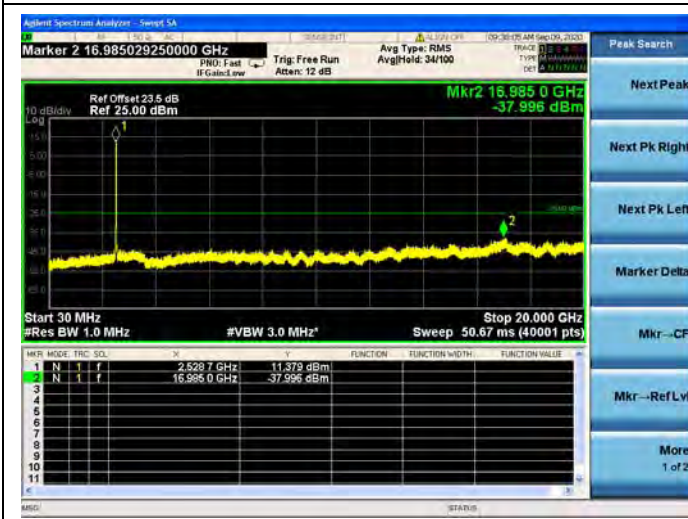
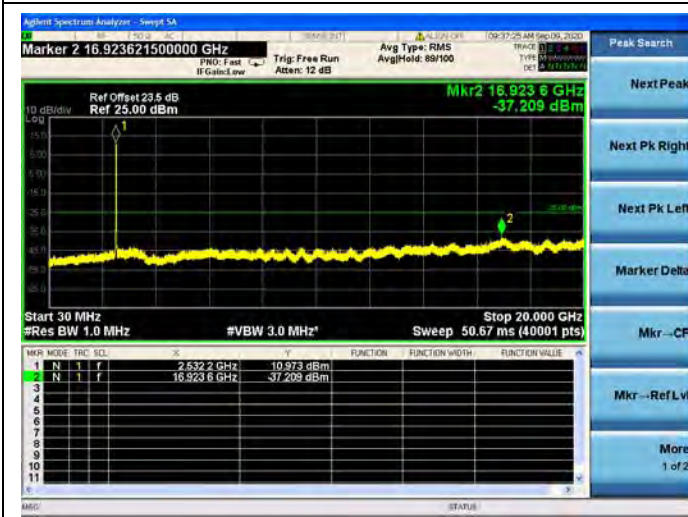




Band 7 / 15MHz / Mid CH / QPSK

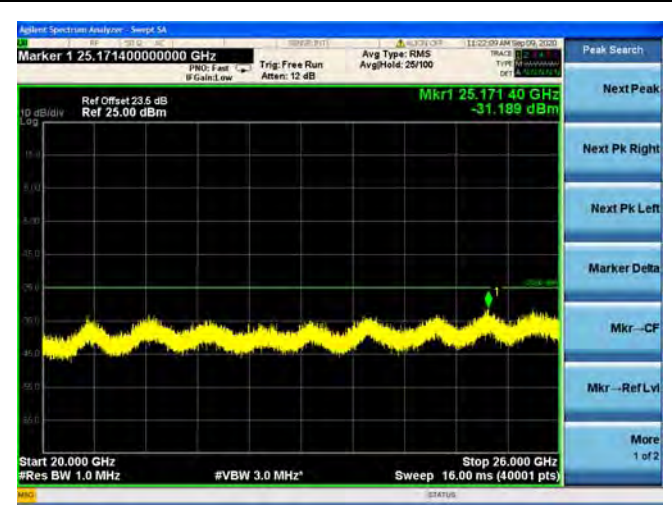
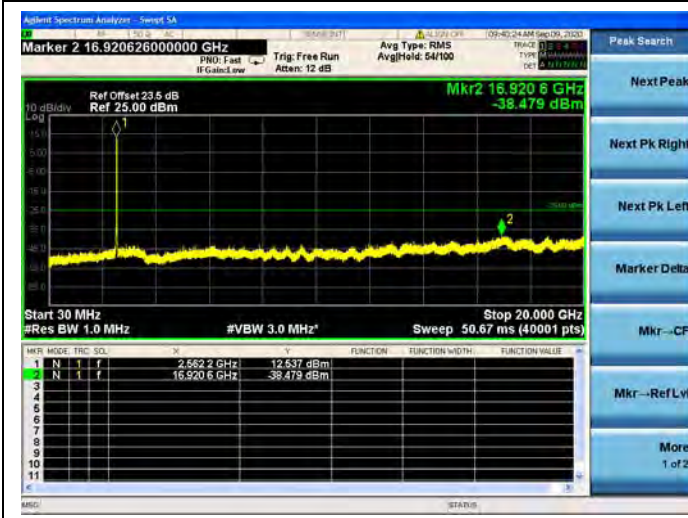


Band 7 / 15MHz / Mid CH / 16QAM

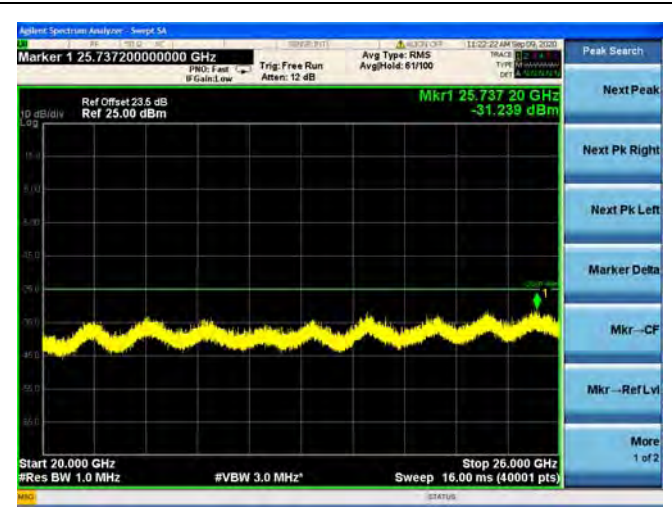
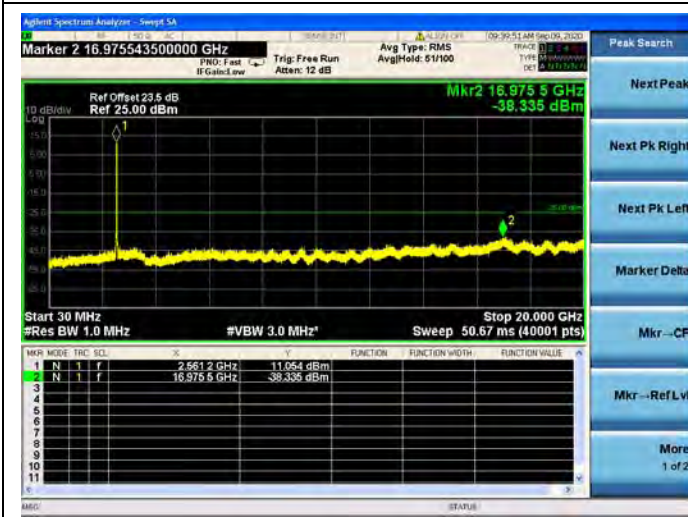




Band 7 / 15MHz / High CH / QPSK

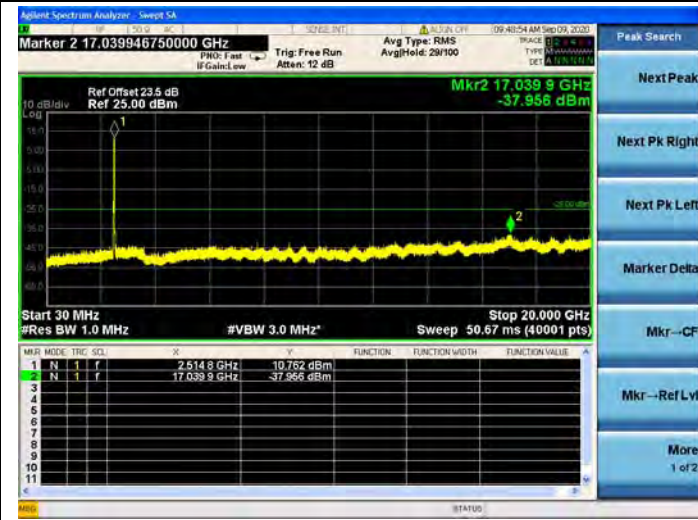


Band 7 / 15MHz / High CH / 16QAM

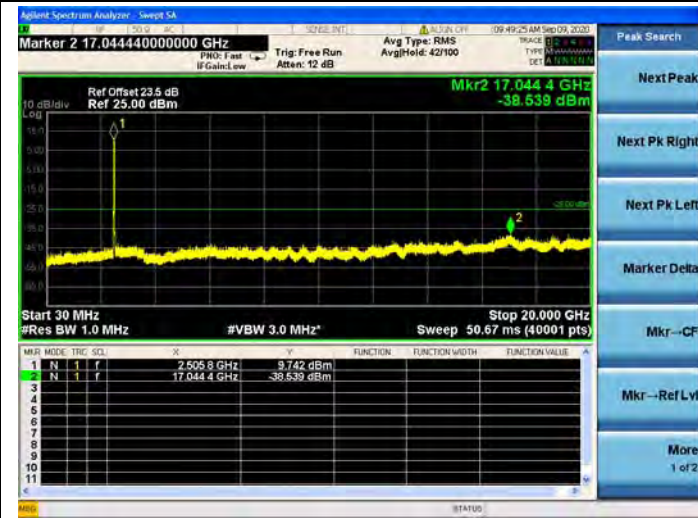




Band 7 / 20MHz / Low CH / QPSK

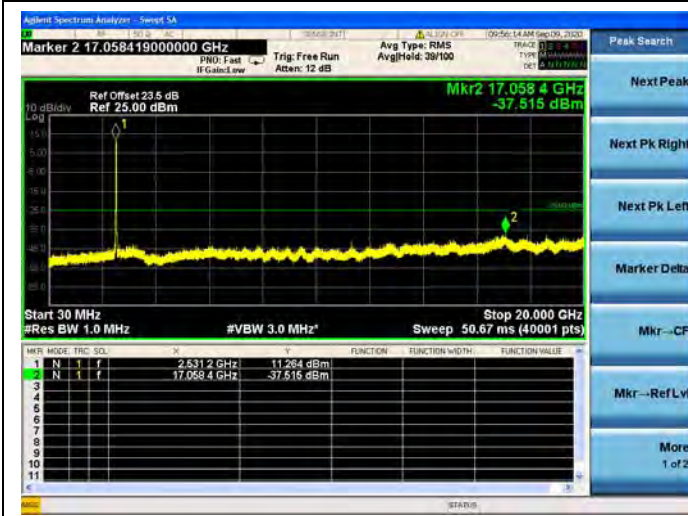


Band 7 / 20MHz / Low CH / 16QAM

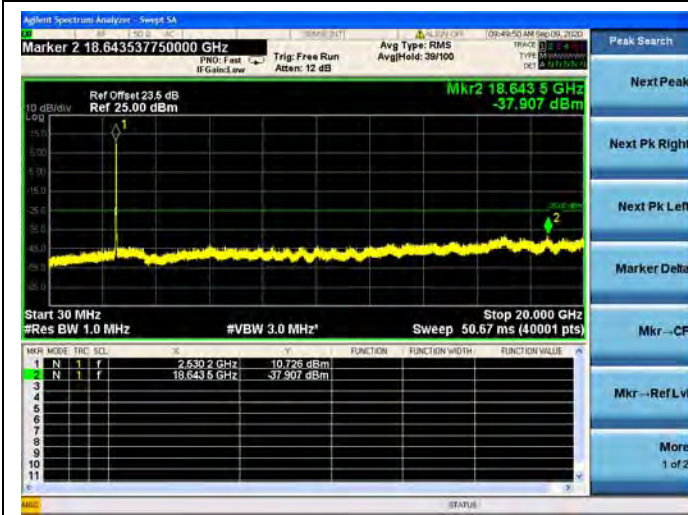




Band 7 / 20MHz / Mid CH / QPSK

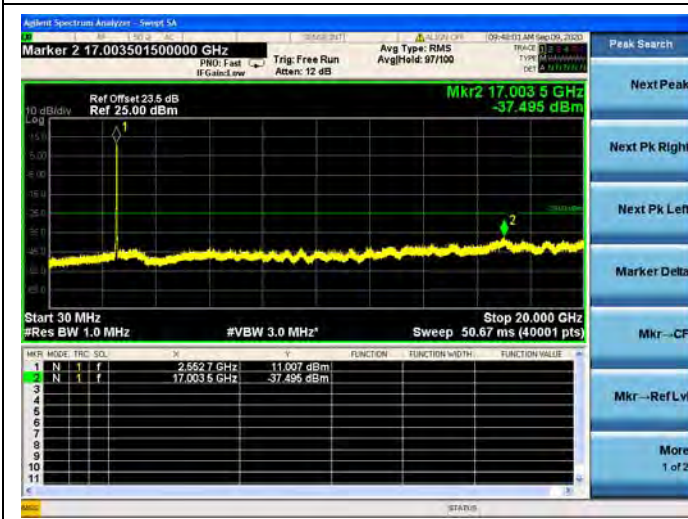


Band 7 / 20MHz / Mid CH / 16QAM

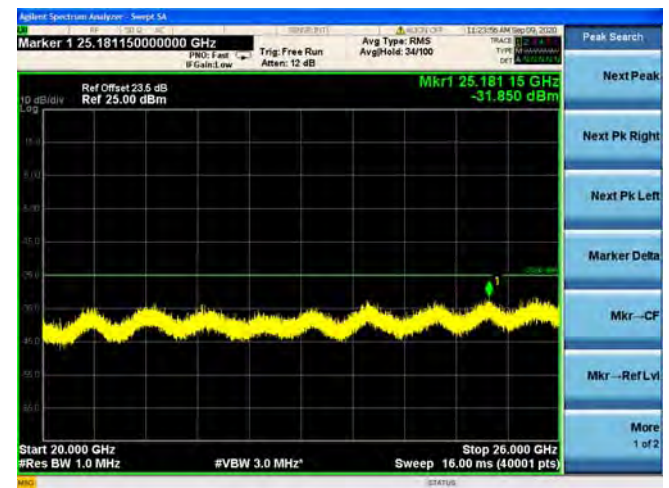
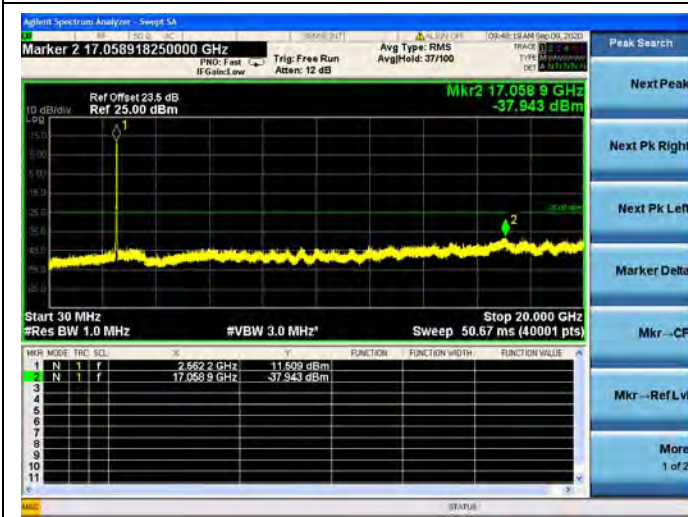




Band 7 / 20MHz / High CH / QPSK

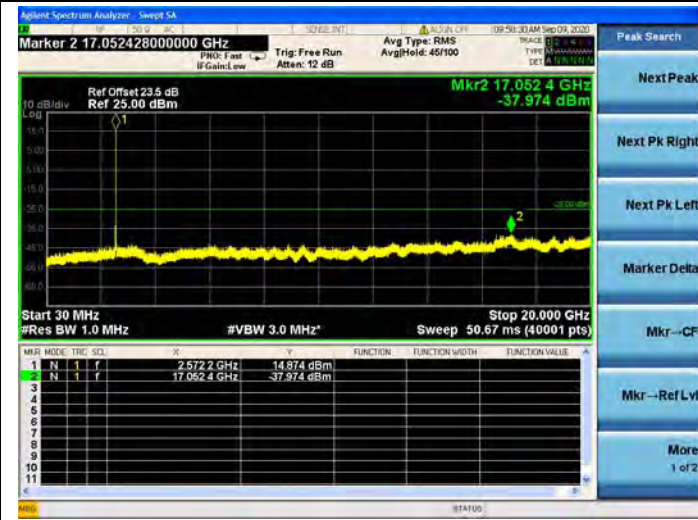


Band 7 / 20MHz / High CH / 16QAM

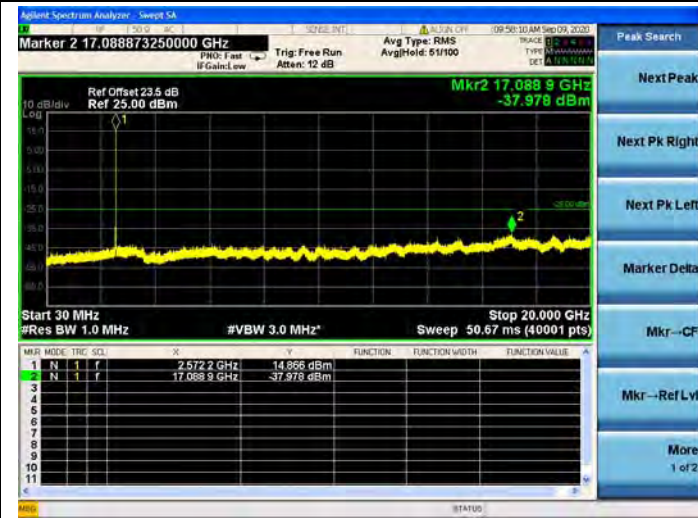




Band 38 / 5MHz / Low CH / QPSK

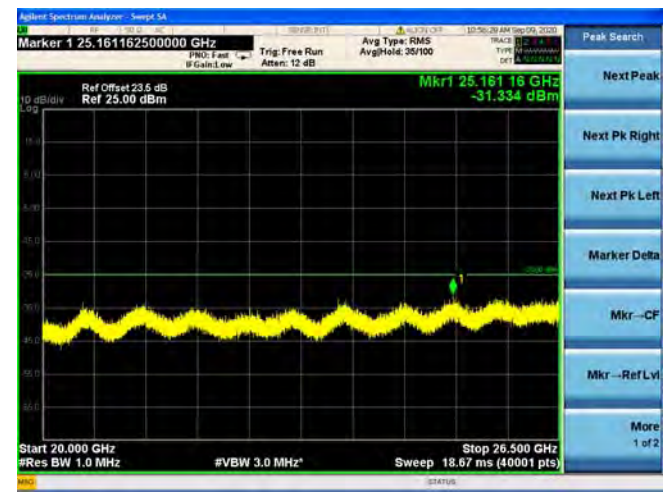
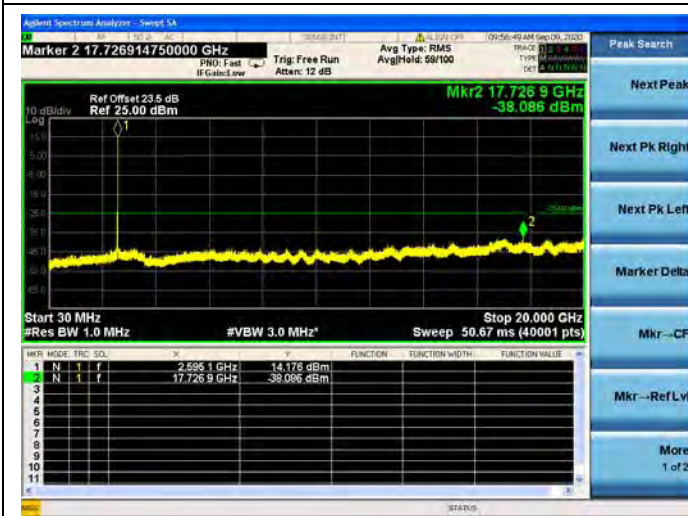


Band 38 / 5MHz / Low CH / 16QAM

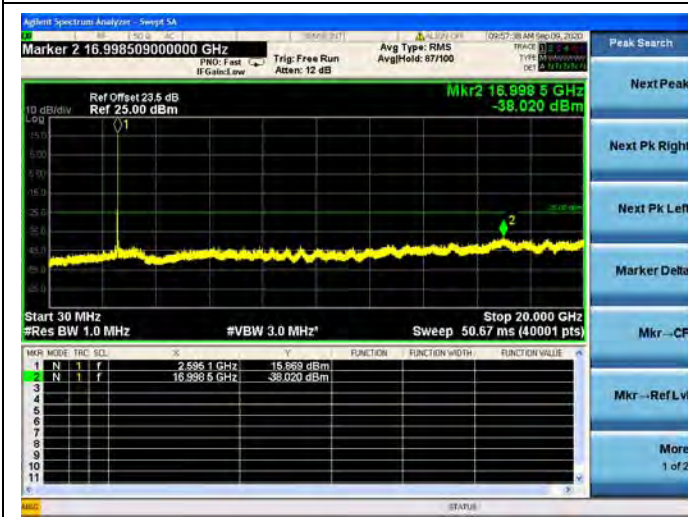




Band 38 / 5MHz / Mid CH / QPSK

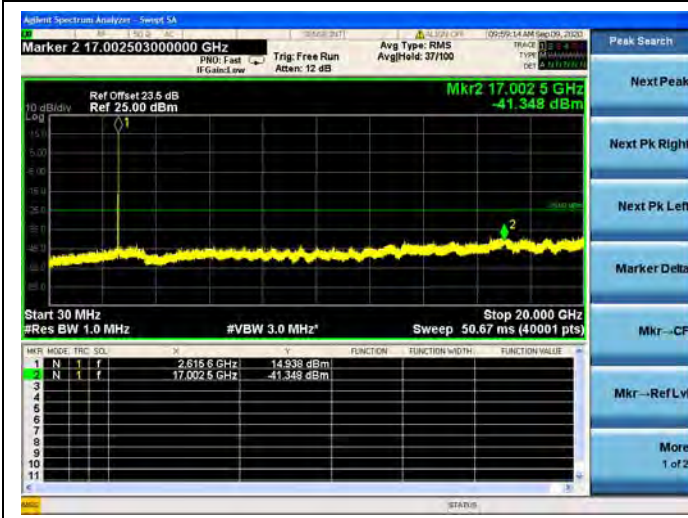


Band 38 / 5MHz / Mid CH / 16QAM

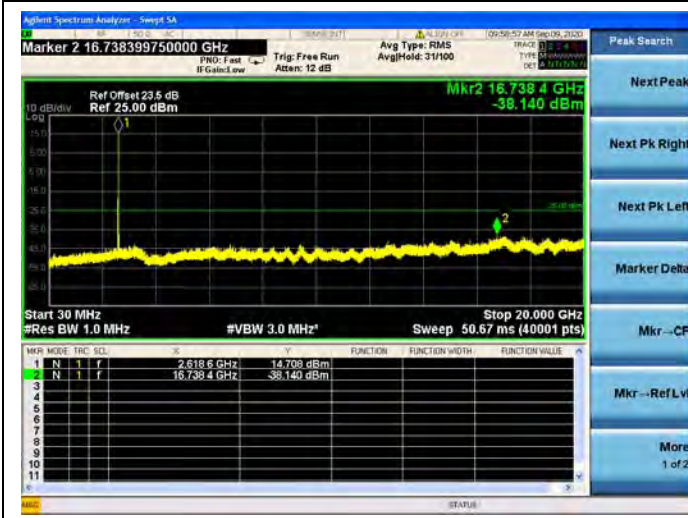




Band 38 / 5MHz / High CH / QPSK



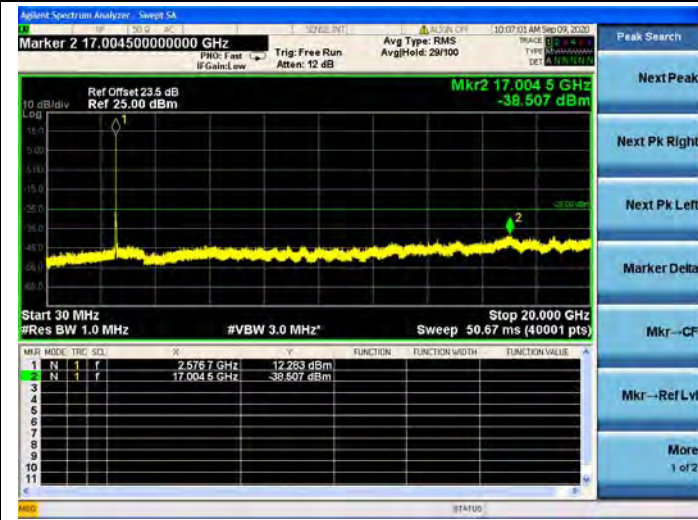
Band 38 / 5MHz / High CH / 16QAM



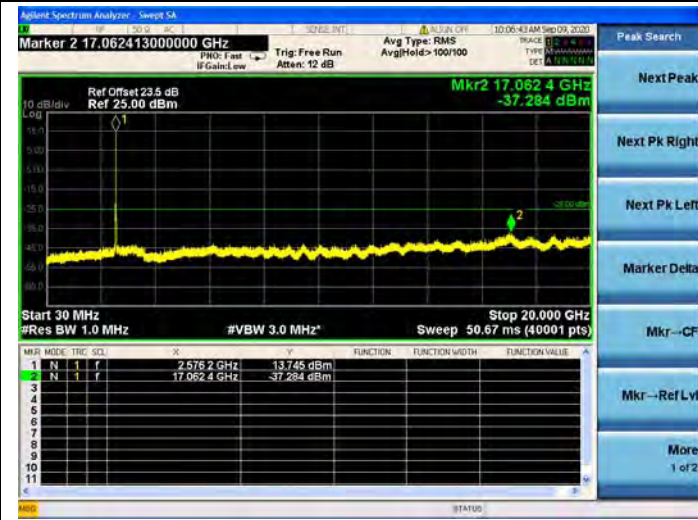




Band 38 / 10MHz / Low CH / QPSK

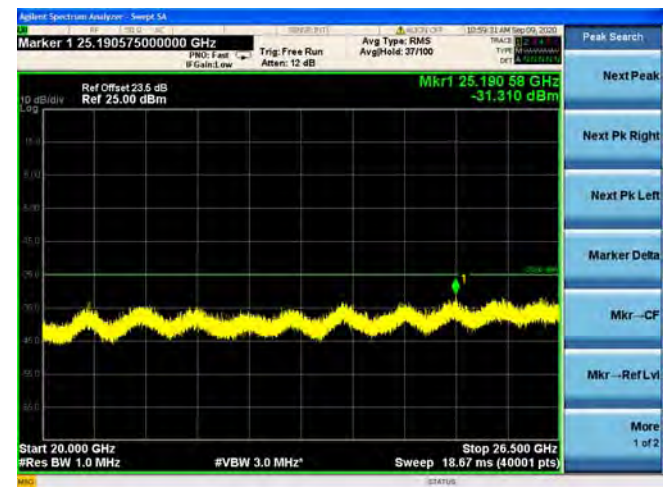
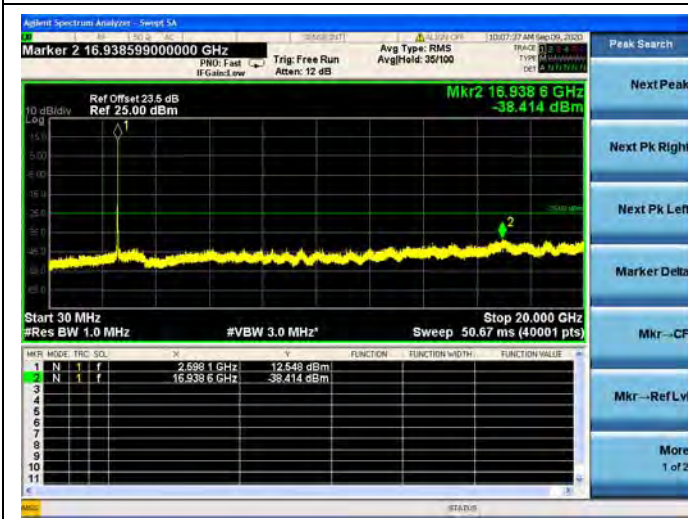


Band 38 / 10MHz / Low CH / 16QAM

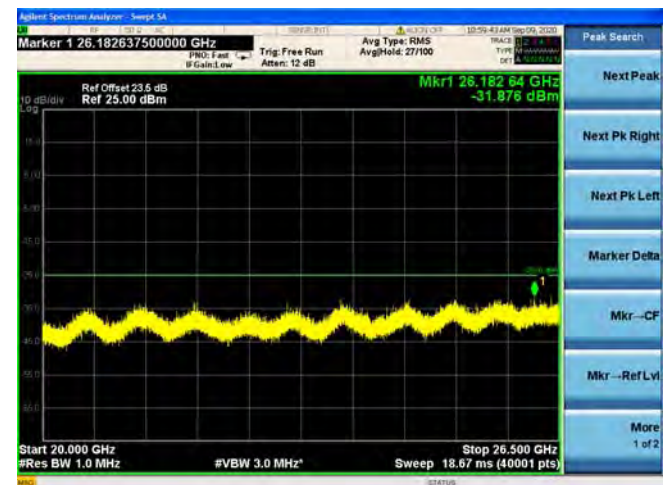
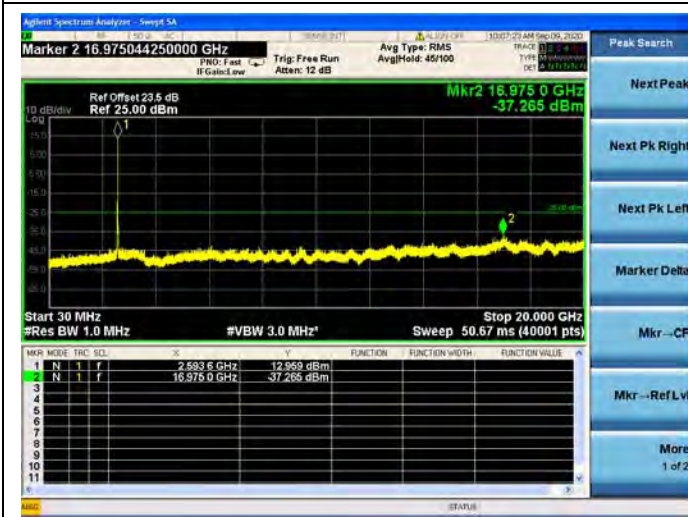




Band 38 / 10MHz / Mid CH / QPSK

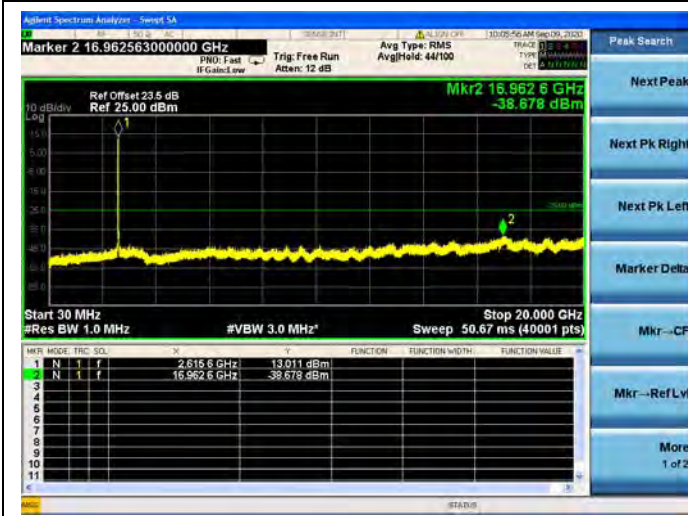


Band 38 / 10MHz / Mid CH / 16QAM

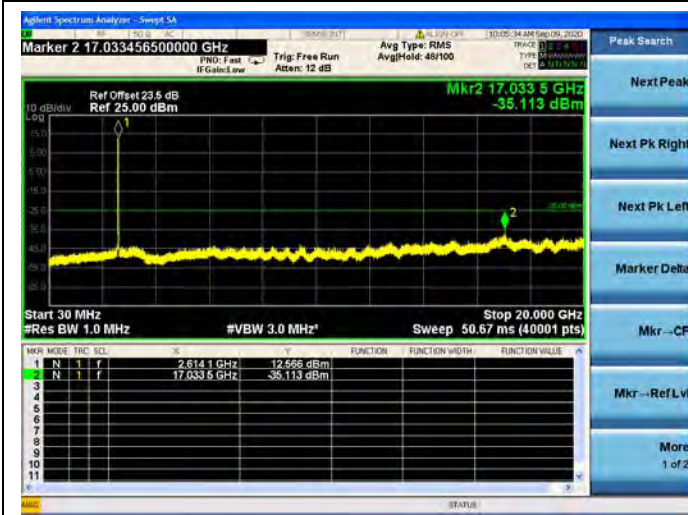




Band 38 / 10MHz / High CH / QPSK

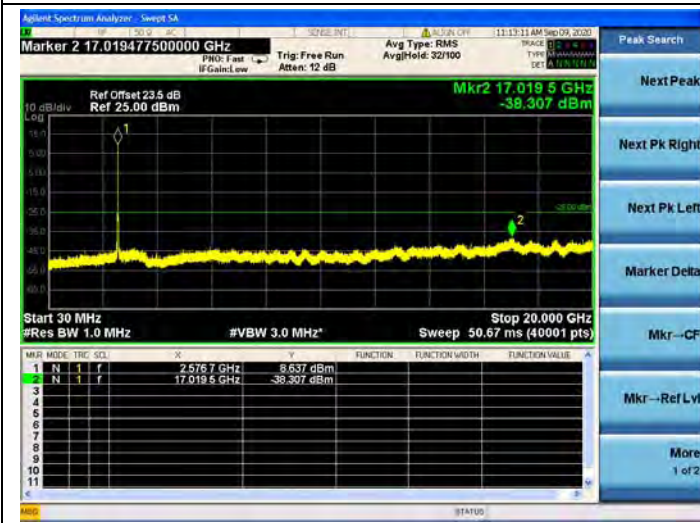


Band 38 / 10MHz / High CH / 16QAM

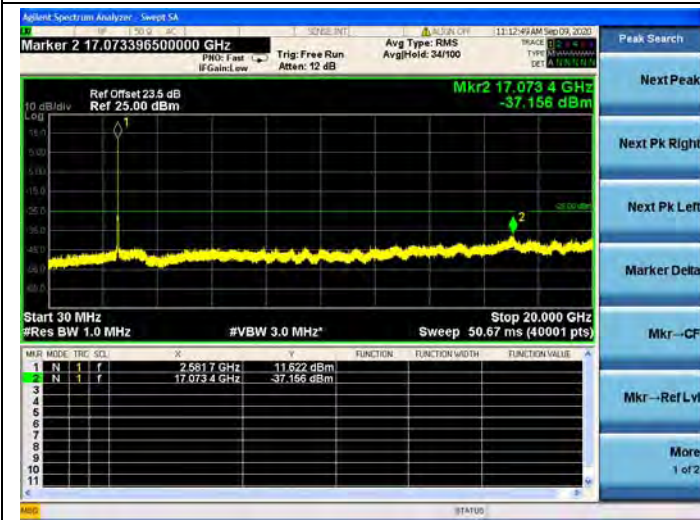




Band 38 / 15MHz / Low CH / QPSK

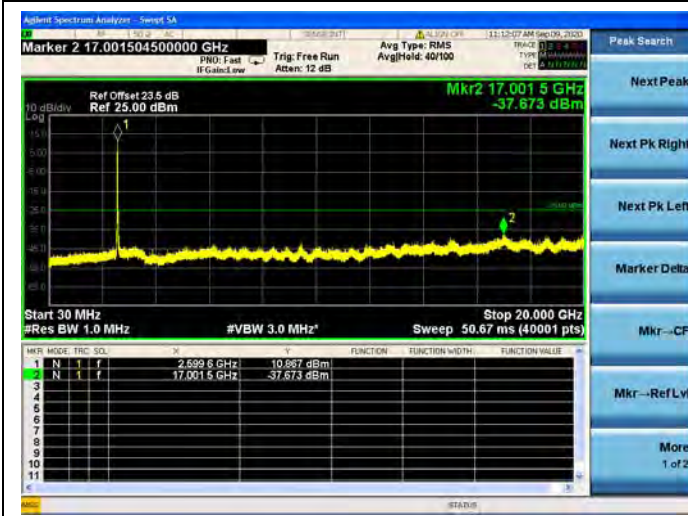


Band 38 / 15MHz / Low CH / 16QAM

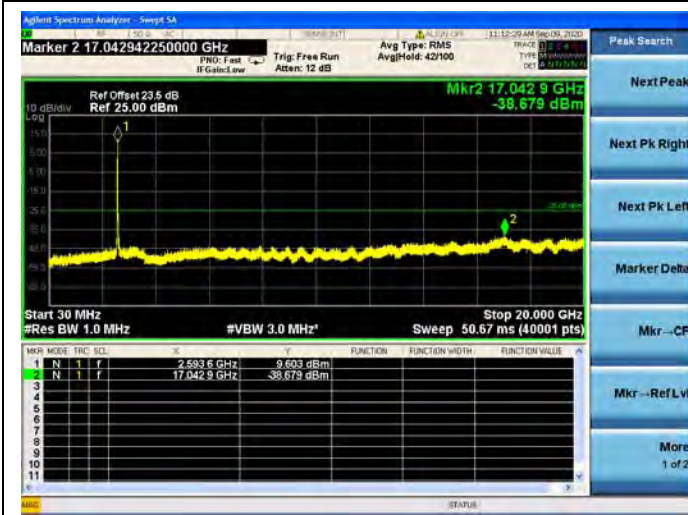




Band 38 / 15MHz / Mid CH / QPSK

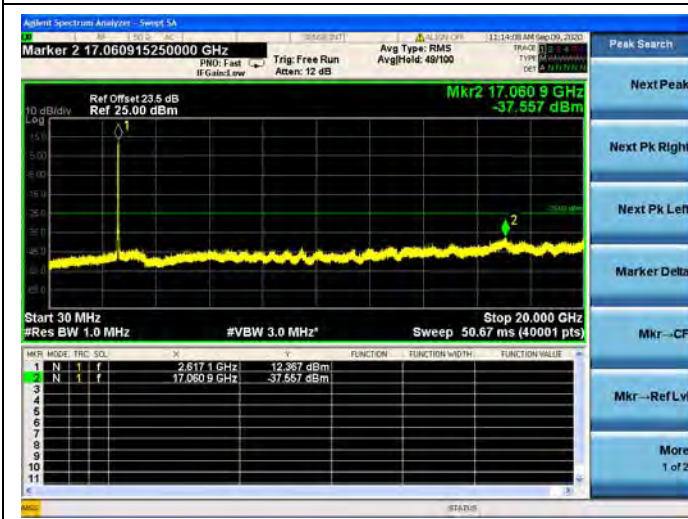


Band 38 / 15MHz / Mid CH / 16QAM

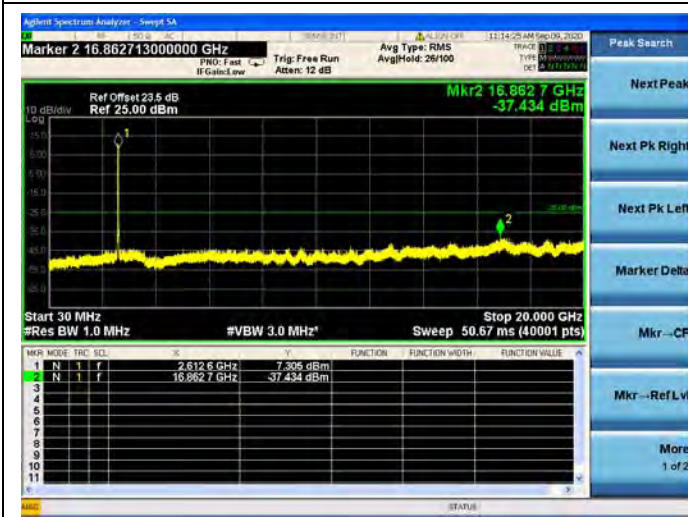




Band 38 / 15MHz / High CH / QPSK

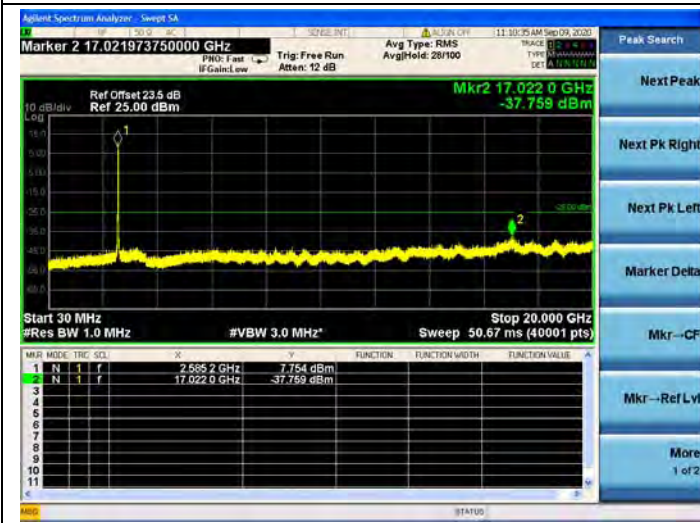


Band 38 / 15MHz / High CH / 16QAM

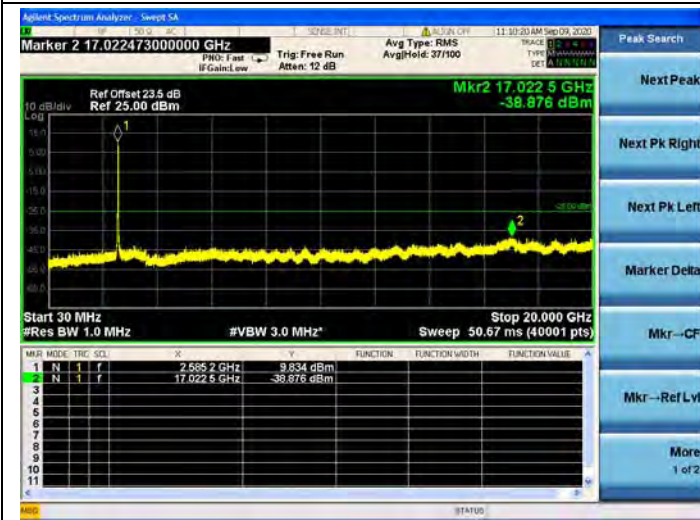




Band 38 / 20MHz / Low CH / QPSK

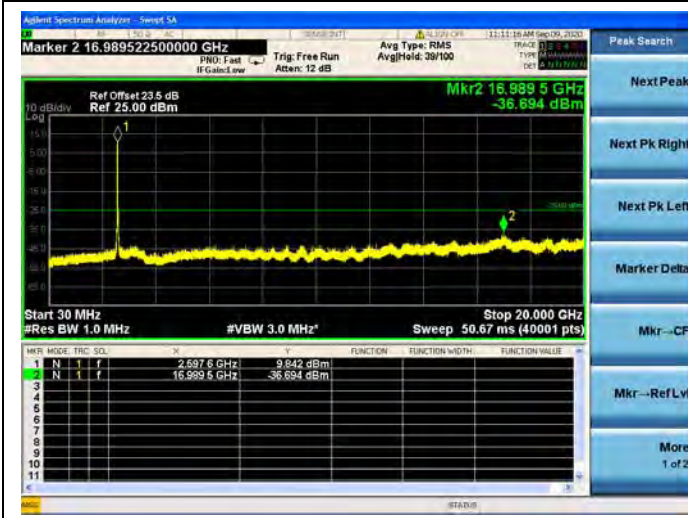


Band 38 / 20MHz / Low CH / 16QAM

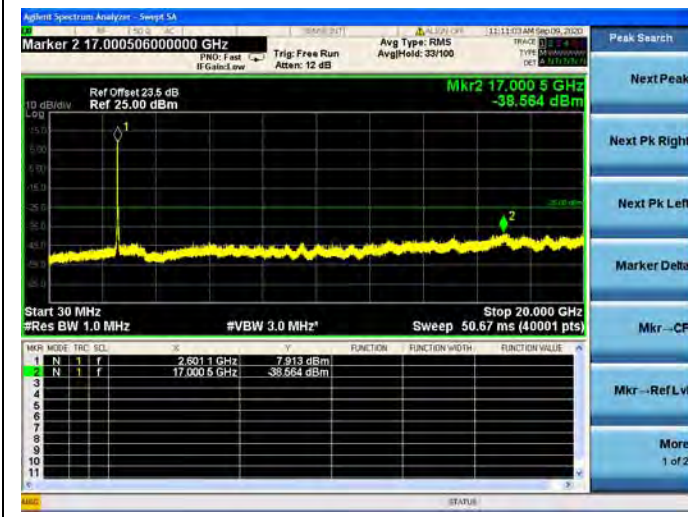




Band 38 / 20MHz / Mid CH / QPSK



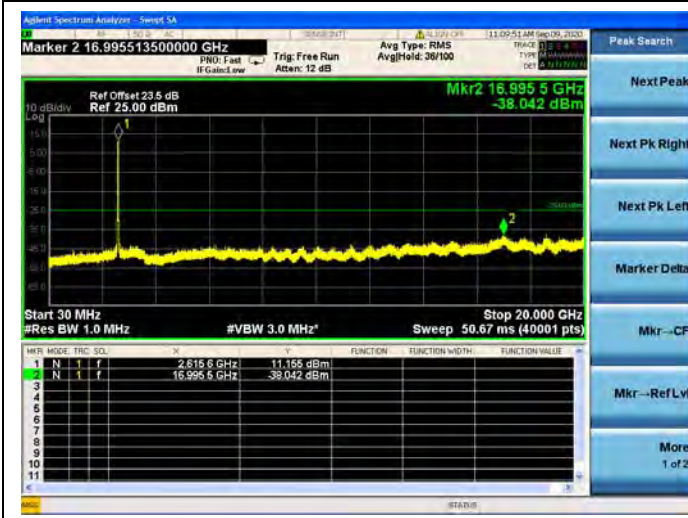
Band 38 / 20MHz / Mid CH / 16QAM



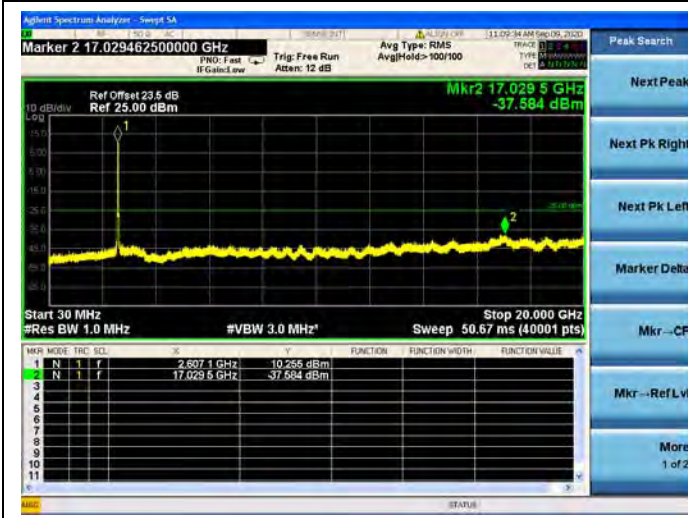




Band 38 / 20MHz / High CH / QPSK

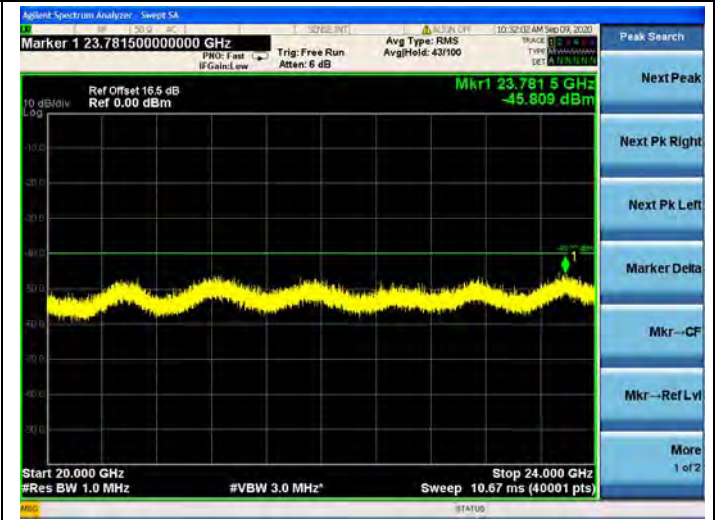
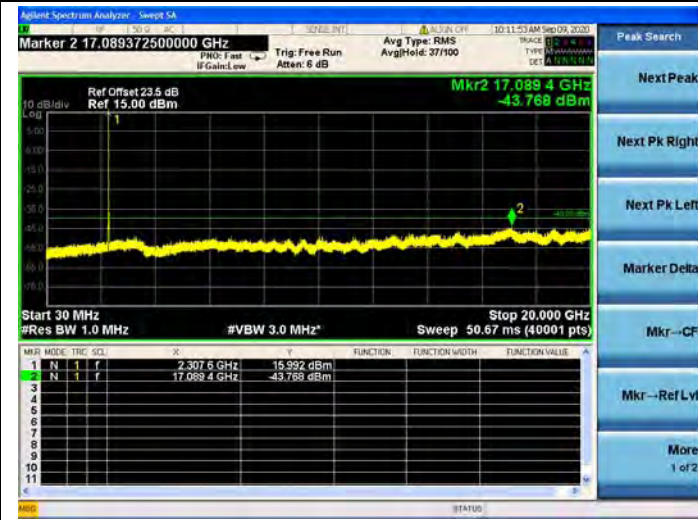


Band 38 / 20MHz / High CH / 16QAM

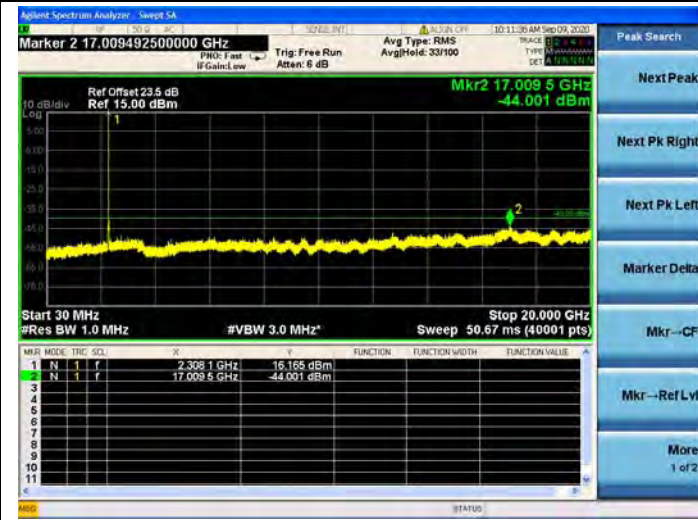




Band 40 / Block A / 5MHz / Low CH / QPSK

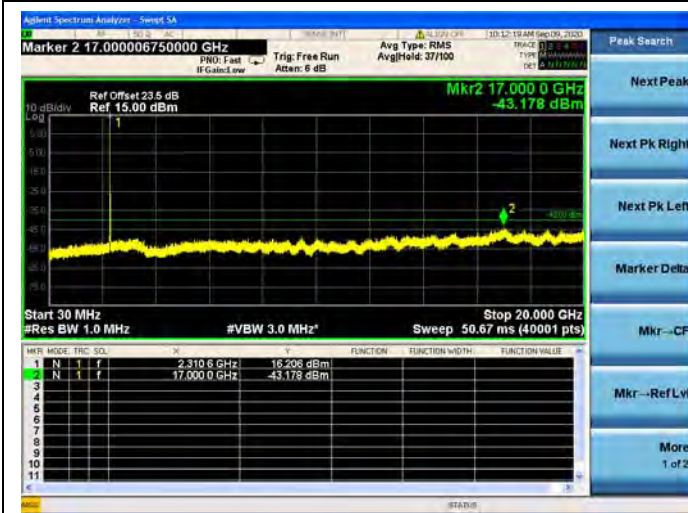


Band 40 / Block A / 5MHz / Low CH / 16QAM

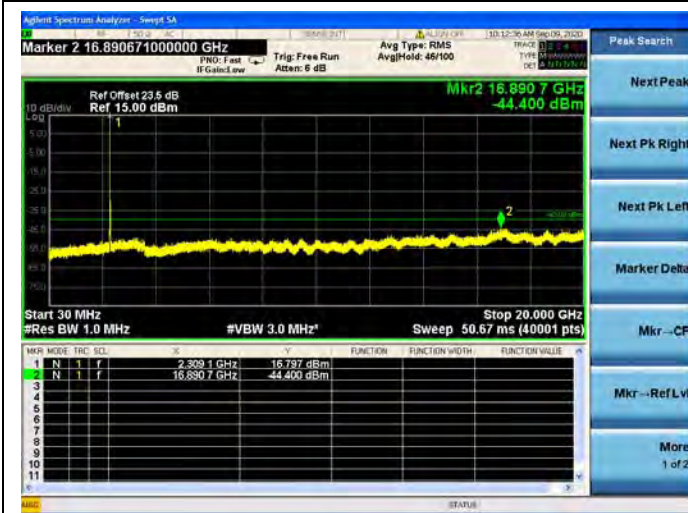




Band 40 / Block A / 5MHz / Mid CH / QPSK

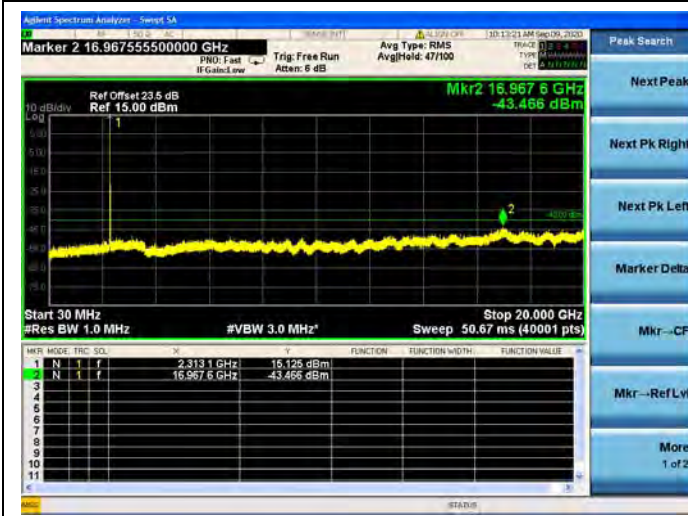


Band 40 / Block A / 5MHz / Mid CH / 16QAM

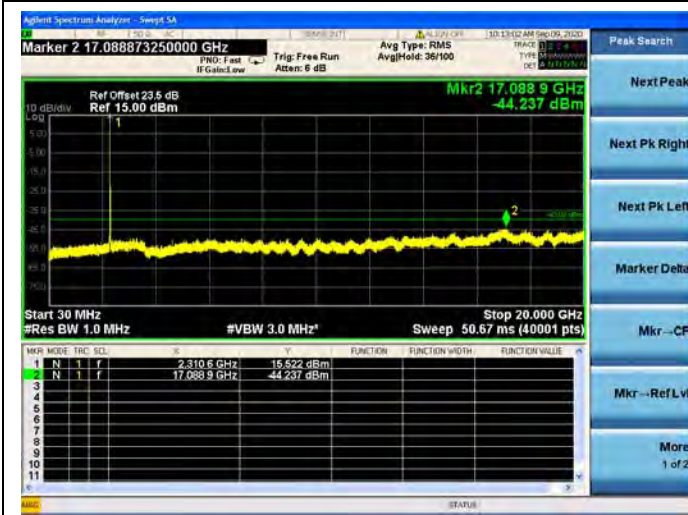




Band 40 / Block A / 5MHz / High CH / QPSK

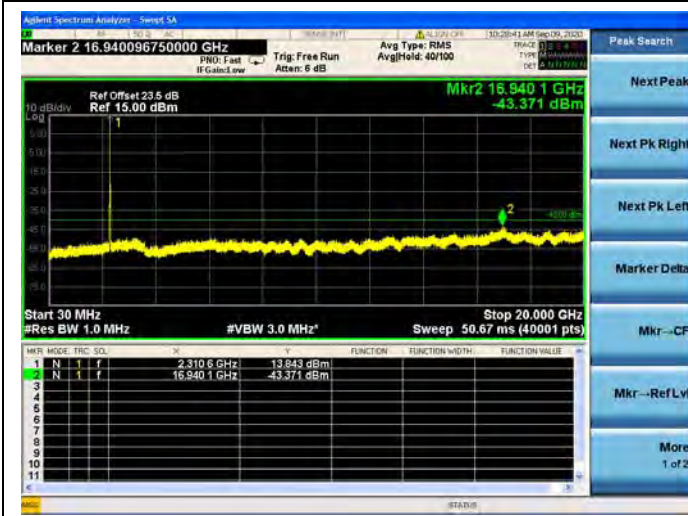


Band 40 / Block A / 5MHz / High CH / 16QAM

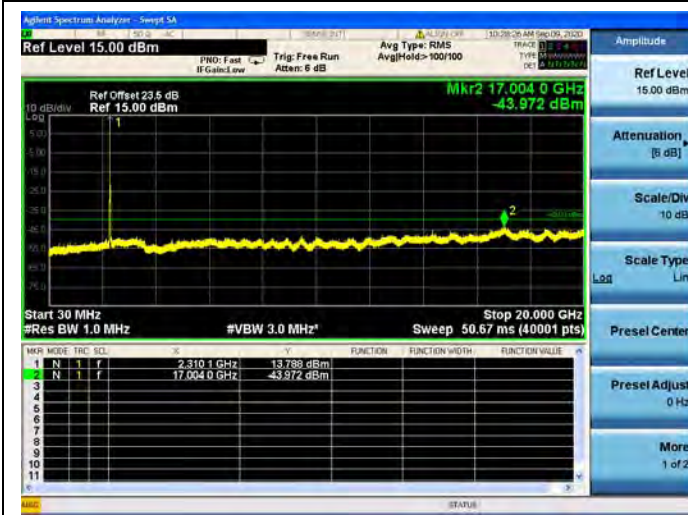




Band 40 / Block A / 10MHz / Mid CH / QPSK

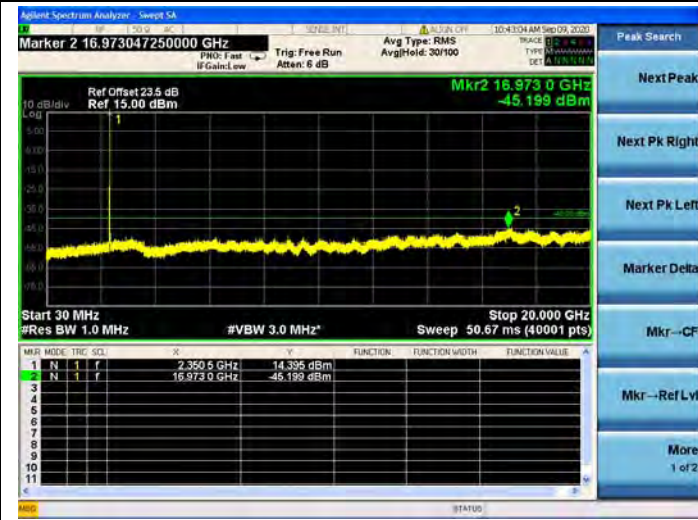


Band 40 / Block A / 10MHz / Mid CH / 16QAM

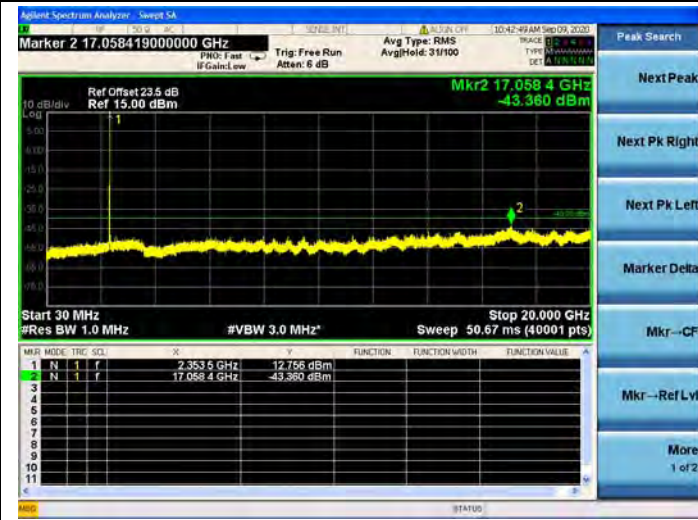




Band 40 / Block B / 5MHz / Low CH / QPSK

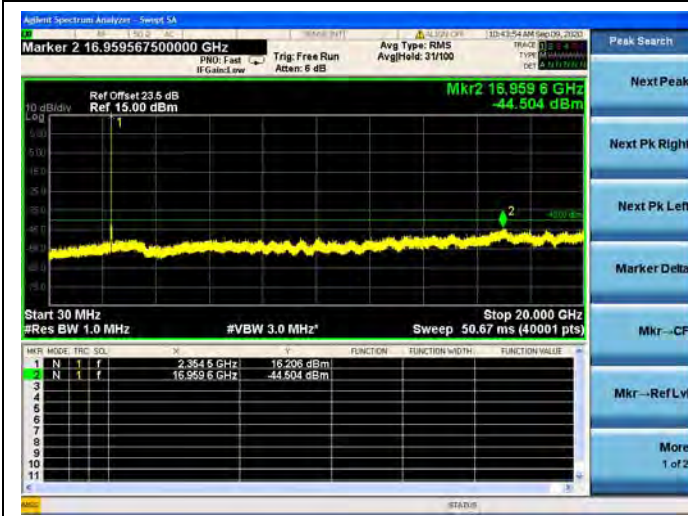


Band 40 / Block B / 5MHz / Low CH / 16QAM

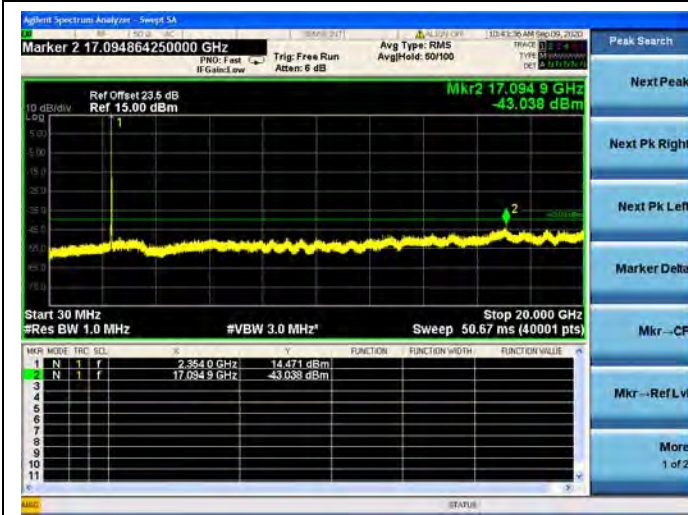




Band 40 / Block B / 5MHz / Mid CH / QPSK

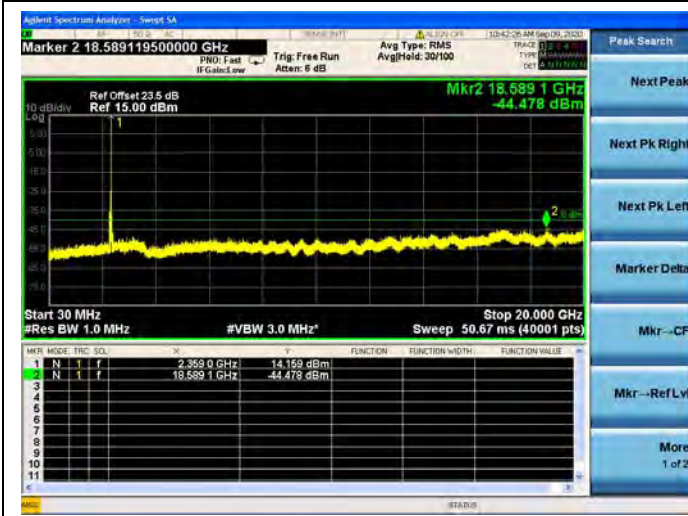


Band 40 / Block B / 5MHz / Mid CH / 16QAM

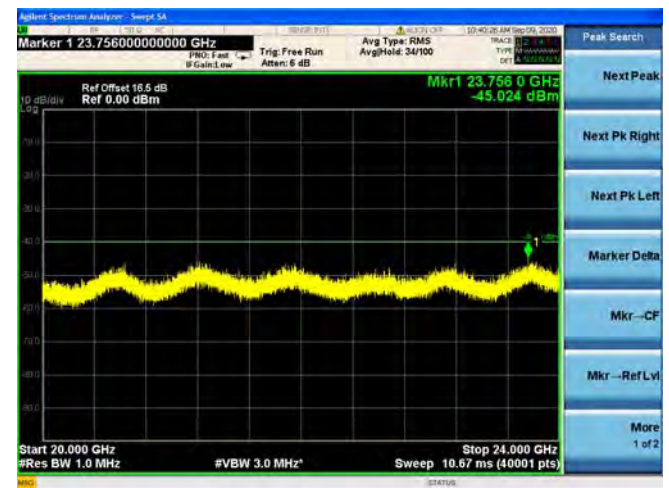
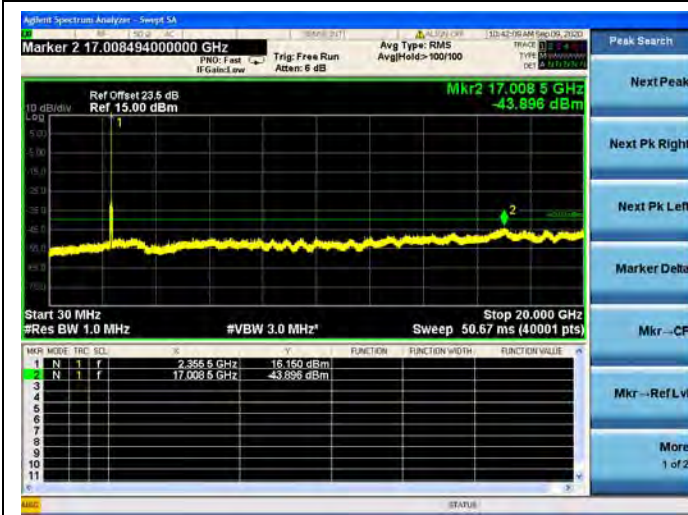




Band 40 / Block B / 5MHz / High CH / QPSK



Band 40 / Block B / 5MHz / High CH / 16QAM



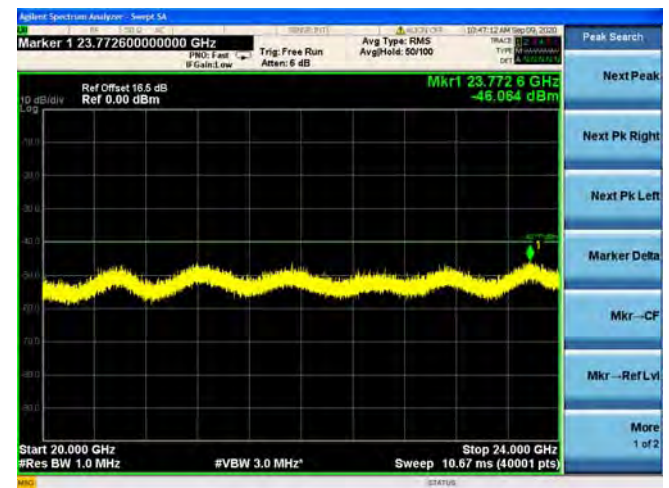
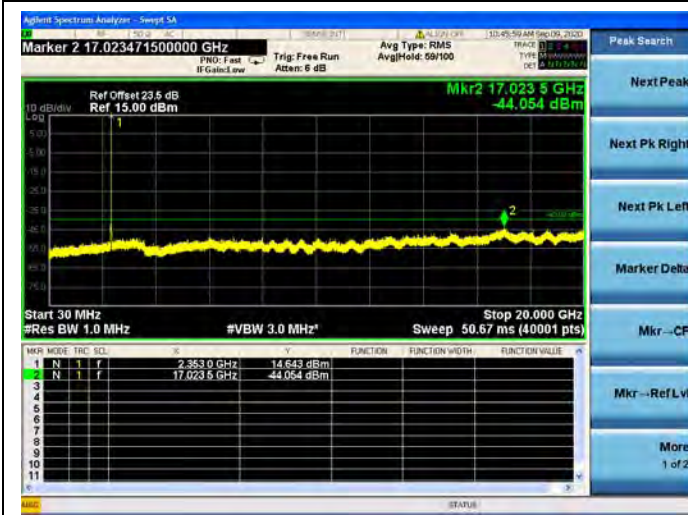




Band 40 / Block B / 10MHz / Mid CH / QPSK

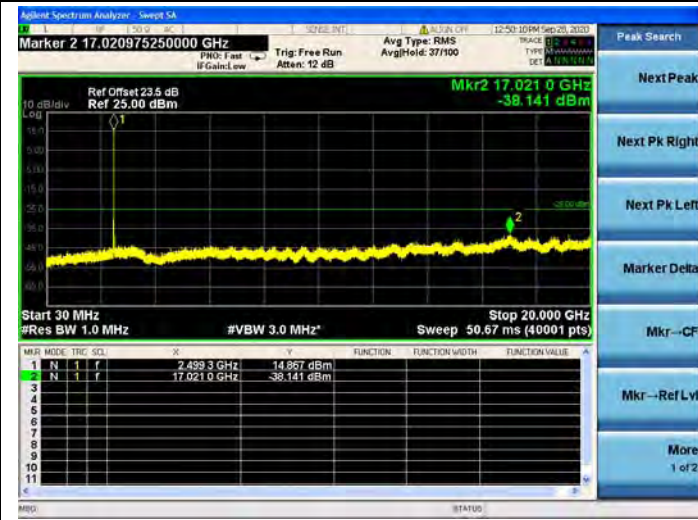


Band 40 / Block B / 10MHz / Mid CH / 16QAM

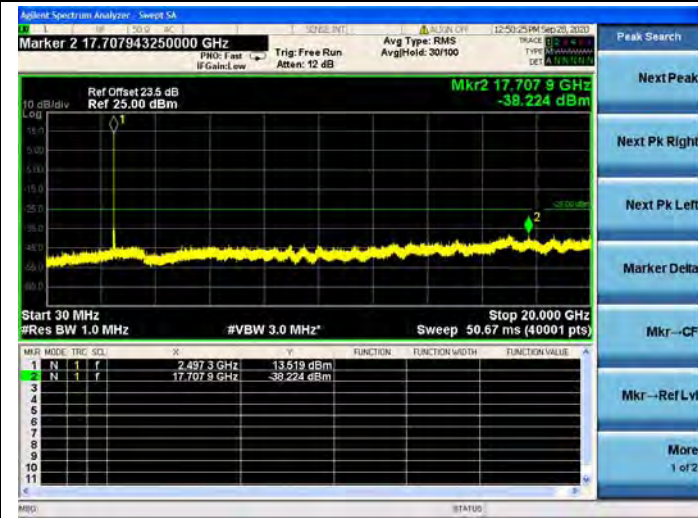




Band 41 / 5MHz / Low CH / QPSK

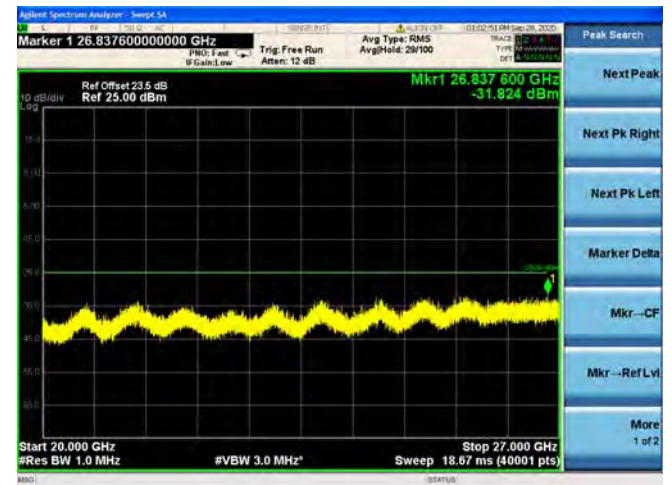
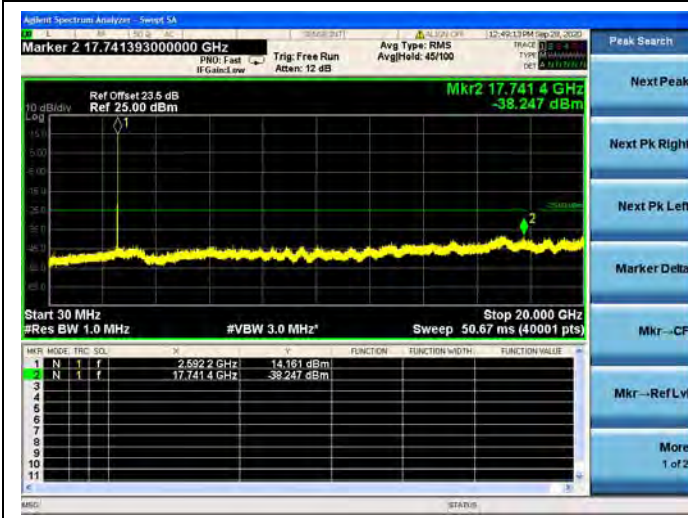


Band 41 / 5MHz / Low CH / 16QAM

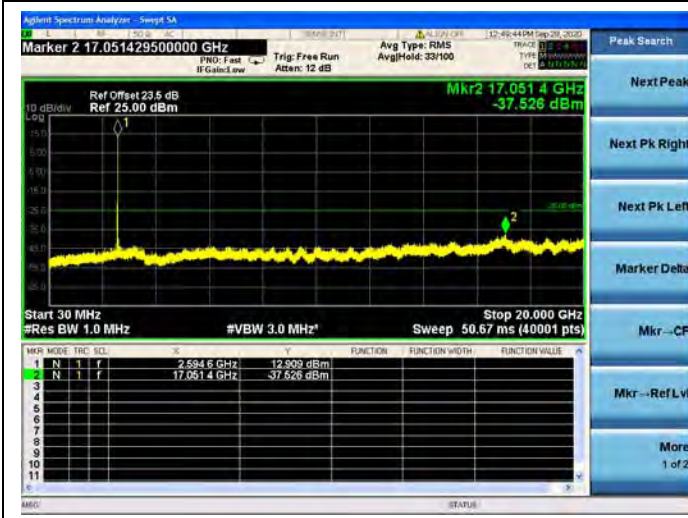




Band 41 / 5MHz / Mid CH / QPSK

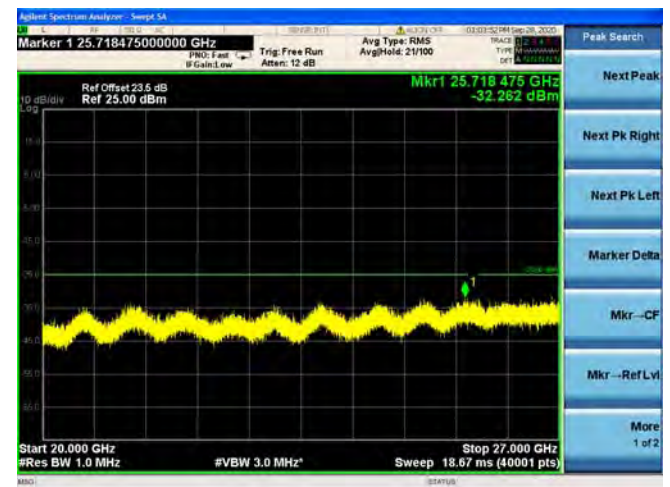
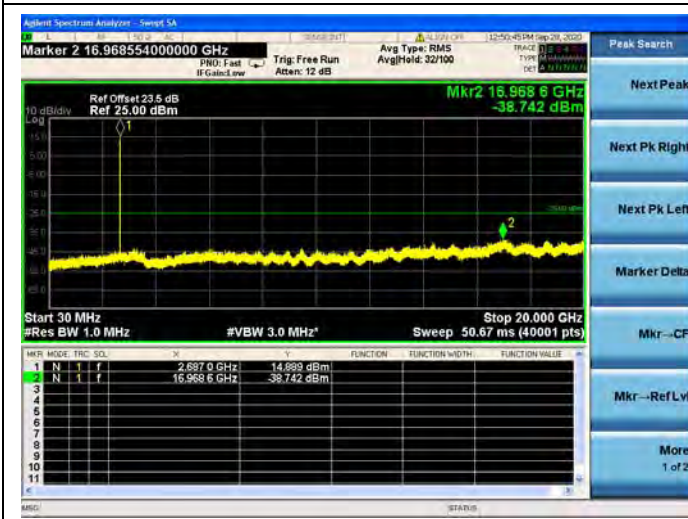


Band 41 / 5MHz / Mid CH / 16QAM





Band 41 / 5MHz / High CH / QPSK

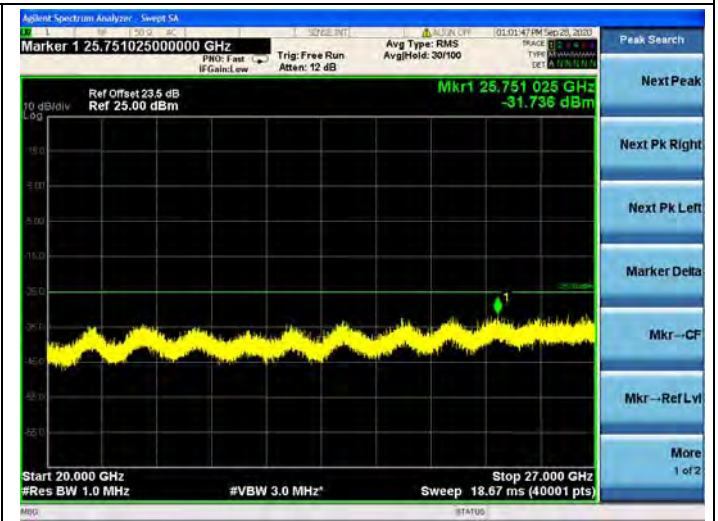
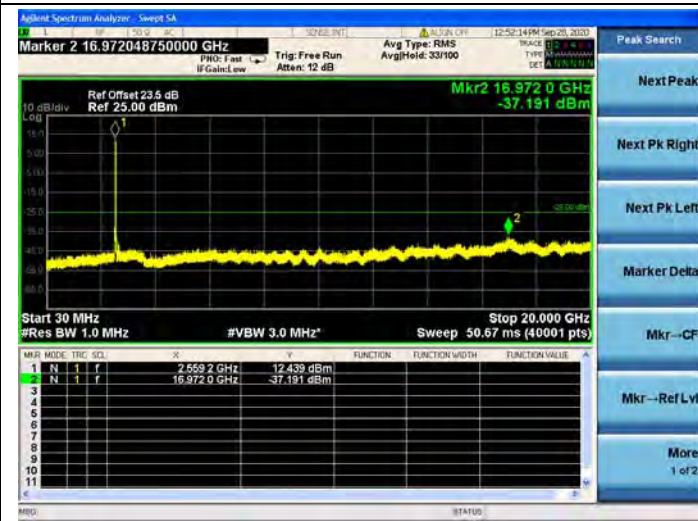


Band 41 / 5MHz / High CH / 16QAM

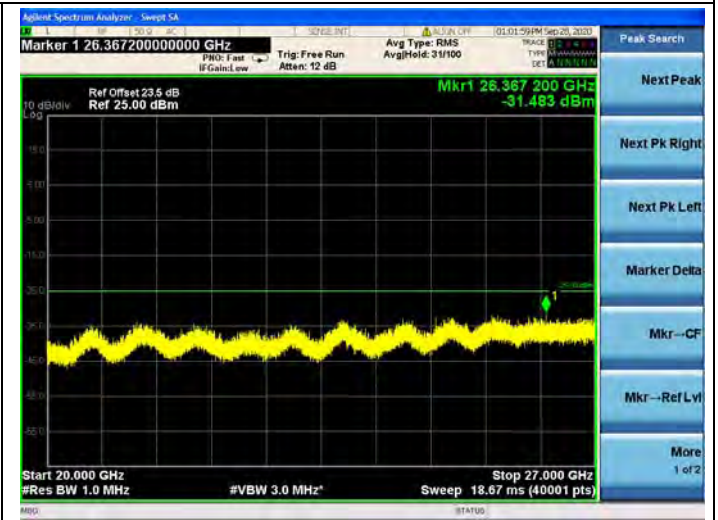
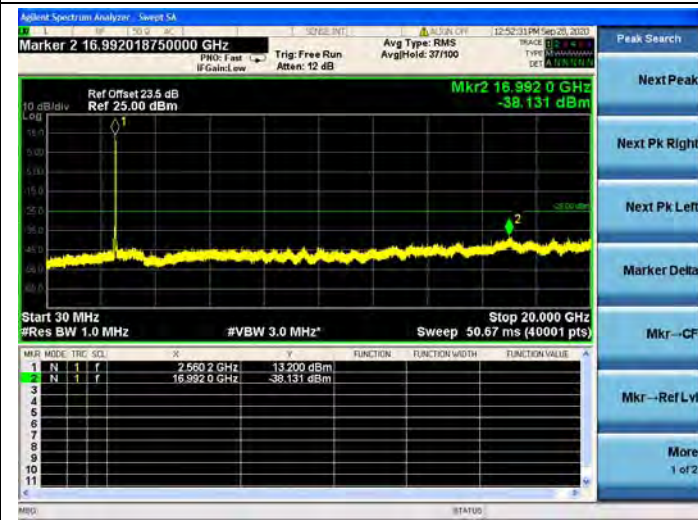




Band 41 / 10MHz / Low CH / QPSK

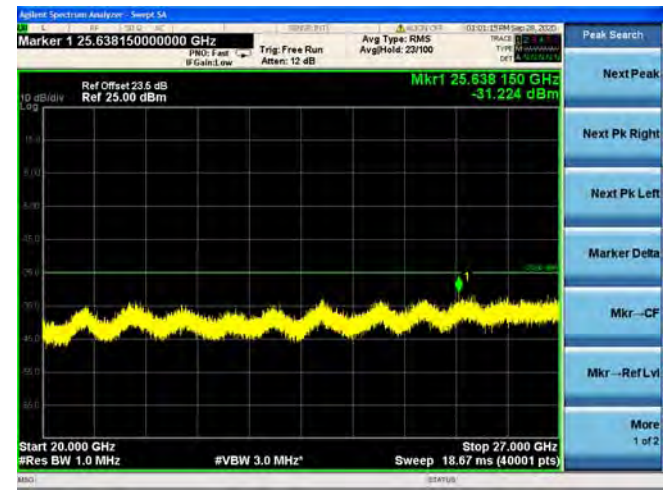
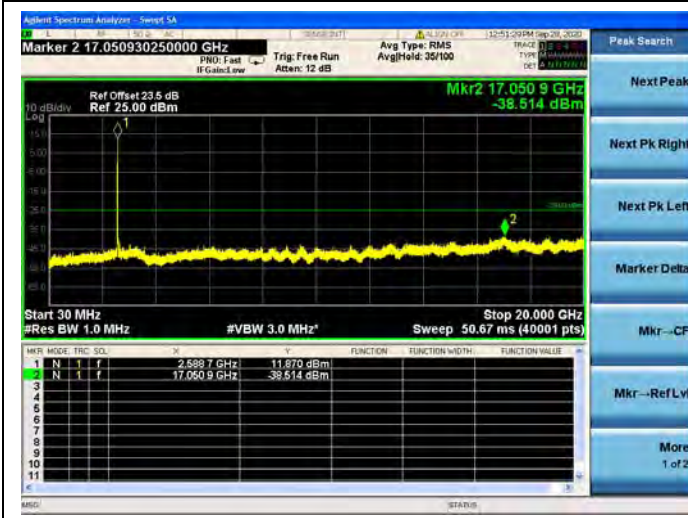


Band 41 / 10MHz / Low CH / 16QAM

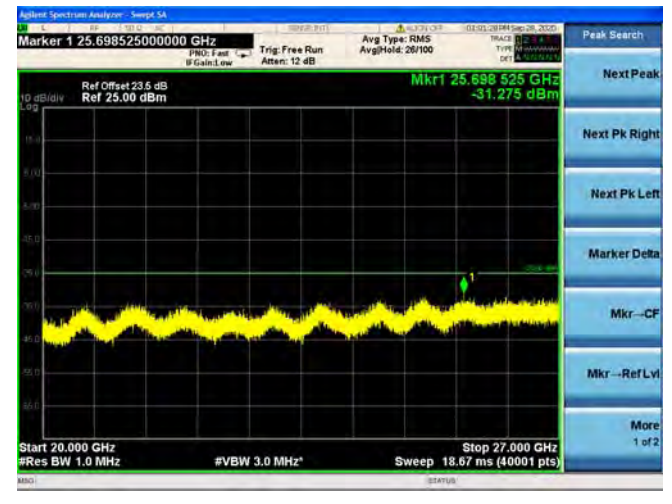
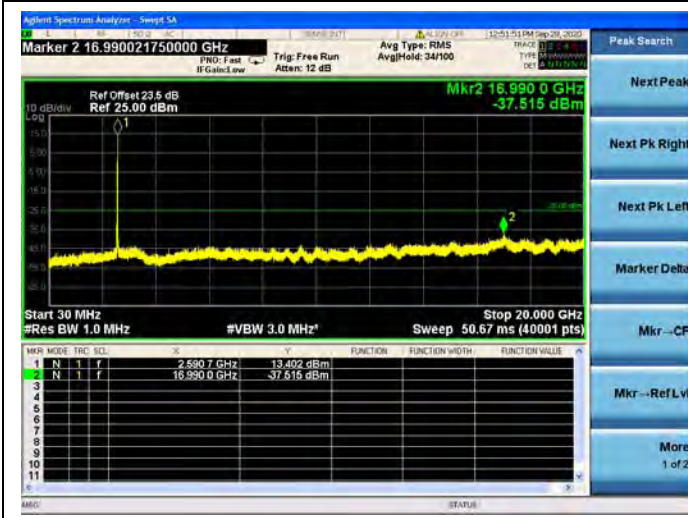




Band 41 / 10MHz / Mid CH / QPSK

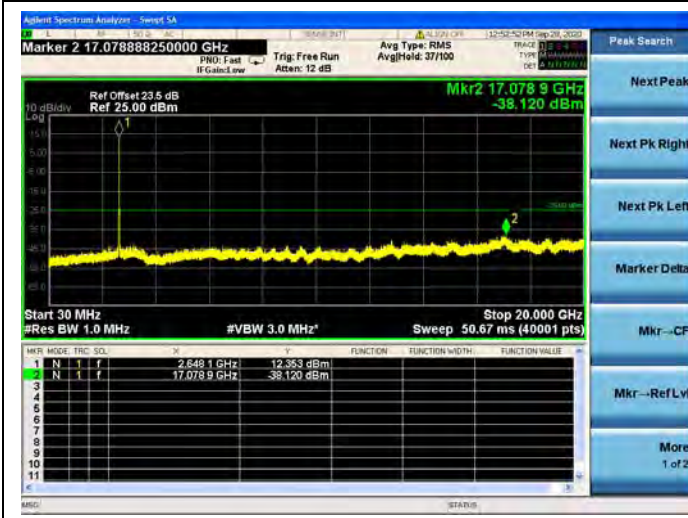


Band 41 / 10MHz / Mid CH / 16QAM

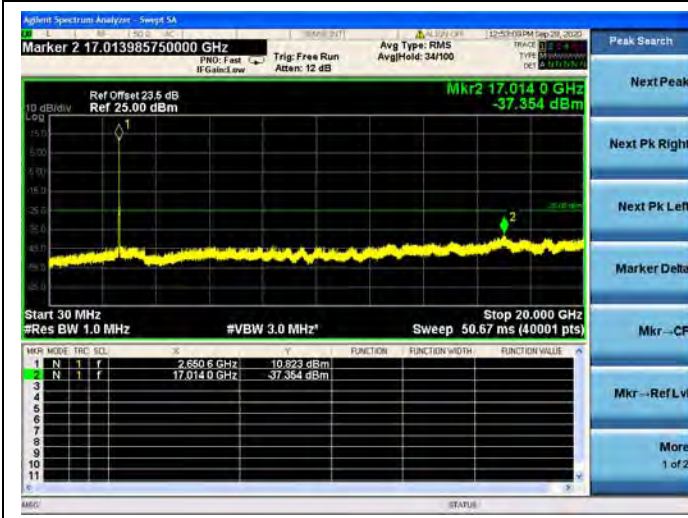




Band 41 / 10MHz / High CH / QPSK

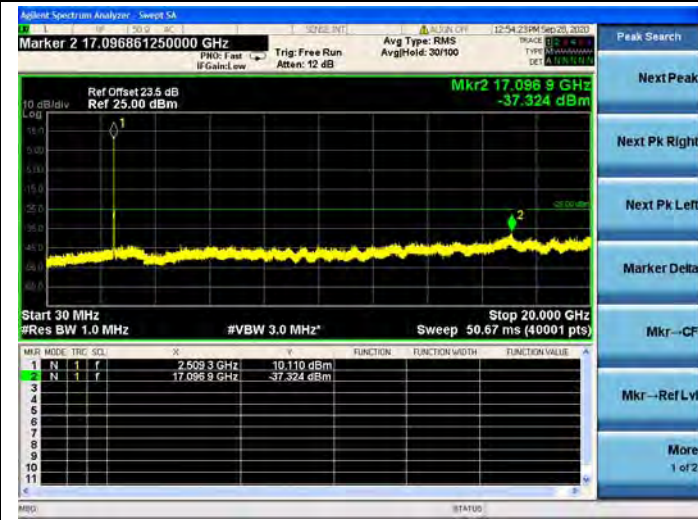


Band 41 / 10MHz / High CH / 16QAM

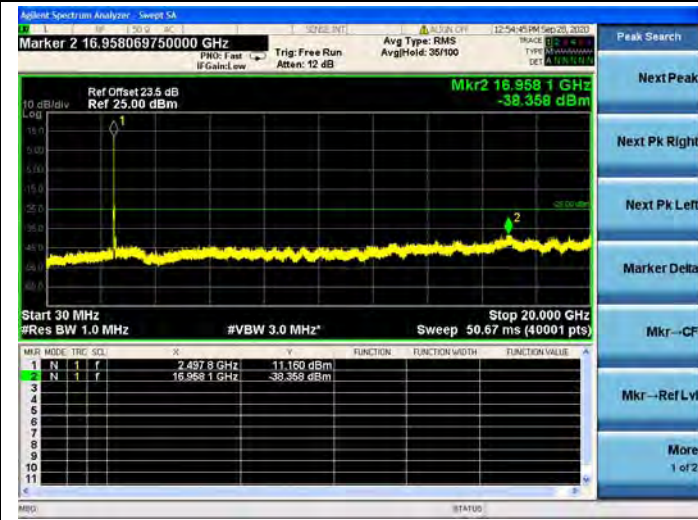




Band 41 / 15MHz / Low CH / QPSK



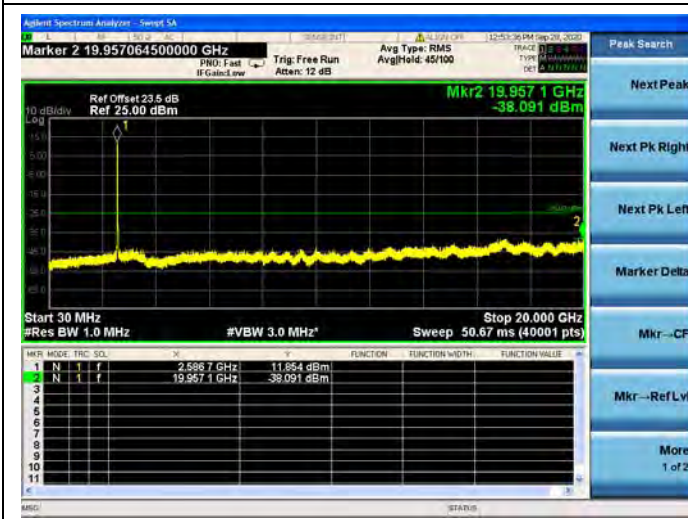
Band 41 / 15MHz / Low CH / 16QAM



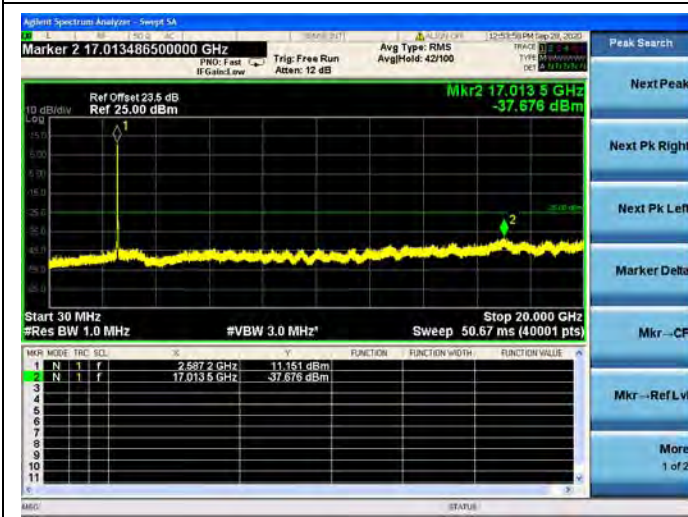




Band 41 / 15MHz / Mid CH / QPSK

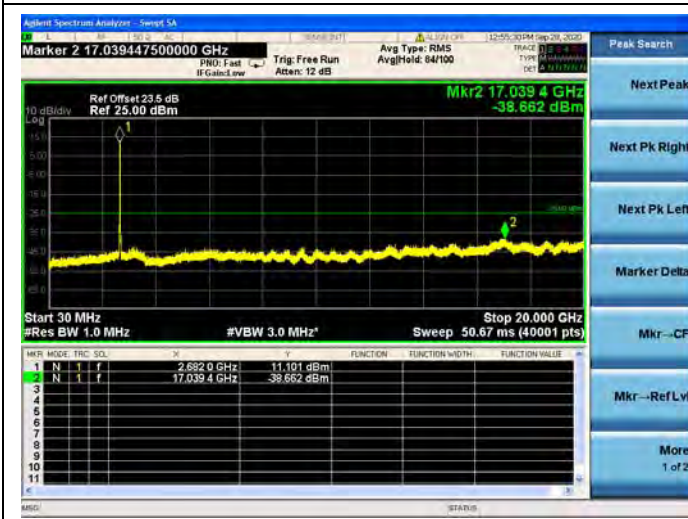


Band 41 / 15MHz / Mid CH / 16QAM

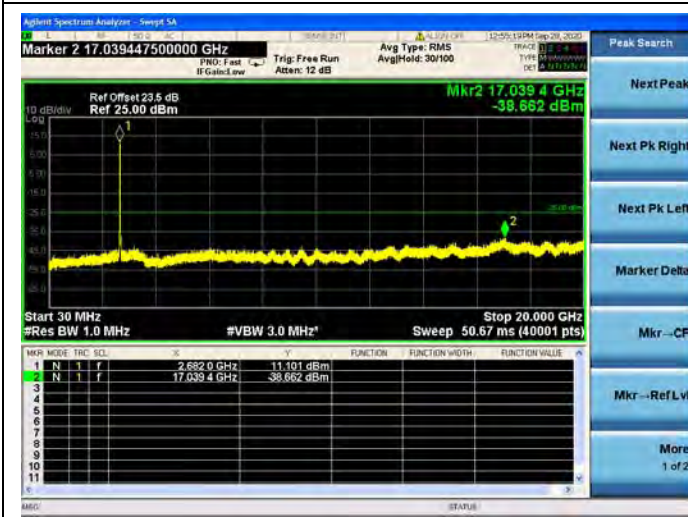




Band 41 / 15MHz / High CH / QPSK

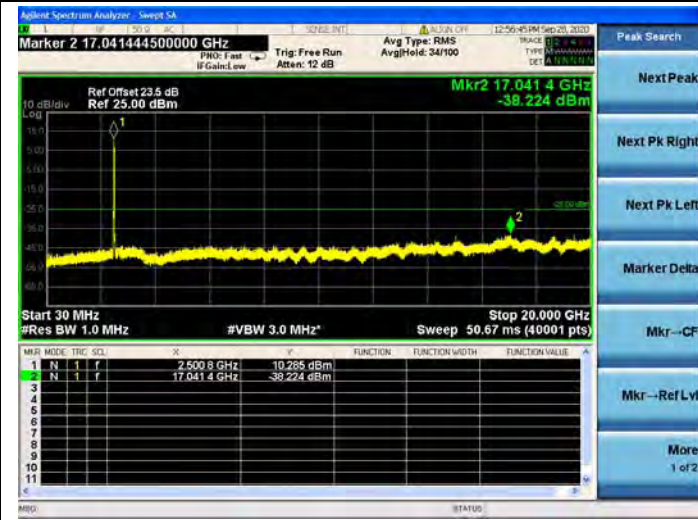


Band 41 / 15MHz / High CH / 16QAM

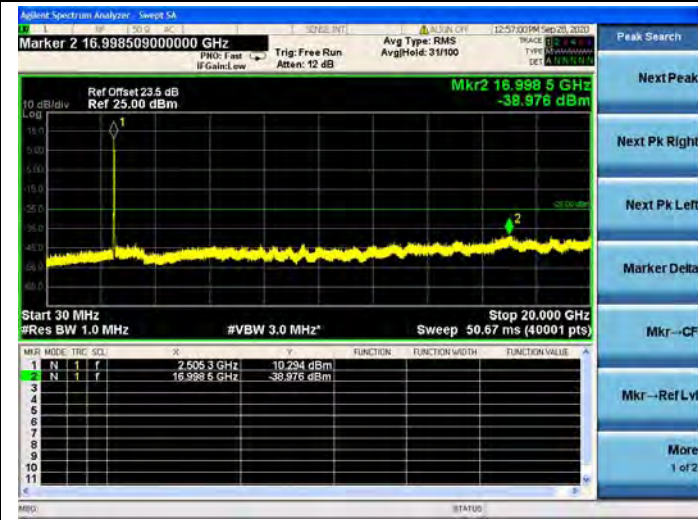




Band 41 / 20MHz / Low CH / QPSK

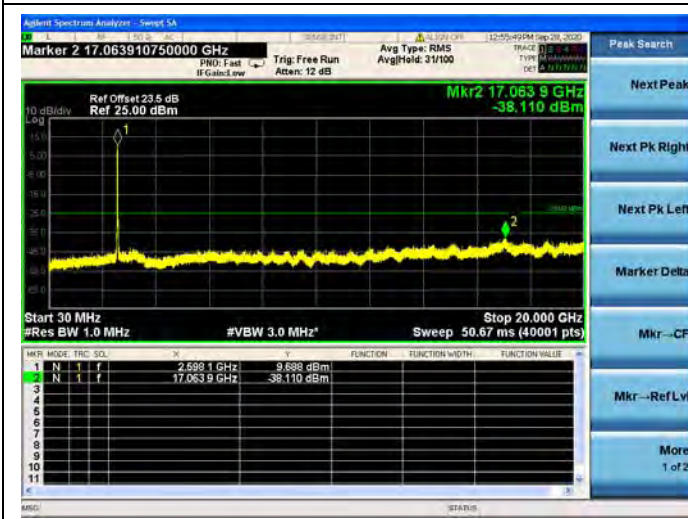


Band 41 / 20MHz / Low CH / 16QAM

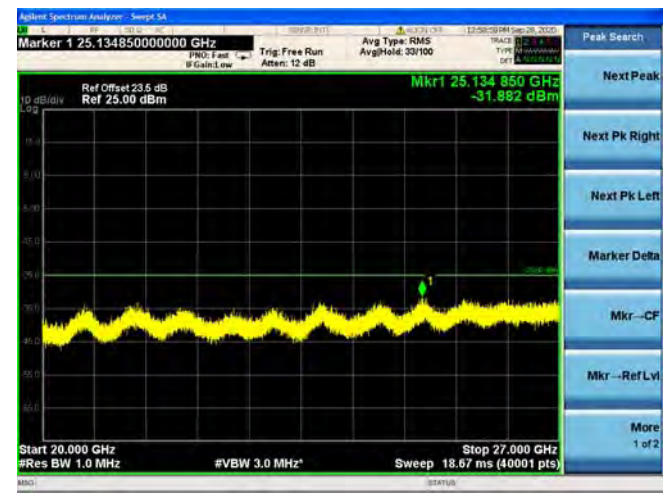
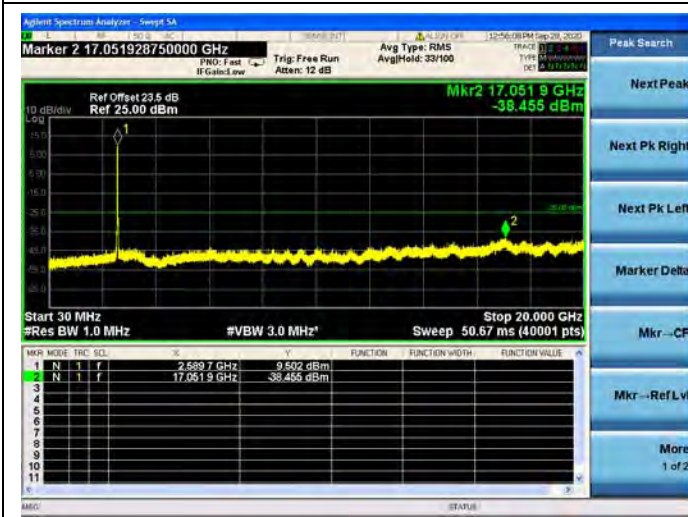




Band 41 / 20MHz / Mid CH / QPSK

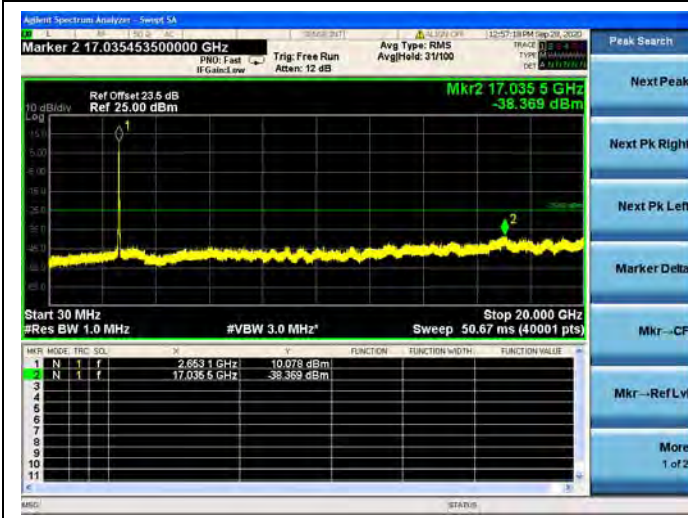


Band 41 / 20MHz / Mid CH / 16QAM

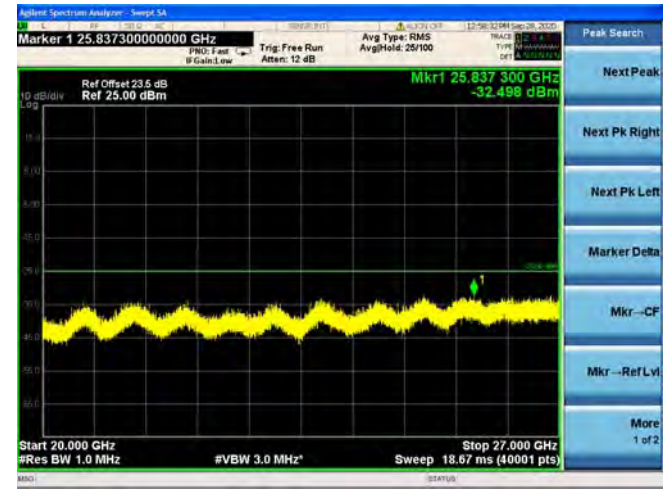
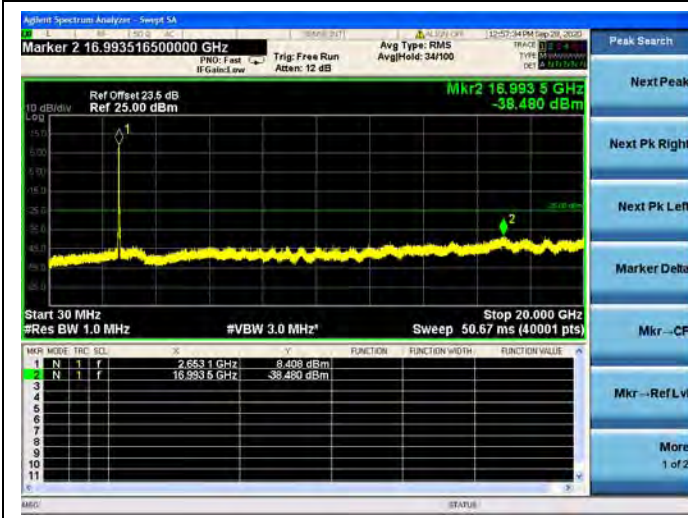




Band 41 / 20MHz / High CH / QPSK



Band 41 / 20MHz / High CH / 16QAM





## 2.6. Band Edge

### 2.6.1. Requirement

According to FCC section 22.917(a), 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.

According to FCC section 24.238(a), 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.

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.

According to FCC section 27.53(m) (4), for mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

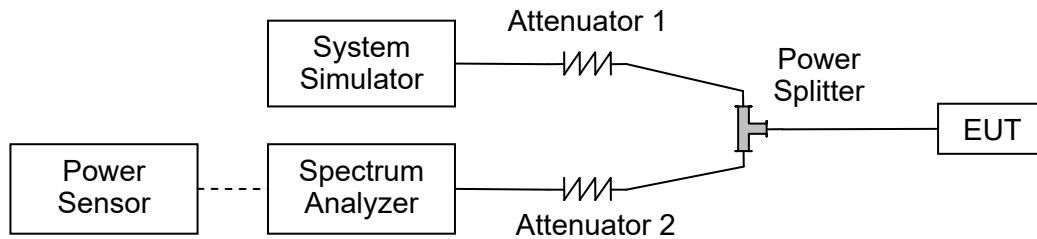
According to FCC section 27.53(a) (4), for mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(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. 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 50 Ohm; 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 / Low CH / 16QAM / 1 RB



Band2 / 1.4MHz / Low CH / 16QAM / FULL RB







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



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



Band2 / 1.4MHz / High CH / 16QAM / 1 RB



Band2 / 1.4MHz / High CH / 16QAM / FULL RB





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



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



Band2 / 3MHz / Low CH / 16QAM / 1 RB



Band2 / 3MHz / Low CH / 16QAM / FULL RB





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



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



Band2 / 3MHz / High CH / 16QAM / 1 RB



Band2 / 3MHz / High CH / 16QAM / FULL RB





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



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



Band2 / 5MHz / Low CH / 16QAM / 1 RB



Band2 / 5MHz / Low CH / 16QAM / FULL RB





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



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



Band2 / 5MHz / High CH / 16QAM / 1 RB



Band2 / 5MHz / High CH / 16QAM / FULL RB





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



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



Band2 / 10MHz / Low CH / 16QAM / 1 RB



Band2 / 10MHz / Low CH / 16QAM / FULL RB





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



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



Band2 / 10MHz / High CH / 16QAM / 1 RB



Band2 / 10MHz / High CH / 16QAM / FULL RB





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



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



Band2 / 15MHz / Low CH / 16QAM / 1 RB



Band2 / 15MHz / Low CH / 16QAM / FULL RB







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



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



Band2 / 15MHz / High CH / 16QAM / 1 RB



Band2 / 15MHz / High CH / 16QAM / FULL RB





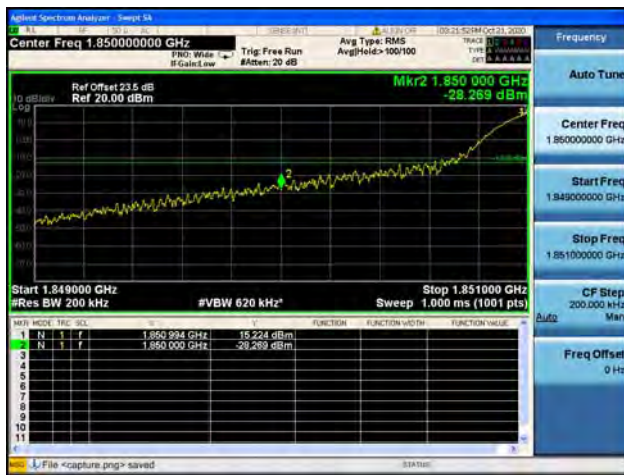
Band2 / 20MHz / Low CH / QPSK / 1 RB



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



Band2 / 20MHz / Low CH / 16QAM / 1 RB



Band2 / 20MHz / Low CH / 16QAM / FULL RB





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



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



Band2 / 20MHz / High CH / 16QAM / 1 RB



Band2 / 20MHz / High CH / 16QAM / FULL RB





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



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



Band4 / 1.4MHz / Low CH / 16QAM / 1 RB



Band4 / 1.4MHz / Low CH / 16QAM / FULL RB





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



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



Band4 / 1.4MHz / High CH / 16QAM / 1 RB



Band4 / 1.4MHz / High CH / 16QAM / FULL RB





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



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



Band4 / 3MHz / Low CH / 16QAM / 1 RB



Band4 / 3MHz / Low CH / 16QAM / FULL RB





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



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



Band4 / 3MHz / High CH / 16QAM / 1 RB



Band4 / 3MHz / High CH / 16QAM / FULL RB





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



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



Band4 / 5MHz / Low CH / 16QAM / 1 RB



Band4 / 5MHz / Low CH / 16QAM / FULL RB







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



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



Band4 / 5MHz / High CH / 16QAM / 1 RB



Band4 / 5MHz / High CH / 16QAM / FULL RB





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



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



Band4 / 10MHz / Low CH / 16QAM / 1 RB



Band4 / 10MHz / Low CH / 16QAM / FULL RB





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



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



Band4 / 10MHz / High CH / 16QAM / 1 RB



Band4 / 10MHz / High CH / 16QAM / FULL RB





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



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



Band4 / 15MHz / Low CH / 16QAM / 1 RB



Band4 / 15MHz / Low CH / 16QAM / FULL RB





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



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



Band4 / 15MHz / High CH / 16QAM / 1 RB



Band4 / 15MHz / High CH / 16QAM / FULL RB

