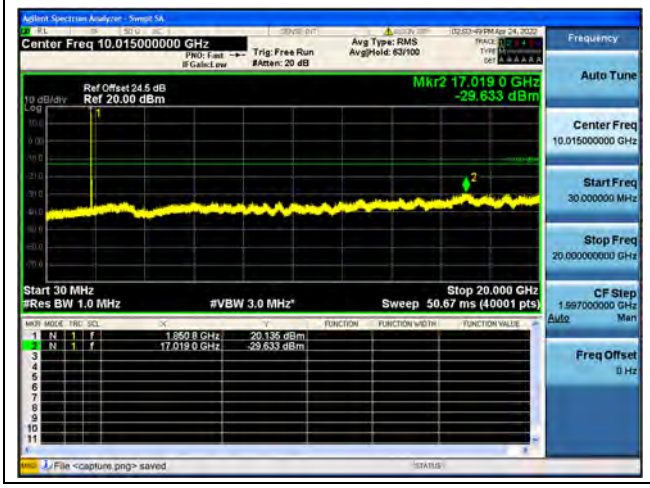
Band25 / 15MHz / High CH / 16QAM

Band25 / 15MHz / High CH / 64QAM



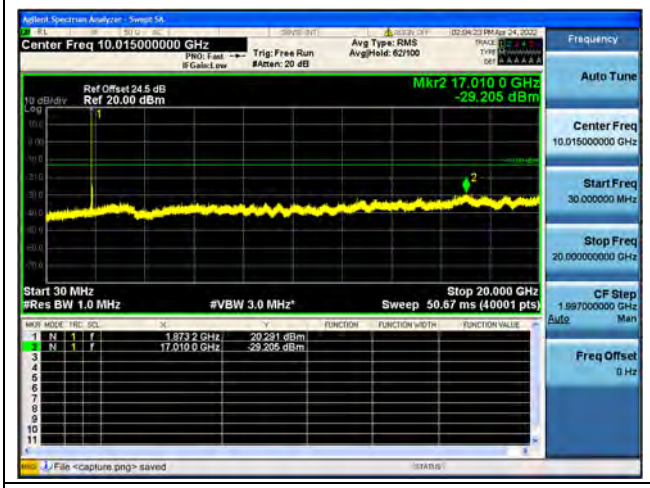
Band25 / 20MHz / Low CH / QPSK

Band25 / 20MHz / Low CH / 16QAM



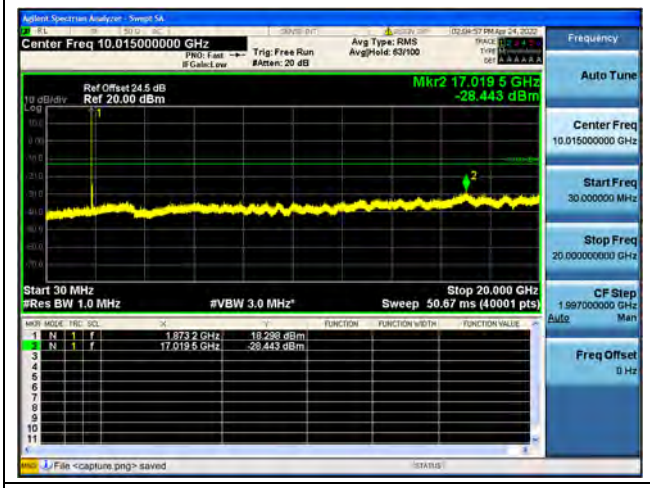
Band25 / 20MHz / Low CH / 64QAM

Band25 / 20MHz / Mid CH / QPSK



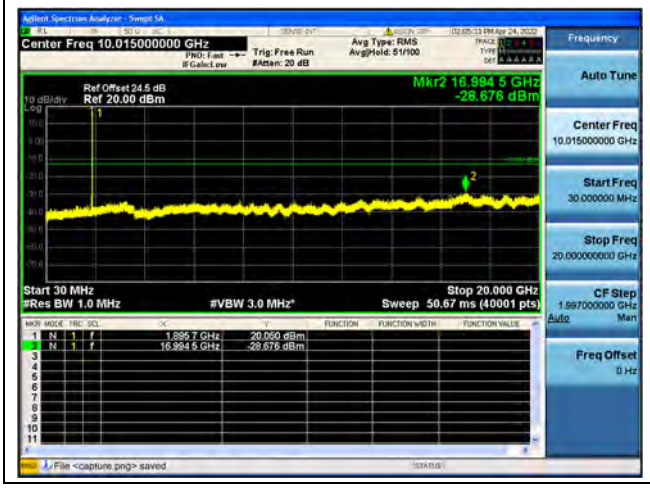
Band25 / 20MHz / Mid CH / 16QAM

Band25 / 20MHz / Mid CH / 64QAM



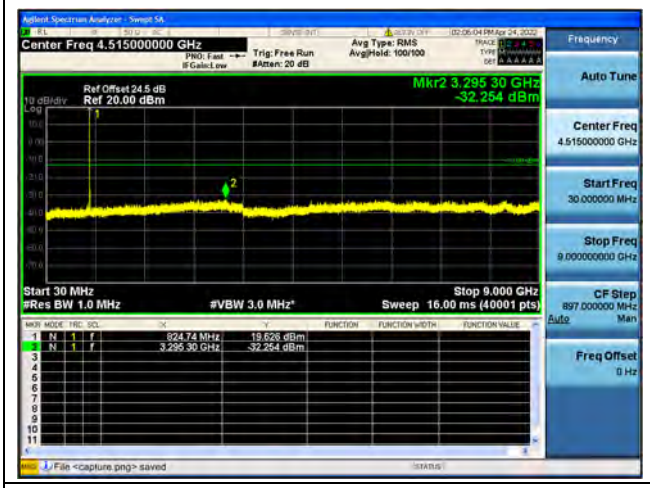
Band25 / 20MHz / High CH / QPSK

Band25 / 20MHz / High CH / 16QAM



Band25 / 20MHz / High CH / 64QAM

Band26Part22 / 1.4MHz / Low CH / QPSK

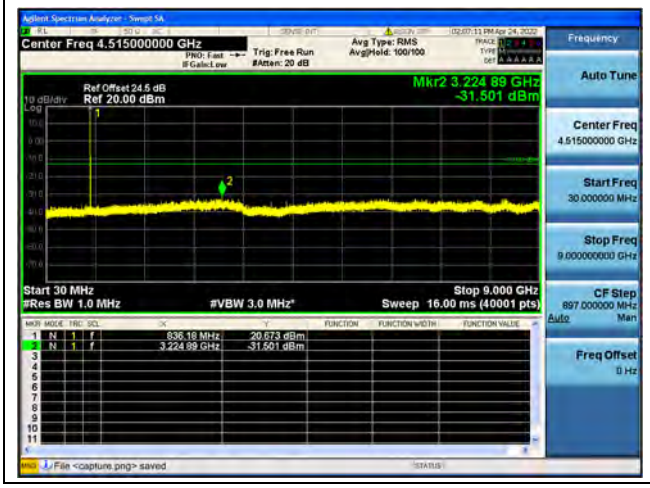


Band26Part22 / 1.4MHz / Low CH / 16QAM

Band26Part22 / 1.4MHz / Low CH / 64QAM

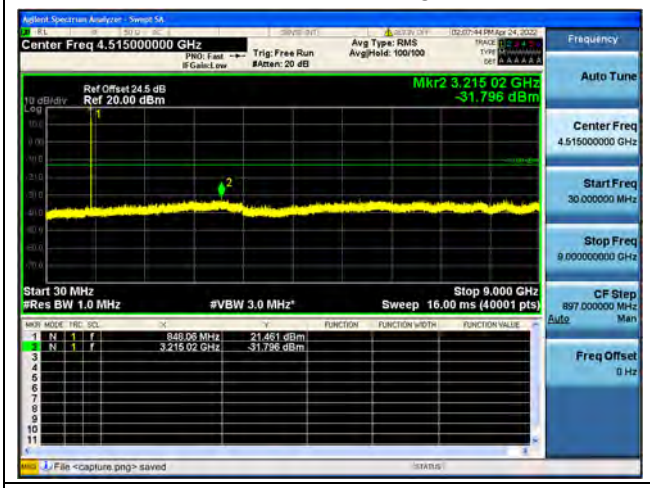
Band26Part22 / 1.4MHz / Mid CH / QPSK

Band26Part22 / 1.4MHz / Mid CH / 16QAM



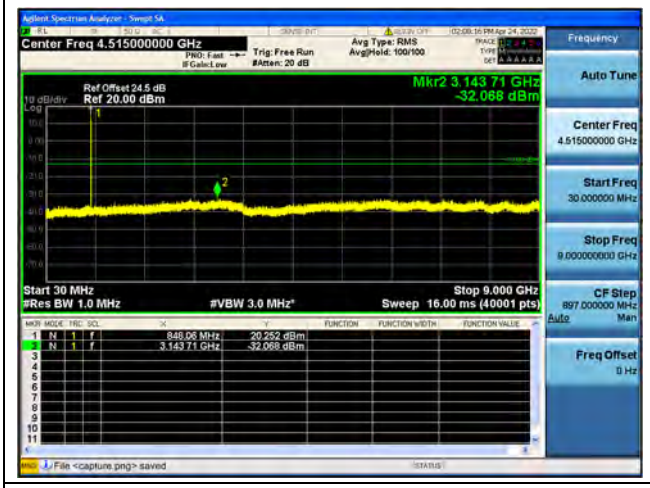
Band26Part22 / 1.4MHz / Mid CH / 64QAM

Band26Part22 / 1.4MHz / High CH / QPSK



Band26Part22 / 1.4MHz / High CH / 16QAM

Band26Part22 / 1.4MHz / High CH / 64QAM

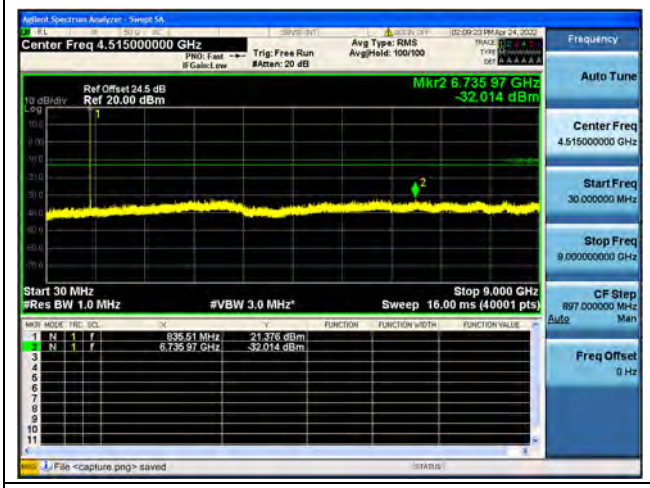


Band26Part22 / 3MHz / Low CH / QPSK

Band26Part22 / 3MHz / Low CH / 16QAM

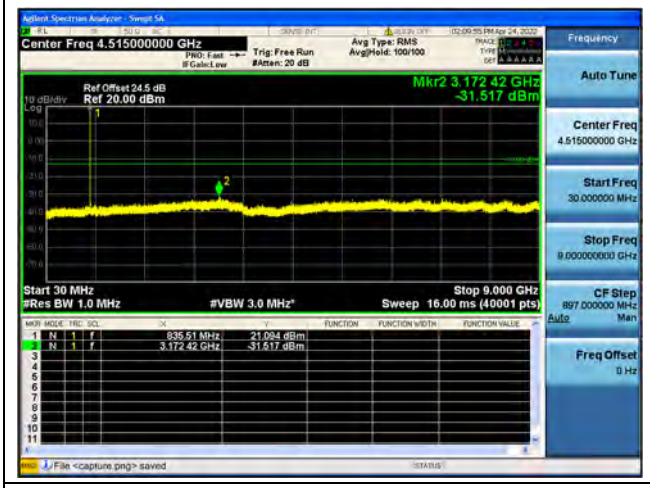
Band26Part22 / 3MHz / Low CH / 64QAM

Band26Part22 / 3MHz / Mid CH / QPSK



Band26Part22 / 3MHz / Mid CH / 16QAM

Band26Part22 / 3MHz / Mid CH / 64QAM

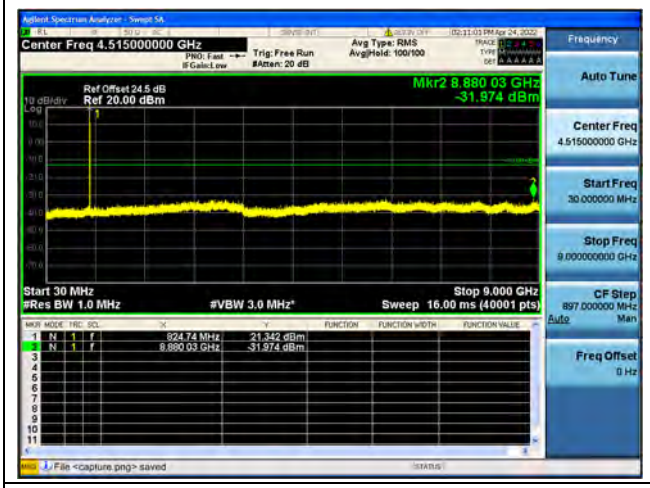


Band26Part22 / 3MHz / High CH / QPSK

Band26Part22 / 3MHz / High CH / 16QAM

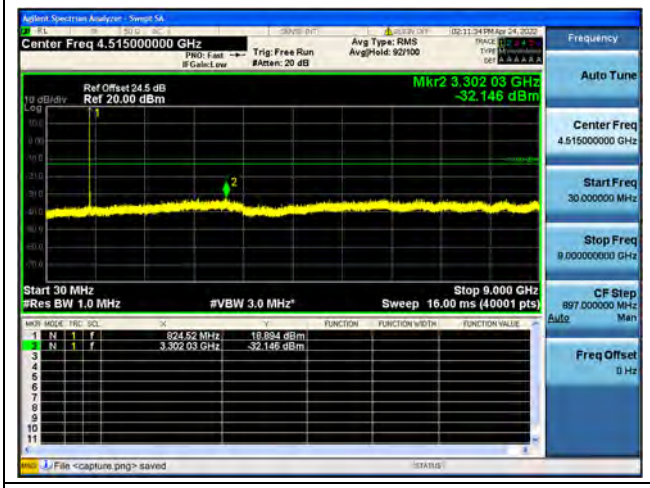
Band26Part22 / 3MHz / High CH / 64QAM

Band26Part22 / 5MHz / Low CH / QPSK



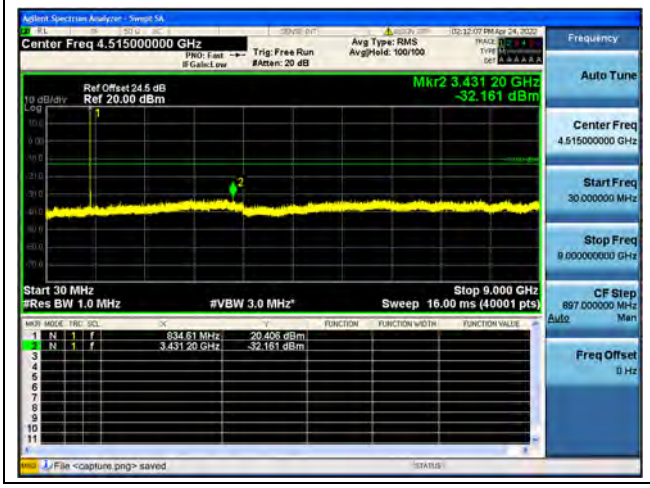
Band26Part22 / 5MHz / Low CH / 16QAM

Band26Part22 / 5MHz / Low CH / 64QAM



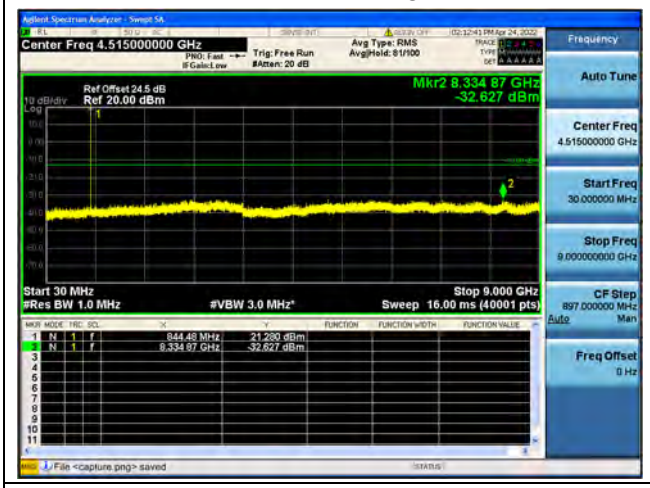
Band26Part22 / 5MHz / Mid CH / QPSK

Band26Part22 / 5MHz / Mid CH / 16QAM



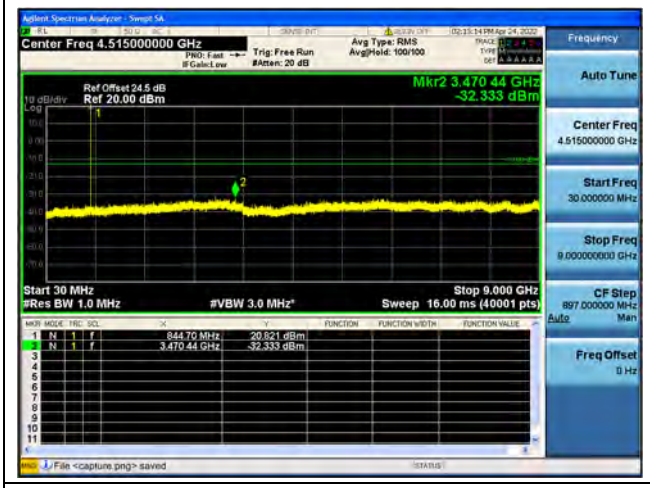
Band26Part22 / 5MHz / Mid CH / 64QAM

Band26Part22 / 5MHz / High CH / QPSK



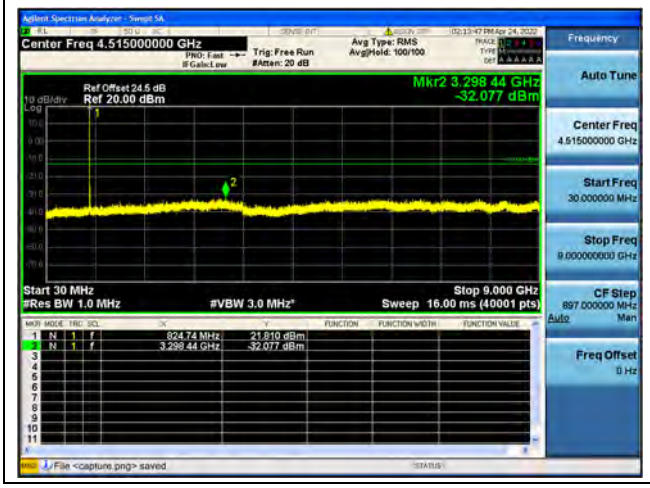
Band26Part22 / 5MHz / High CH / 16QAM

Band26Part22 / 5MHz / High CH / 64QAM



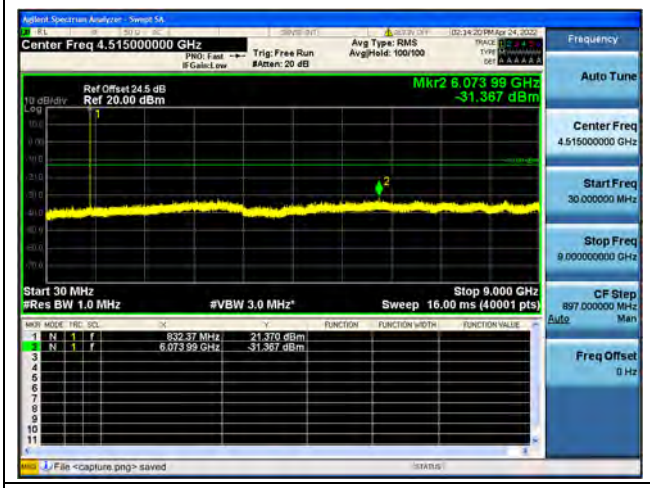
Band26Part22 / 10MHz / Low CH / QPSK

Band26Part22 / 10MHz / Low CH / 16QAM



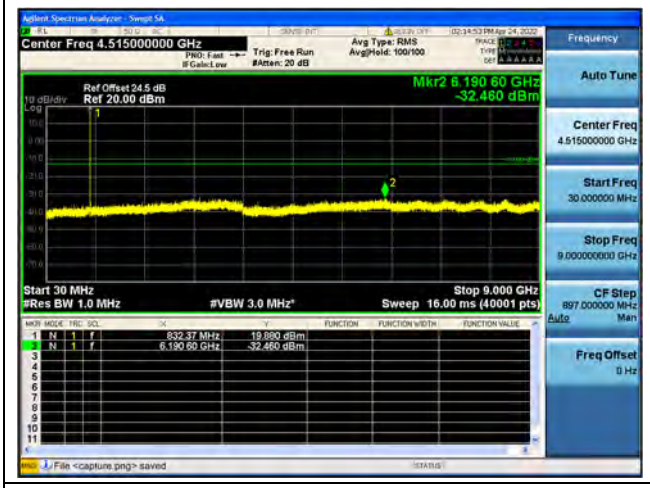
Band26Part22 / 10MHz / Low CH / 64QAM

Band26Part22 / 10MHz / Mid CH / QPSK



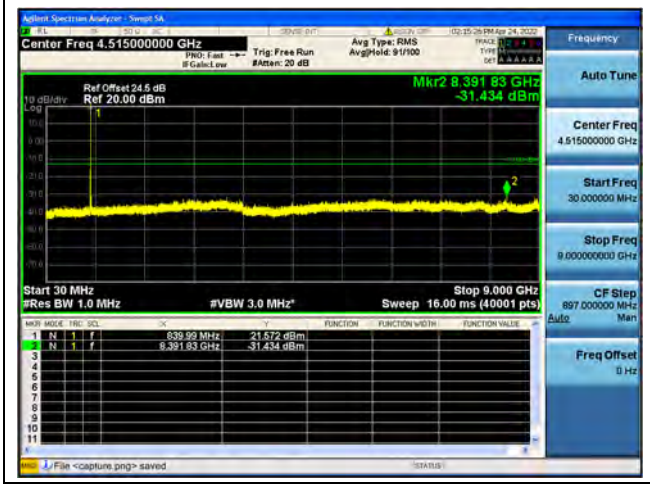
Band26Part22 / 10MHz / Mid CH / 16QAM

Band26Part22 / 10MHz / Mid CH / 64QAM



Band26Part22 / 10MHz / High CH / QPSK

Band26Part22 / 10MHz / High CH / 16QAM

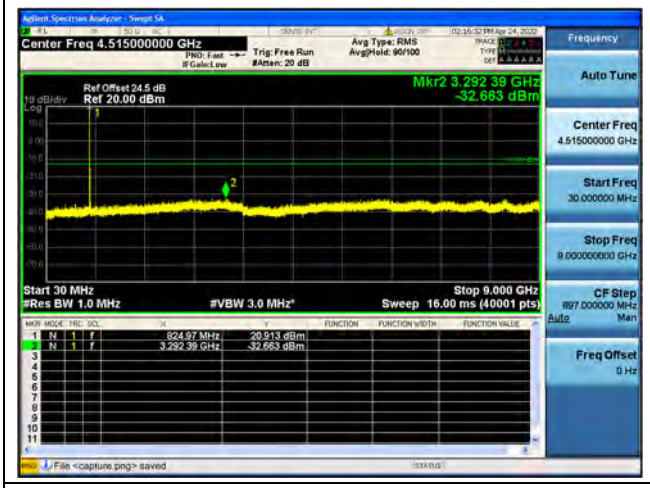


Band26Part22 / 10MHz / High CH / 64QAM

Band26Part22 / 15MHz / Low CH / QPSK

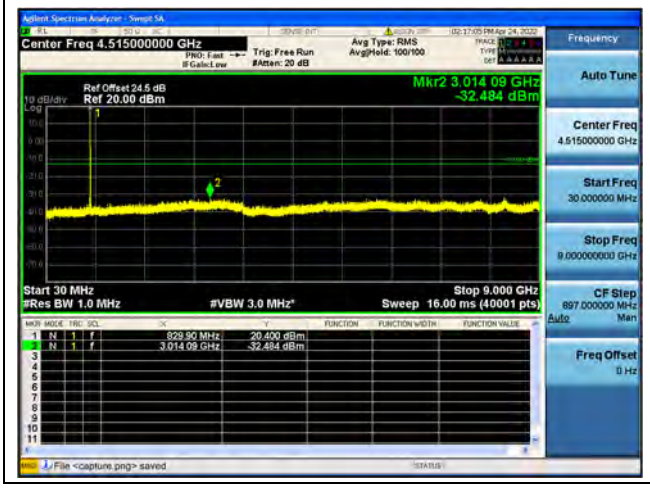
Band26Part22 / 15MHz / Low CH / 16QAM

Band26Part22 / 15MHz / Low CH / 64QAM



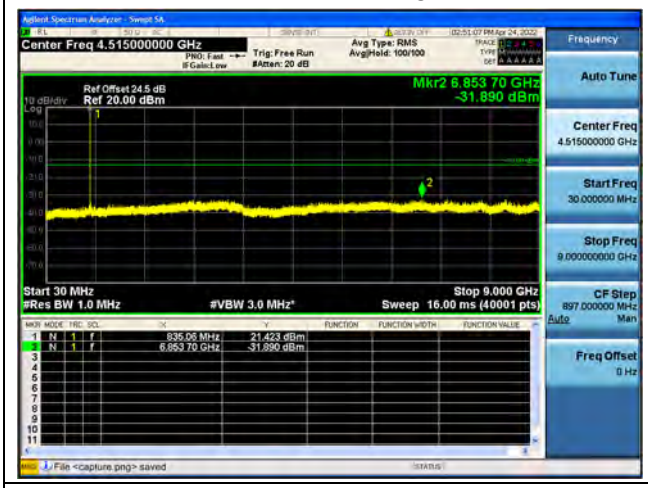
Band26Part22 / 15MHz / Mid CH / QPSK

Band26Part22 / 15MHz / Mid CH / 16QAM



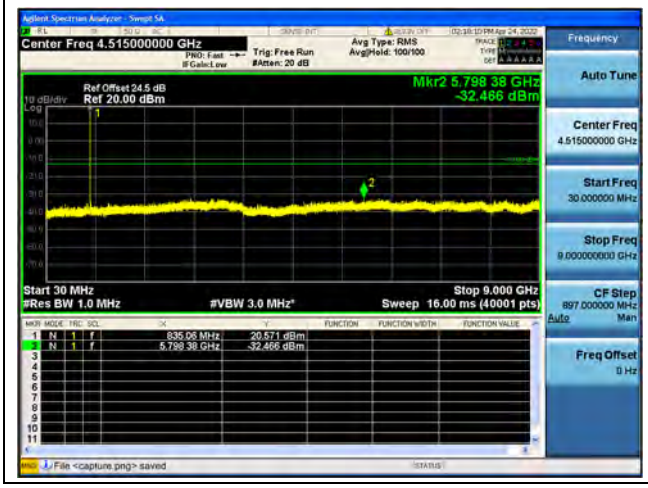
Band26Part22 / 15MHz / Mid CH / 64QAM

Band26Part22 / 15MHz / High CH / QPSK

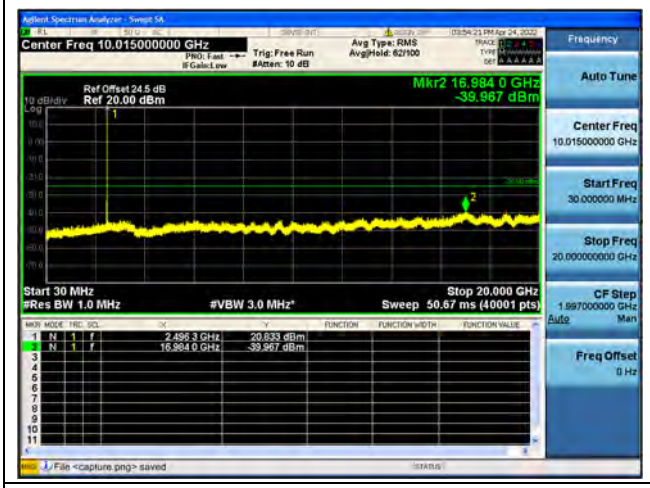


Band26Part22 / 15MHz / High CH / 16QAM

Band26Part22 / 15MHz / High CH / 64QAM

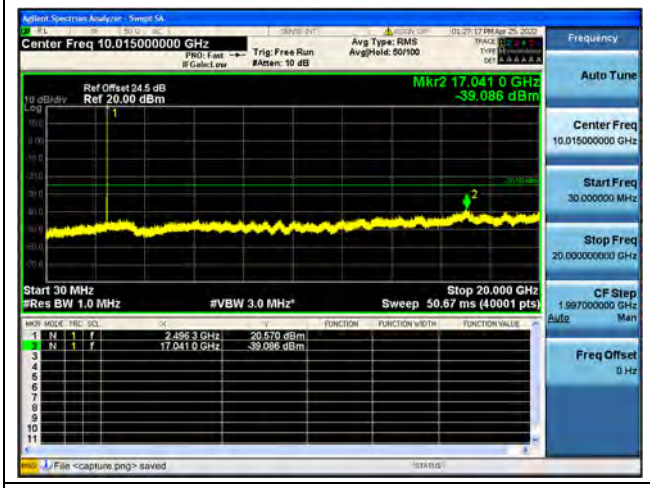


Band41-30M-20G / 5MHz / Low CH / QPSK



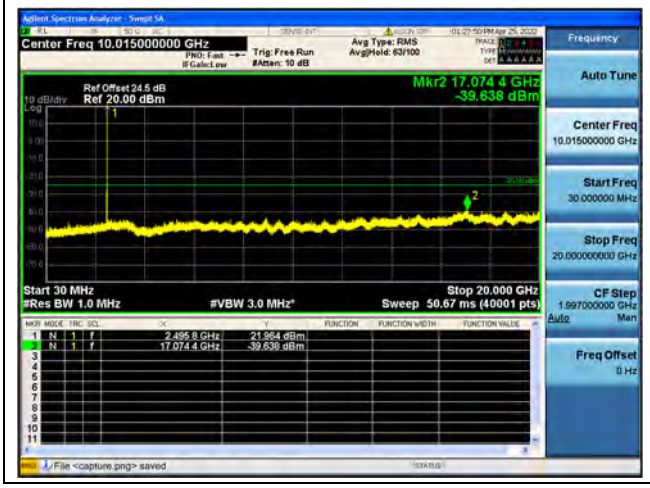
Band41-20G-27G / 5MHz / Low CH / QPSK

Band41-30M-20G / 5MHz / Low CH / 16QAM



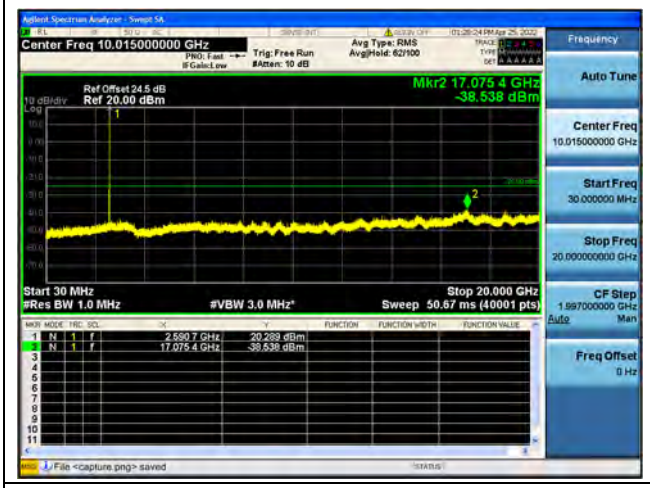
Band41-20G-27G / 5MHz / Low CH / 16QAM

Band41-30M-20G / 5MHz / Low CH / 64QAM



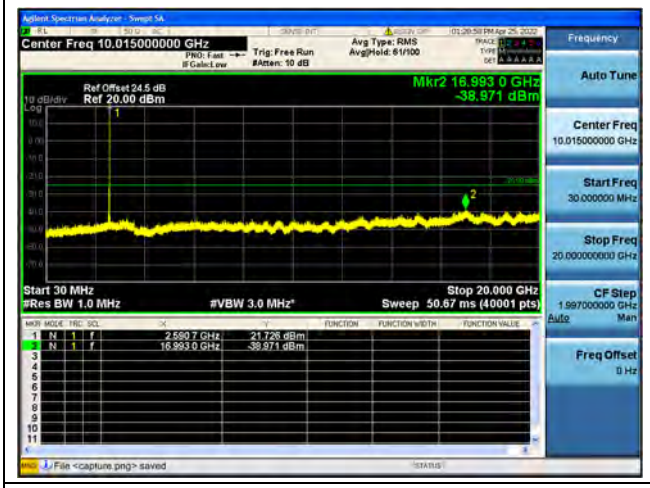
Band41-20G-27G / 5MHz / Low CH / 64QAM

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

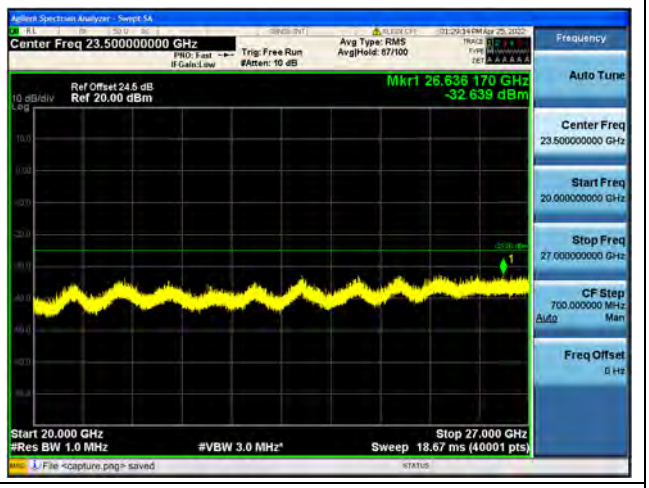


Band41-20G-27G / 5MHz / Mid CH / QPSK

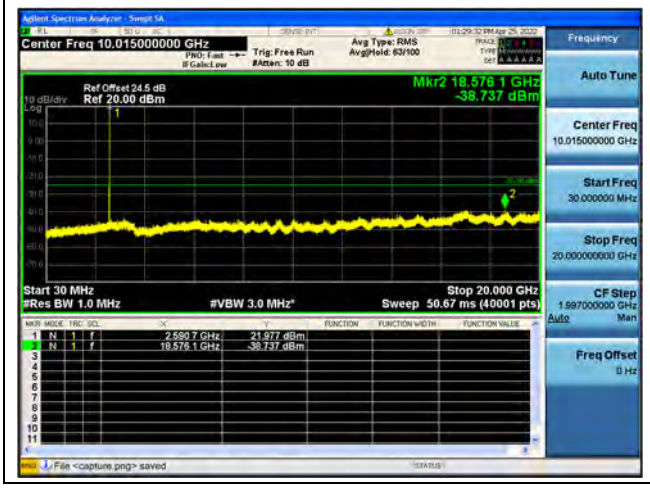
Band41-30M-20G / 5MHz / Mid CH / 16QAM



Band41-20G-27G / 5MHz / Mid CH / 16QAM

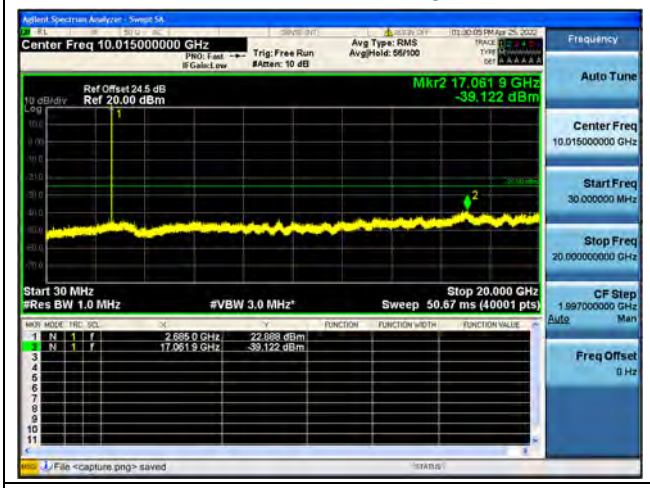


Band41-30M-20G / 5MHz / Mid CH / 64QAM



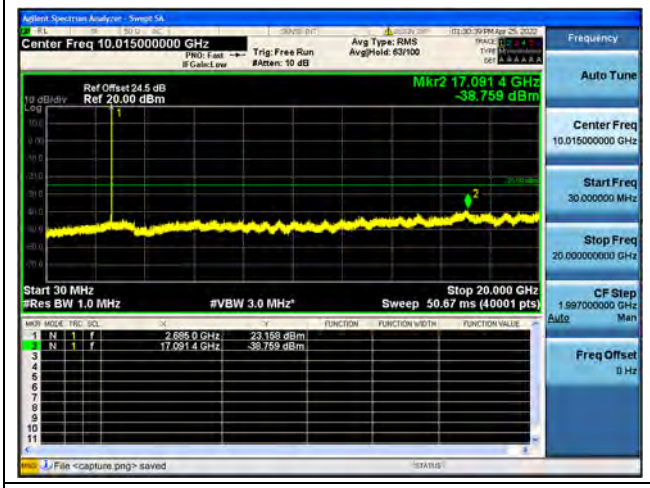
Band41-20G-27G / 5MHz / Mid CH / 64QAM

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



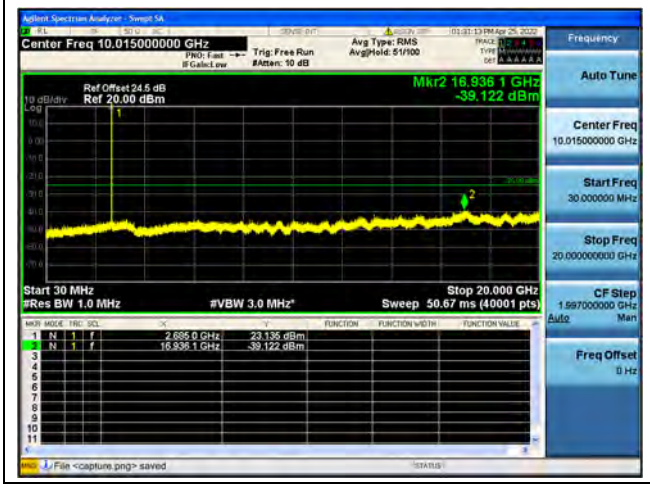
Band41-20G-27G / 5MHz / High CH / QPSK

Band41-30M-20G / 5MHz / High CH / 16QAM



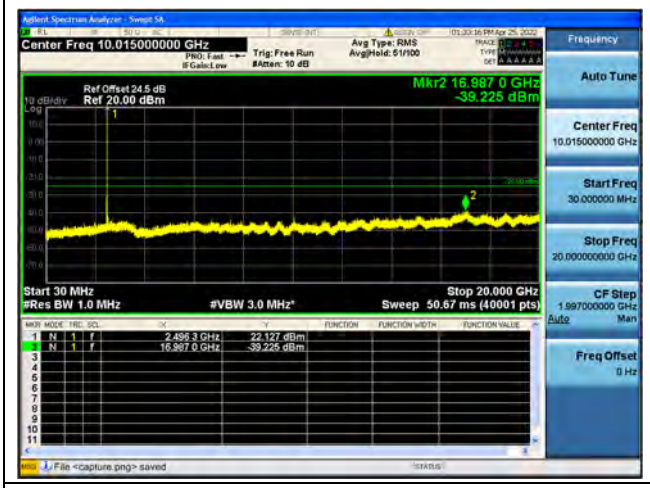
Band41-20G-27G / 5MHz / High CH / 16QAM

Band41-30M-20G / 5MHz / High CH / 64QAM



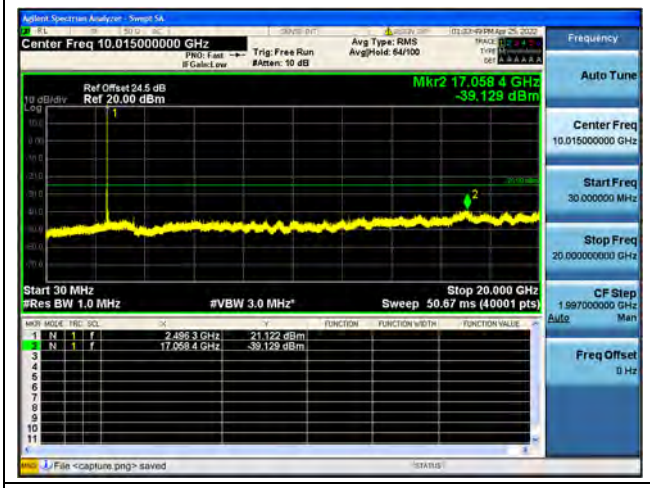
Band41-20G-27G / 5MHz / High CH / 64QAM

Band41-30M-20G / 10MHz / Low CH / QPSK



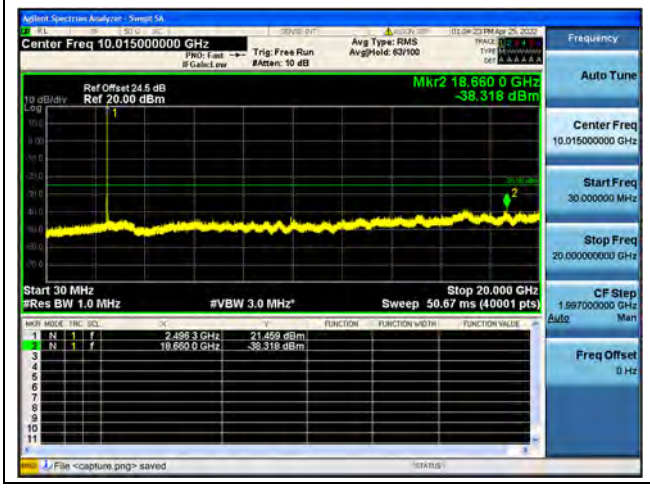
Band41-20G-27G / 10MHz / Low CH / QPSK

Band41-30M-20G / 10MHz / Low CH / 16QAM



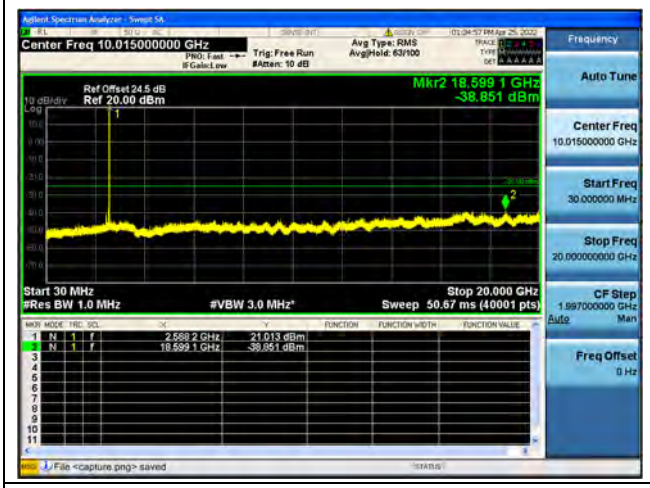
Band41-20G-27G / 10MHz / Low CH / 16QAM

Band41-30M-20G / 10MHz / Low CH / 64QAM



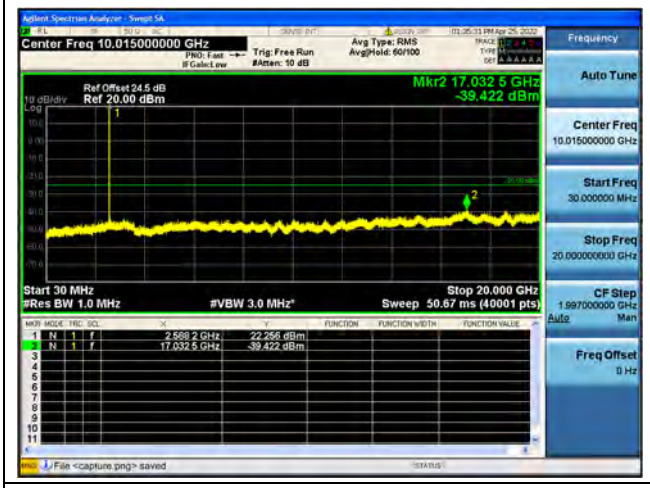
Band41-20G-27G / 10MHz / Low CH / 64QAM

Band41-30M-20G / 10MHz / Mid CH / QPSK



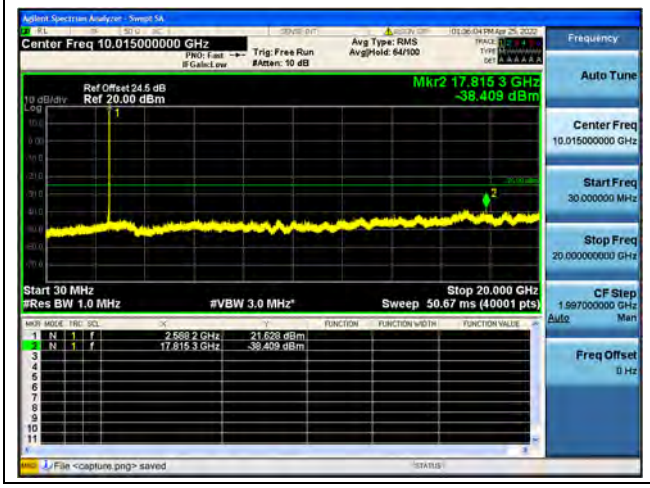
Band41-20G-27G / 10MHz / Mid CH / QPSK

Band41-30M-20G / 10MHz / Mid CH / 16QAM



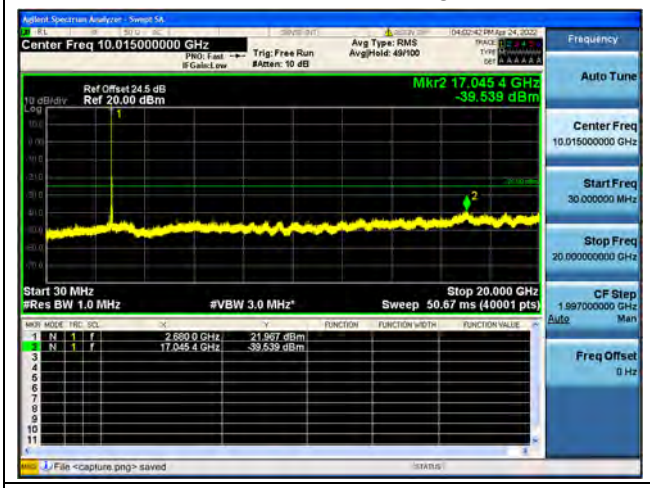
Band41-20G-27G / 10MHz / Mid CH / 16QAM

Band41-30M-20G / 10MHz / Mid CH / 64QAM



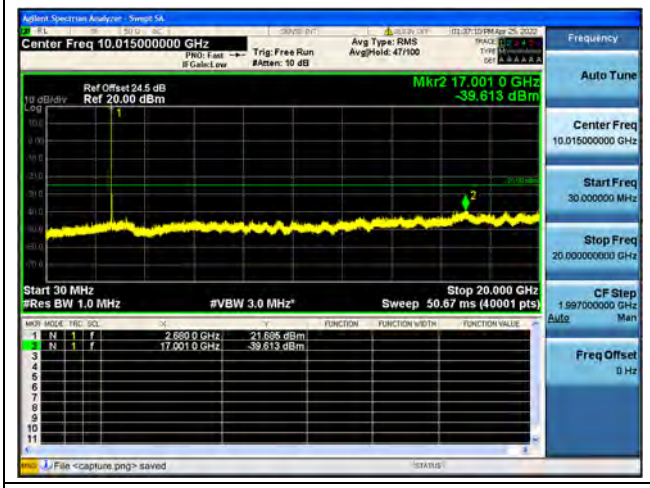
Band41-20G-27G / 10MHz / Mid CH / 64QAM

Band41-30M-20G / 10MHz / High CH / QPSK



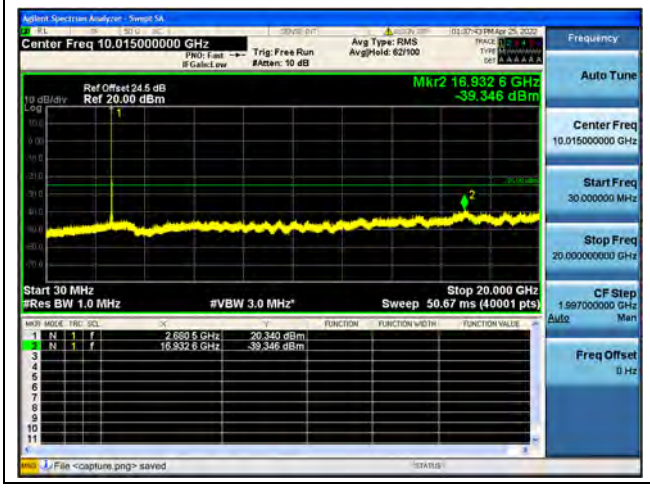
Band41-20G-27G / 10MHz / High CH / QPSK

Band41-30M-20G / 10MHz / High CH / 16QAM



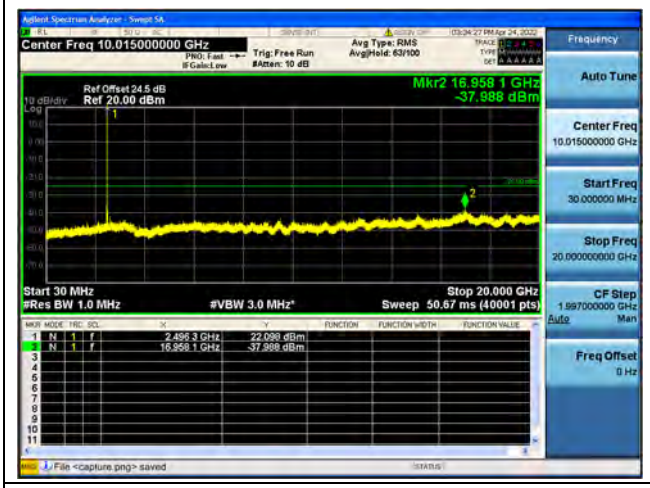
Band41-20G-27G / 10MHz / High CH / 16QAM

Band41-30M-20G / 10MHz / High CH / 64QAM



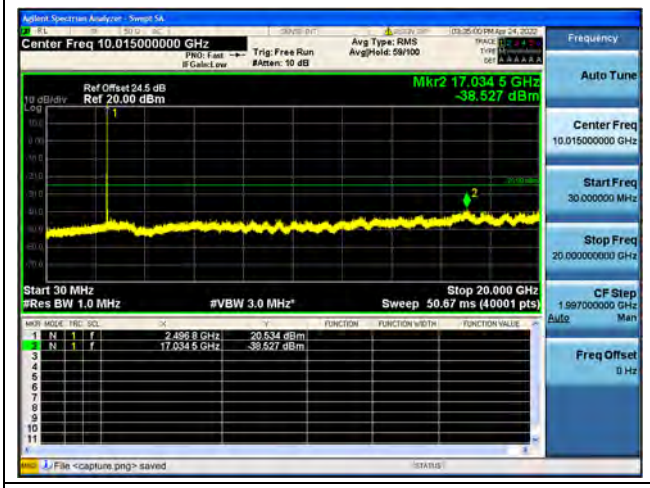
Band41-20G-27G / 10MHz / High CH / 64QAM

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

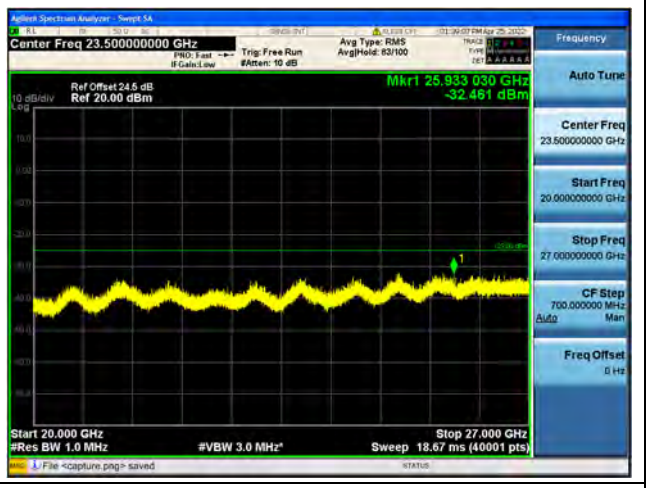


Band41-20G-27G / 15MHz / Low CH / QPSK

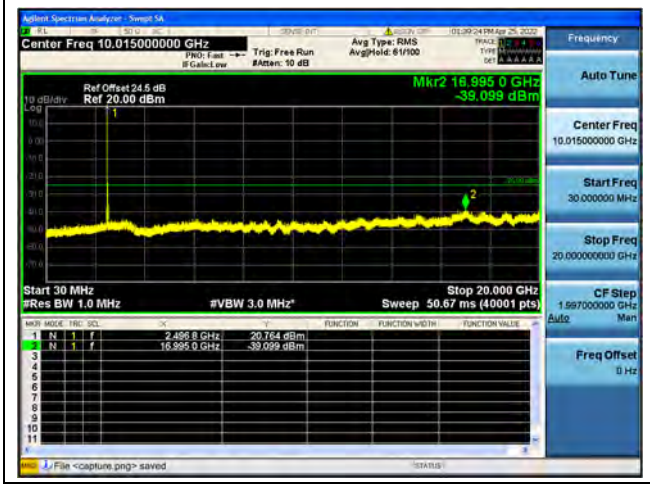
Band41-30M-20G / 15MHz / Low CH / 16QAM



Band41-20G-27G / 15MHz / Low CH / 16QAM

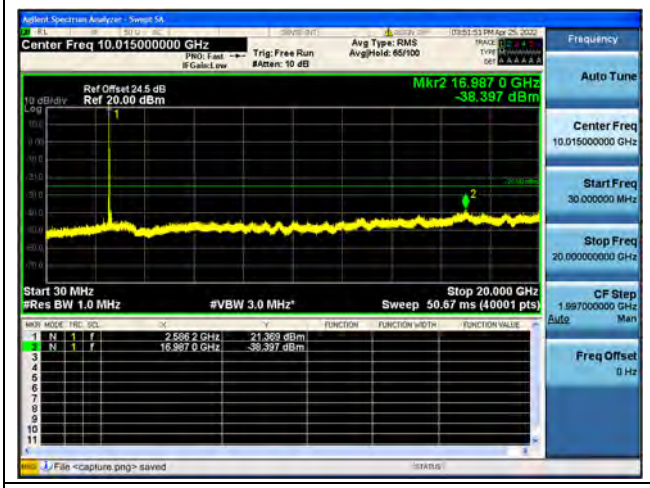


Band41-30M-20G / 15MHz / Low CH / 64QAM



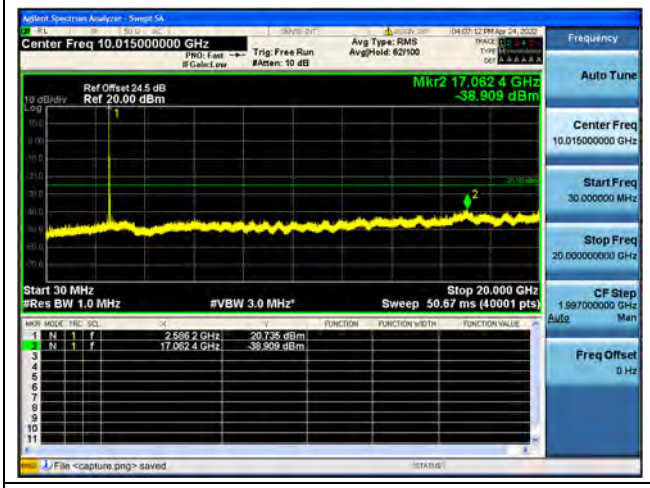
Band41-20G-27G / 15MHz / Low CH / 64QAM

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



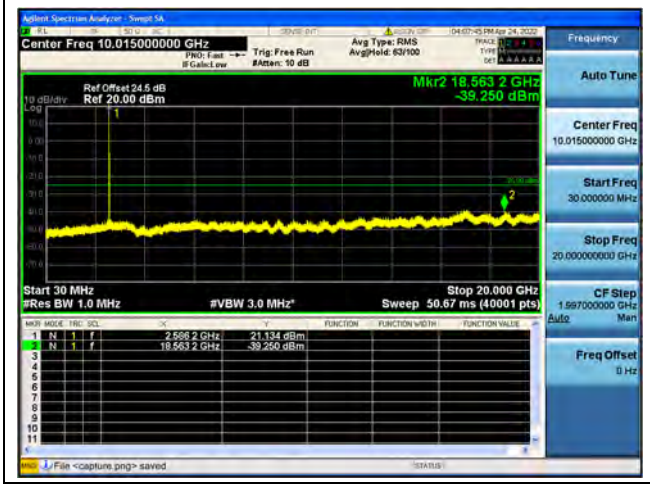
Band41-20G-27G / 15MHz / Mid CH / QPSK

Band41-30M-20G / 15MHz / Mid CH / 16QAM



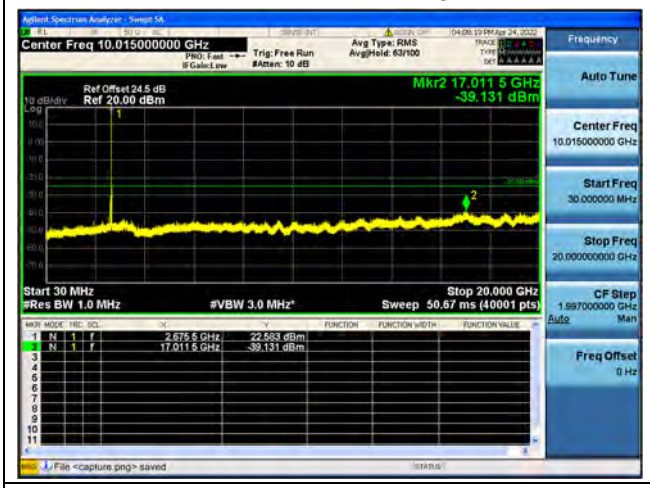
Band41-20G-27G / 15MHz / Mid CH / 16QAM

Band41-30M-20G / 15MHz / Mid CH / 64QAM



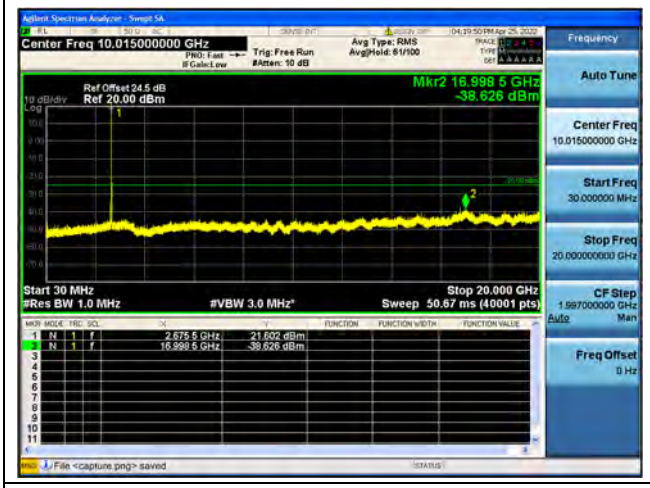
Band41-20G-27G / 15MHz / Mid CH / 64QAM

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



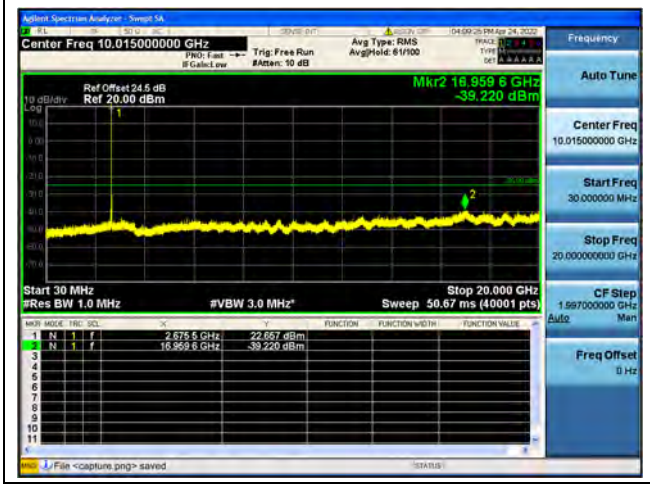
Band41-20G-27G / 15MHz / High CH / QPSK

Band41-30M-20G / 15MHz / High CH / 16QAM



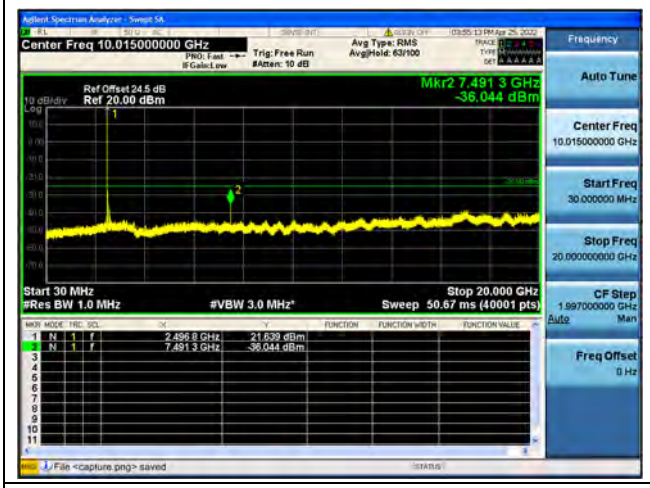
Band41-20G-27G / 15MHz / High CH / 16QAM

Band41-30M-20G / 15MHz / High CH / 64QAM



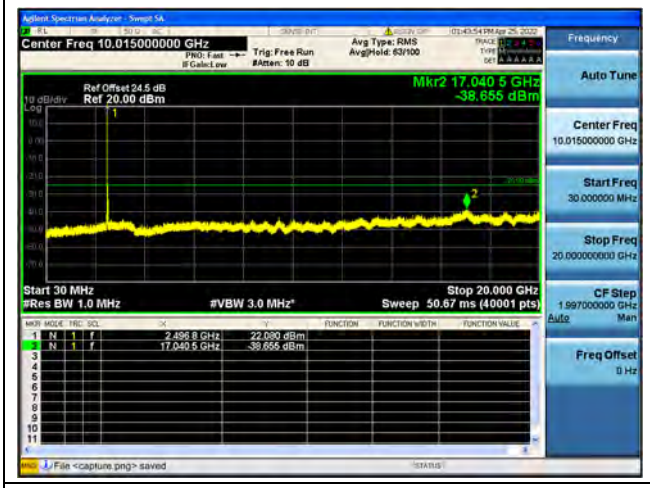
Band41-20G-27G / 15MHz / High CH / 64QAM

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



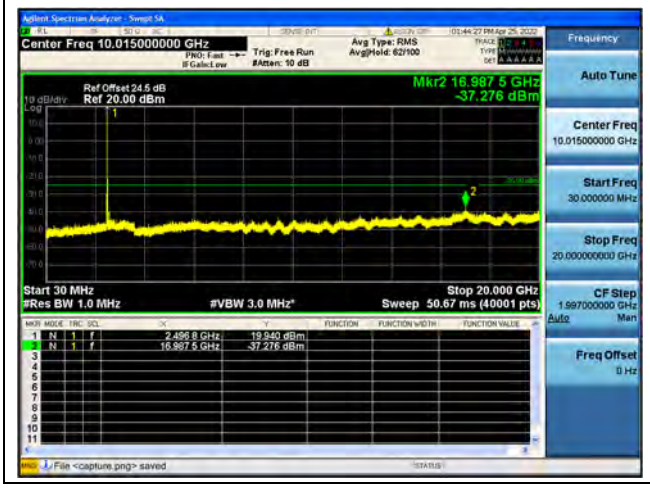
Band41-20G-27G / 20MHz / Low CH / QPSK

Band41-30M-20G / 20MHz / Low CH / 16QAM



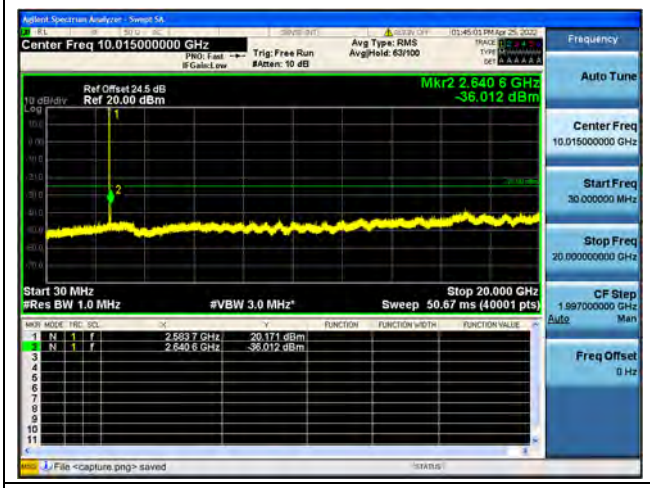
Band41-20G-27G / 20MHz / Low CH / 16QAM

Band41-30M-20G / 20MHz / Low CH / 64QAM



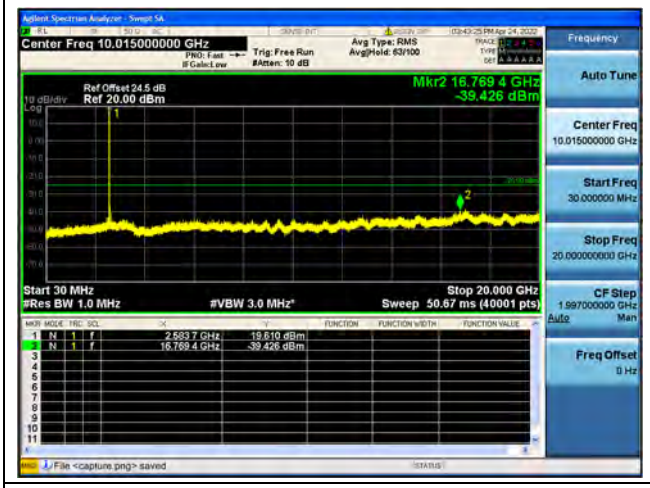
Band41-20G-27G / 20MHz / Low CH / 64QAM

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



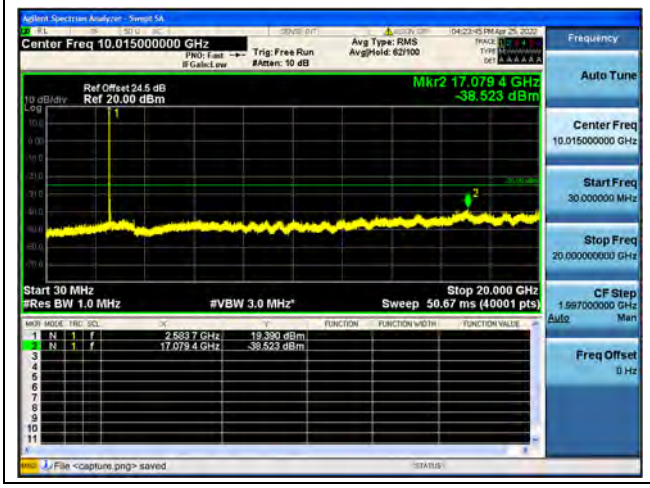
Band41-20G-27G / 20MHz / Mid CH / QPSK

Band41-30M-20G / 20MHz / Mid CH / 16QAM



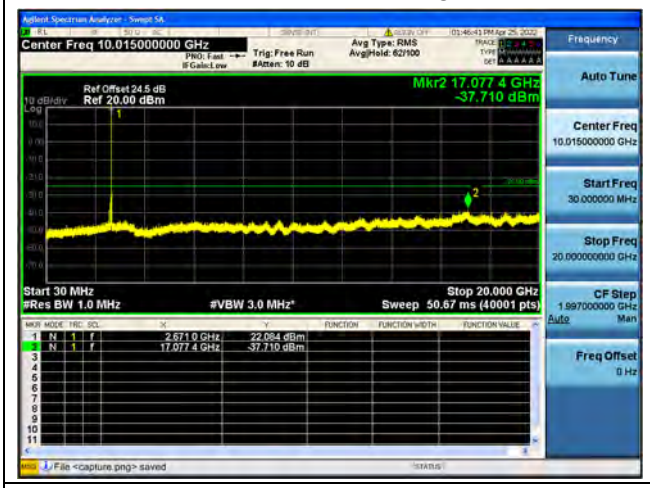
Band41-20G-27G / 20MHz / Mid CH / 16QAM

Band41-30M-20G / 20MHz / Mid CH / 64QAM



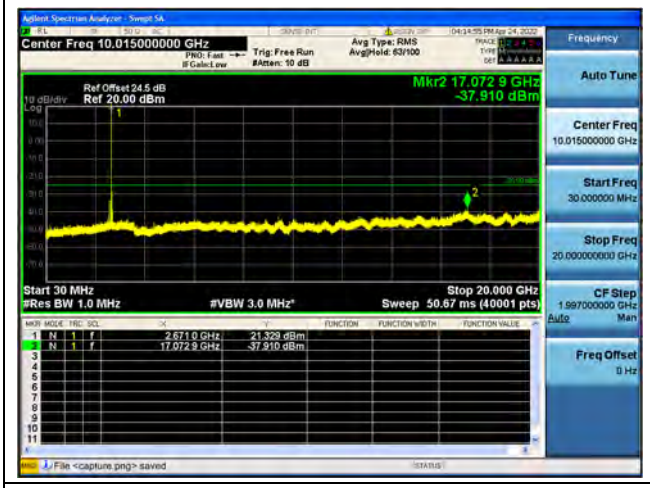
Band41-20G-27G / 20MHz / Mid CH / 64QAM

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



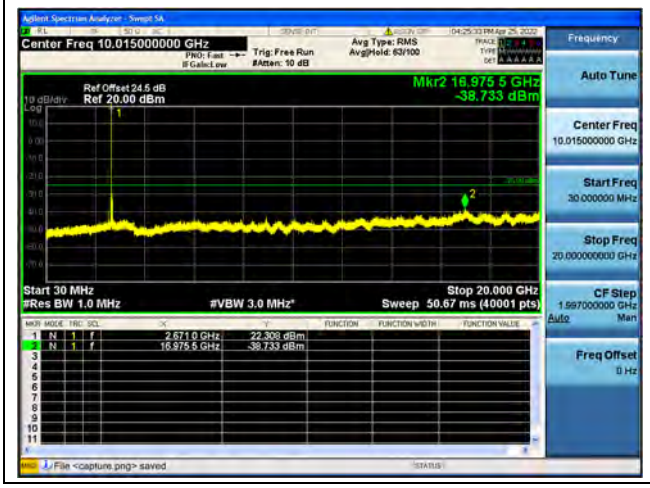
Band41-20G-27G / 20MHz / High CH / QPSK

Band41-30M-20G / 20MHz / High CH / 16QAM



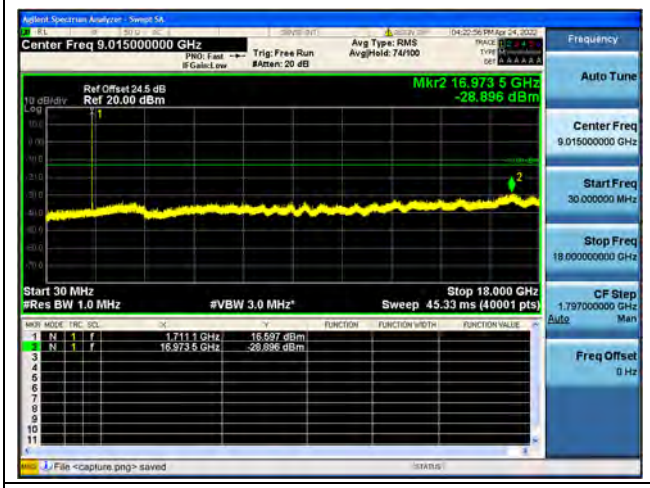
Band41-20G-27G / 20MHz / High CH / 16QAM

Band41-30M-20G / 20MHz / High CH / 64QAM



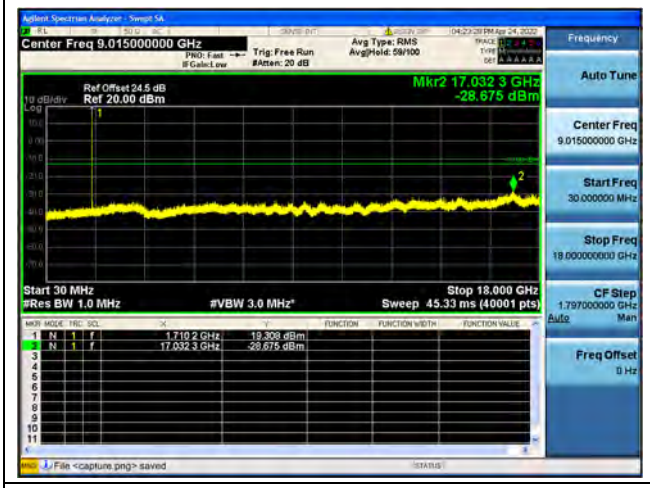
Band41-20G-27G / 20MHz / High CH / 64QAM

Band66 / 1.4MHz / Low CH / QPSK



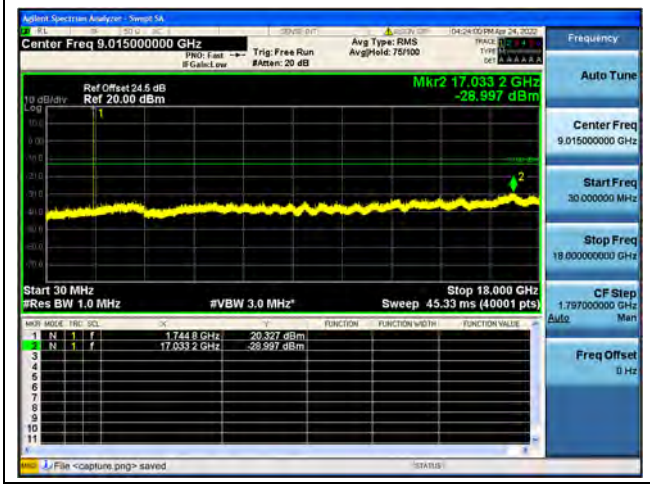
Band66 / 1.4MHz / Low CH / 16QAM

Band66 / 1.4MHz / Low CH / 64QAM



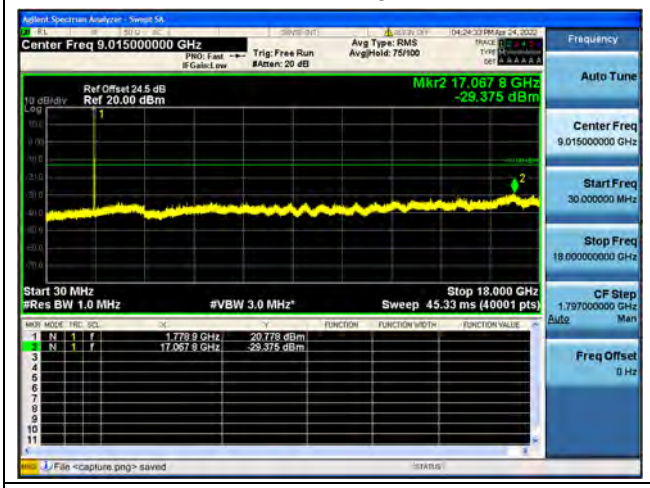
Band66 / 1.4MHz / Mid CH / QPSK

Band66 / 1.4MHz / Mid CH / 16QAM



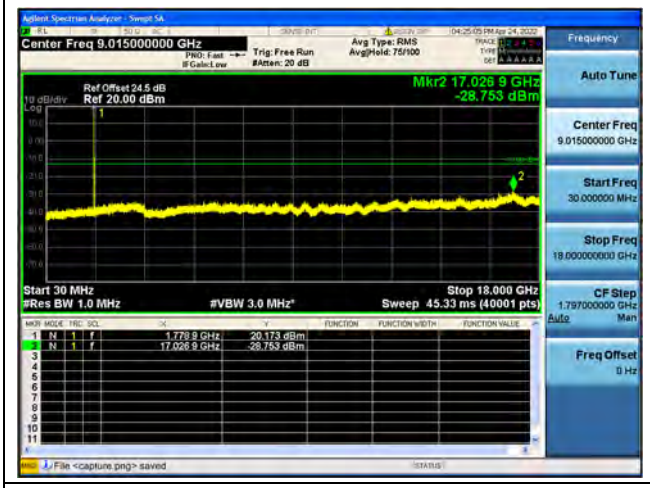
Band66 / 1.4MHz / Mid CH / 64QAM

Band66 / 1.4MHz / High CH / QPSK



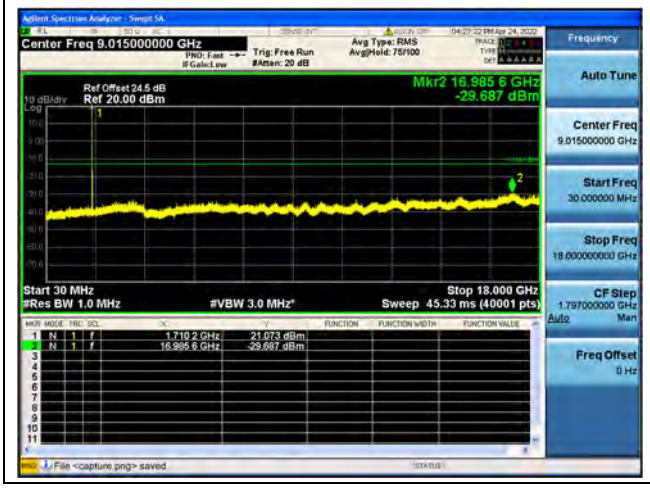
Band66 / 1.4MHz / High CH / 16QAM

Band66 / 1.4MHz / High CH / 64QAM



Band66 / 3MHz / Low CH / QPSK

Band66 / 3MHz / Low CH / 16QAM



Band66 / 3MHz / Low CH / 64QAM

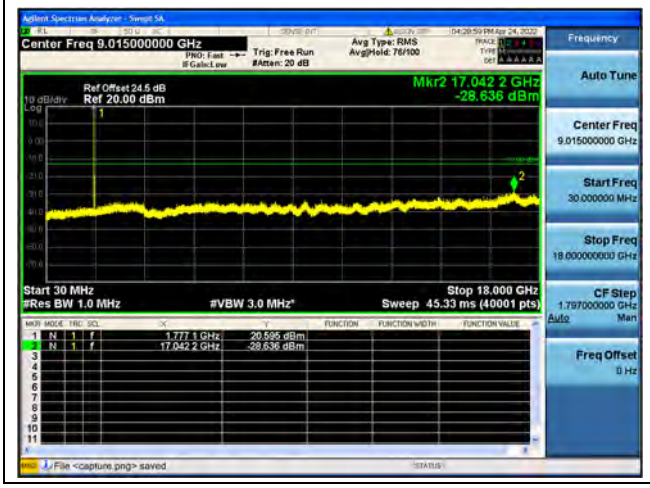
Band66 / 3MHz / Mid CH / QPSK

Band66 / 3MHz / Mid CH / 16QAM

Band66 / 3MHz / Mid CH / 64QAM

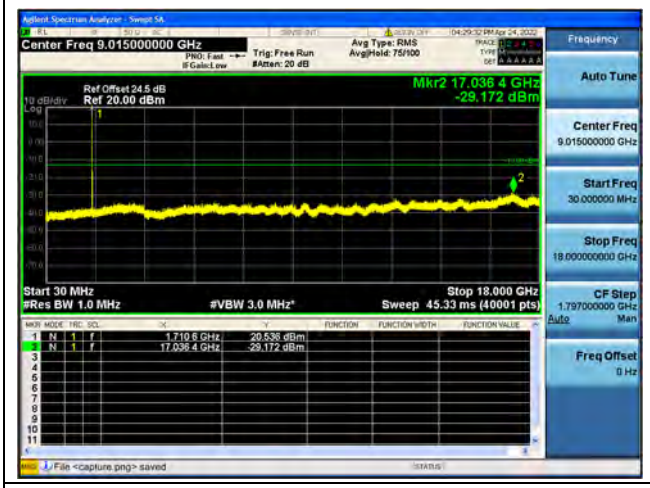
Band66 / 3MHz / High CH / QPSK

Band66 / 3MHz / High CH / 16QAM



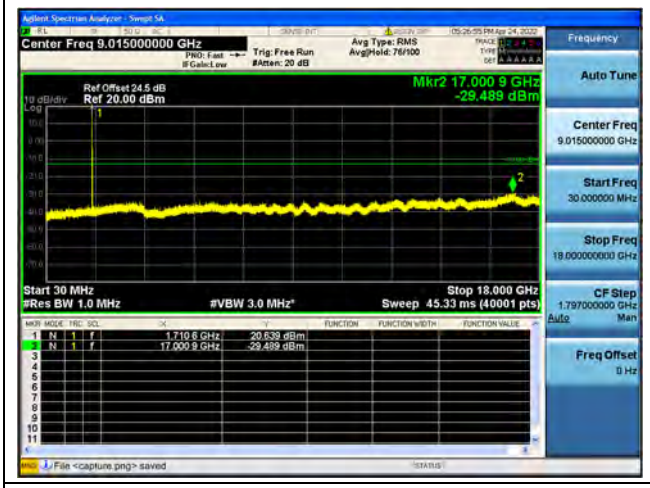
Band66 / 3MHz / High CH / 64QAM

Band66 / 5MHz / Low CH / QPSK



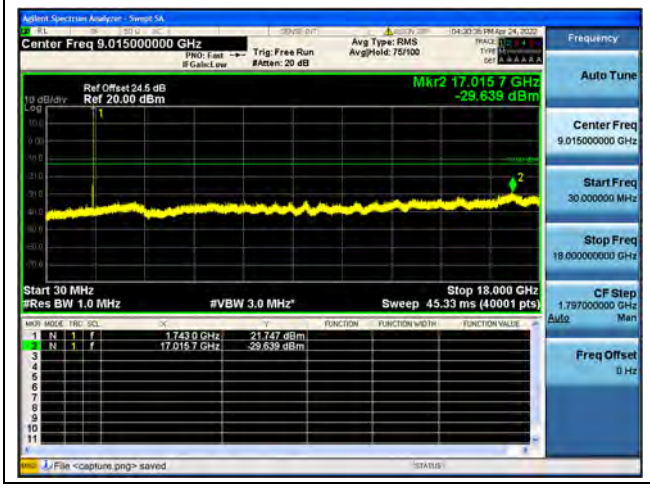
Band66 / 5MHz / Low CH / 16QAM

Band66 / 5MHz / Low CH / 64QAM



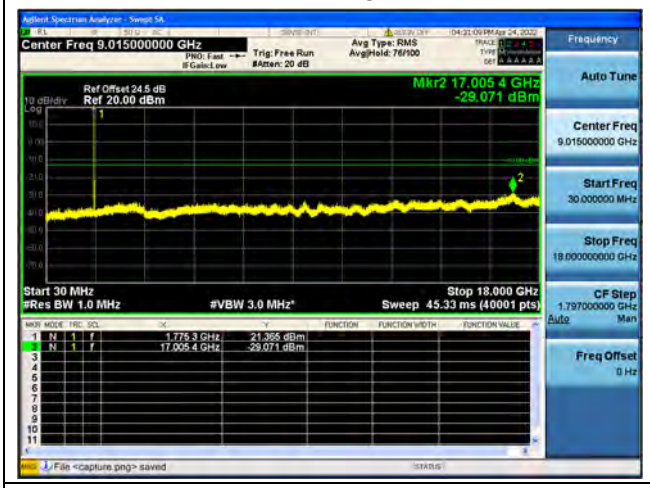
Band66 / 5MHz / Mid CH / QPSK

Band66 / 5MHz / Mid CH / 16QAM



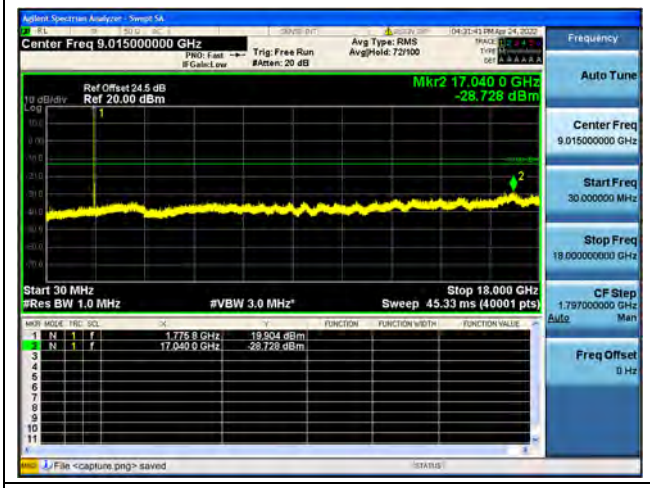
Band66 / 5MHz / Mid CH / 64QAM

Band66 / 5MHz / High CH / QPSK



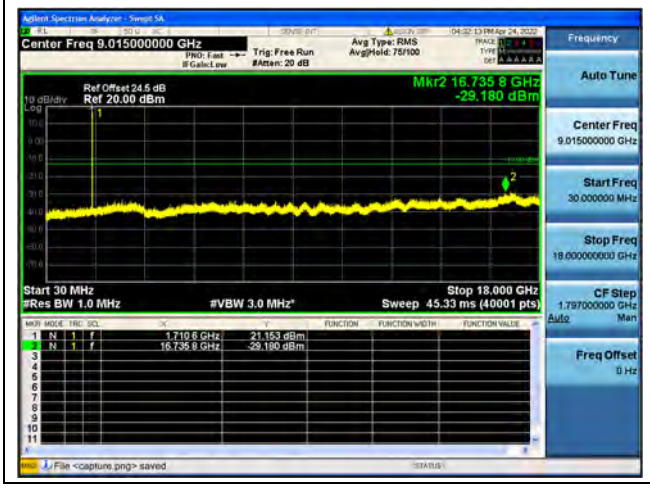
Band66 / 5MHz / High CH / 16QAM

Band66 / 5MHz / High CH / 64QAM



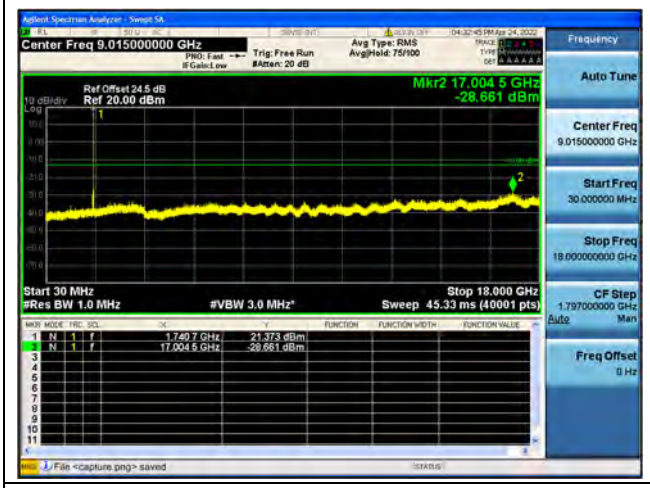
Band66 / 10MHz / Low CH / QPSK

Band66 / 10MHz / Low CH / 16QAM



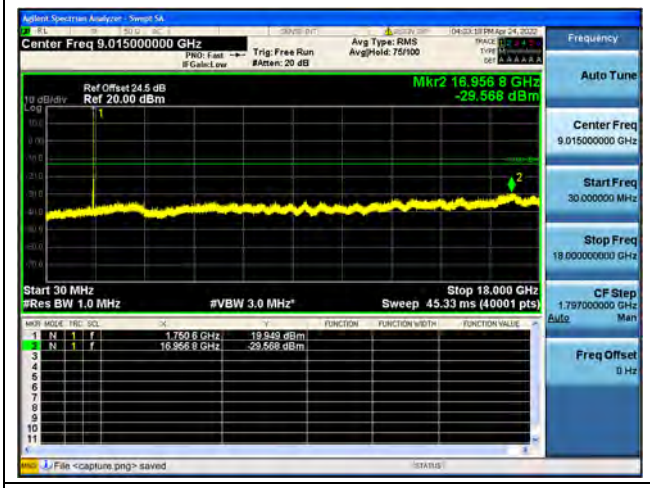
Band66 / 10MHz / Low CH / 64QAM

Band66 / 10MHz / Mid CH / QPSK



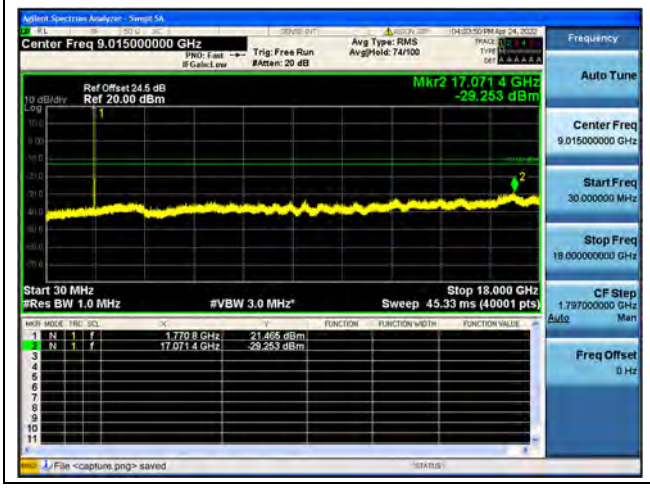
Band66 / 10MHz / Mid CH / 16QAM

Band66 / 10MHz / Mid CH / 64QAM



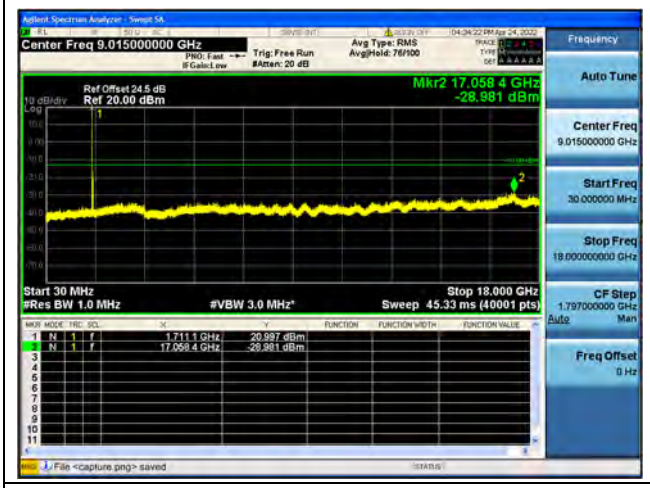
Band66 / 10MHz / High CH / QPSK

Band66 / 10MHz / High CH / 16QAM



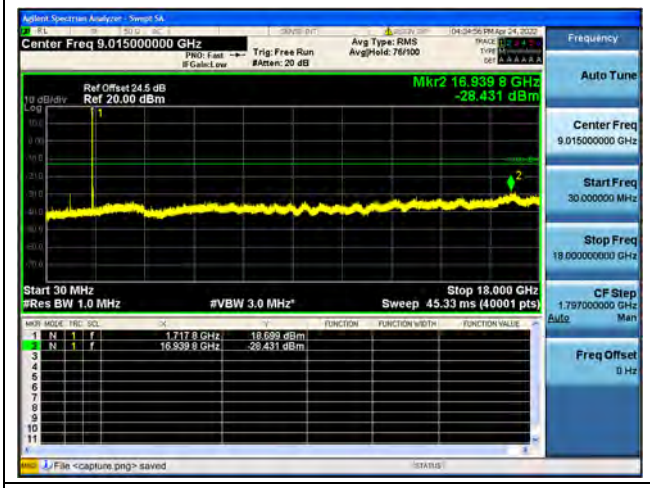
Band66 / 10MHz / High CH / 64QAM

Band66 / 15MHz / Low CH / QPSK



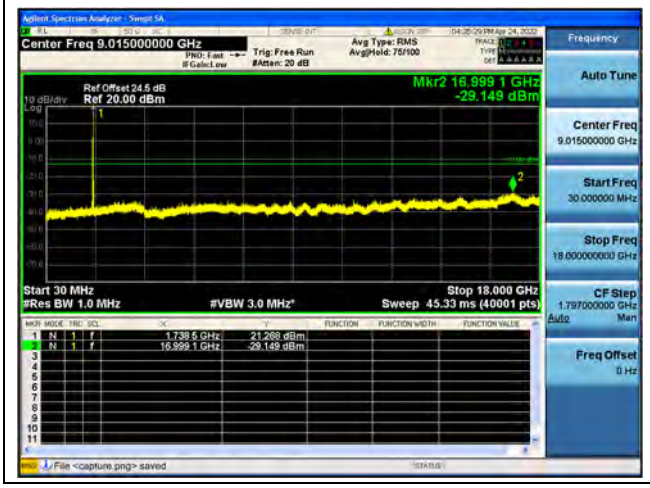
Band66 / 15MHz / Low CH / 16QAM

Band66 / 15MHz / Low CH / 64QAM



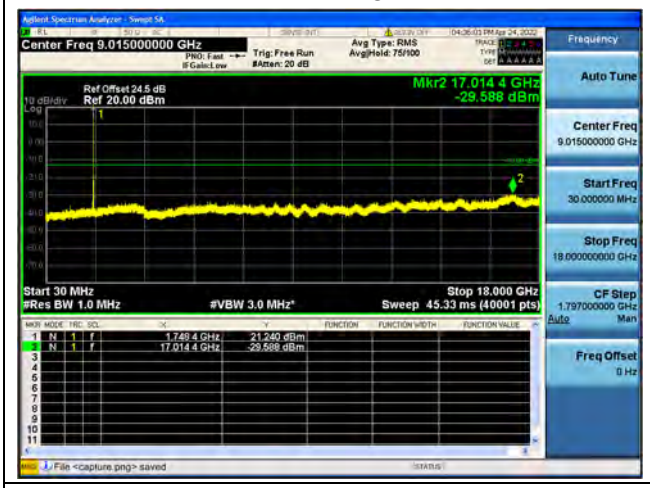
Band66 / 15MHz / Mid CH / QPSK

Band66 / 15MHz / Mid CH / 16QAM



Band66 / 15MHz / Mid CH / 64QAM

Band66 / 15MHz / High CH / QPSK

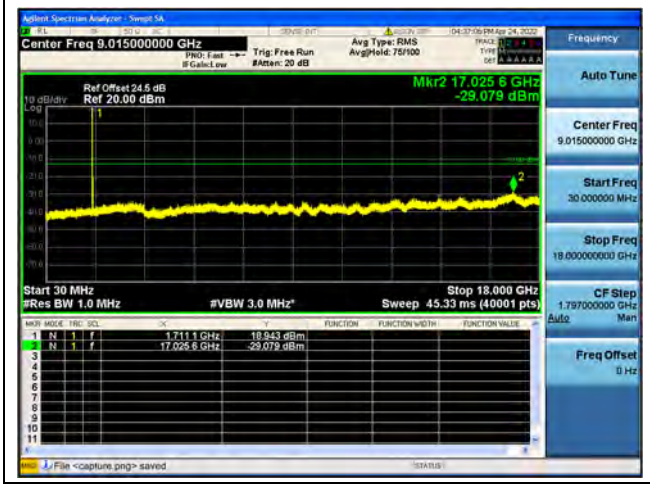


Band66 / 15MHz / High CH / 16QAM

Band66 / 15MHz / High CH / 64QAM

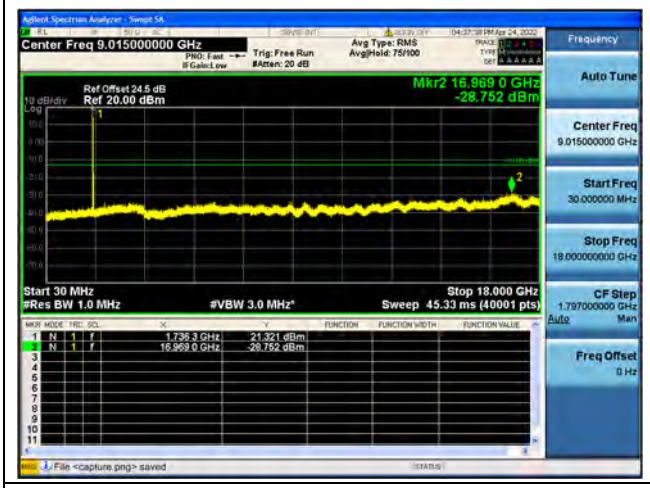
Band66 / 20MHz / Low CH / QPSK

Band66 / 20MHz / Low CH / 16QAM



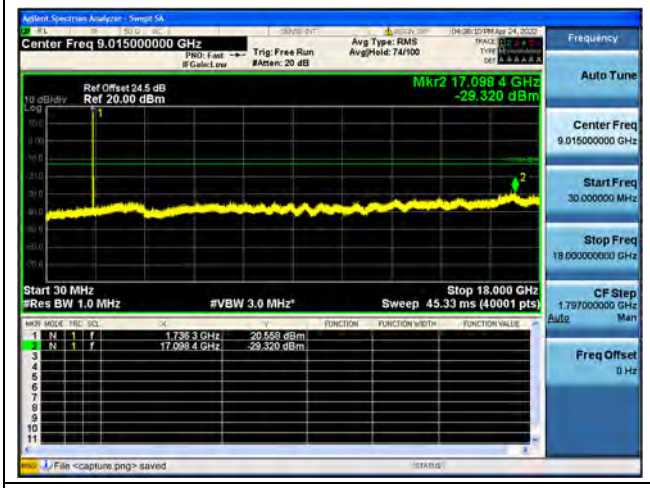
Band66 / 20MHz / Low CH / 64QAM

Band66 / 20MHz / Mid CH / QPSK



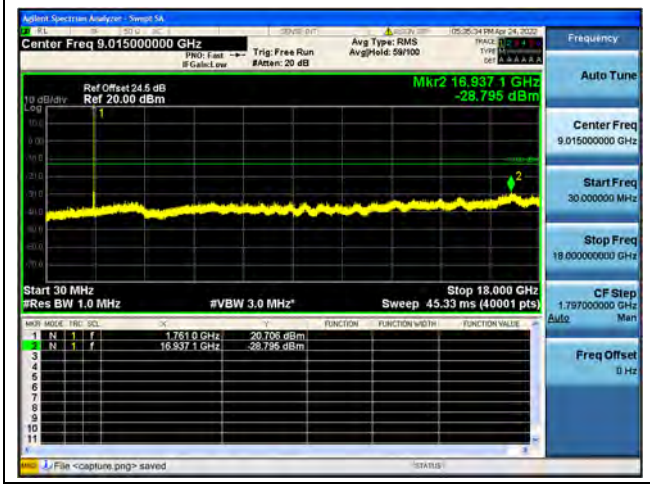
Band66 / 20MHz / Mid CH / 16QAM

Band66 / 20MHz / Mid CH / 64QAM



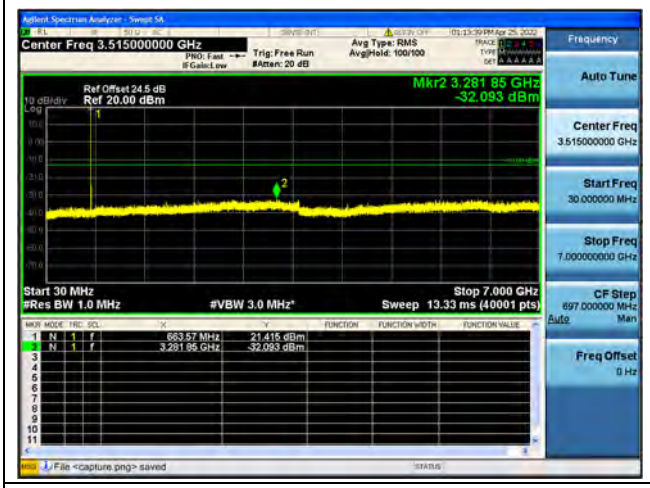
Band66 / 20MHz / High CH / QPSK

Band66 / 20MHz / High CH / 16QAM



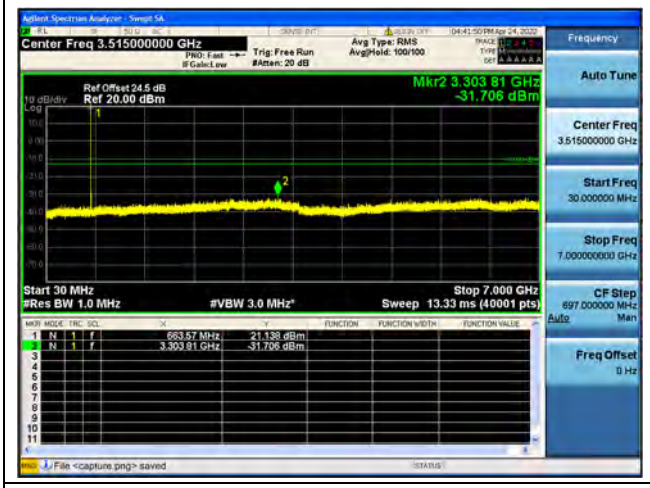
Band66 / 20MHz / High CH / 64QAM

Band71 / 5MHz / Low CH / QPSK



Band71 / 5MHz / Low CH / 16QAM

Band71 / 5MHz / Low CH / 64QAM

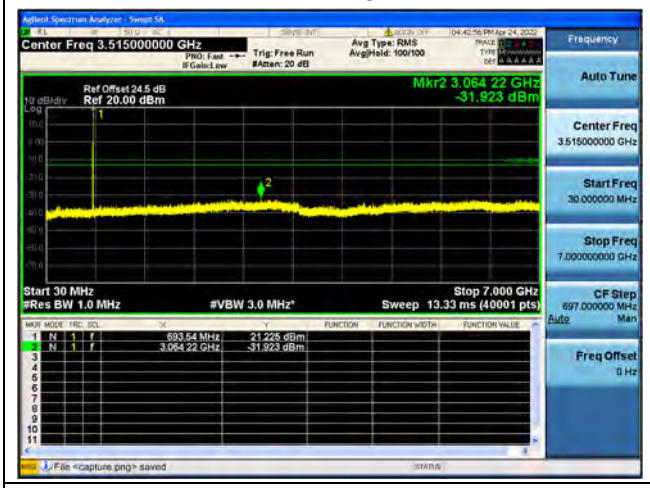


Band71 / 5MHz / Mid CH / QPSK

Band71 / 5MHz / Mid CH / 16QAM

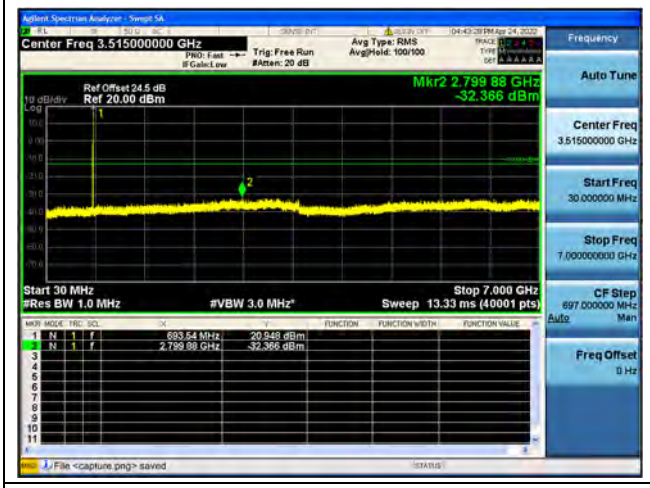
Band71 / 5MHz / Mid CH / 64QAM

Band71 / 5MHz / High CH / QPSK



Band71 / 5MHz / High CH / 16QAM

Band71 / 5MHz / High CH / 64QAM

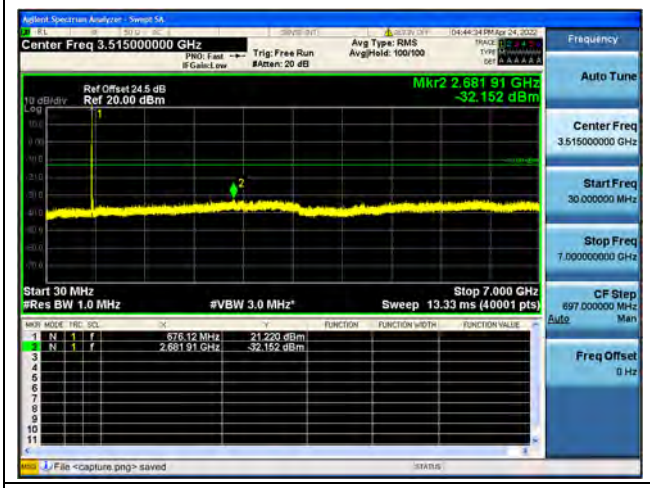


Band71 / 10MHz / Low CH / QPSK

Band71 / 10MHz / Low CH / 16QAM

Band71 / 10MHz / Low CH / 64QAM

Band71 / 10MHz / Mid CH / QPSK

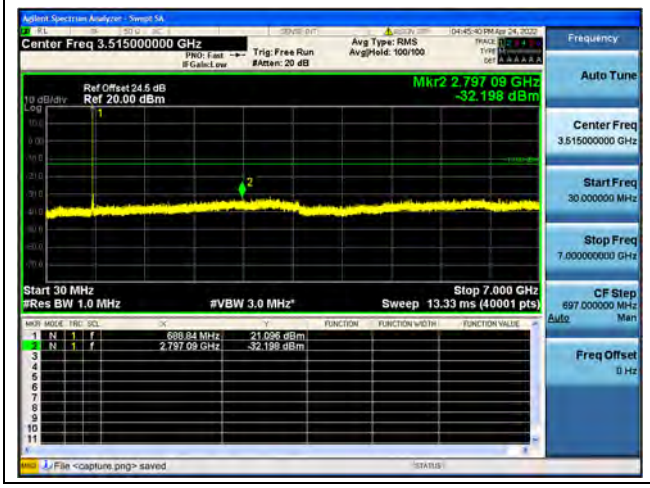


Band71 / 10MHz / Mid CH / 16QAM

Band71 / 10MHz / Mid CH / 64QAM

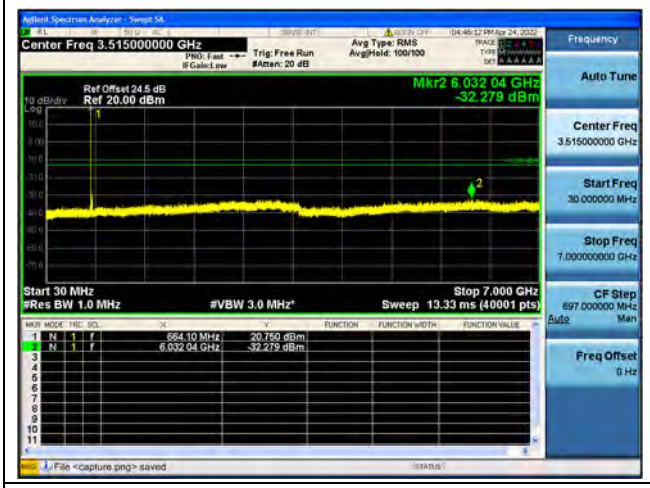
Band71 / 10MHz / High CH / QPSK

Band71 / 10MHz / High CH / 16QAM



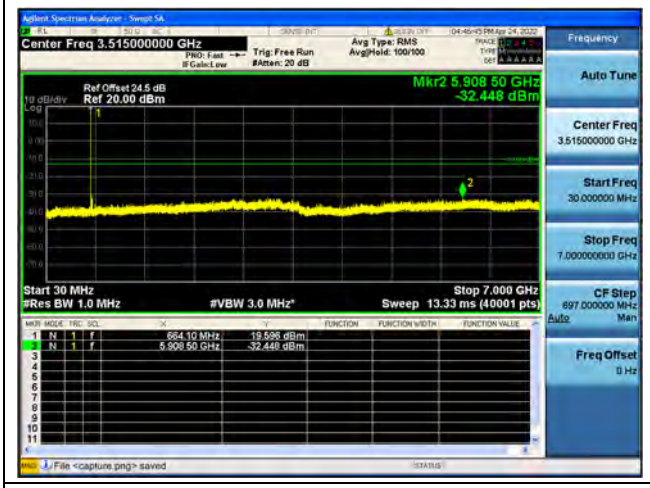
Band71 / 10MHz / High CH / 64QAM

Band71 / 15MHz / Low CH / QPSK



Band71 / 15MHz / Low CH / 16QAM

Band71 / 15MHz / Low CH / 64QAM

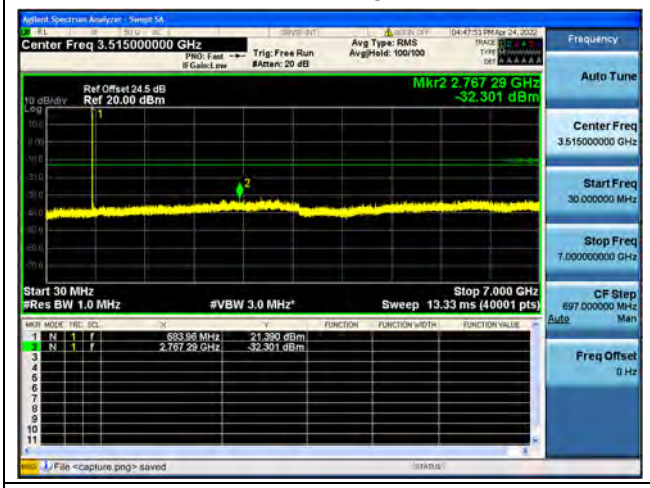


Band71 / 15MHz / Mid CH / QPSK

Band71 / 15MHz / Mid CH / 16QAM

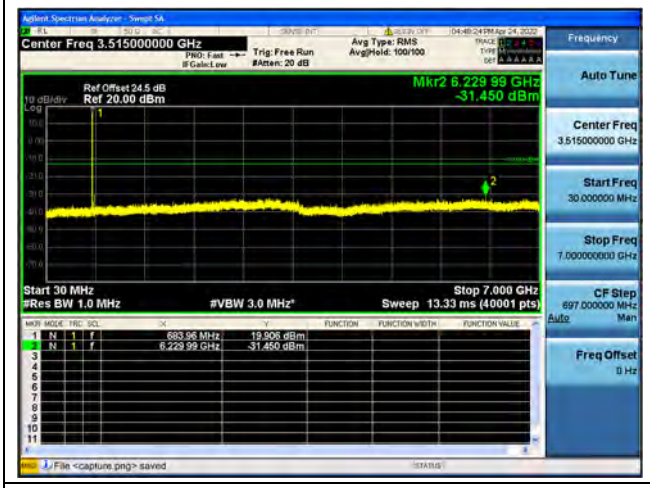
Band71 / 15MHz / Mid CH / 64QAM

Band71 / 15MHz / High CH / QPSK



Band71 / 15MHz / High CH / 16QAM

Band71 / 15MHz / High CH / 64QAM

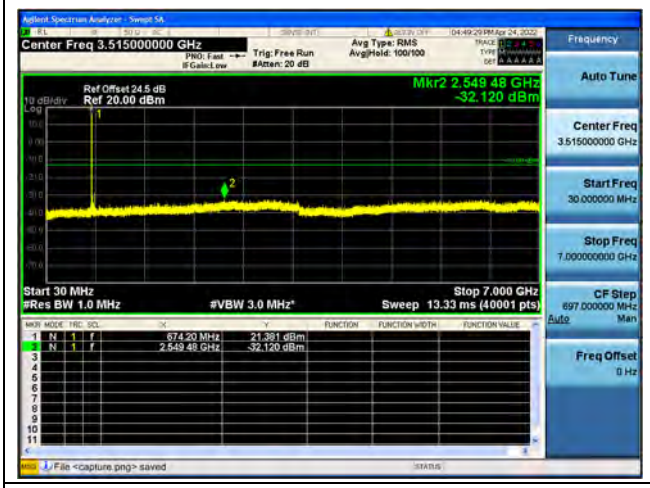


Band71 / 20MHz / Low CH / QPSK

Band71 / 20MHz / Low CH / 16QAM

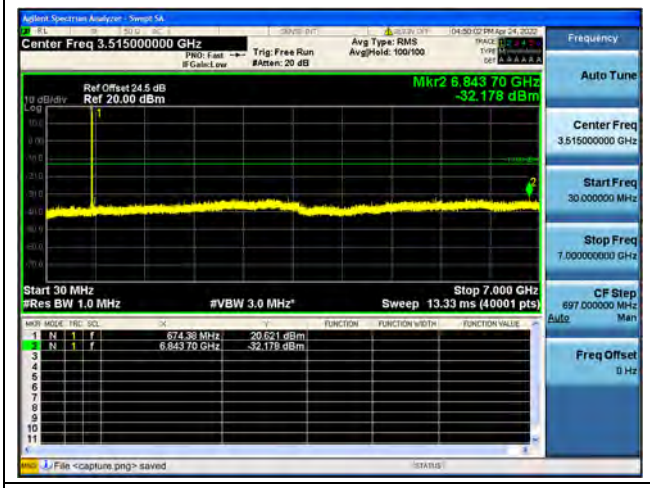
Band71 / 20MHz / Low CH / 64QAM

Band71 / 20MHz / Mid CH / QPSK



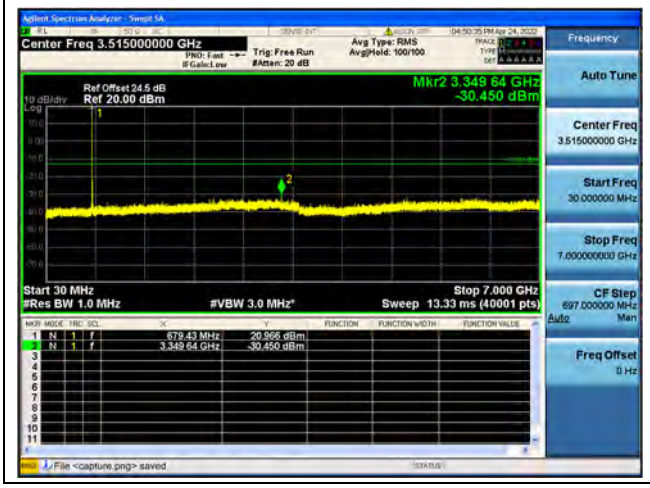
Band71 / 20MHz / Mid CH / 16QAM

Band71 / 20MHz / Mid CH / 64QAM



Band71 / 20MHz / High CH / QPSK

Band71 / 20MHz / High CH / 16QAM



Band71 / 20MHz / High CH / 64QAM

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 log10(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, 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 12, 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

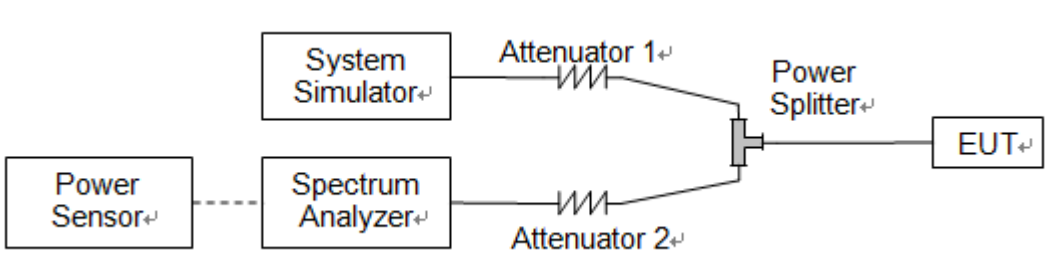
According to FCC section 27.53(c)(2), any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB in a 100kHz bandwidth. However, in the 100 kHz bands immediately outside and

adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Band 41

According to FCC section 27.53(l)(2), for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz, based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

2.6.2. Test 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.

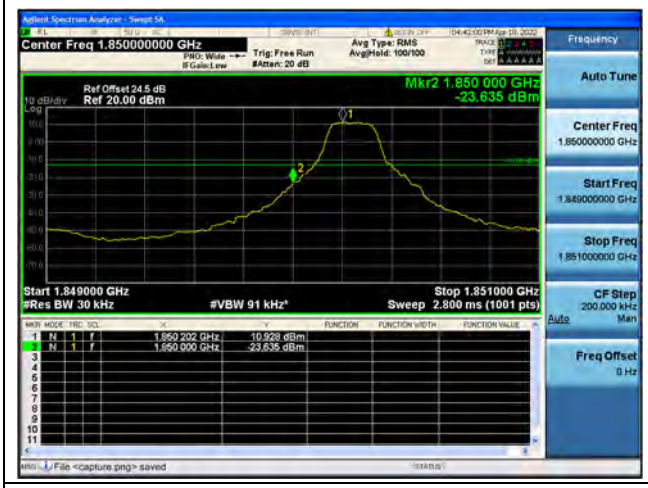
2.6.3. Test Procedure

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

2.6.4. Test Result

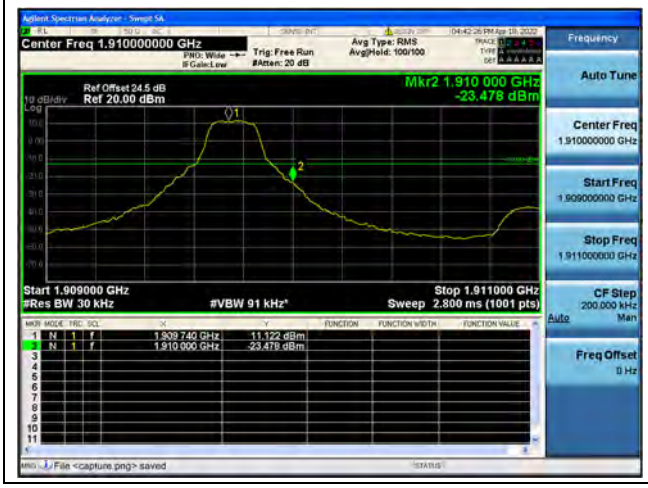
Band2 / 1.4MHz / Low CH / QPSK / 1 RB	Band2 / 1.4MHz / Low CH / QPSK / FULL RB
Band2 / 1.4MHz / High CH / QPSK / 1 RB	**Band2 / 1.4MHz / High CH / QPSK / FULL RB**

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

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

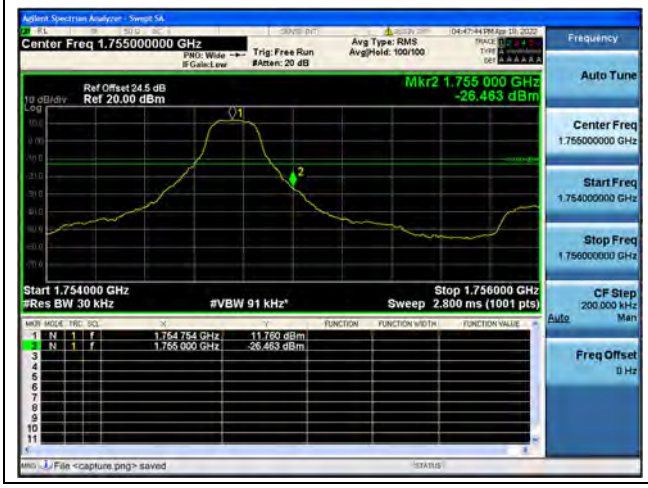
Band4 / 1.4MHz / High CH / QPSK / 1 RB

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