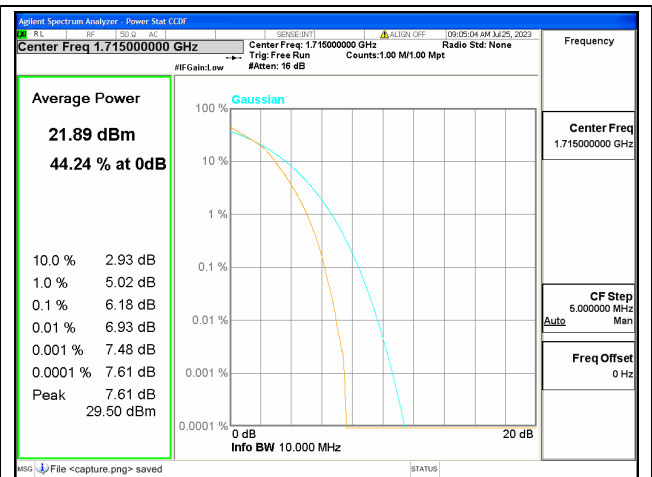
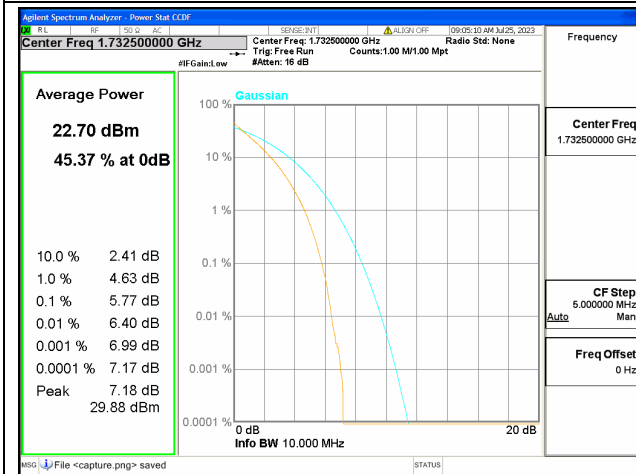


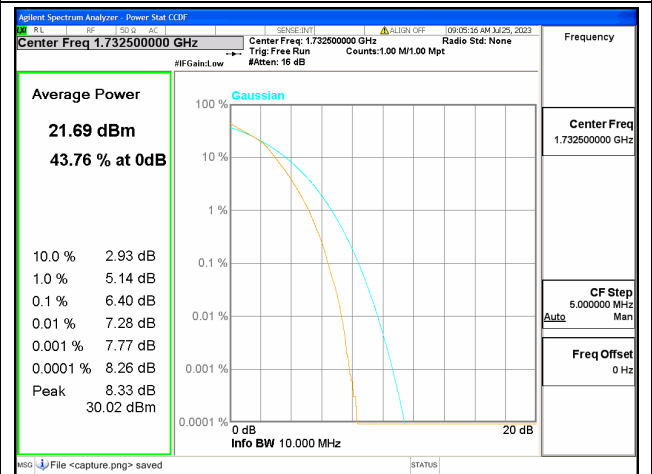
B4 / 10MHz / Low CH / QPSK



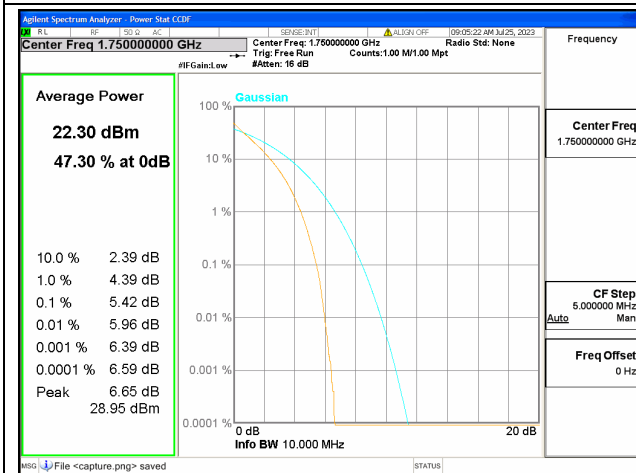
B4 / 10MHz / Low CH / 16QAM



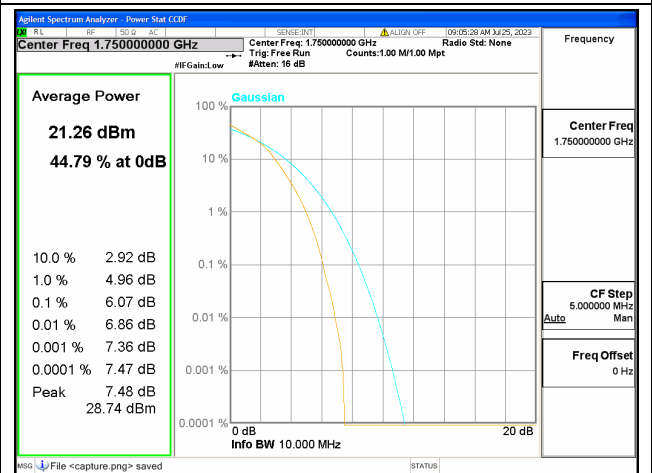
B4 / 10MHz / Mid CH / QPSK



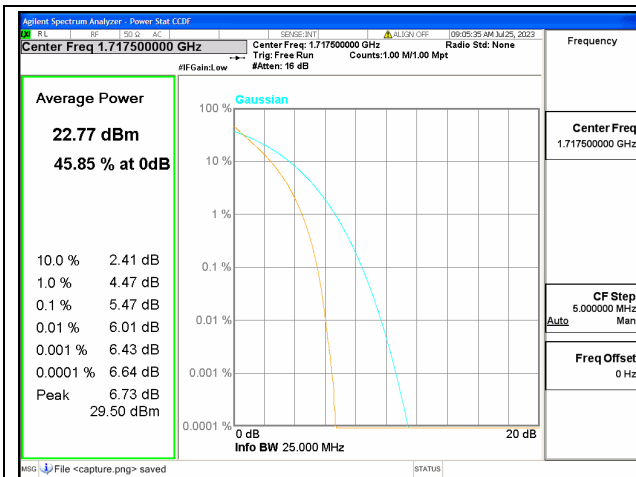
B4 / 10MHz / Mid CH / 16QAM



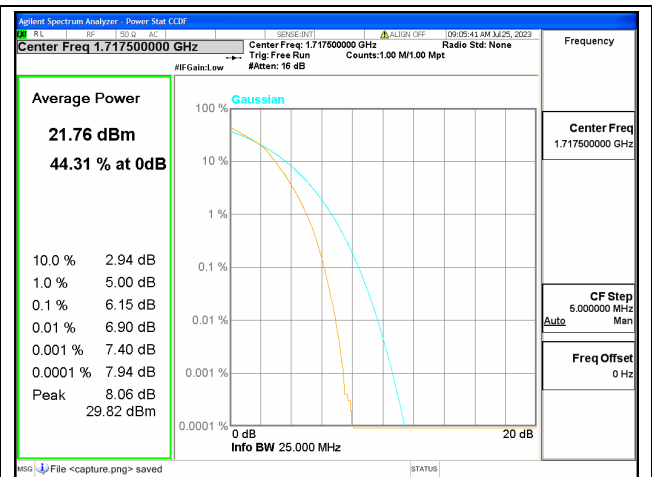
B4 / 10MHz / High CH / QPSK



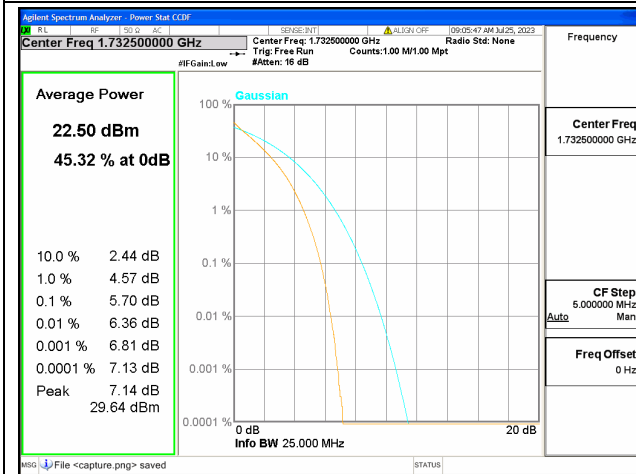
B4 / 10MHz / High CH / 16QAM



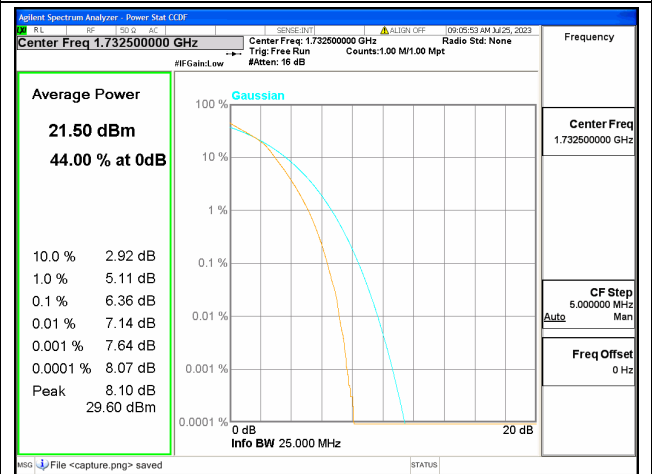
B4 / 15MHz / Low CH / QPSK



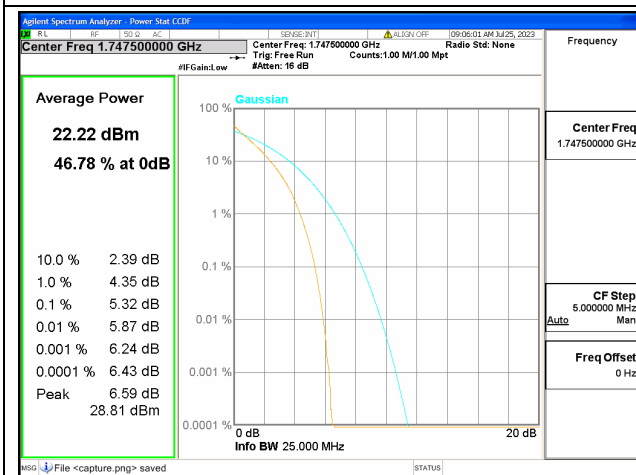
B4 / 15MHz / Low CH / 16QAM



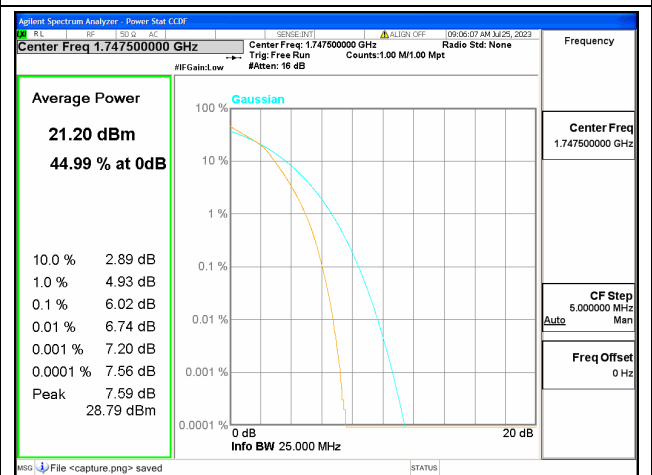
B4 / 15MHz / Mid CH / QPSK



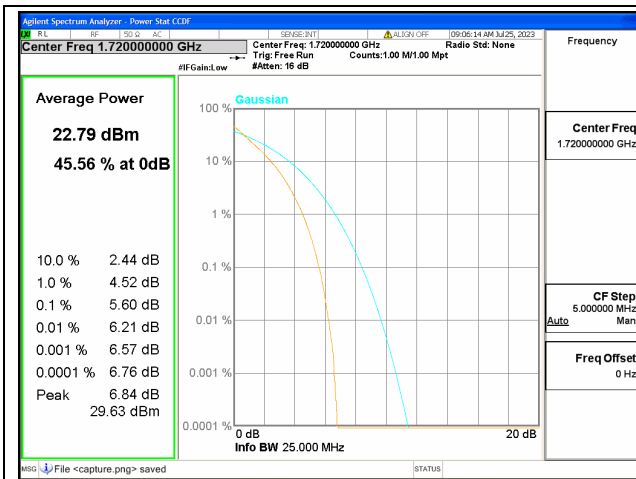
B4 / 15MHz / Mid CH / 16QAM



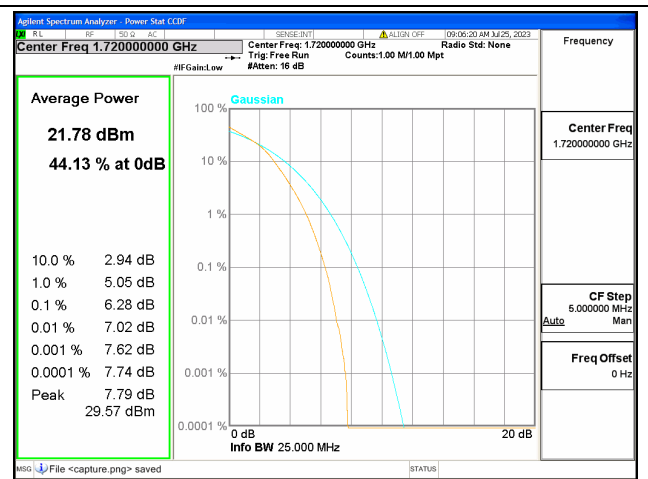
B4 / 15MHz / High CH / QPSK



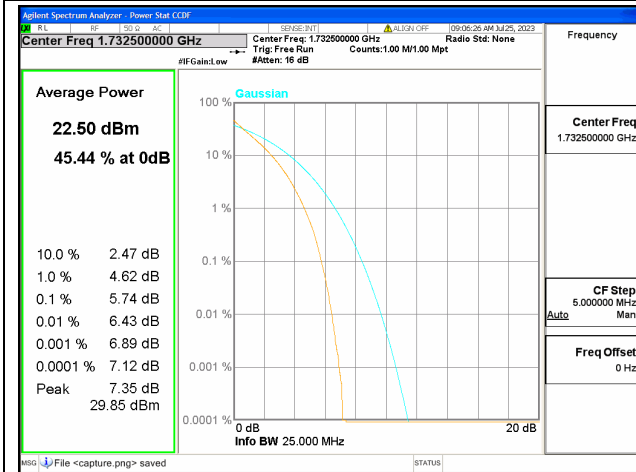
B4 / 15MHz / High CH / 16QAM



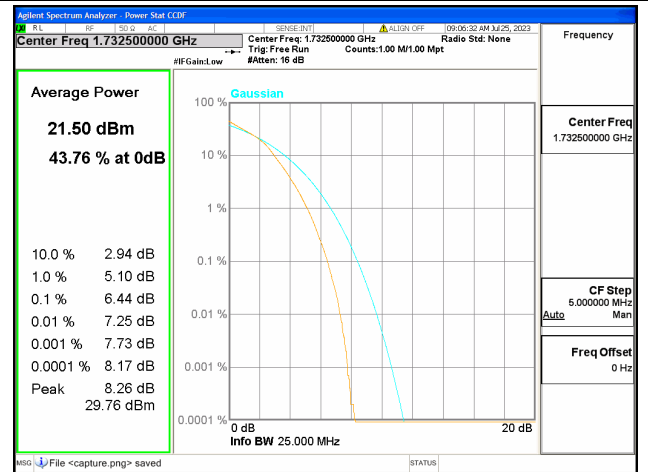
B4 / 20MHz / Low CH / QPSK



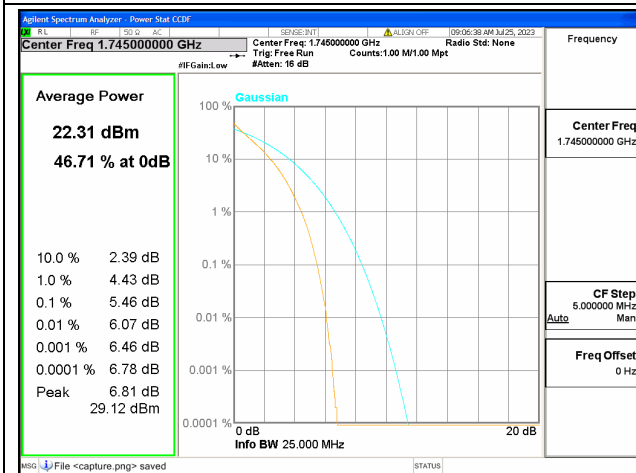
B4 / 20MHz / Low CH / 16QAM



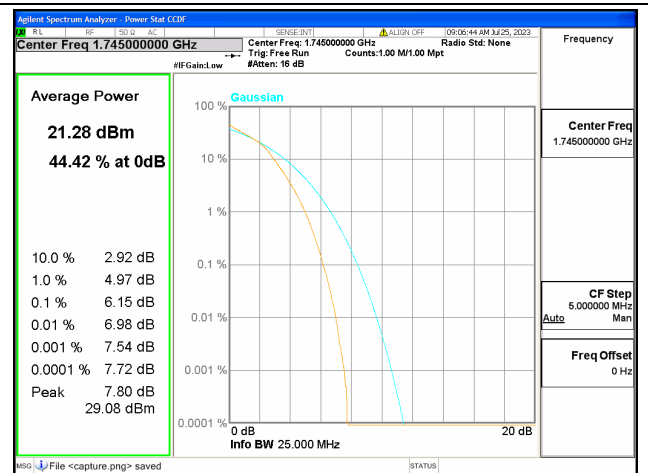
B4 / 20MHz / Mid CH / QPSK



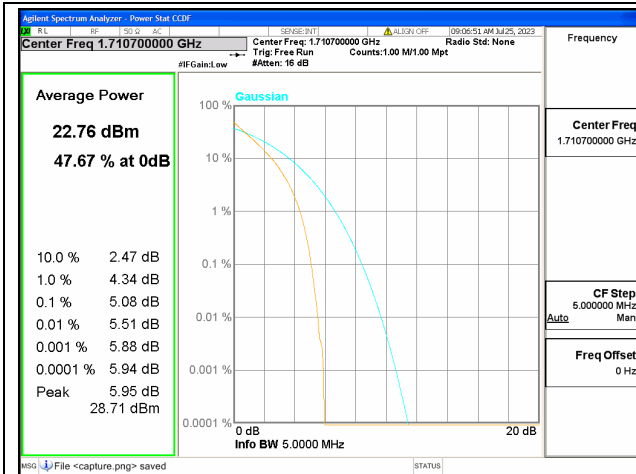
B4 / 20MHz / Mid CH / 16QAM



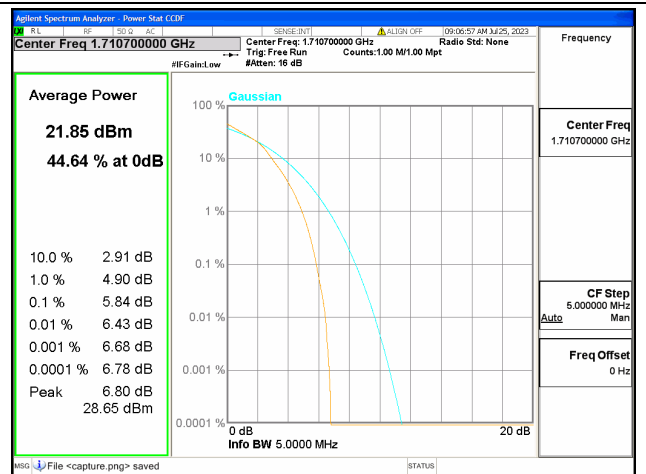
B4 / 20MHz / High CH / QPSK



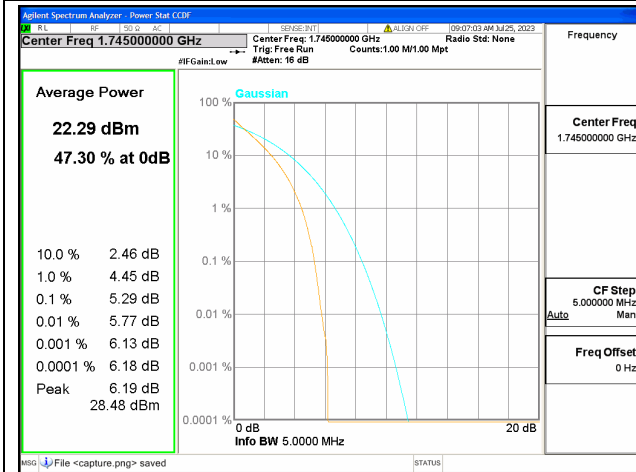
B4 / 20MHz / High CH / 16QAM



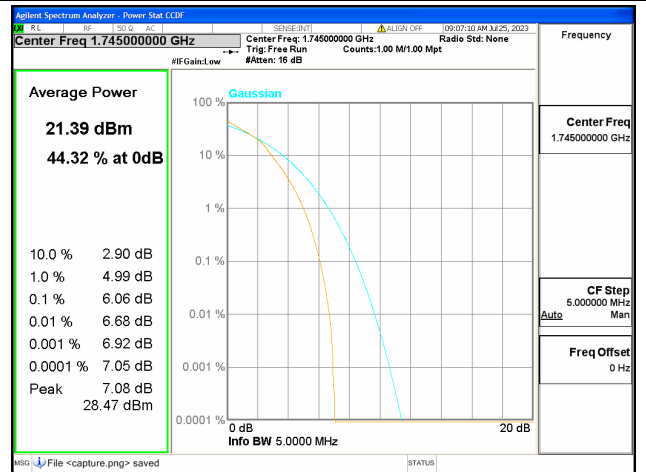
B66 / 1.4MHz / Low CH / QPSK



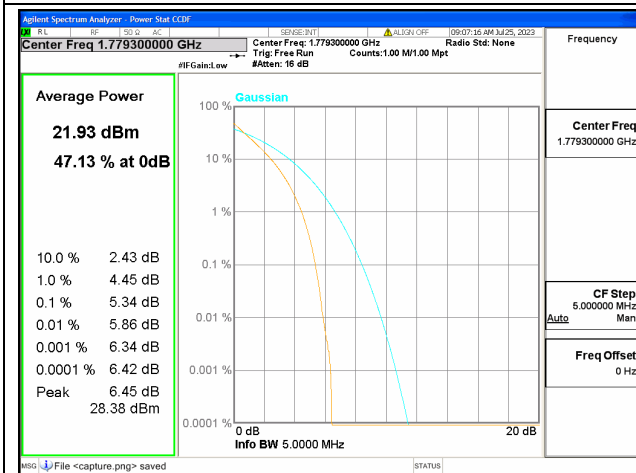
B66 / 1.4MHz / Low CH / 16QAM



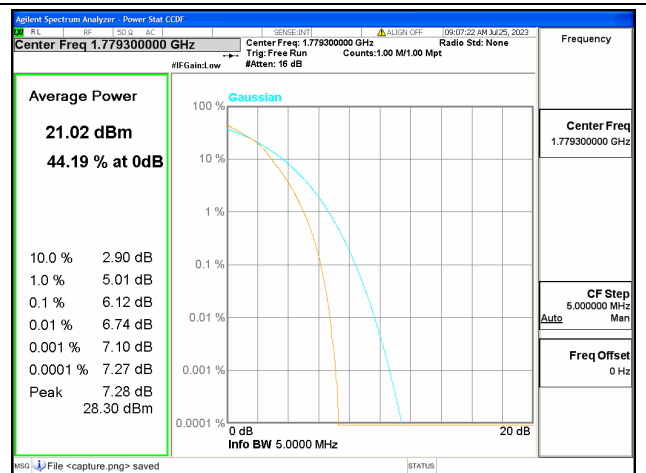
B66 / 1.4MHz / Mid CH / QPSK



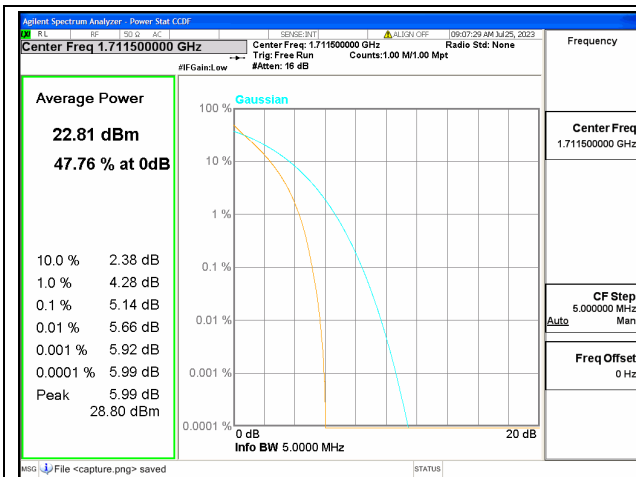
B66 / 1.4MHz / Mid CH / 16QAM



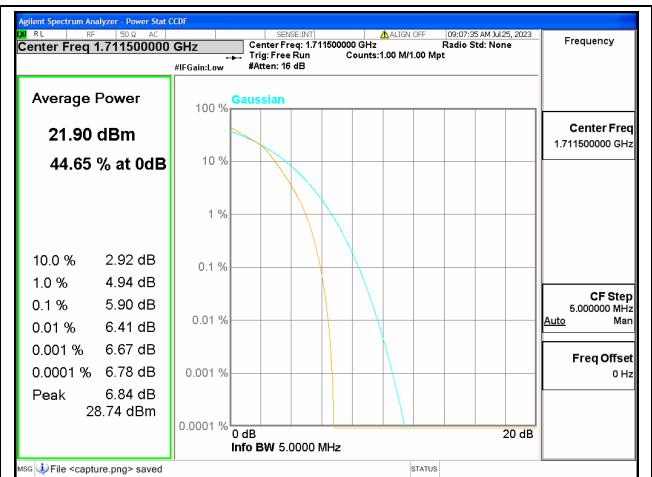
B66 / 1.4MHz / High CH / QPSK



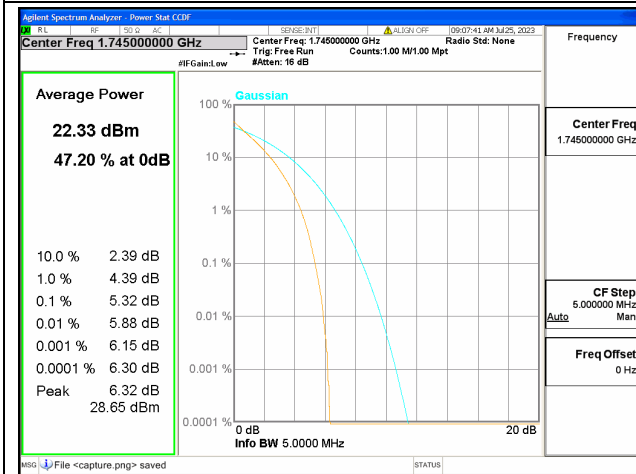
B66 / 1.4MHz / High CH / 16QAM



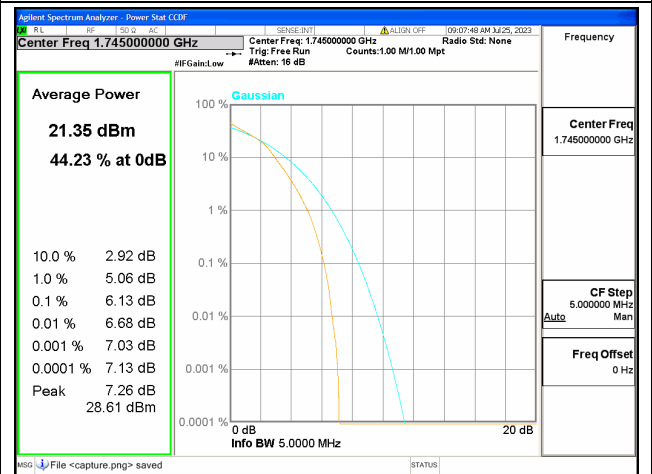
B66 / 3MHz / Low CH / QPSK



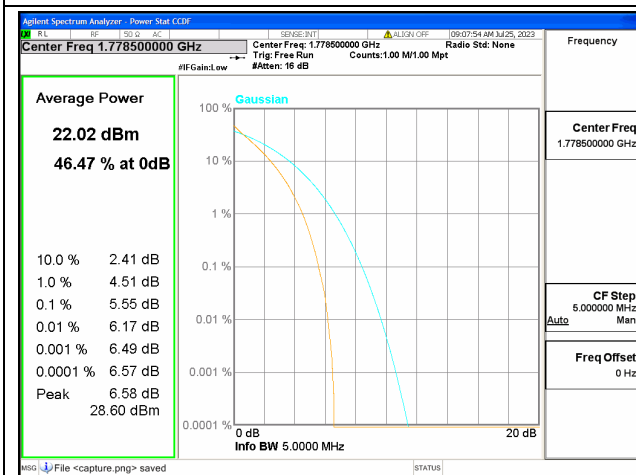
B66 / 3MHz / Low CH / 16QAM



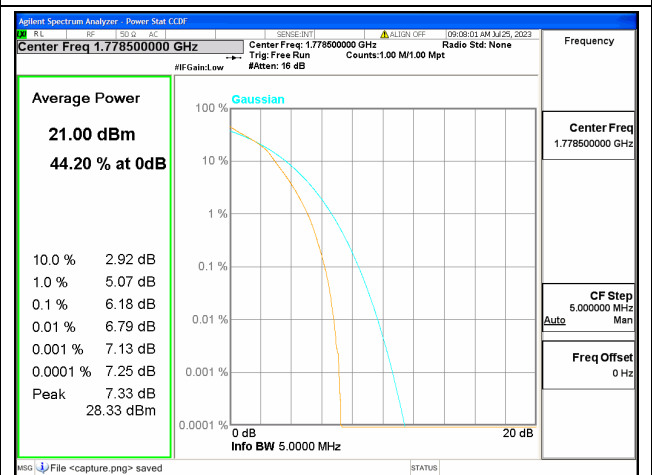
B66 / 3MHz / Mid CH / QPSK



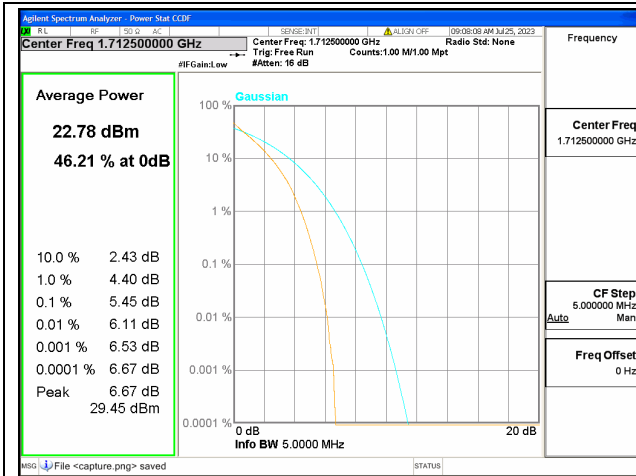
B66 / 3MHz / Mid CH / 16QAM



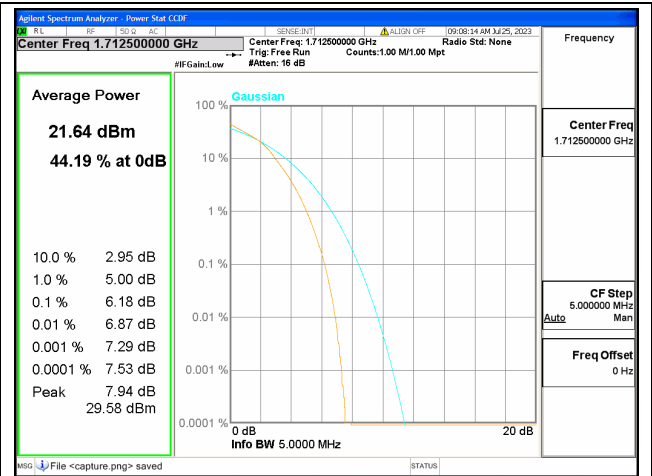
B66 / 3MHz / High CH / QPSK



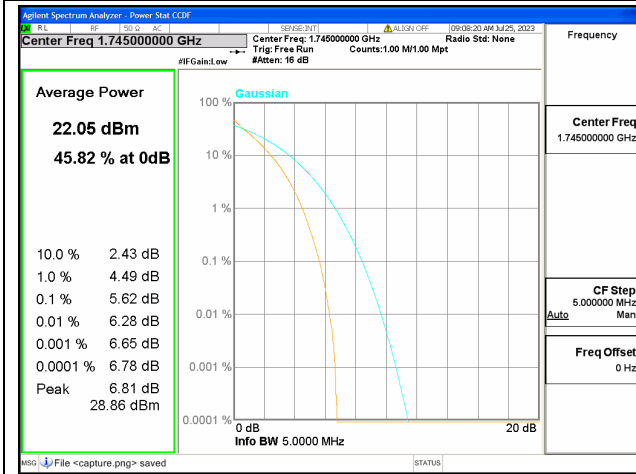
B66 / 3MHz / High CH / 16QAM



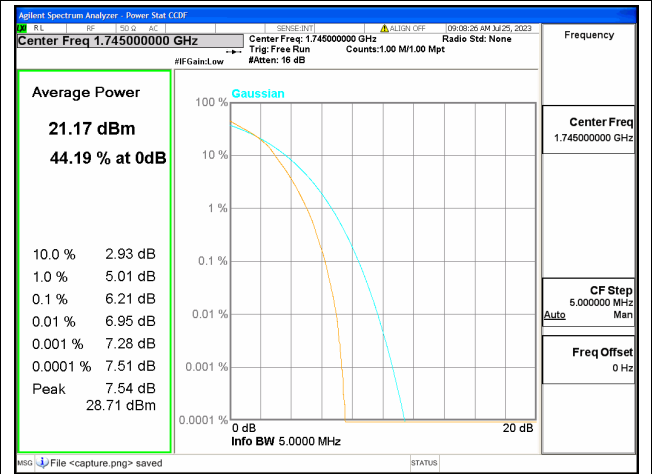
B66 / 5MHz / Low CH / QPSK



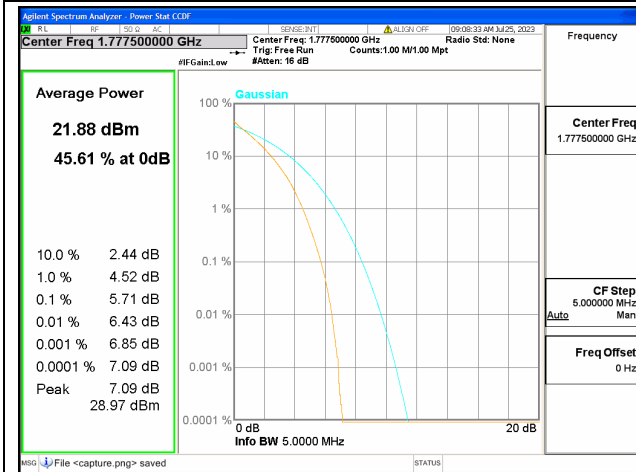
B66 / 5MHz / Low CH / 16QAM



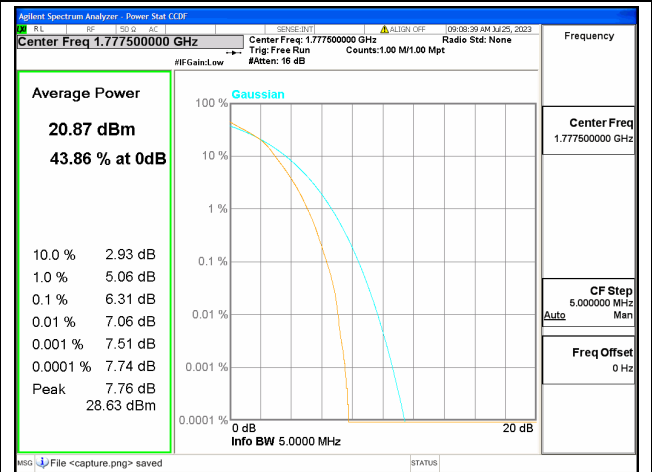
B66 / 5MHz / Mid CH / QPSK



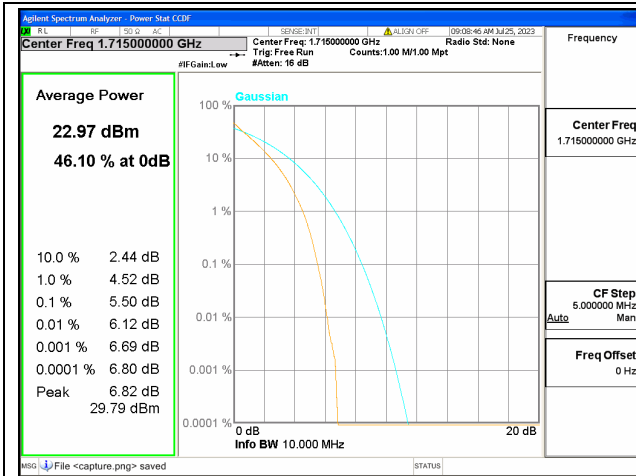
B66 / 5MHz / Mid CH / 16QAM



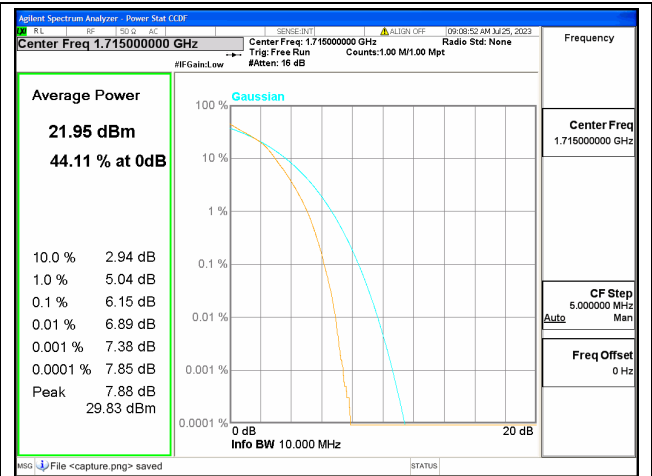
B66 / 5MHz / High CH / QPSK



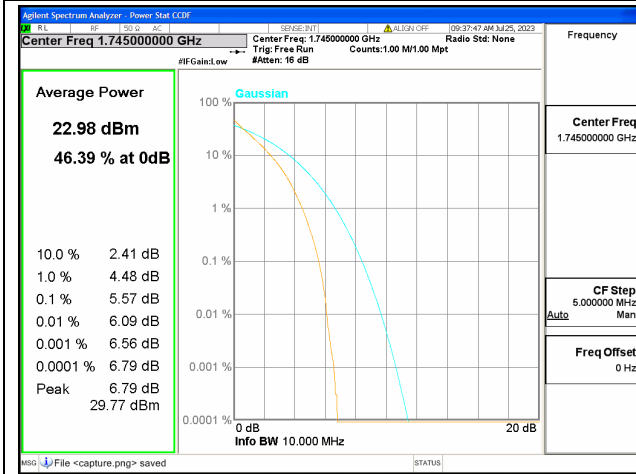
B66 / 5MHz / High CH / 16QAM



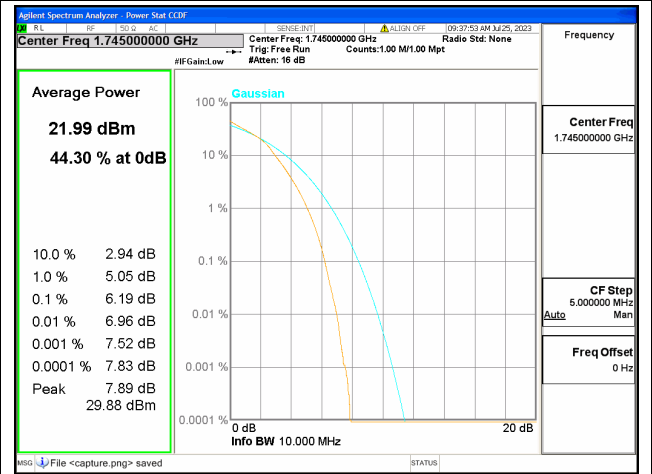
B66 / 10MHz / Low CH / QPSK



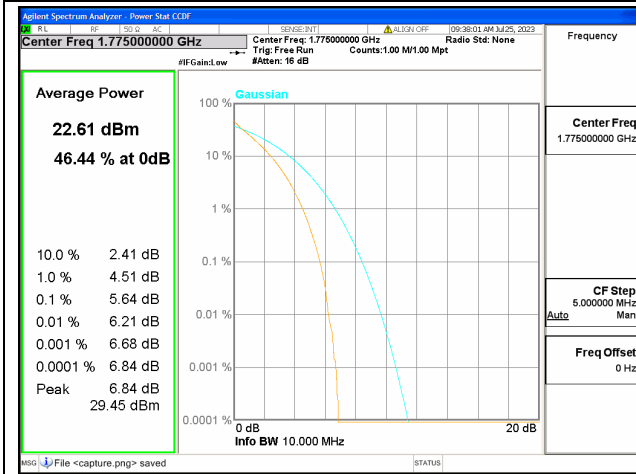
B66 / 10MHz / Low CH / 16QAM



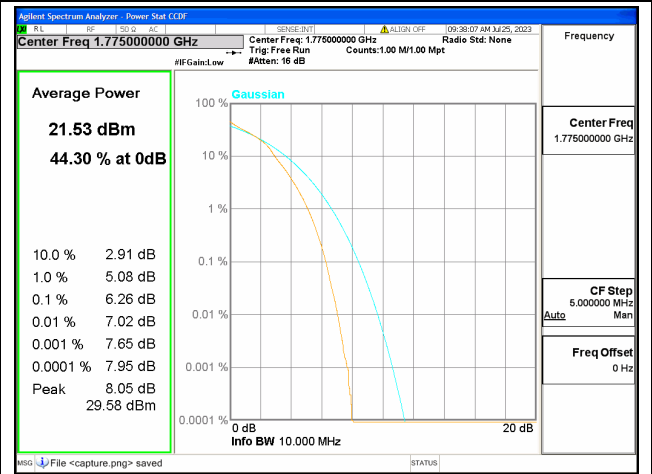
B66 / 10MHz / Mid CH / QPSK



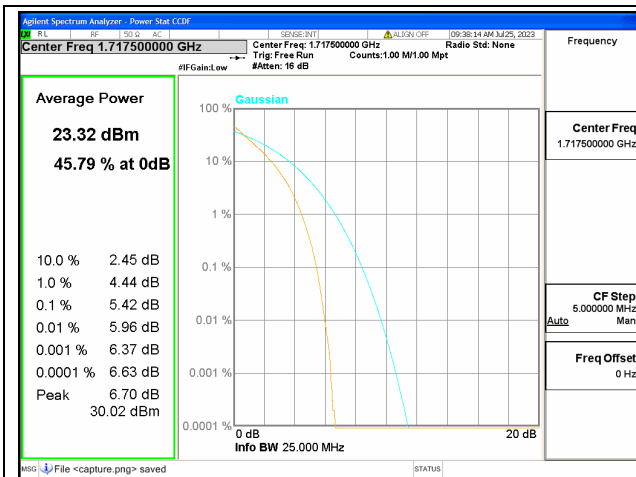
B66 / 10MHz / Mid CH / 16QAM



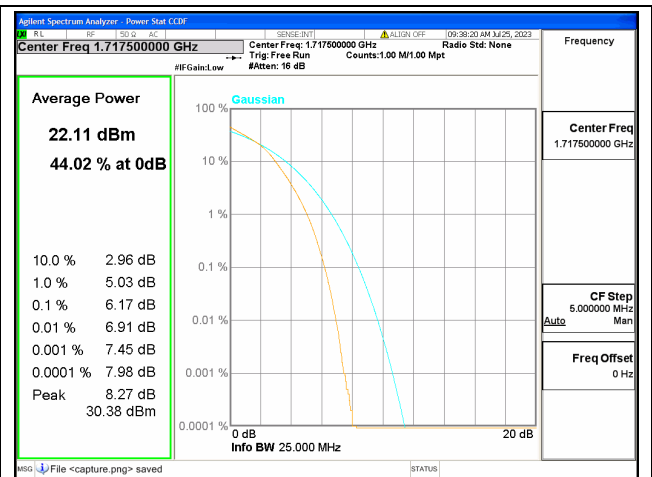
B66 / 10MHz / High CH / QPSK



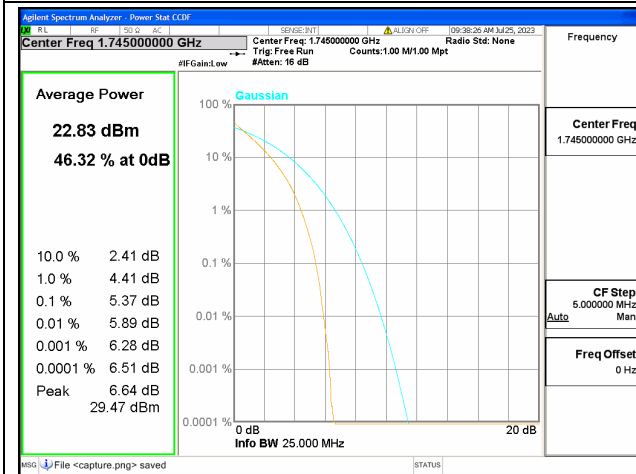
B66 / 10MHz / High CH / 16QAM



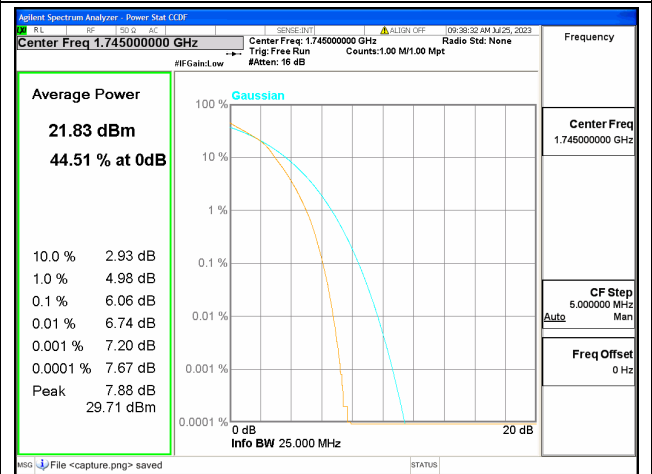
B66 / 15MHz / Low CH / QPSK



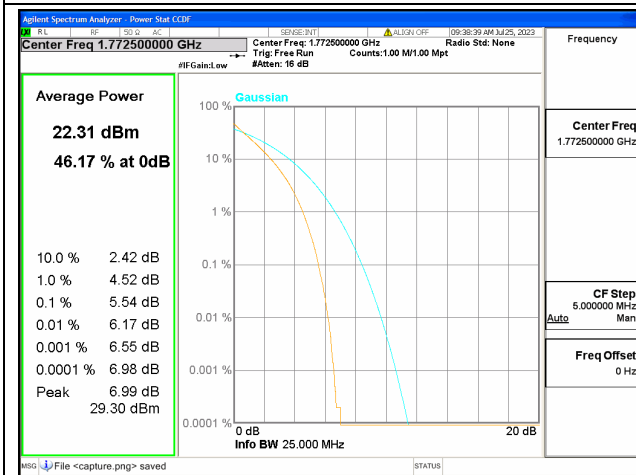
B66 / 15MHz / Low CH / 16QAM



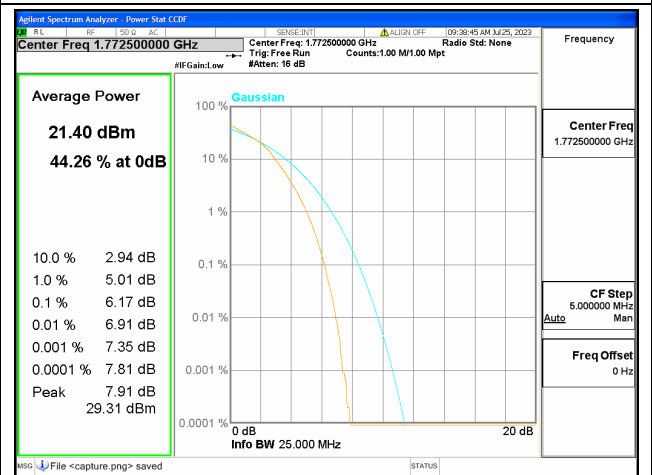
B66 / 15MHz / Mid CH / QPSK



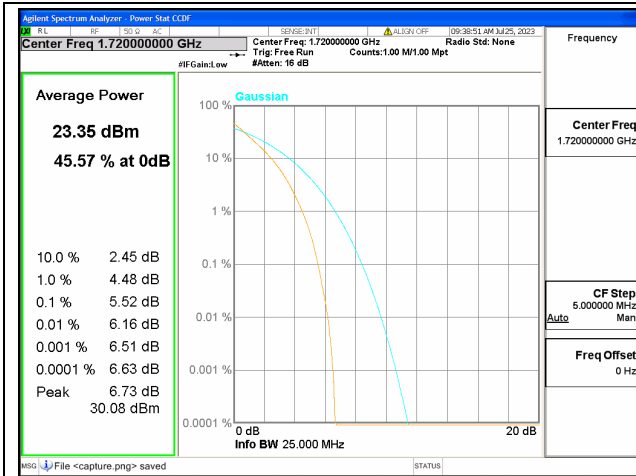
B66 / 15MHz / Mid CH / 16QAM



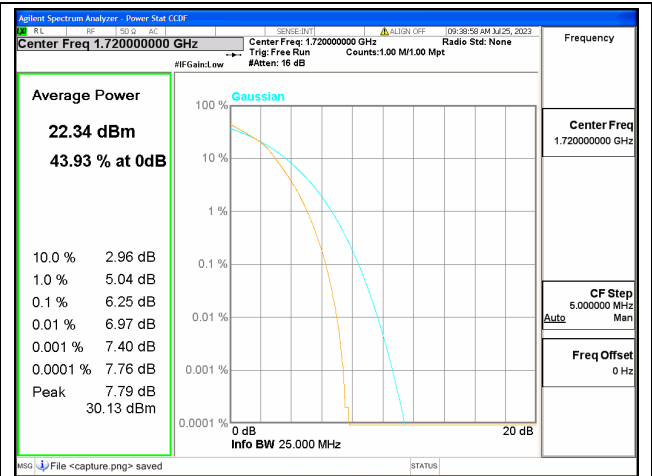
B66 / 15MHz / High CH / QPSK



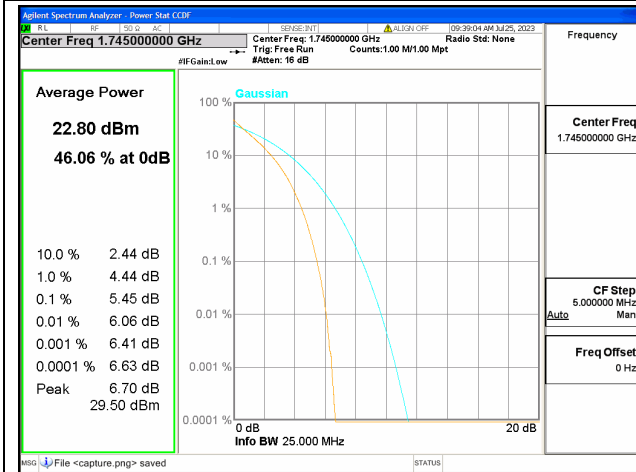
B66 / 15MHz / High CH / 16QAM



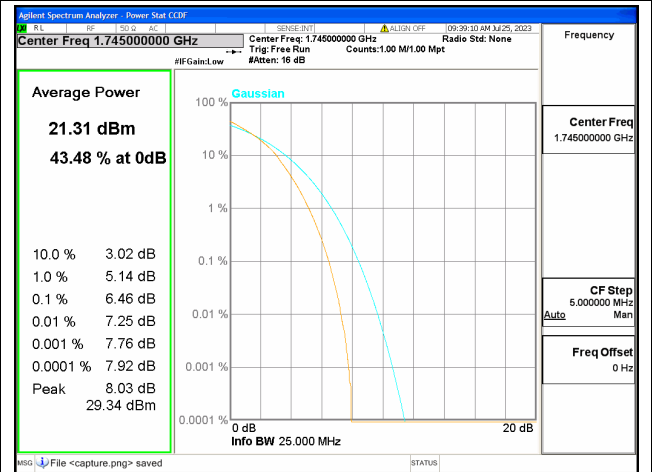
B66 / 20MHz / Low CH / QPSK



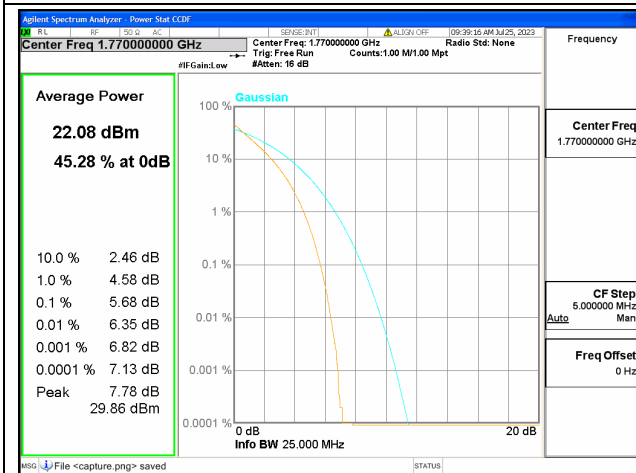
B66 / 20MHz / Low CH / 16QAM



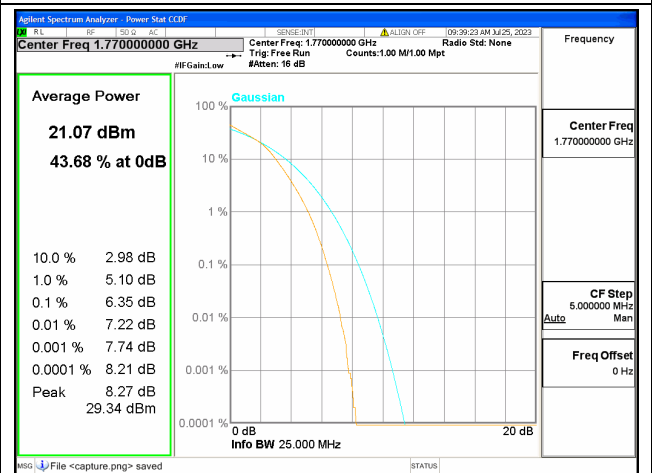
B66 / 20MHz / Mid CH / QPSK



B66 / 20MHz / Mid CH / 16QAM



B66 / 20MHz / High CH / QPSK



B66 / 20MHz / High CH / 16QAM



2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

Additional requirement for LTE Band 2:

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. This calculated to be -13dBm.

Additional requirement for LTE Band 4/66:

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB. This calculated to be -13dBm.

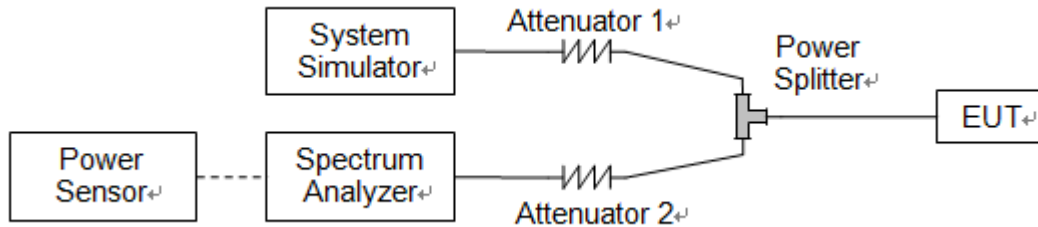
Additional requirement for LTE Band 5:

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. This calculated to be -13dBm.

Additional requirement for LTE Band 12/17/71:

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. This calculated to be -13dBm.

2.5.2. Test Description



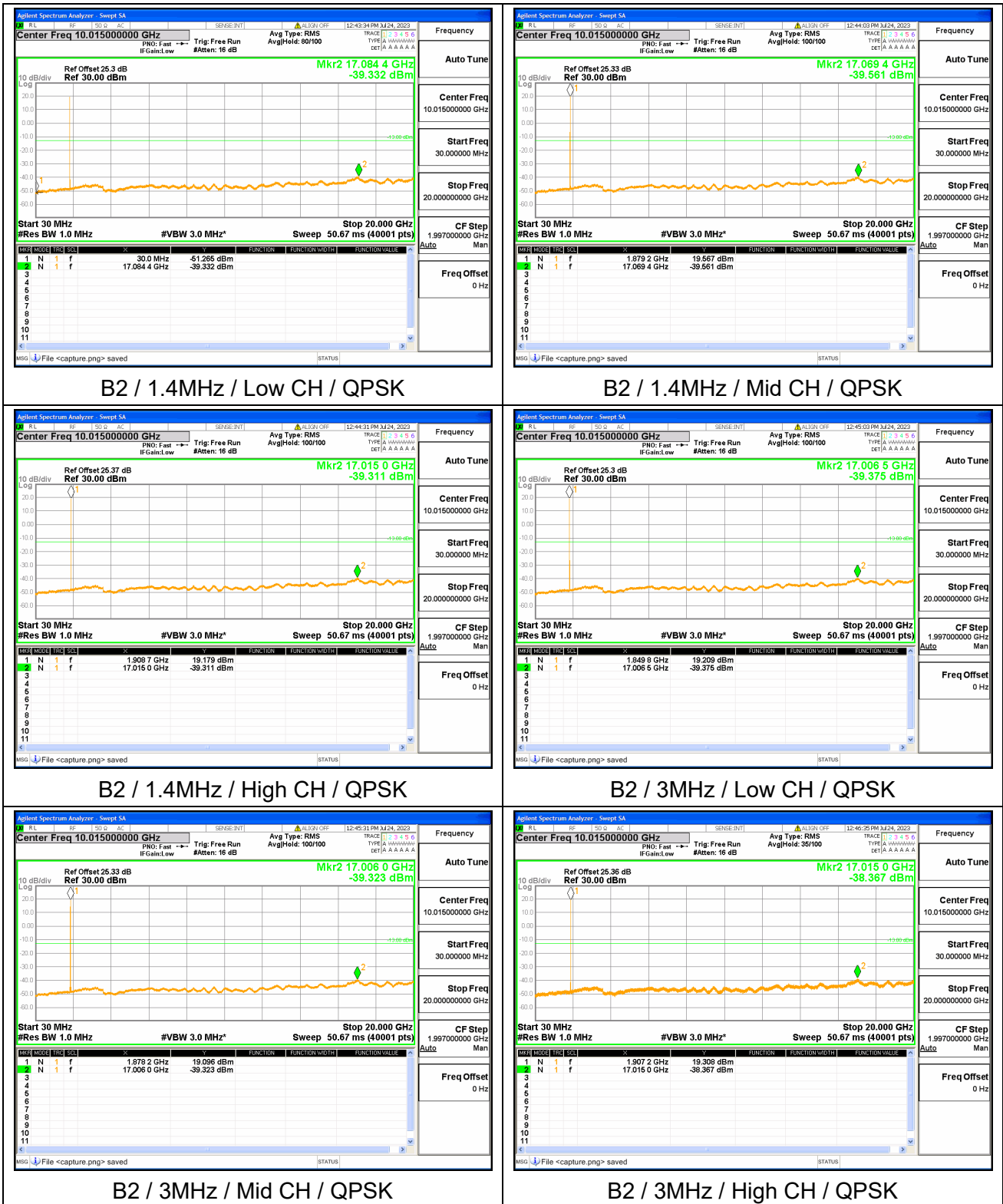
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

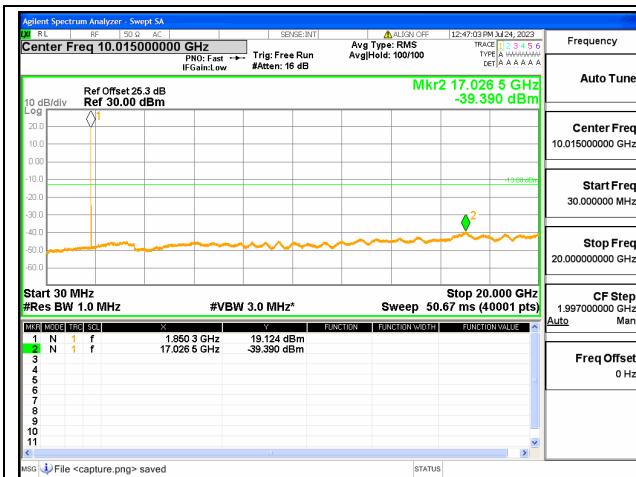
2.5.3. Test Procedure

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

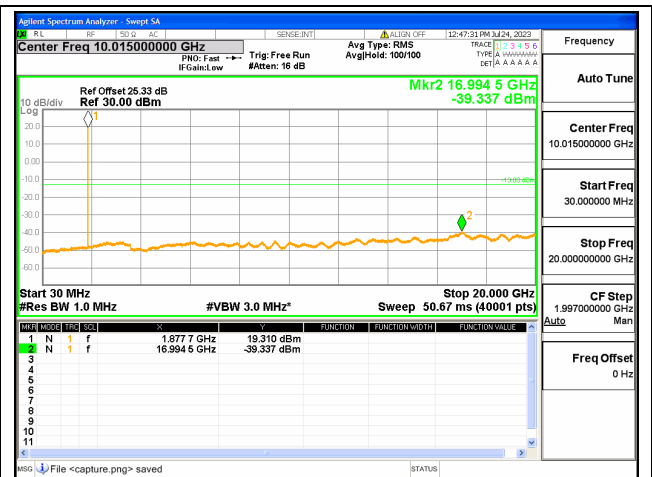


2.5.4. Test Result

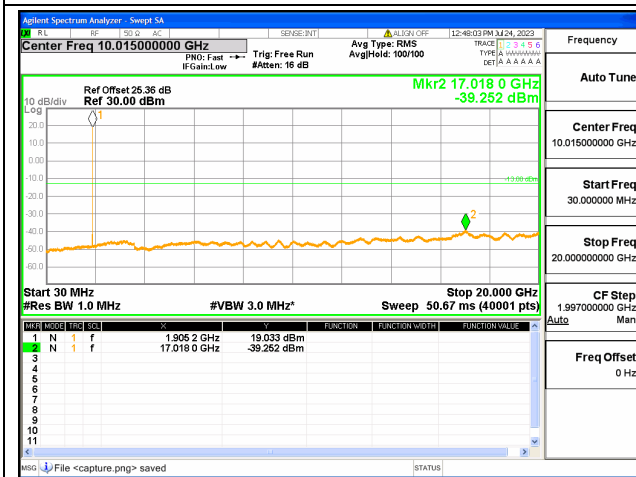




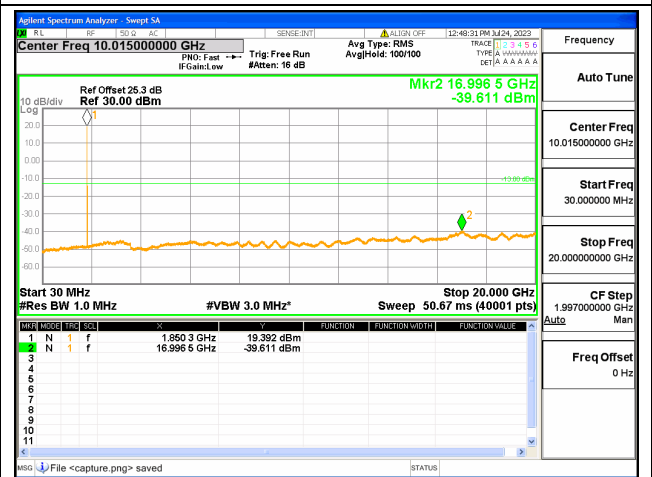
B2 / 5MHz / Low CH / QPSK



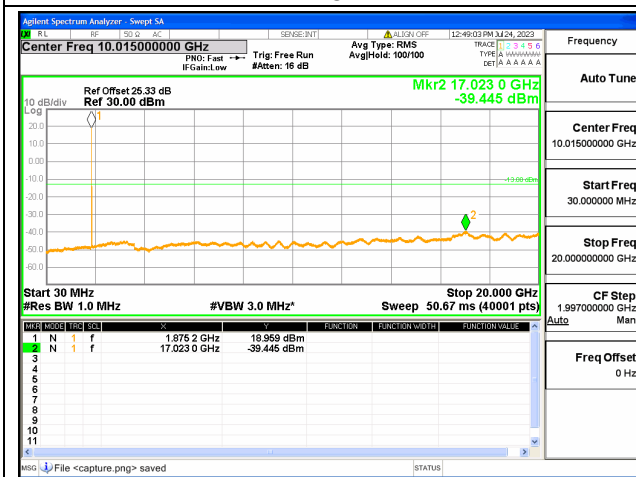
B2 / 5MHz / Mid CH / QPSK



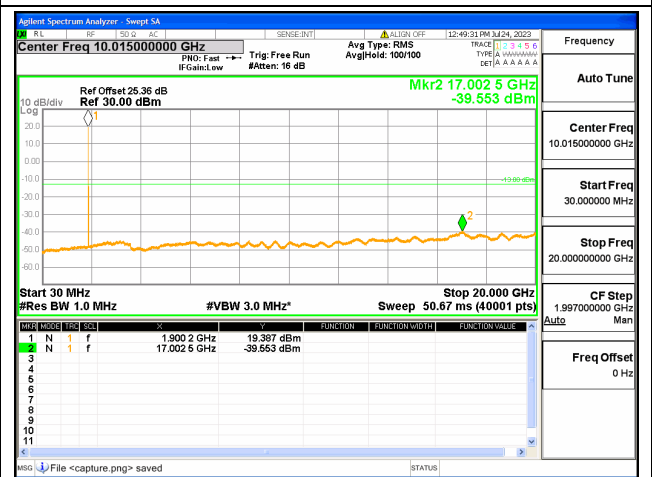
B2 / 5MHz / High CH / QPSK



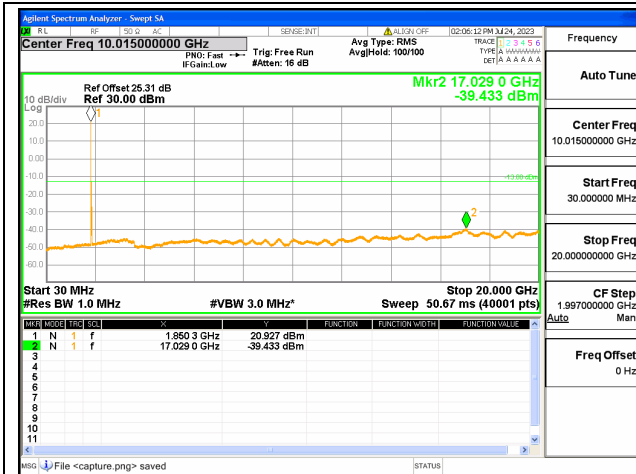
B2 / 10MHz / Low CH / QPSK



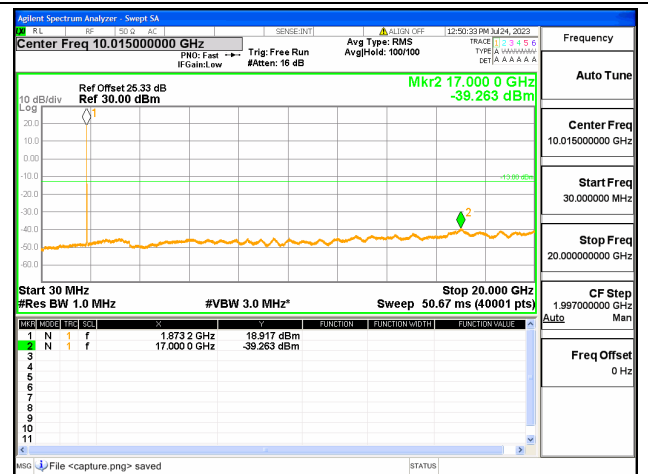
B2 / 10MHz / Mid CH / QPSK



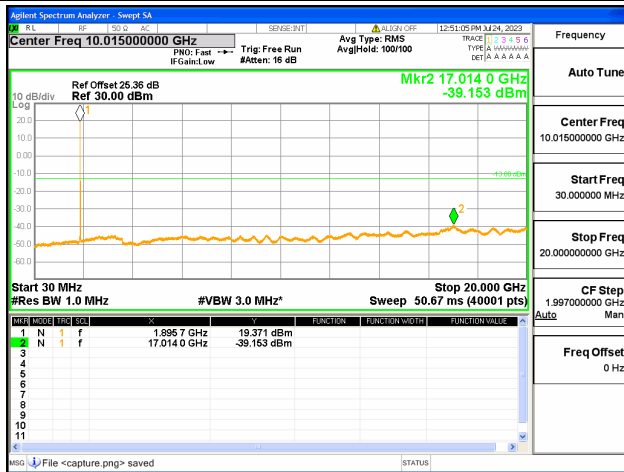
B2 / 10MHz / High CH / QPSK



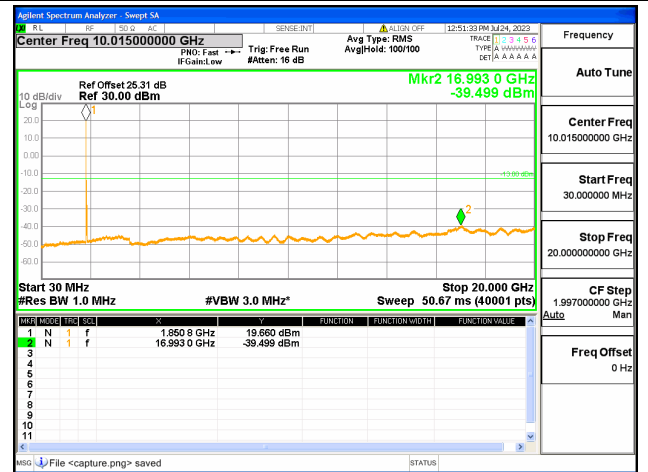
B2 / 15MHz / Low CH / QPSK



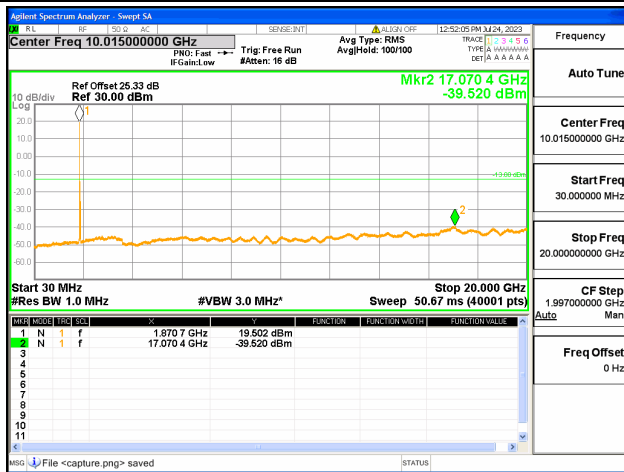
B2 / 15MHz / Mid CH / QPSK



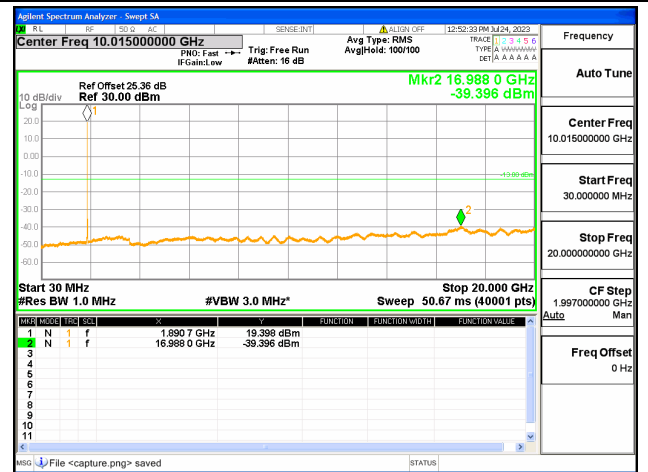
B2 / 15MHz / High CH / QPSK



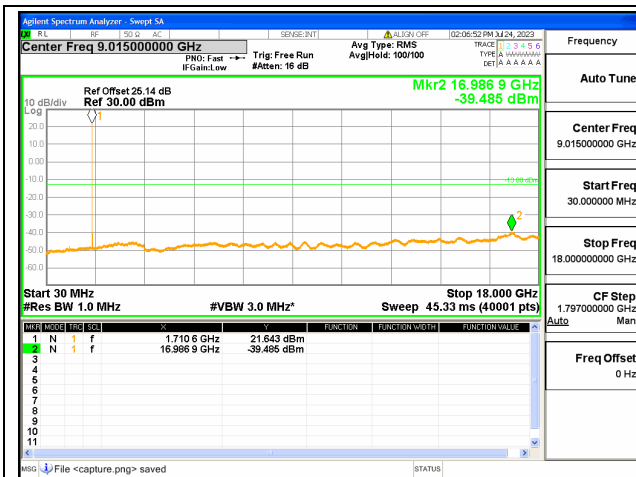
B2 / 20MHz / Low CH / QPSK



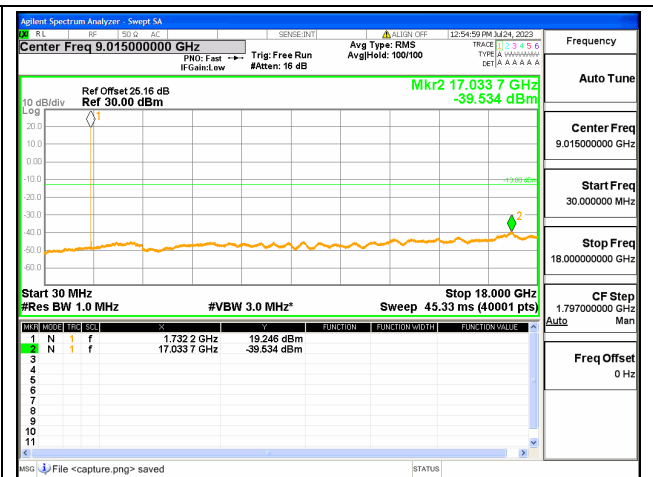
B2 / 20MHz / Mid CH / QPSK



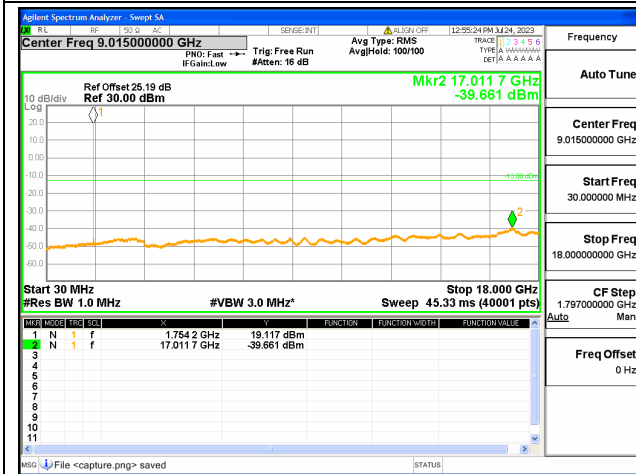
B2 / 20MHz / High CH / QPSK



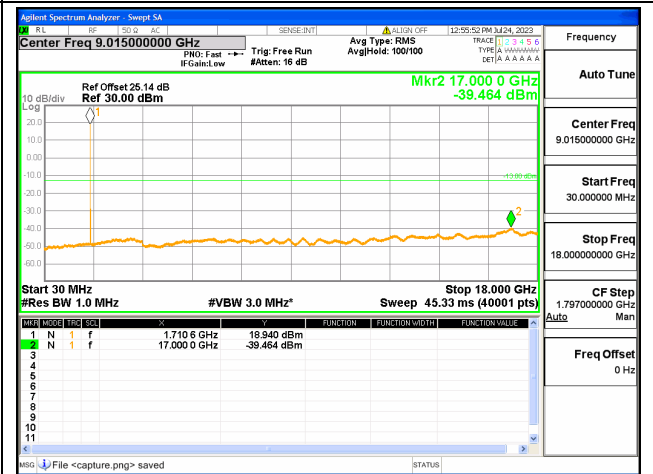
B4 / 1.4MHz / Low CH / QPSK



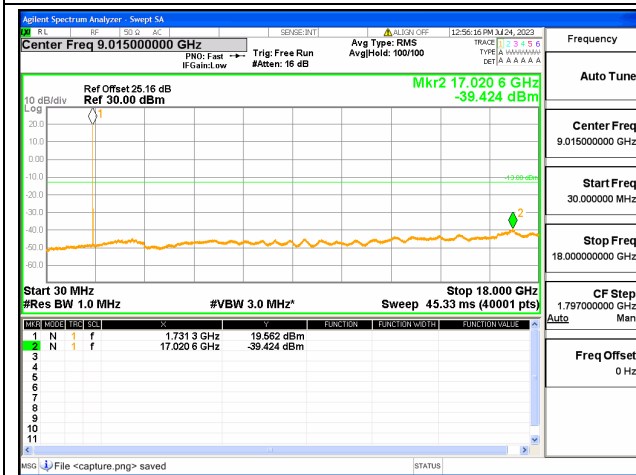
B4 / 1.4MHz / Mid CH / QPSK



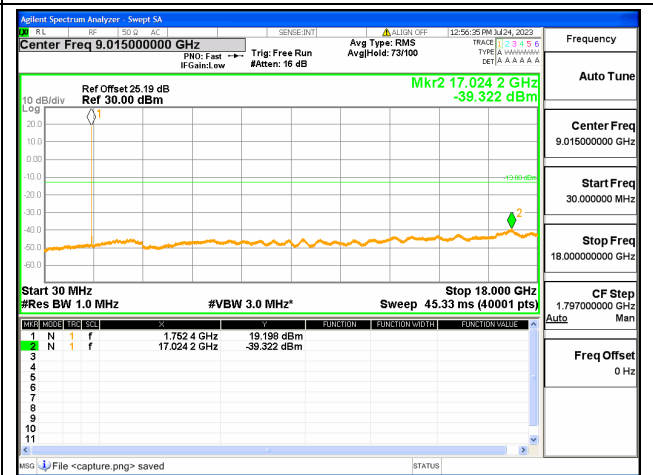
B4 / 1.4MHz / High CH / QPSK



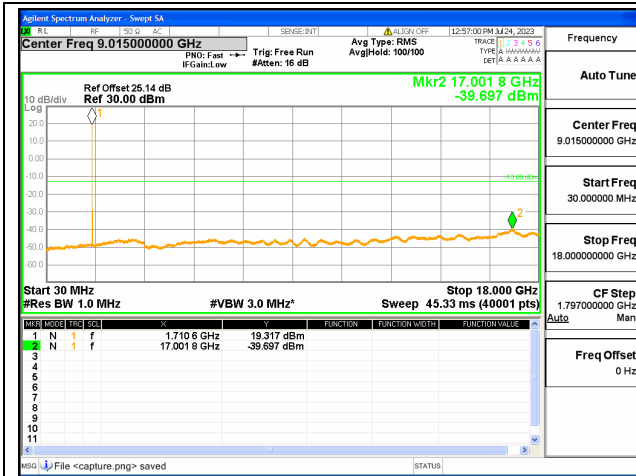
B4 / 3MHz / Low CH / QPSK



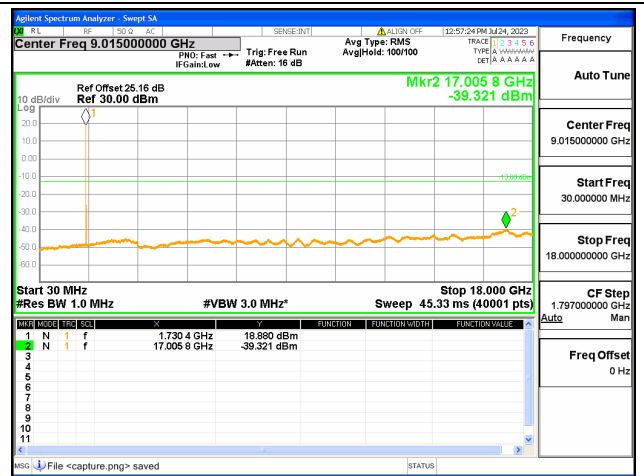
B4 / 3MHz / Mid CH / QPSK



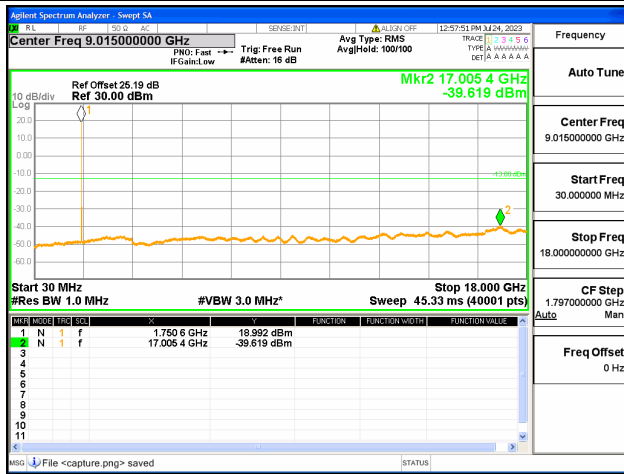
B4 / 3MHz / High CH / QPSK



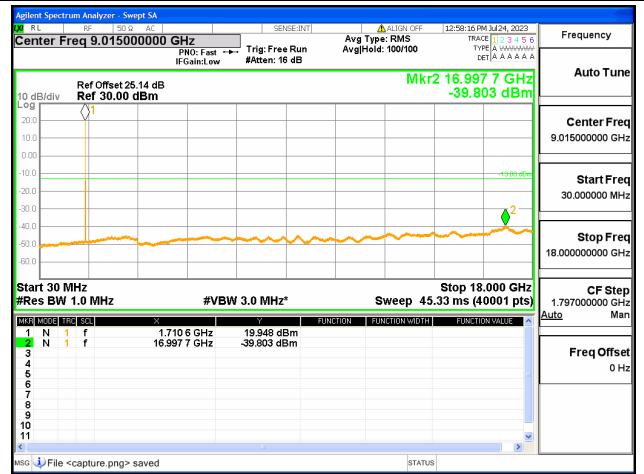
B4 / 5MHz / Low CH / QPSK



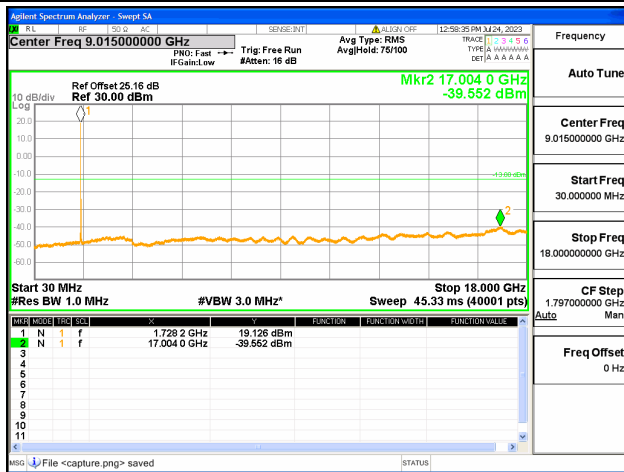
B4 / 5MHz / Mid CH / QPSK



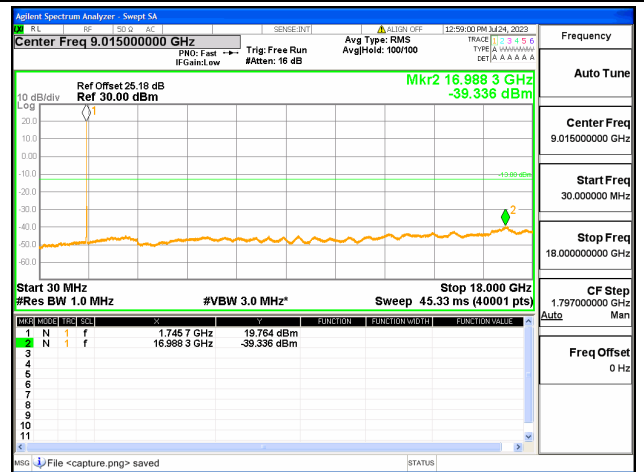
B4 / 5MHz / High CH / QPSK



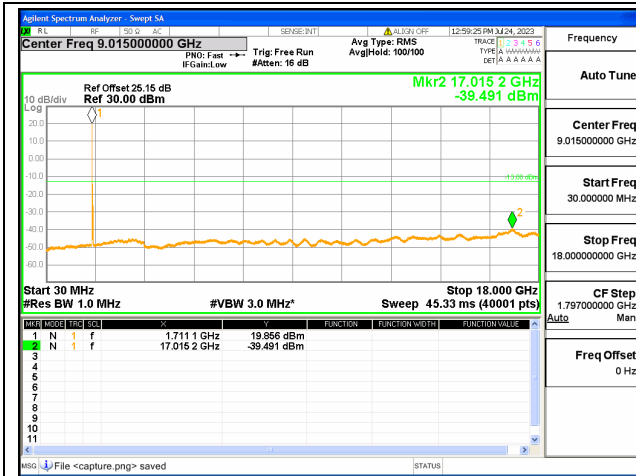
B4 / 10MHz / Low CH / QPSK



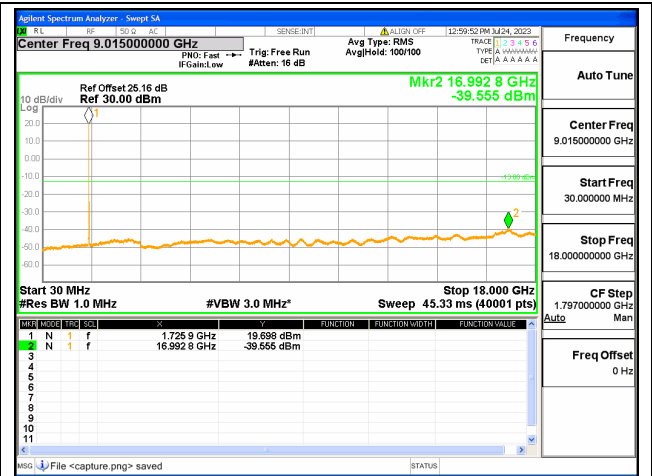
B4 / 10MHz / Mid CH / QPSK



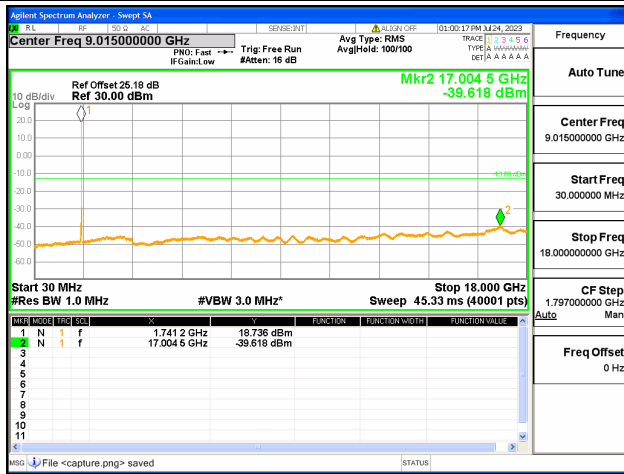
B4 / 10MHz / High CH / QPSK



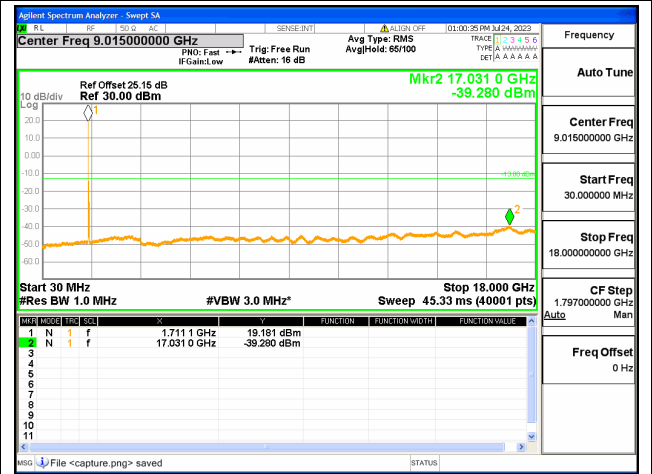
B4 / 15MHz / Low CH / QPSK



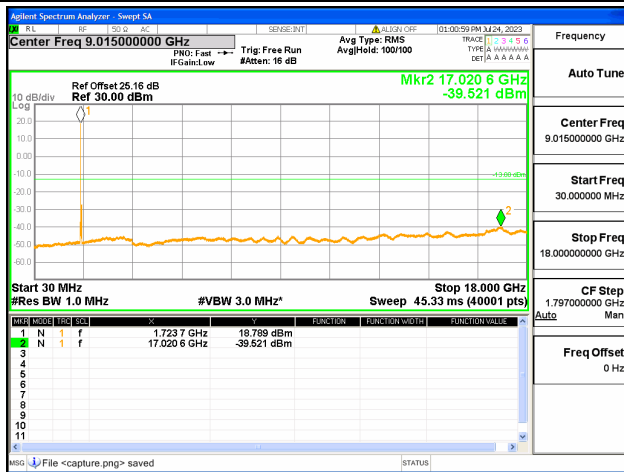
B4 / 15MHz / Mid CH / QPSK



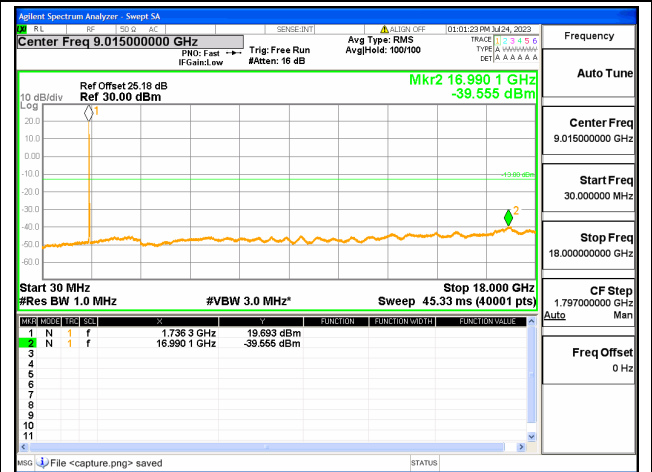
B4 / 15MHz / High CH / QPSK



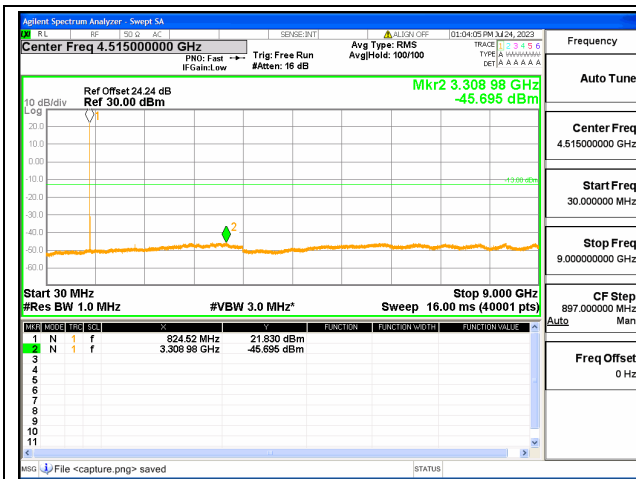
B4 / 20MHz / Low CH / QPSK



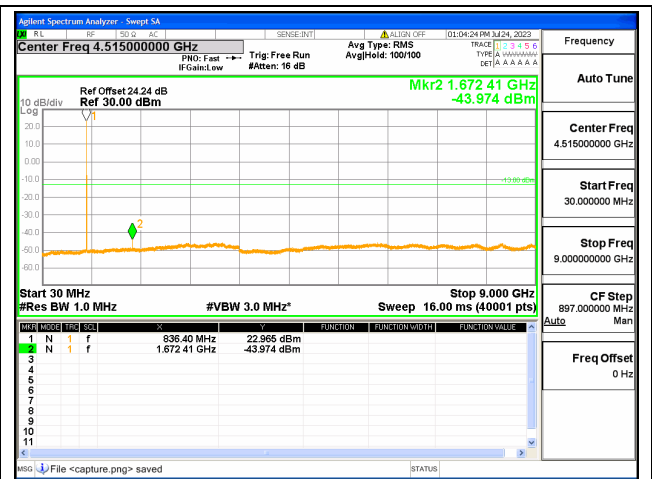
B4 / 20MHz / Mid CH / QPSK



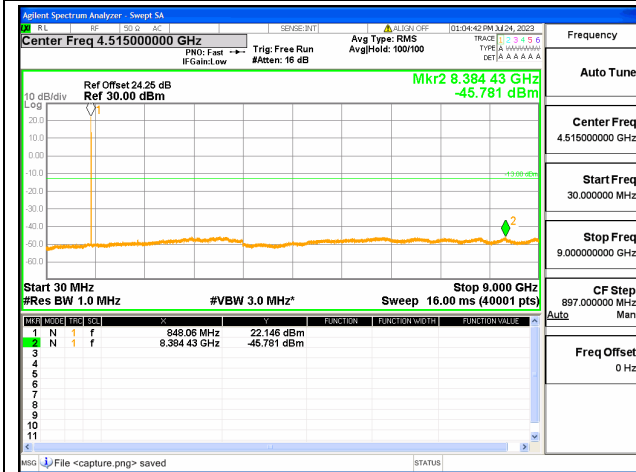
B4 / 20MHz / High CH / QPSK



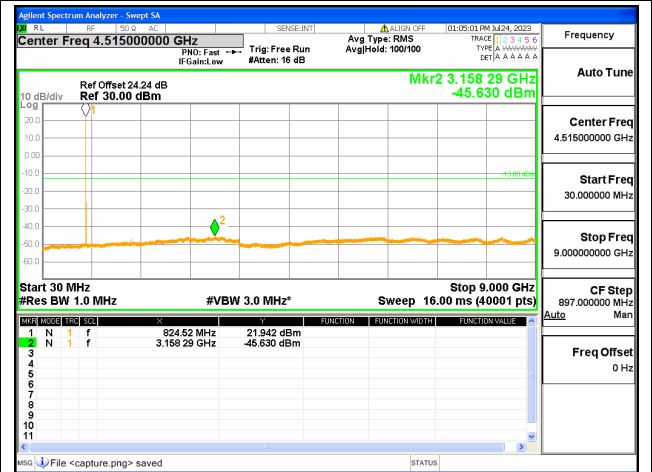
B5 / 1.4MHz / Low CH / QPSK



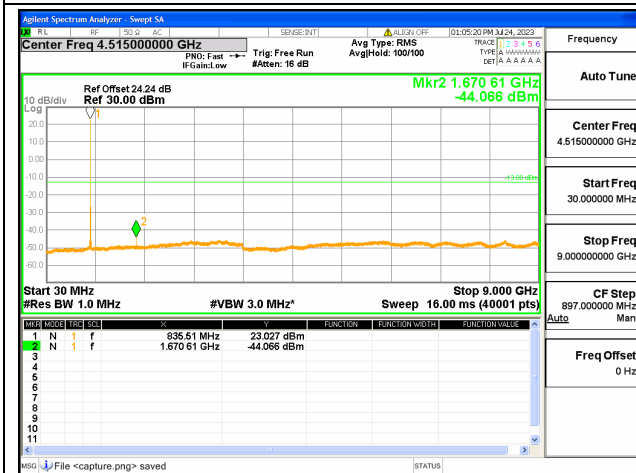
B5 / 1.4MHz / Mid CH / QPSK



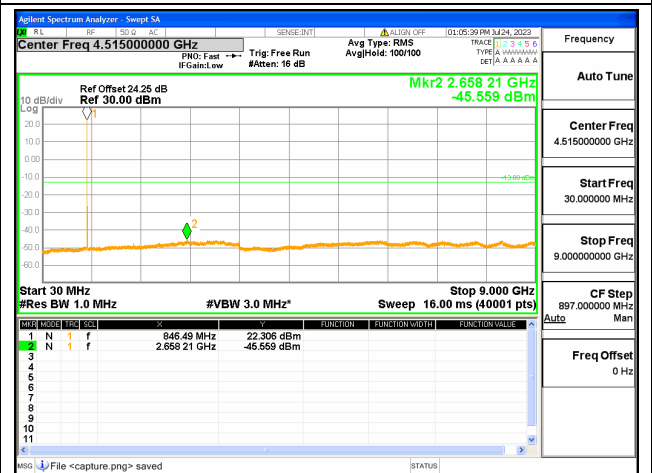
B5 / 1.4MHz / High CH / QPSK



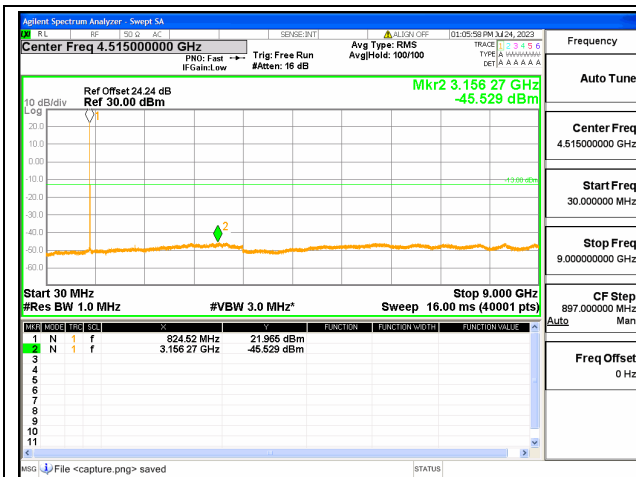
B5 / 3MHz / Low CH / QPSK



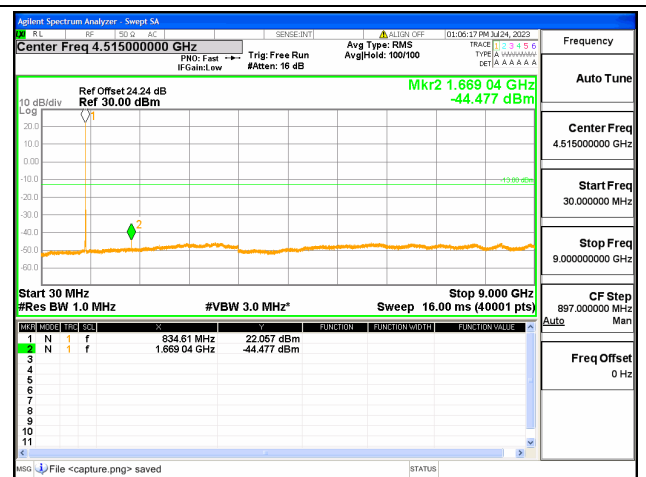
B5 / 3MHz / Mid CH / QPSK



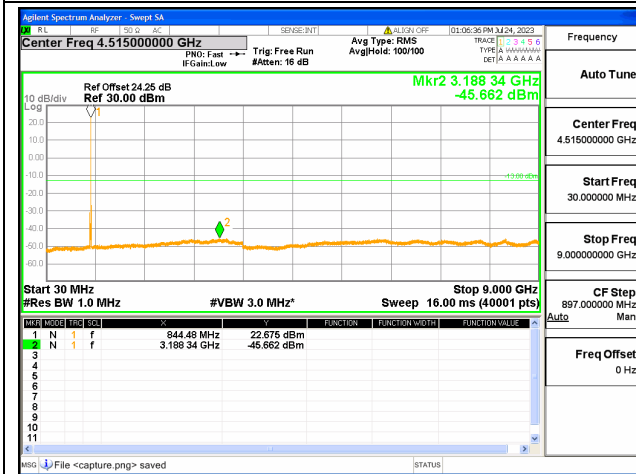
B5 / 3MHz / High CH / QPSK



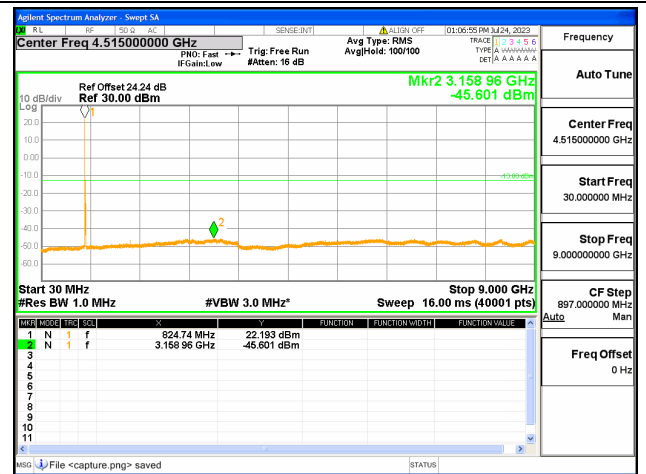
B5 / 5MHz / Low CH / QPSK



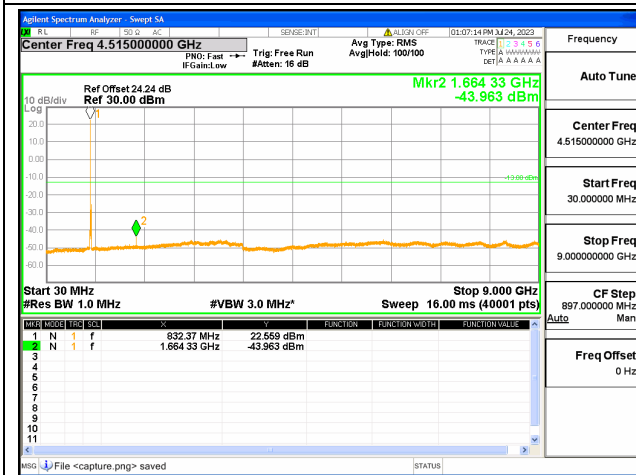
B5 / 5MHz / Mid CH / QPSK



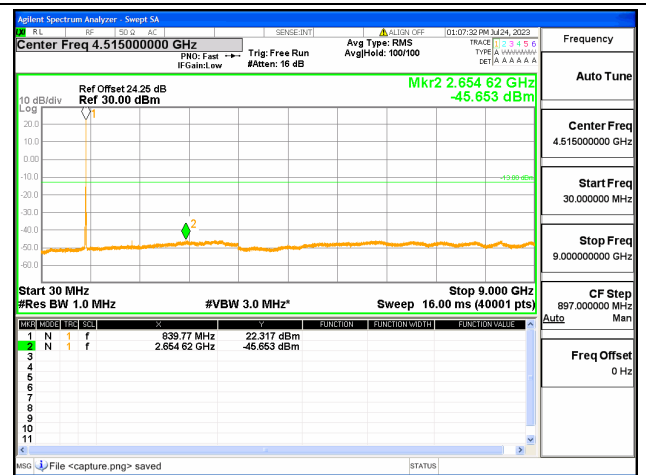
B5 / 5MHz / High CH / QPSK



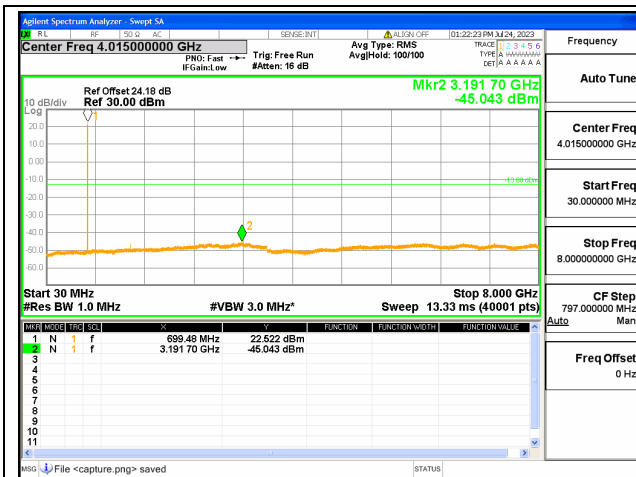
B5 / 10MHz / Low CH / QPSK



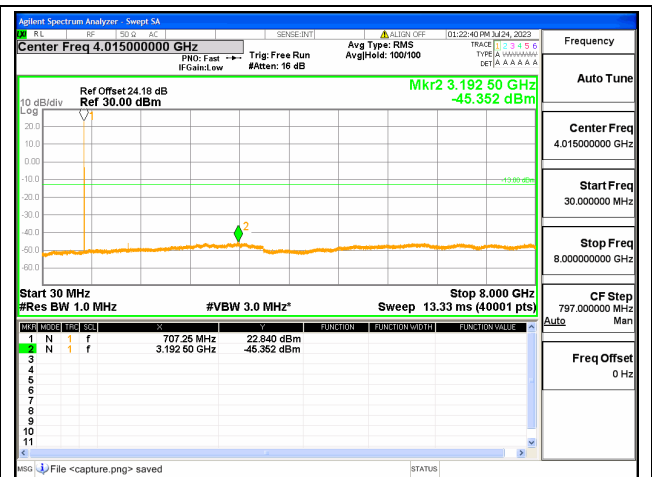
B5 / 10MHz / Mid CH / QPSK



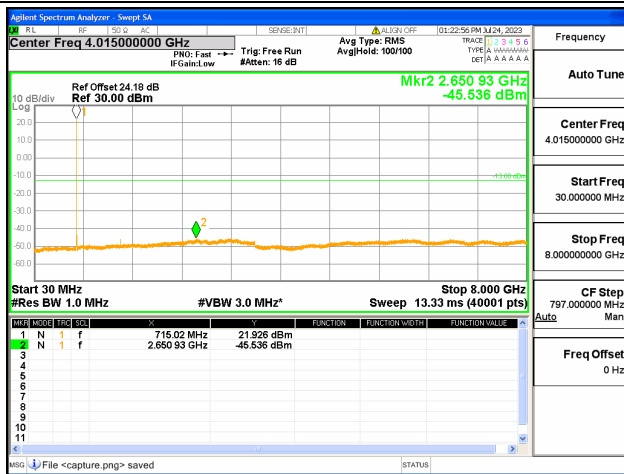
B5 / 10MHz / High CH / QPSK



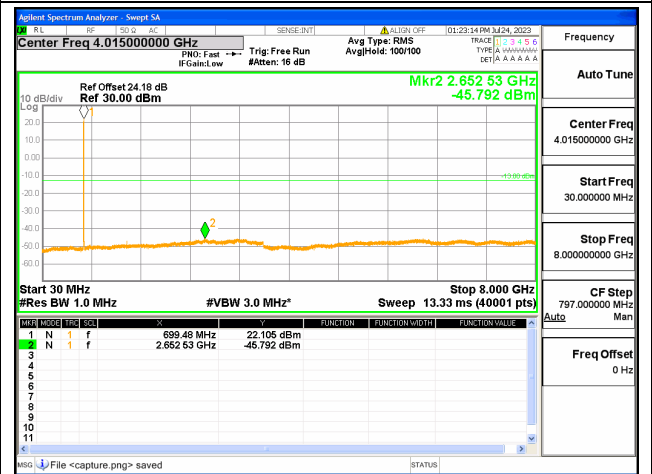
B12 / 1.4MHz / Low CH / QPSK



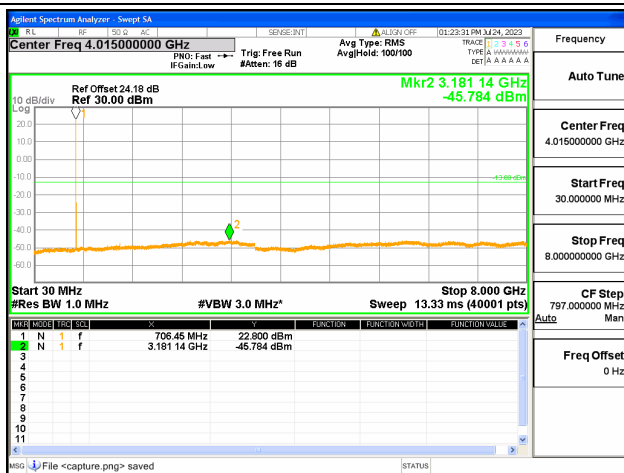
B12 / 1.4MHz / Mid CH / QPSK



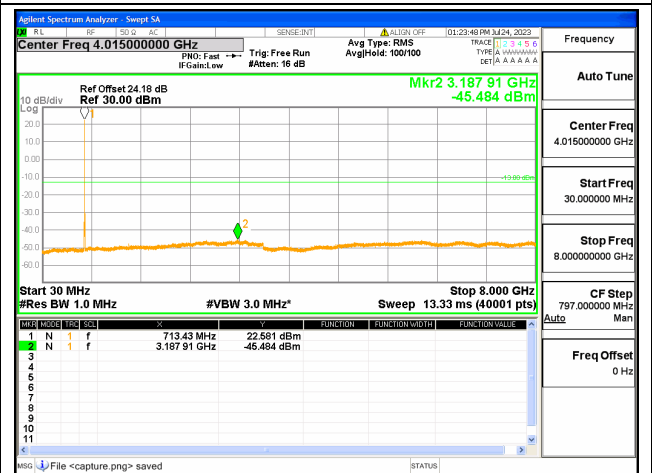
B12 / 1.4MHz / High CH / QPSK



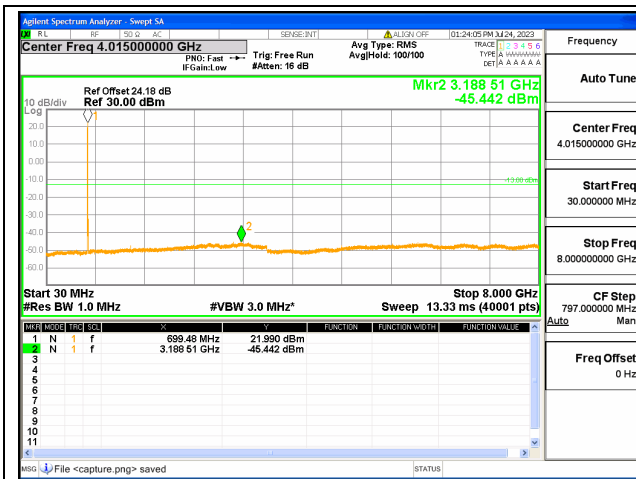
B12 / 3MHz / Low CH / QPSK



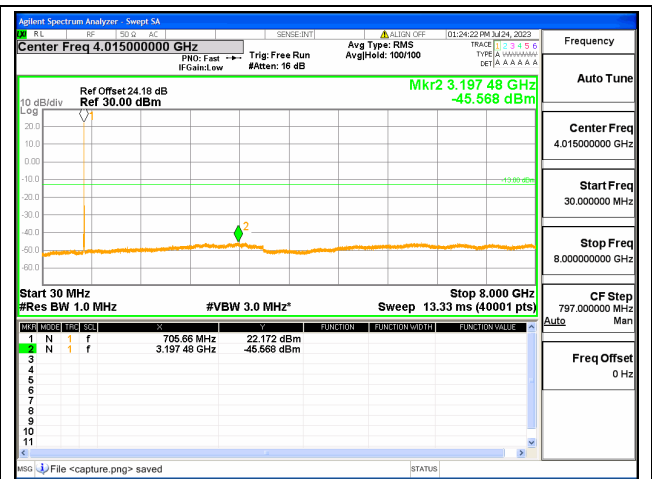
B12 / 3MHz / Mid CH / QPSK



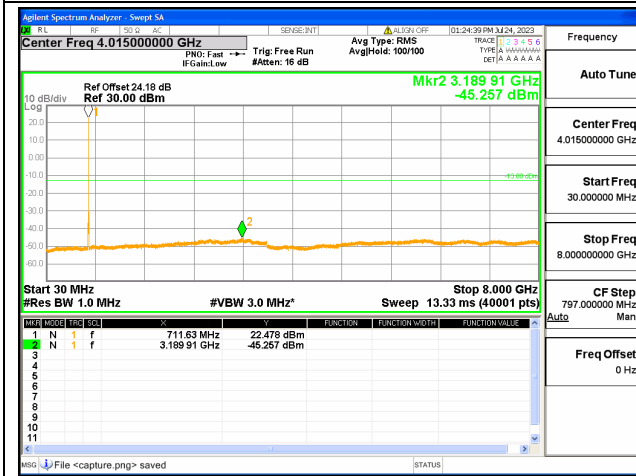
B12 / 3MHz / High CH / QPSK



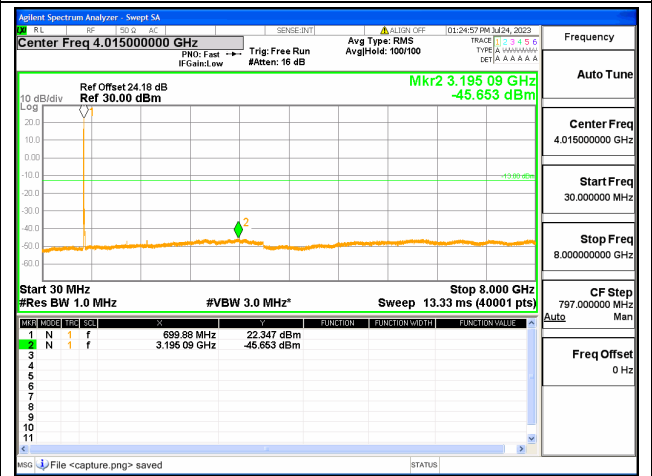
B12 / 5MHz / Low CH / QPSK



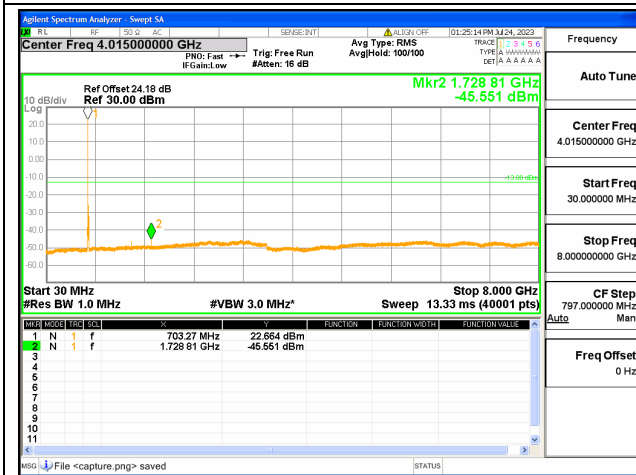
B12 / 5MHz / Mid CH / QPSK



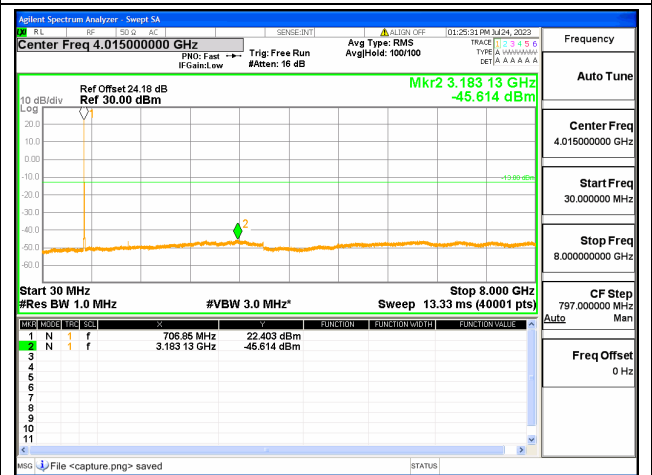
B12 / 5MHz / High CH / QPSK



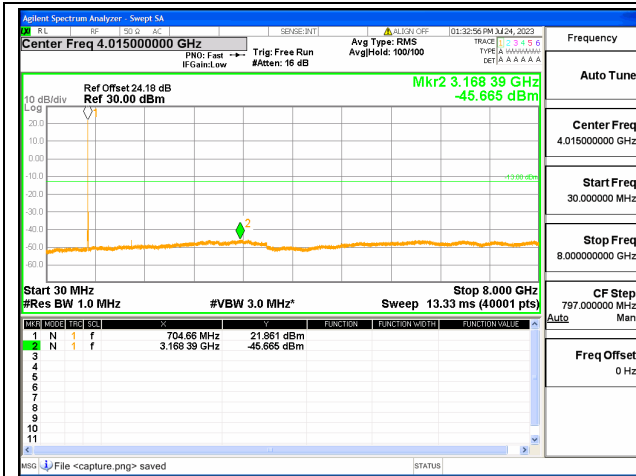
B12 / 10MHz / Low CH / QPSK



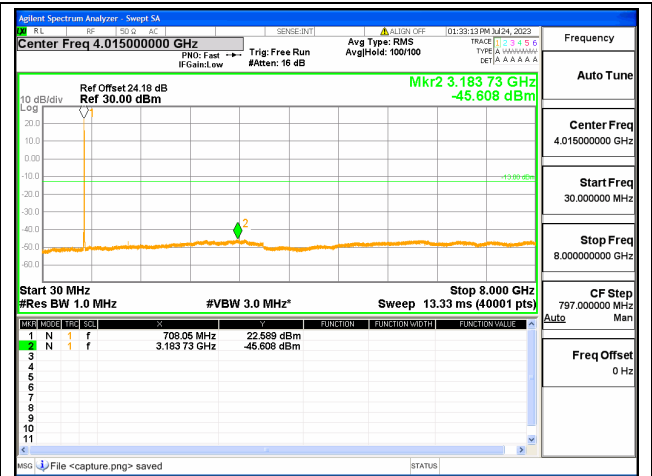
B12 / 10MHz / Mid CH / QPSK



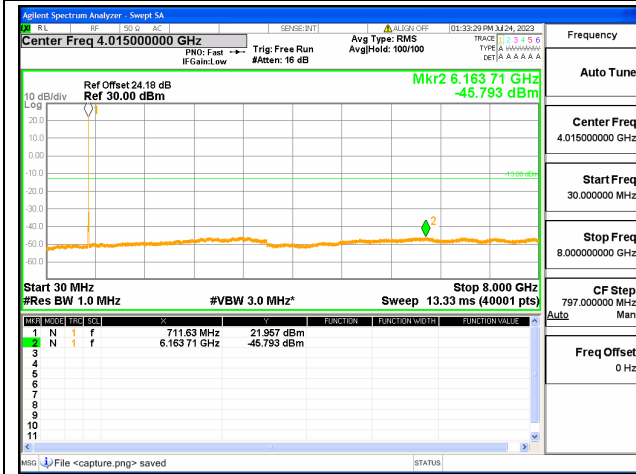
B12 / 10MHz / High CH / QPSK



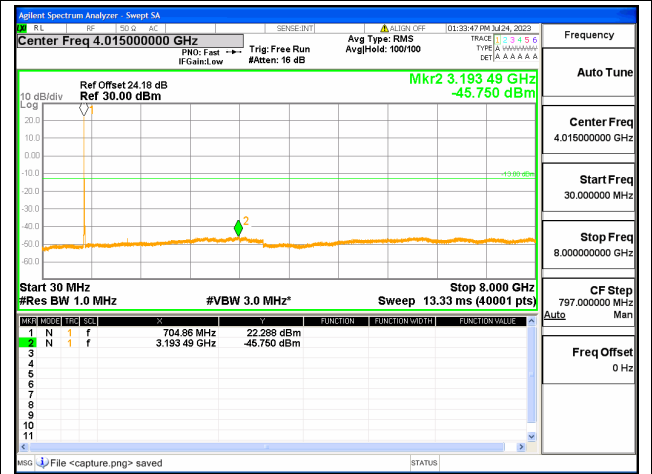
B17 / 5MHz / Low CH / QPSK



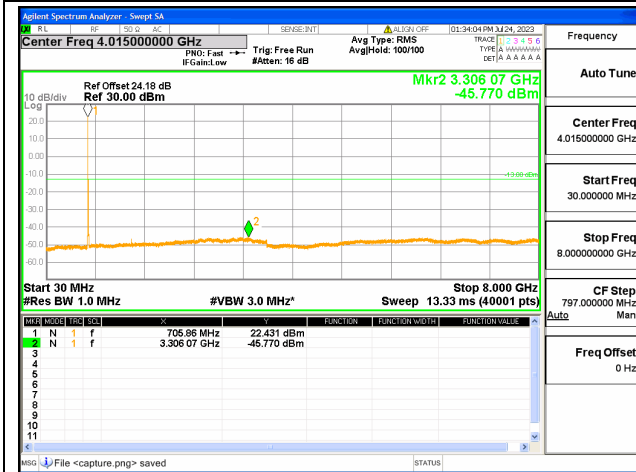
B17 / 5MHz / Mid CH / QPSK



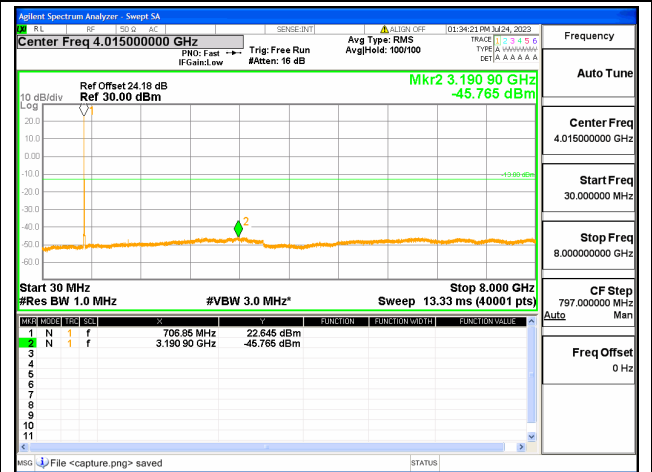
B17 / 5MHz / High CH / QPSK



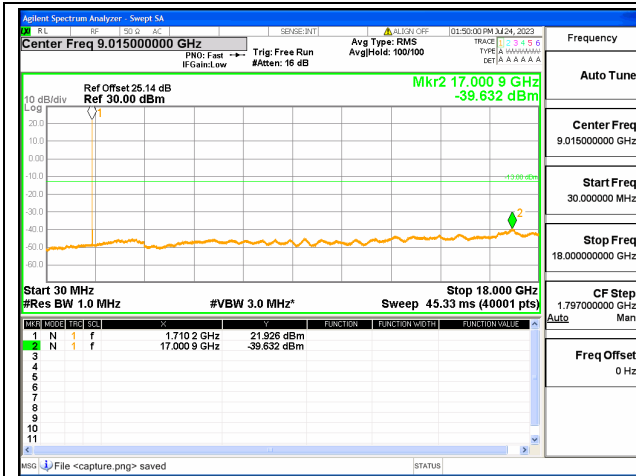
B17 / 10MHz / Low CH / QPSK



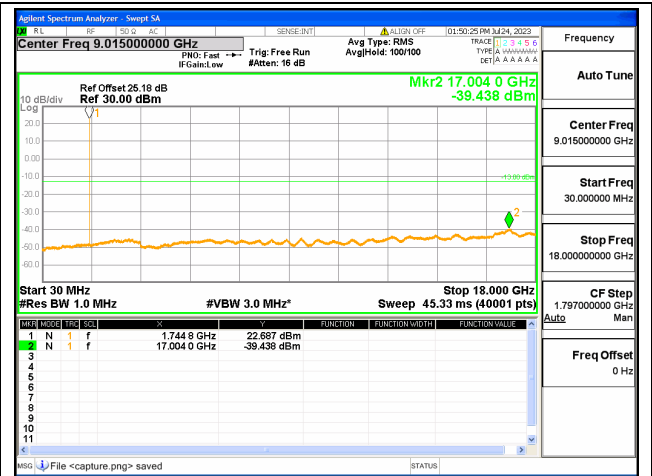
B17 / 10MHz / Mid CH / QPSK



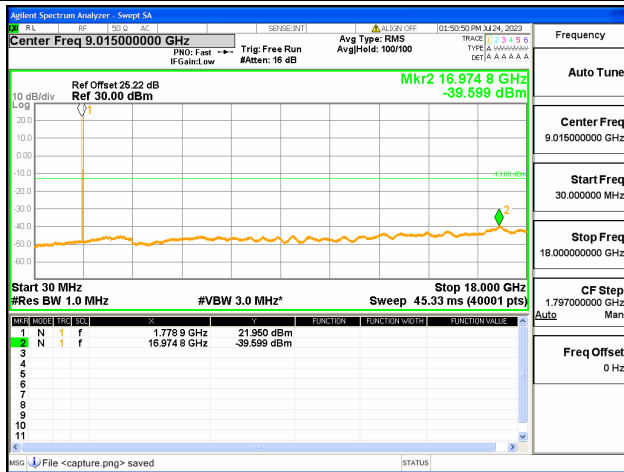
B17 / 10MHz / High CH / QPSK



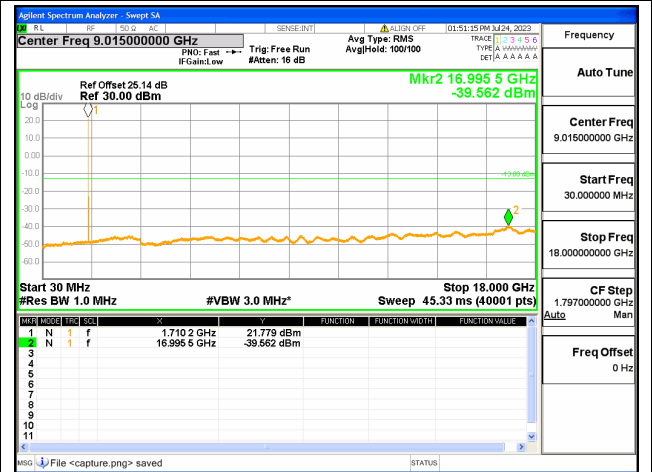
B66 / 1.4MHz / Low CH / QPSK



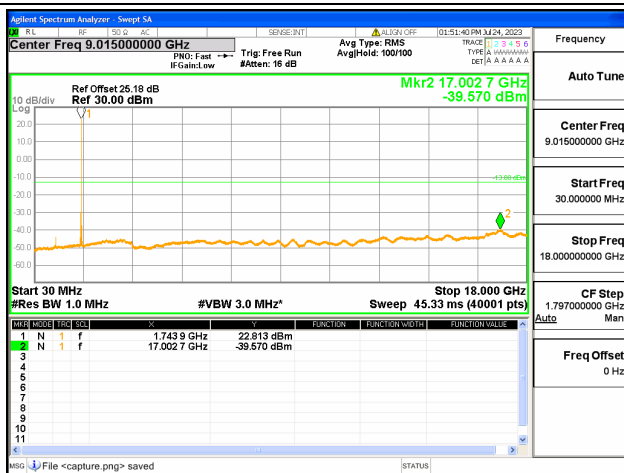
B66 / 1.4MHz / Mid CH / QPSK



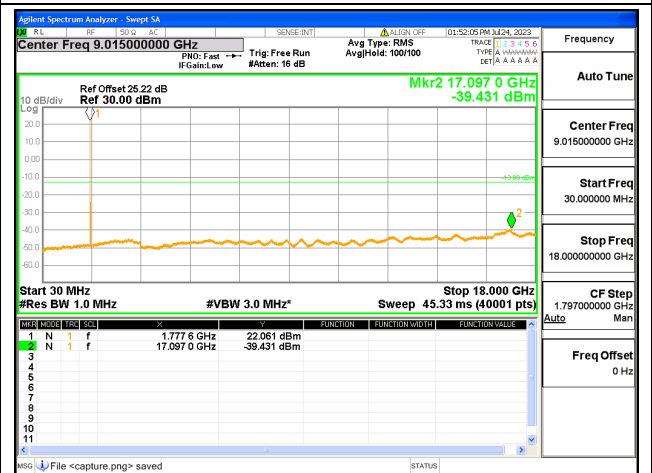
B66 / 1.4MHz / High CH / QPSK



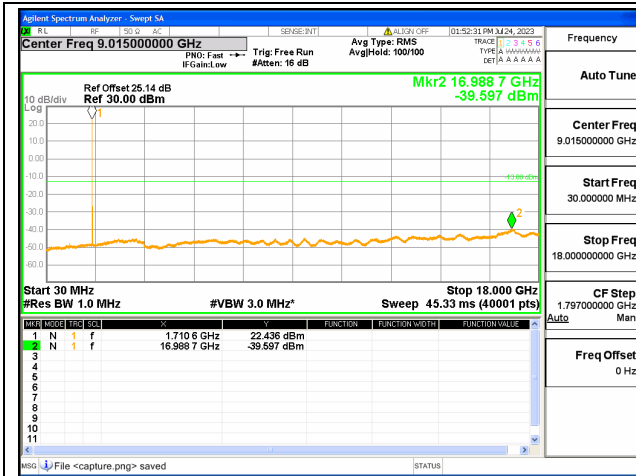
B66 / 3MHz / Low CH / QPSK



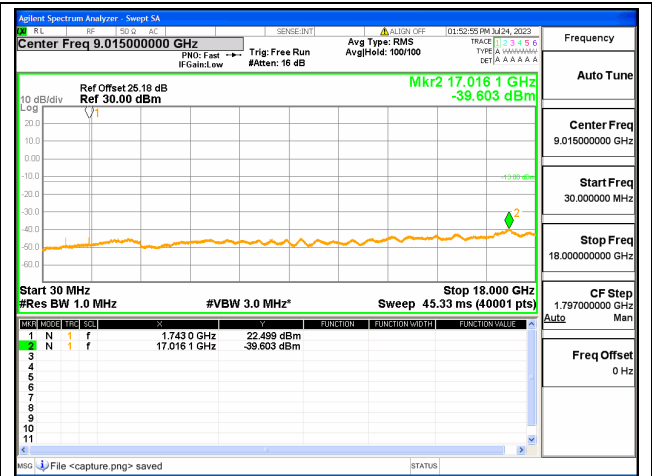
B66 / 3MHz / Mid CH / QPSK



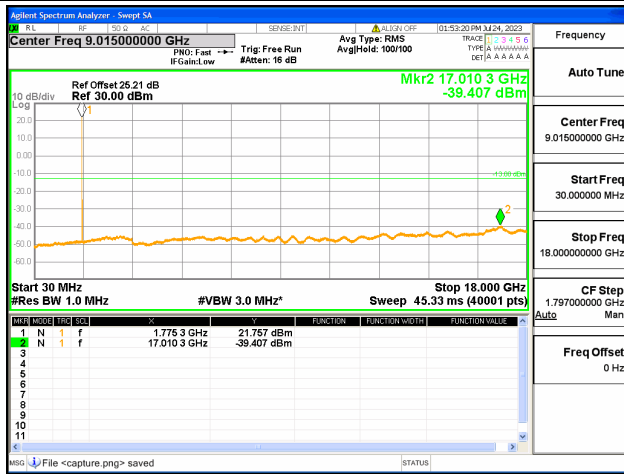
B66 / 3MHz / High CH / QPSK



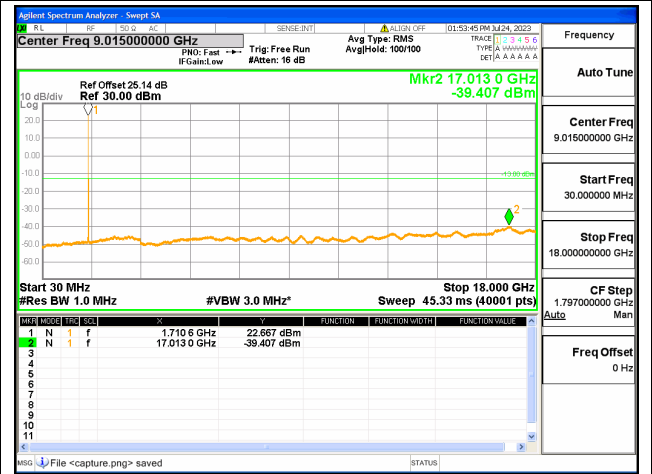
B66 / 5MHz / Low CH / QPSK



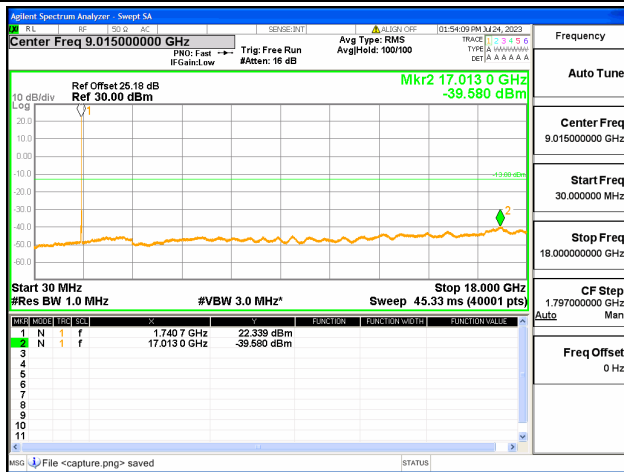
B66 / 5MHz / Mid CH / QPSK



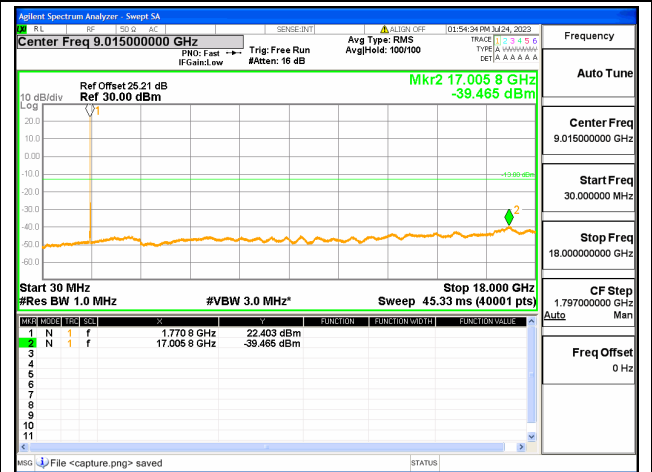
B66 / 5MHz / High CH / QPSK



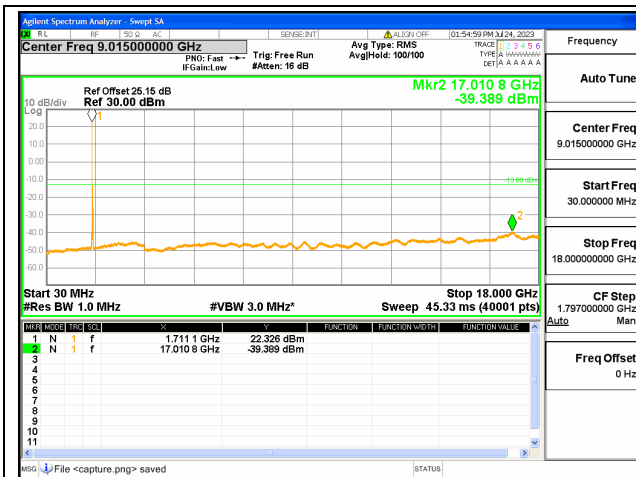
B66 / 10MHz / Low CH / QPSK



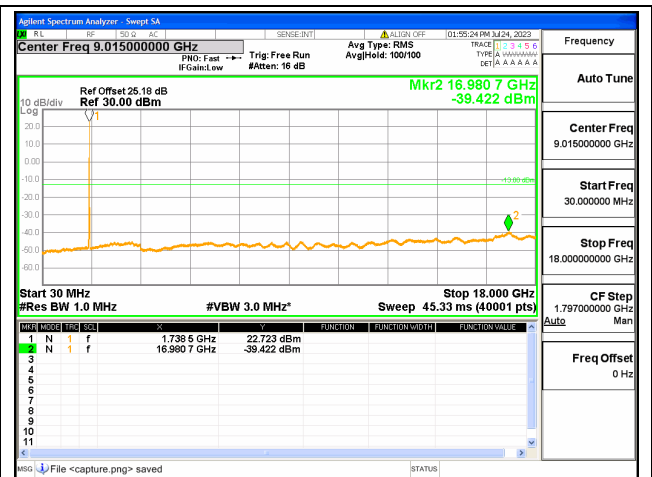
B66 / 10MHz / Mid CH / QPSK



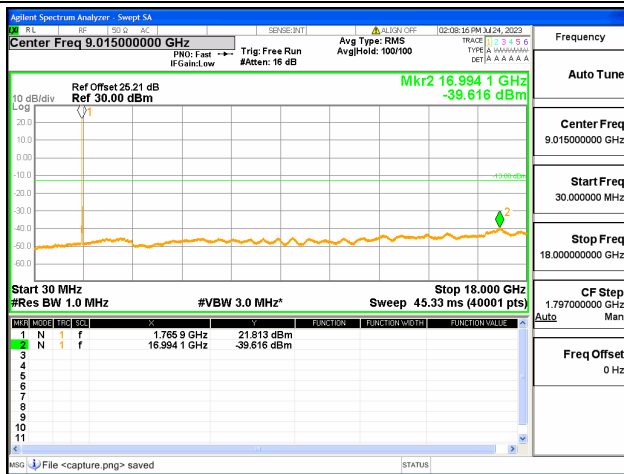
B66 / 10MHz / High CH / QPSK



B66 / 15MHz / Low CH / QPSK



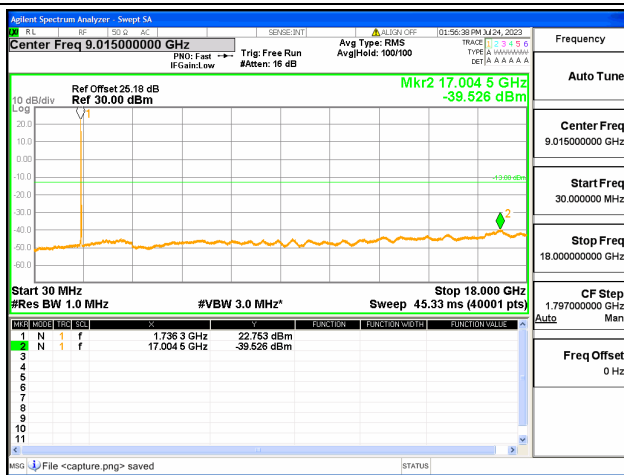
B66 / 15MHz / Mid CH / QPSK



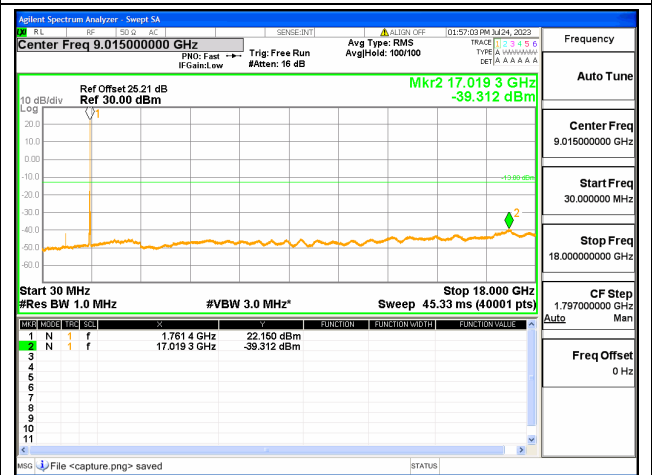
B66 / 15MHz / High CH / QPSK



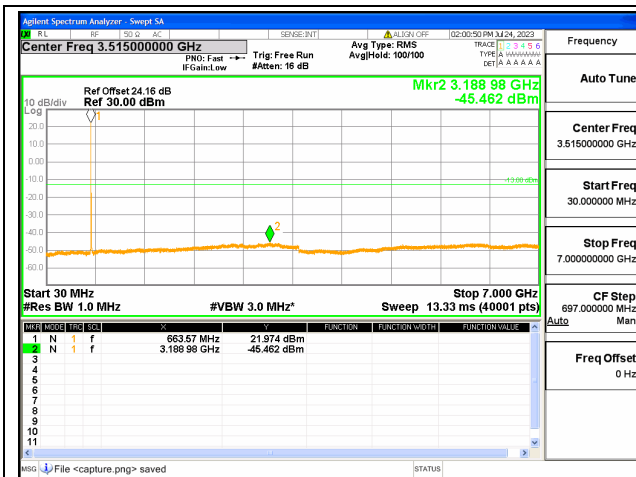
B66 / 20MHz / Low CH / QPSK



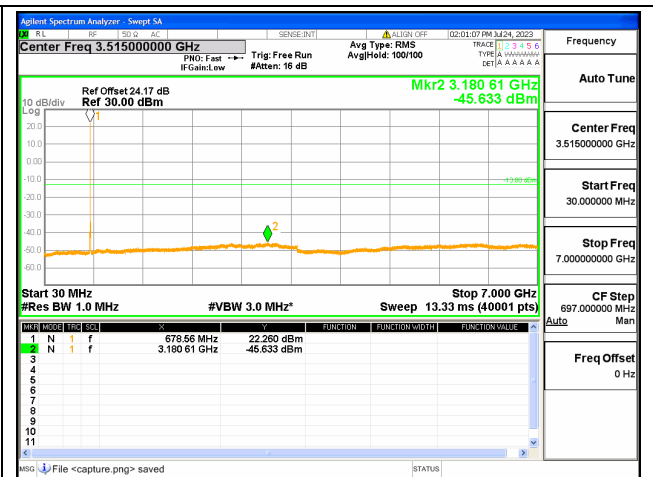
B66 / 20MHz / Mid CH / QPSK



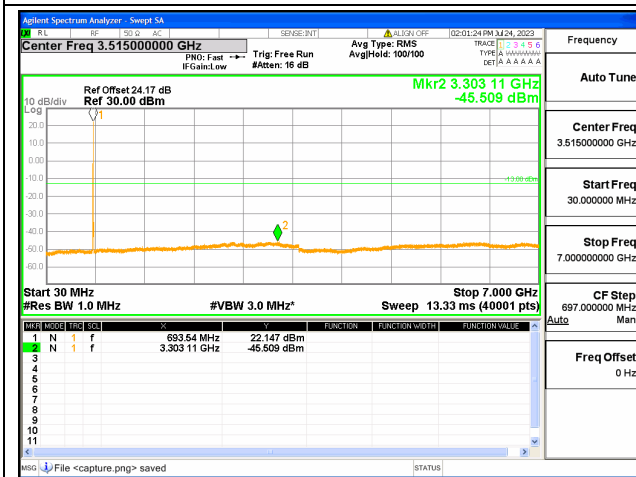
B66 / 20MHz / High CH / QPSK



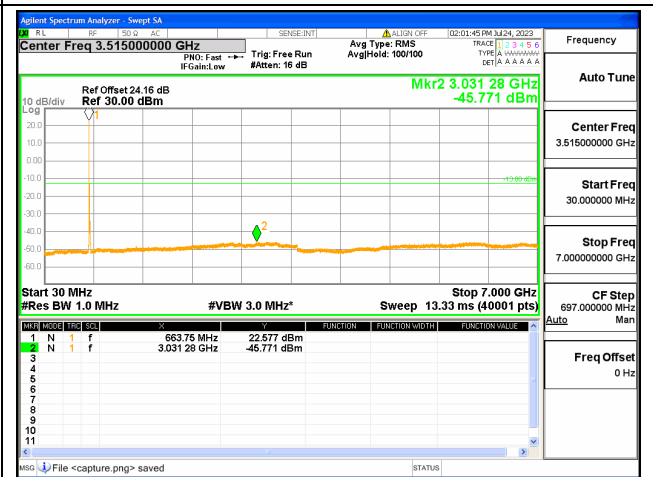
B71 / 5MHz / Low CH / QPSK



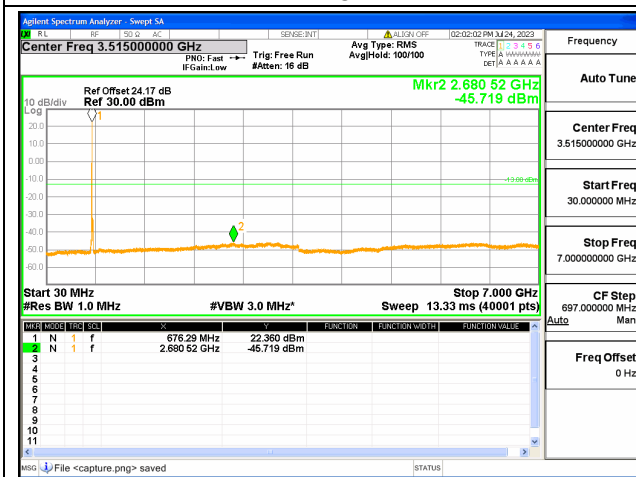
B71 / 5MHz / Mid CH / QPSK



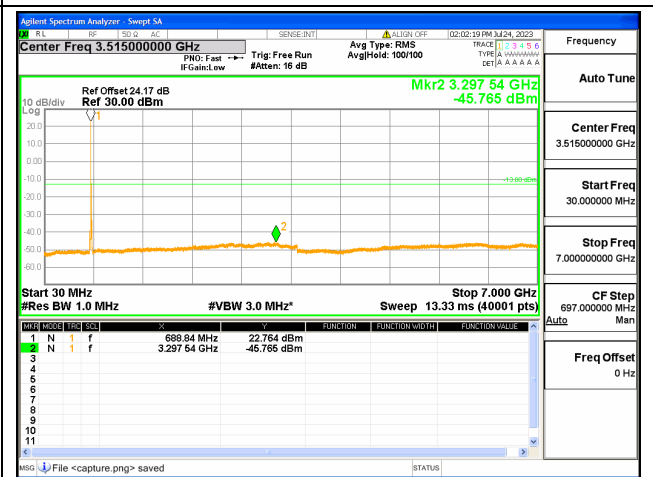
B71 / 5MHz / High CH / QPSK



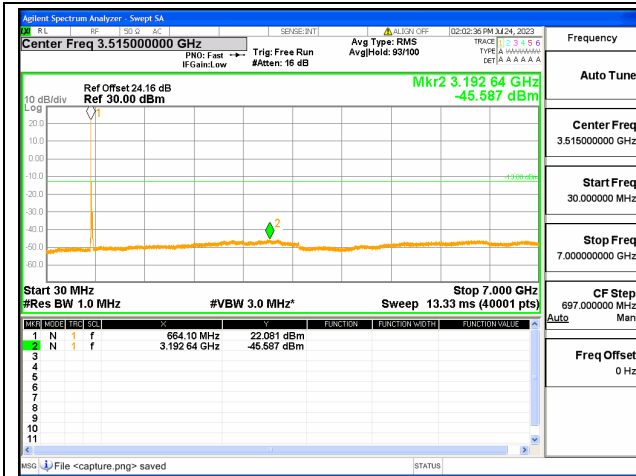
B71 / 10MHz / Low CH / QPSK



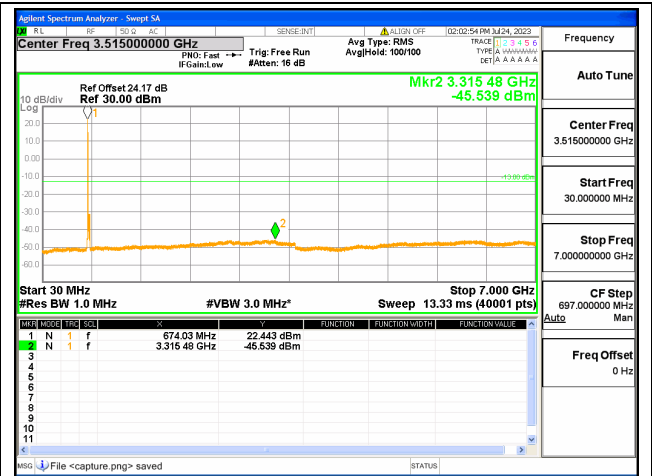
B71 / 10MHz / Mid CH / QPSK



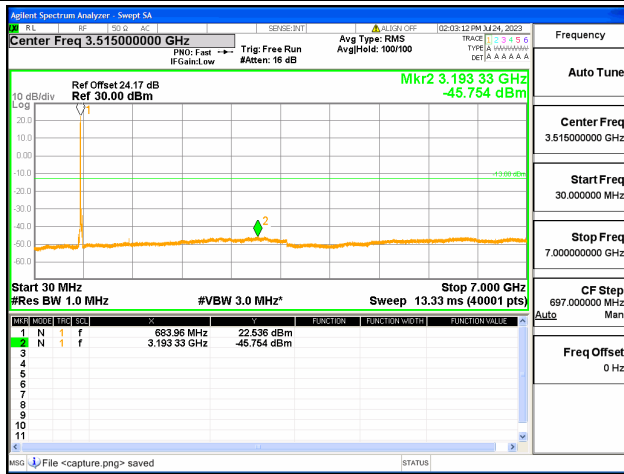
B71 / 10MHz / High CH / QPSK



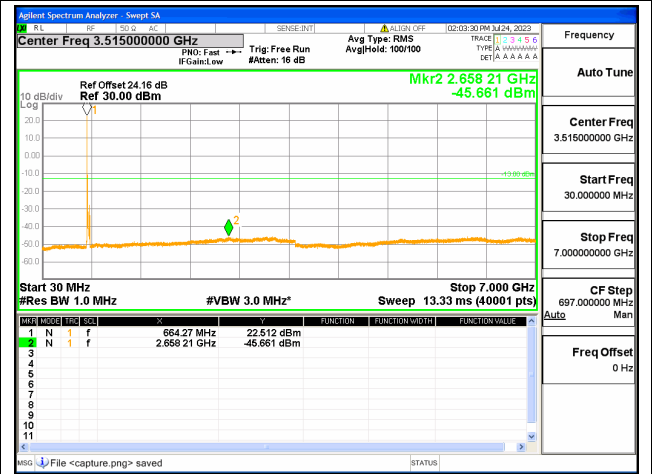
B71 / 15MHz / Low CH / QPSK



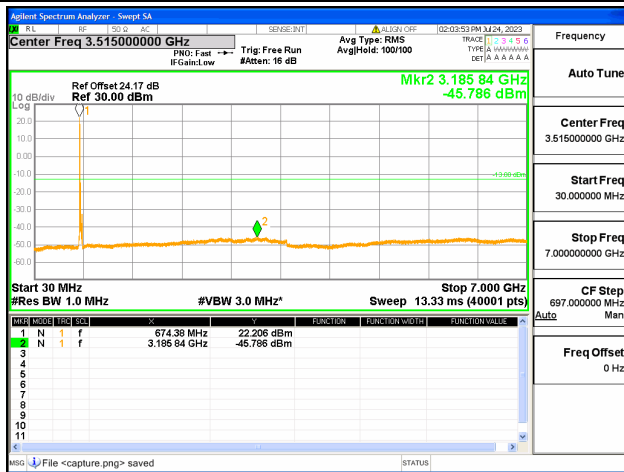
B71 / 15MHz / Mid CH / QPSK



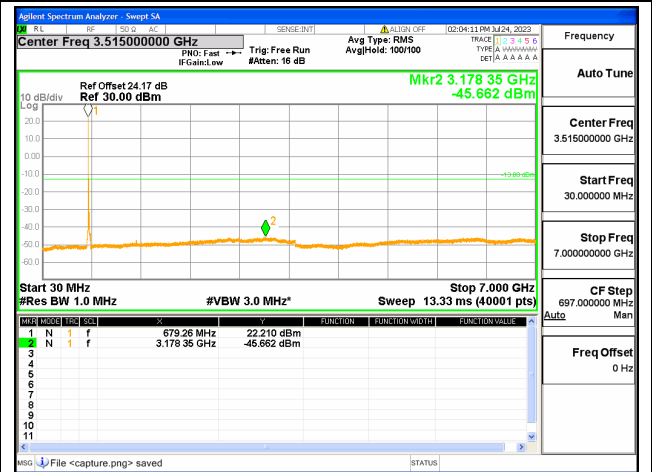
B71 / 15MHz / High CH / QPSK



B71 / 20MHz / Low CH / QPSK



B71 / 20MHz / Mid CH / QPSK



B71 / 20MHz / High CH / QPSK



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 $43 + 10 \log(P)$ dBm 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 $43 + 10 \log_{10}(P)$ dBm 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.

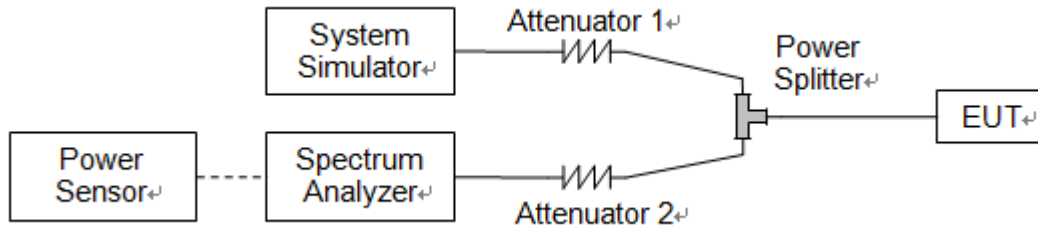
Band 5,

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 $43 + 10 \log(P)$ dBm 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, 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.

2.6.2. Test Description



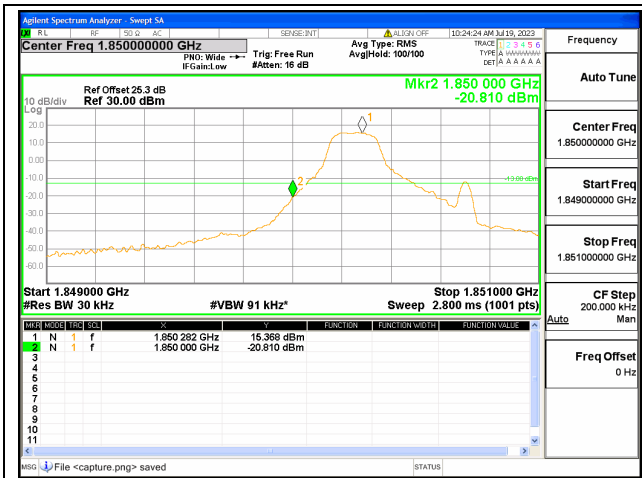
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.6.3. Test Procedure

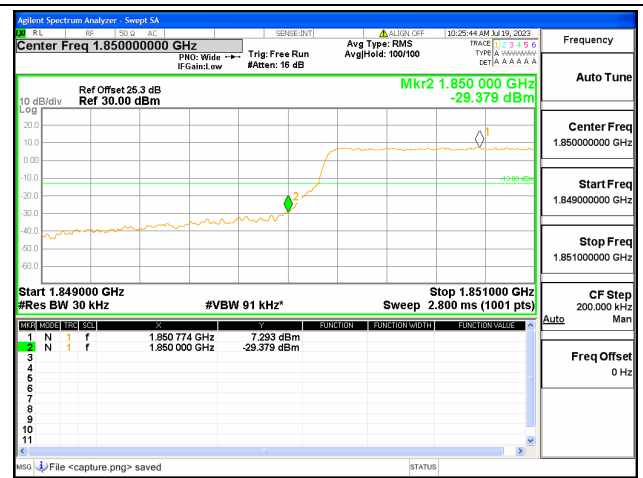
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



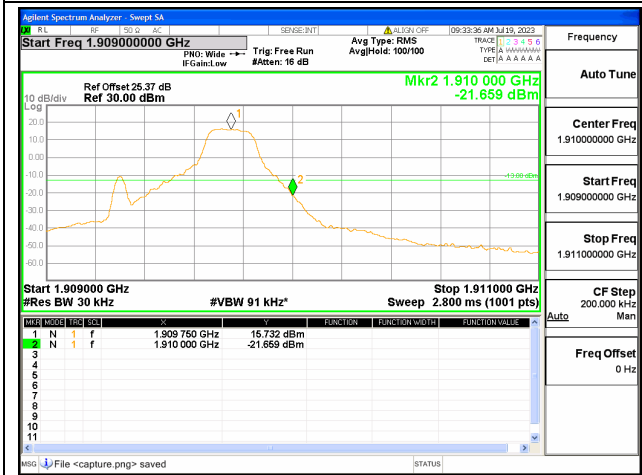
2.6.4. Test Result



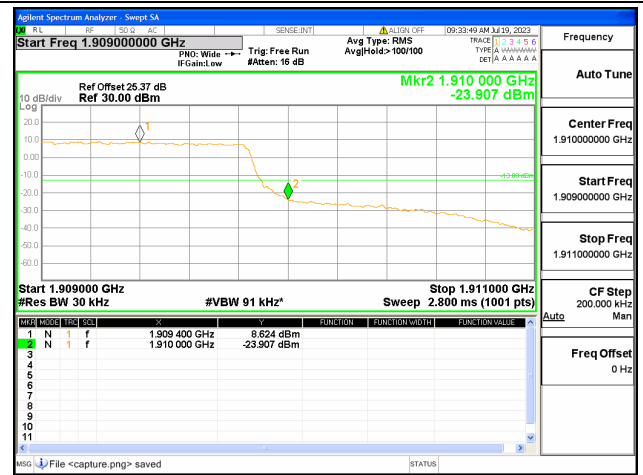
B2 / 1.4MHz / Low CH / QPSK / 1 RB



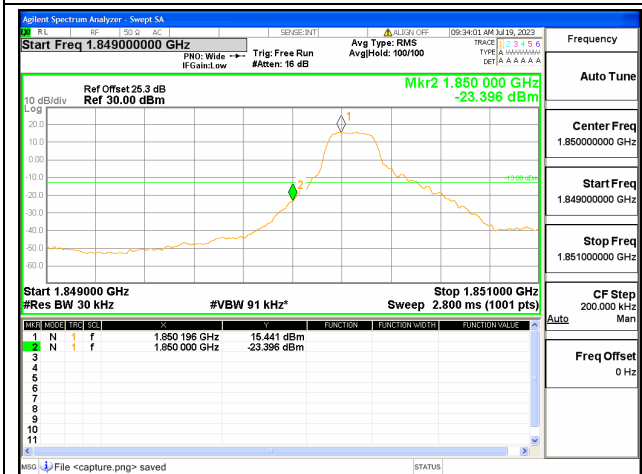
B2 / 1.4MHz / Low CH / QPSK / FULL RB



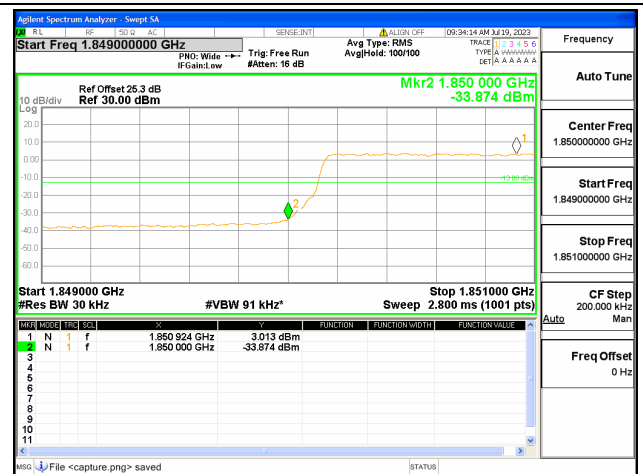
B2 / 1.4MHz / High CH / QPSK / 1 RB



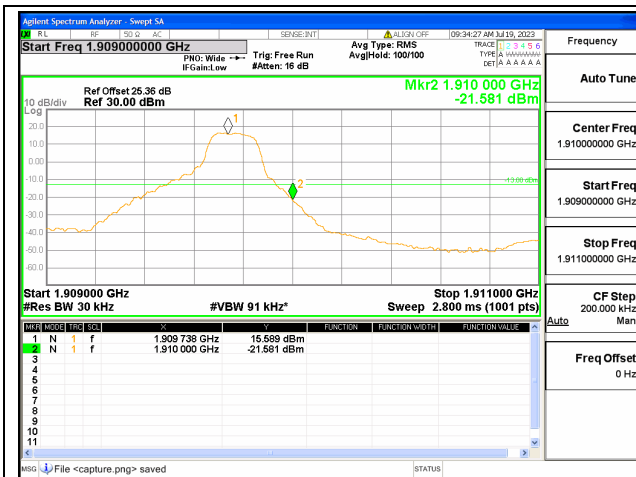
B2 / 1.4MHz / High CH / QPSK / FULL RB



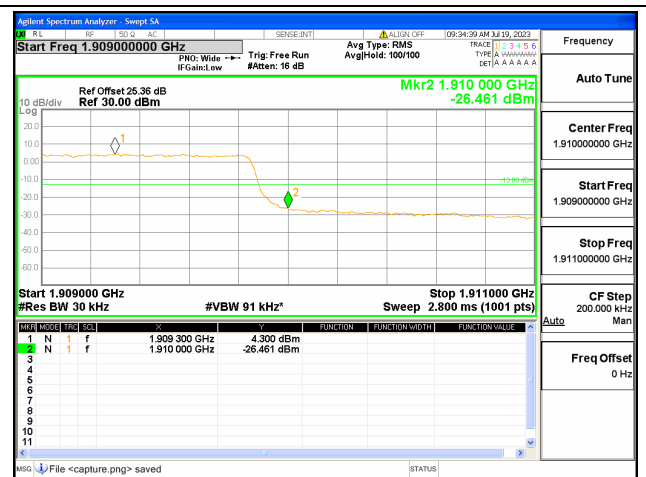
B2 / 3MHz / Low CH / QPSK / 1 RB



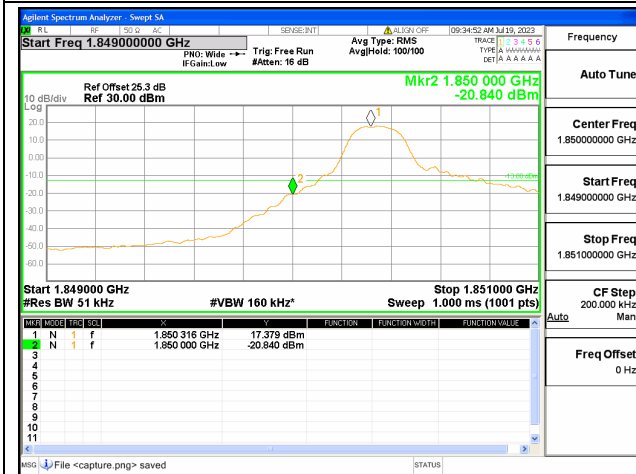
B2 / 3MHz / Low CH / QPSK / FULL RB



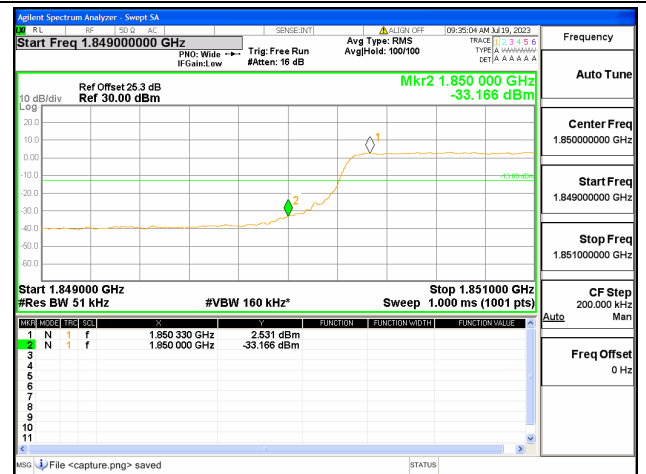
B2 / 3MHz / High CH / QPSK / 1 RB



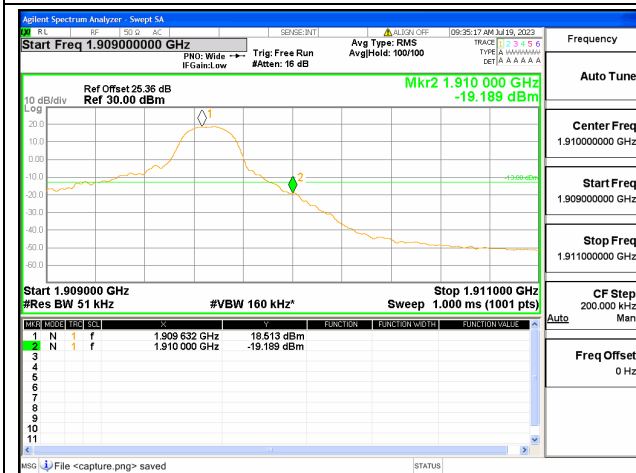
B2 / 3MHz / High CH / QPSK / FULL RB



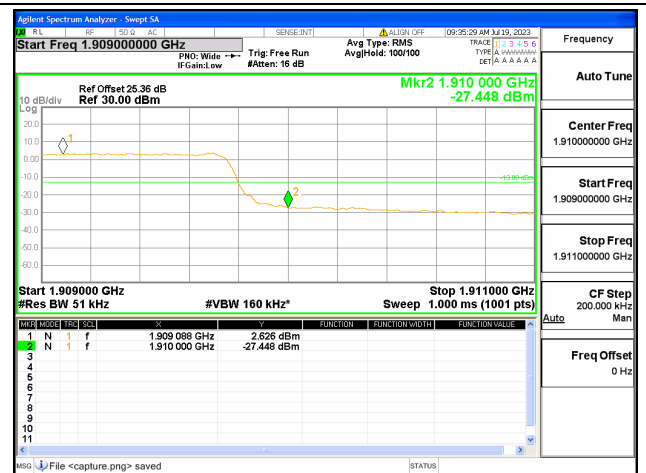
B2 / 5MHz / Low CH / QPSK / 1 RB



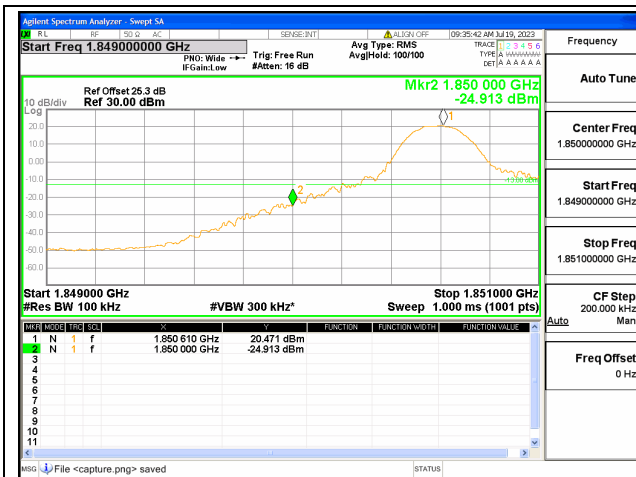
B2 / 5MHz / Low CH / QPSK / FULL RB



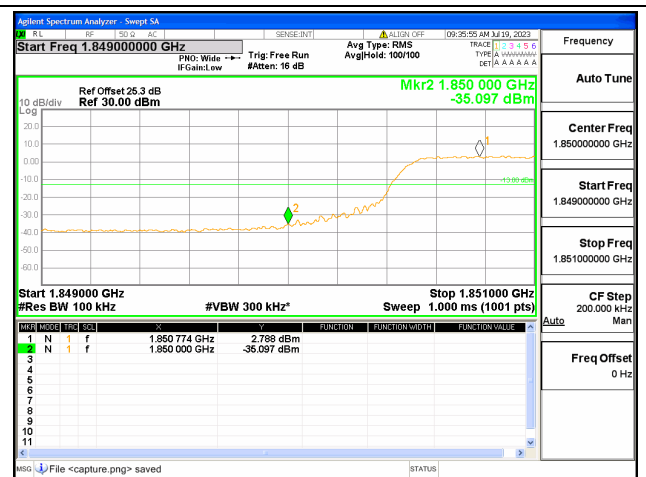
B2 / 5MHz / High CH / QPSK / 1 RB



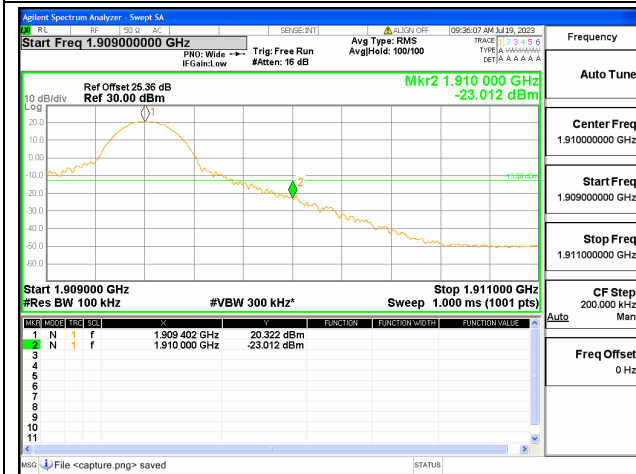
B2 / 5MHz / High CH / QPSK / FULL RB



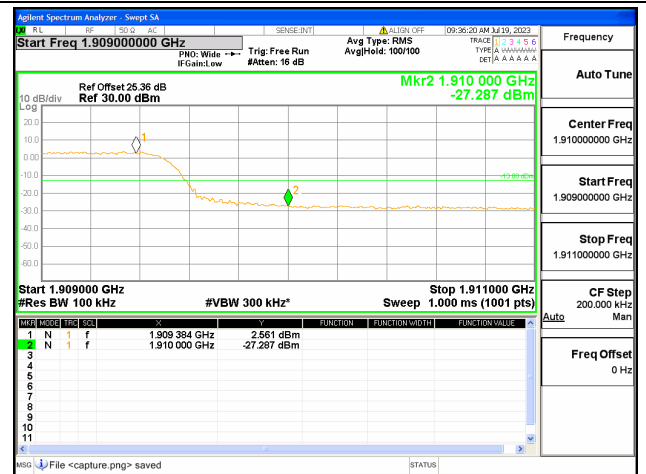
B2 / 10MHz / Low CH / QPSK / 1 RB



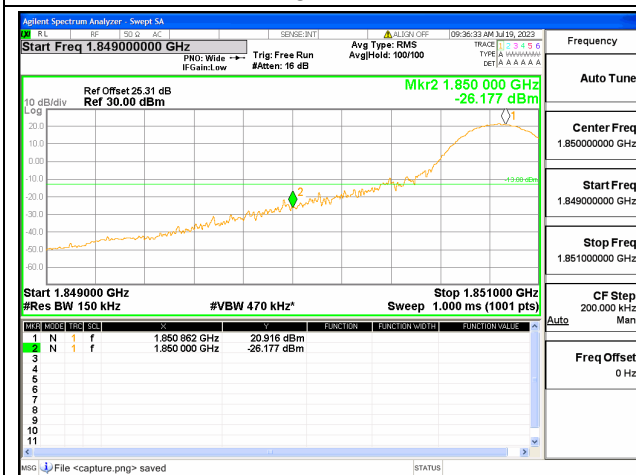
B2 / 10MHz / Low CH / QPSK / FULL RB



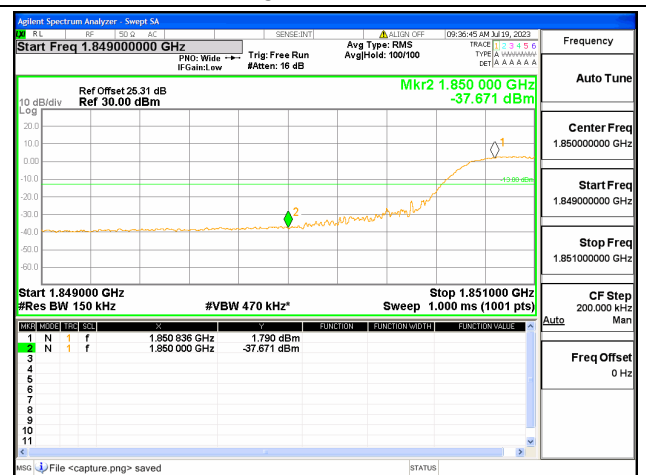
B2 / 10MHz / High CH / QPSK / 1 RB



B2 / 10MHz / High CH / QPSK / FULL RB



B2 / 15MHz / Low CH / QPSK / 1 RB



B2 / 15MHz / Low CH / QPSK / FULL RB

