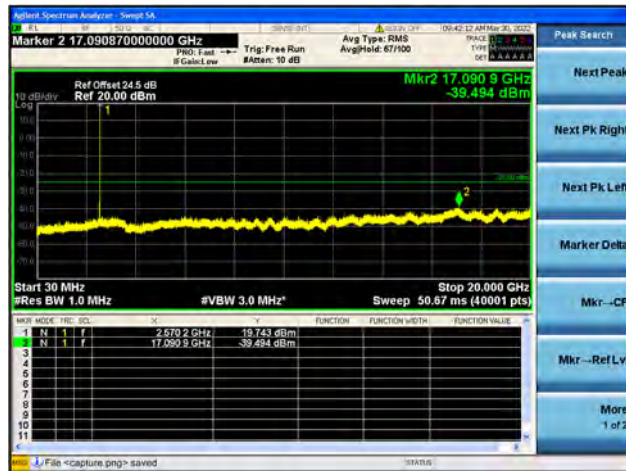
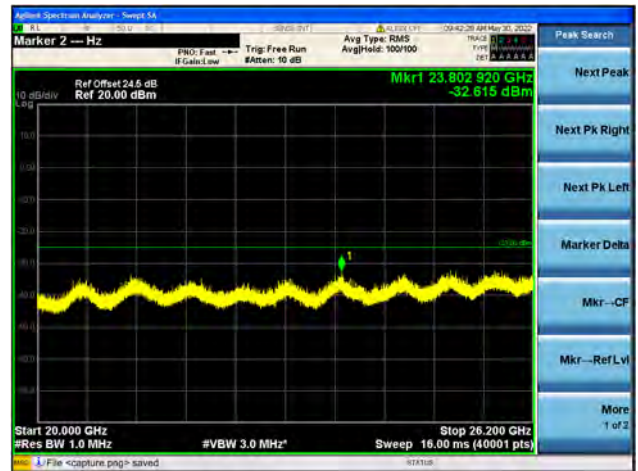




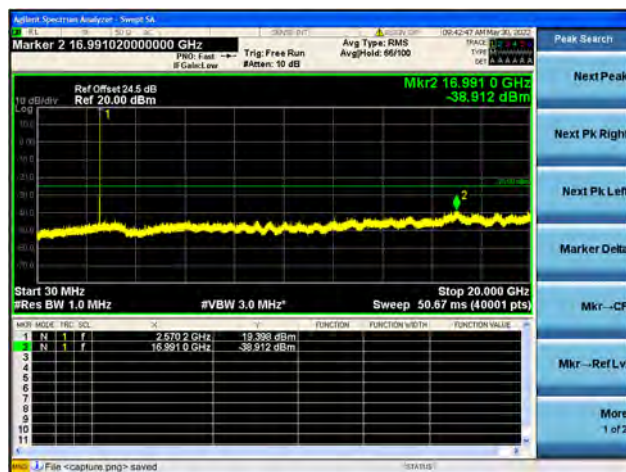
B38-30M-20G / 5MHz / Low CH / QPSK



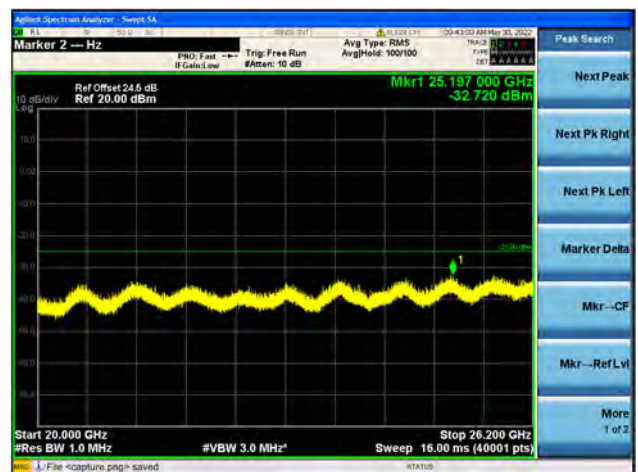
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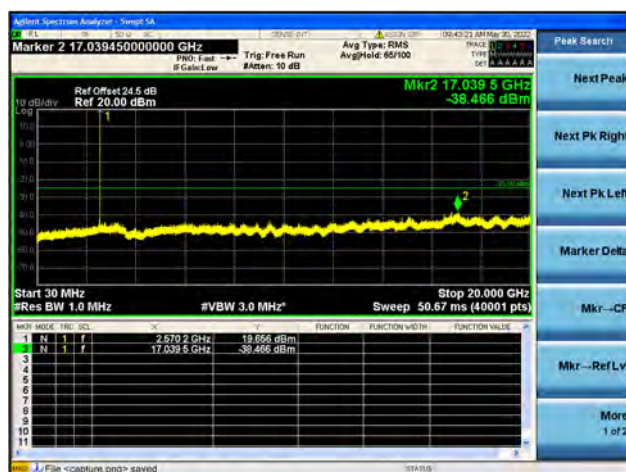
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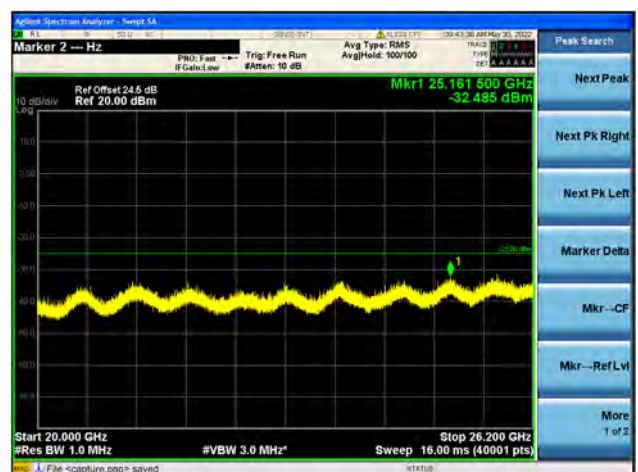
B38-20G-26G / 5MHz / Low CH / 16QAM



B38-30M-20G / 5MHz / Low CH / 64QAM

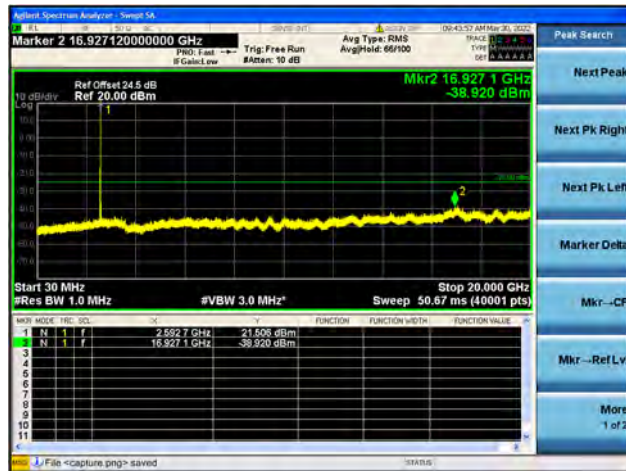


B38-20G-26G / 5MHz / Low CH / 64QAM

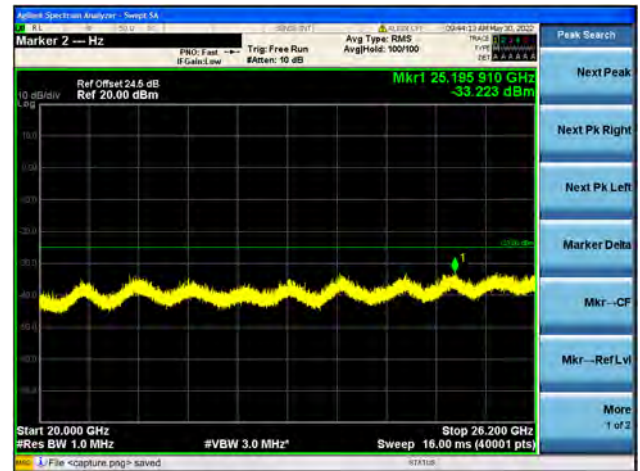




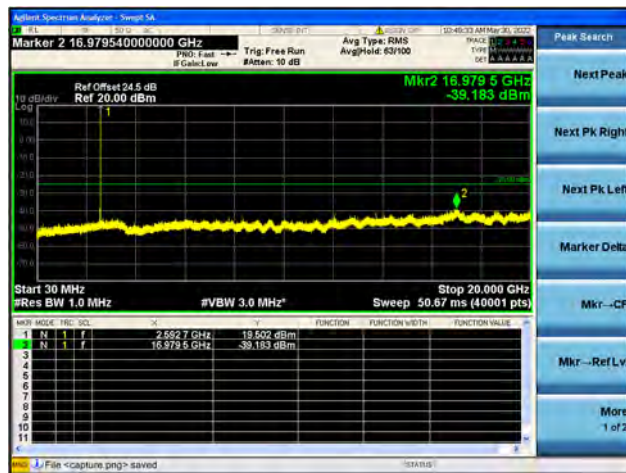
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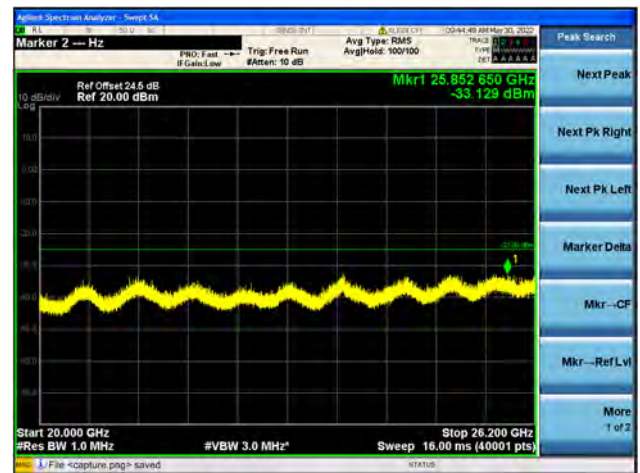
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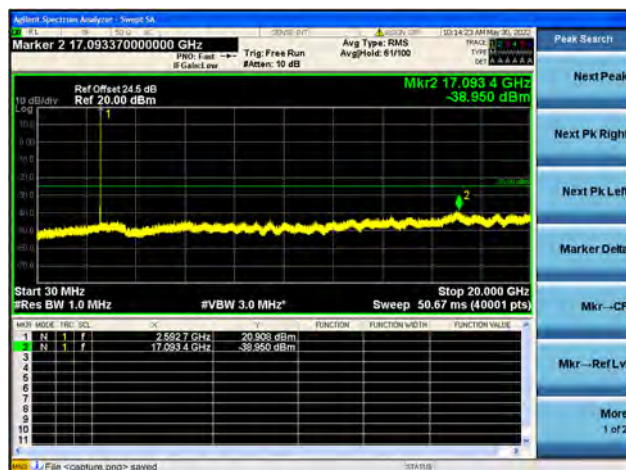
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B38-20G-26G / 5MHz / Mid CH / 16QAM



B38-30M-20G / 5MHz / Mid CH / 64QAM

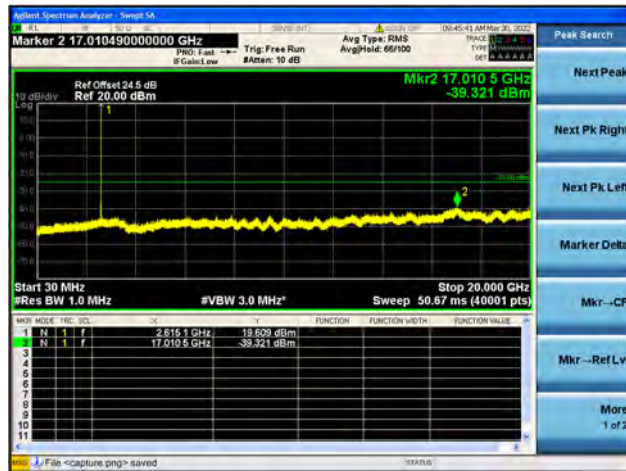


B38-20G-26G / 5MHz / Mid CH / 64QAM





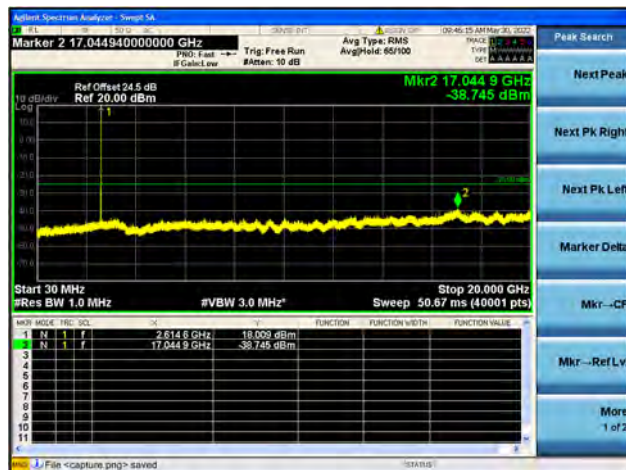
B38-30M-20G / 5MHz / High CH / QPSK



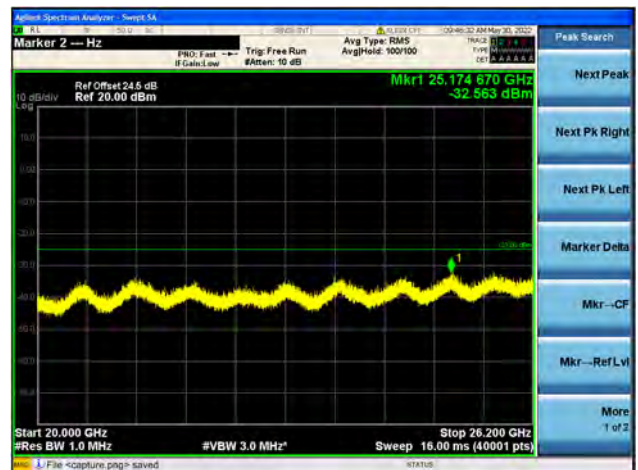
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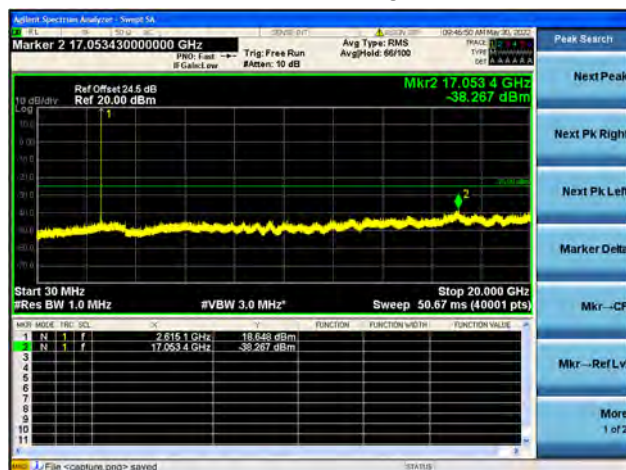
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B38-20G-26G / 5MHz / High CH / 16QAM



B38-30M-20G / 5MHz / High CH / 64QAM

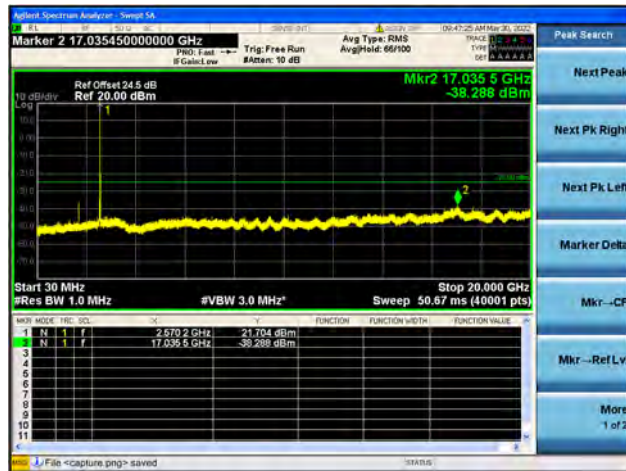


B38-20G-26G / 5MHz / High CH / 64QAM





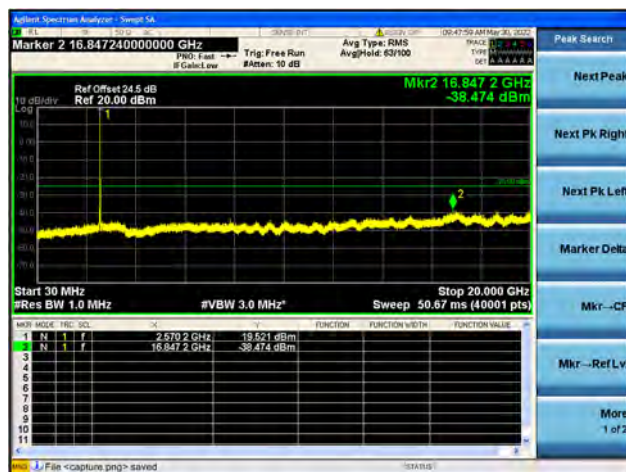
B38-30M-20G / 10MHz / Low CH / QPSK



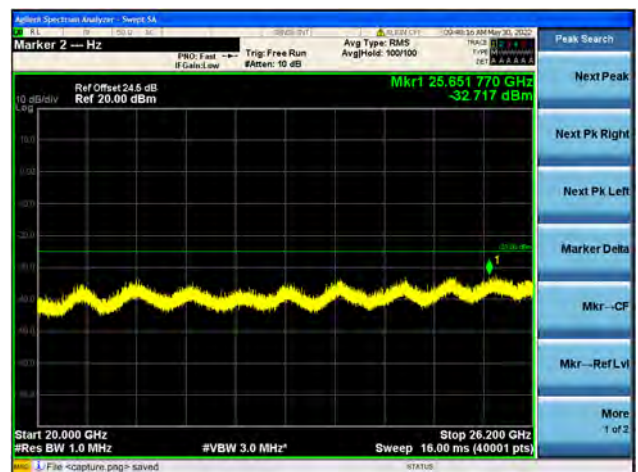
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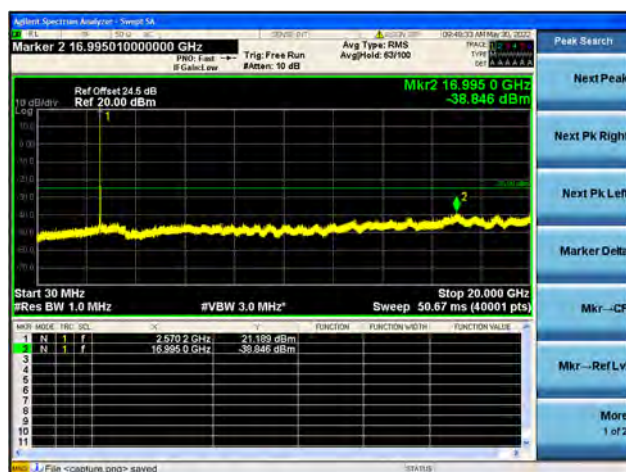
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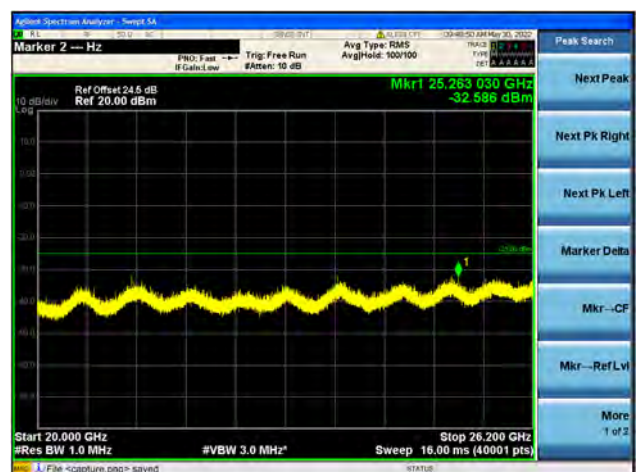
B38-20G-26G / 10MHz / Low CH / 16QAM



B38-30M-20G / 10MHz / Low CH / 64QAM

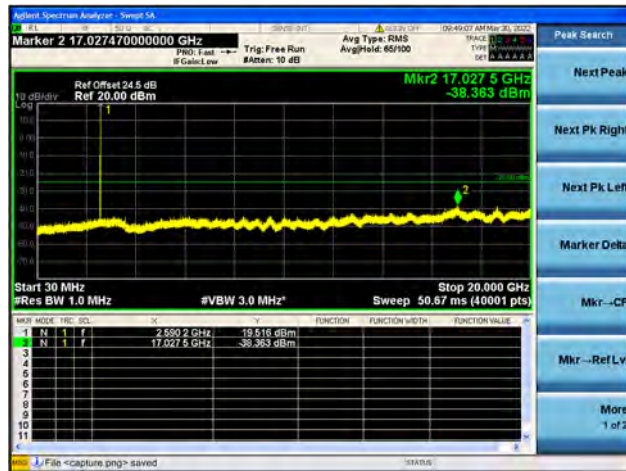


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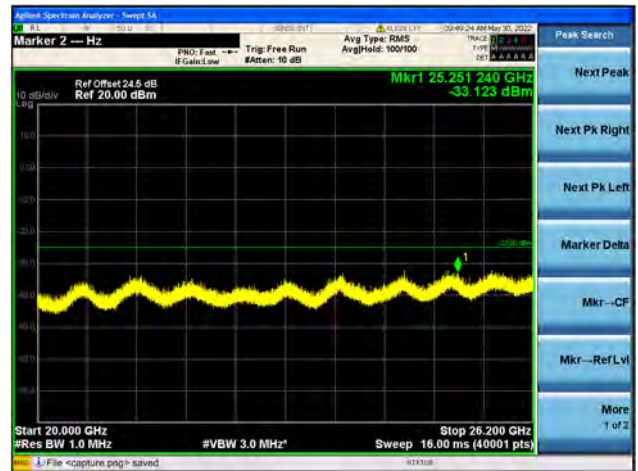




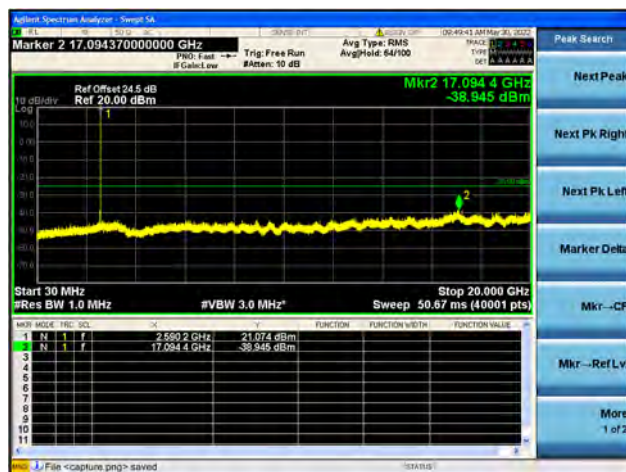
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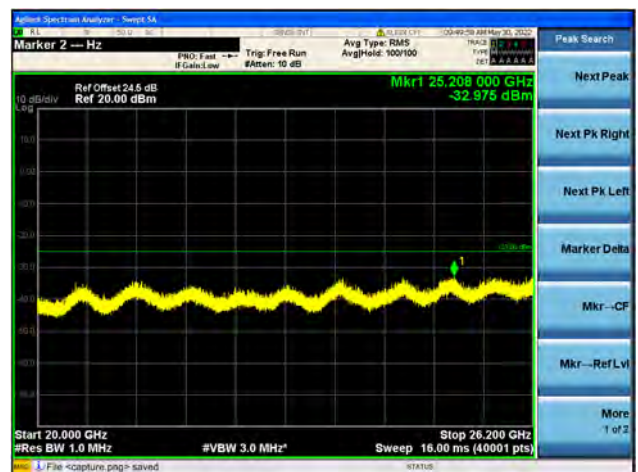
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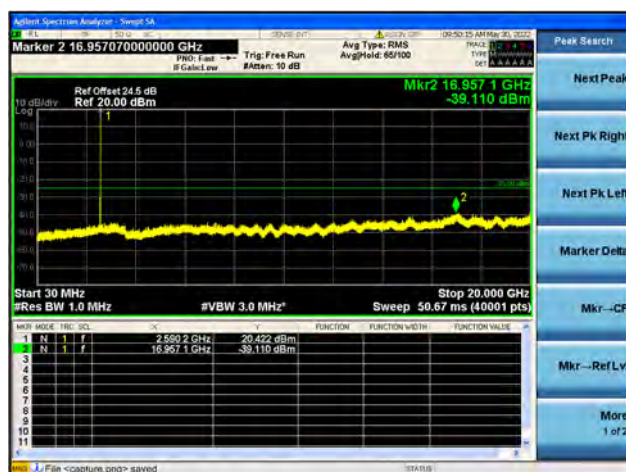
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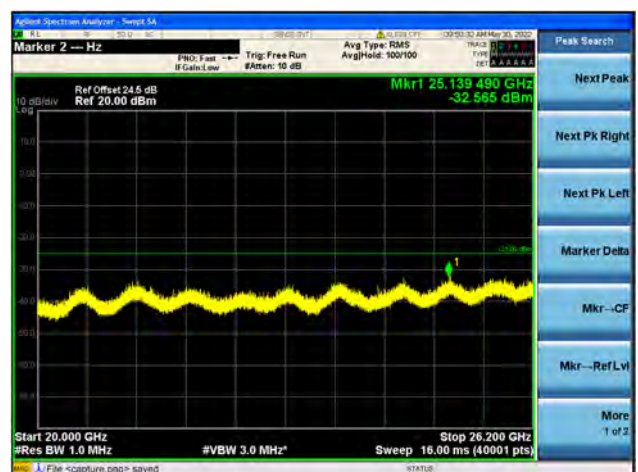
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B38-30M-20G / 10MHz / Mid CH / 64QAM

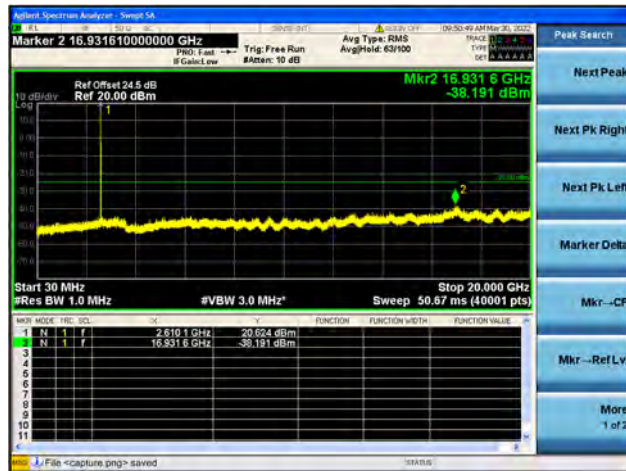


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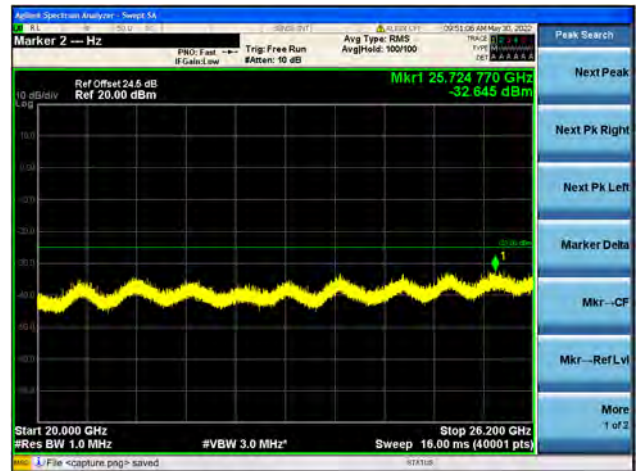




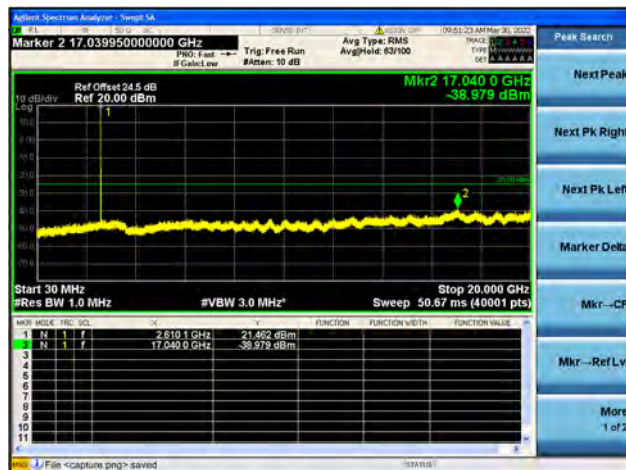
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B38-20G-26G / 10MHz / High CH / QPSK



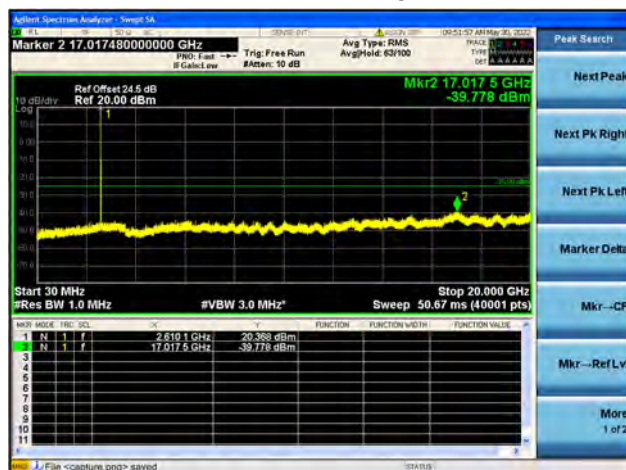
B38-30M-20G / 10MHz / High CH / 16QAM



B38-20G-26G / 10MHz / High CH / 16QAM



B38-30M-20G / 10MHz / High CH / 64QAM

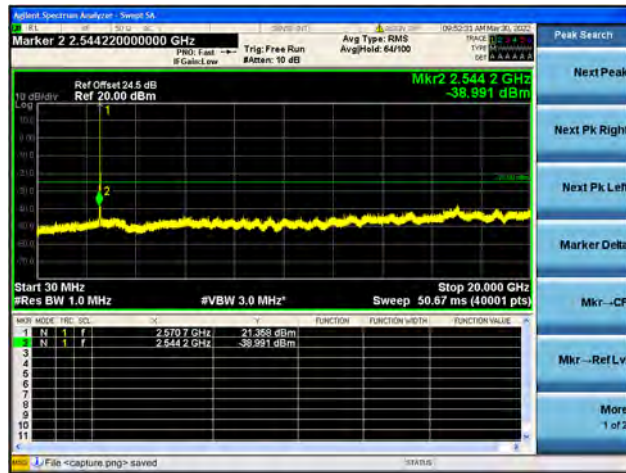


B38-20G-26G / 10MHz / High CH / 64QAM





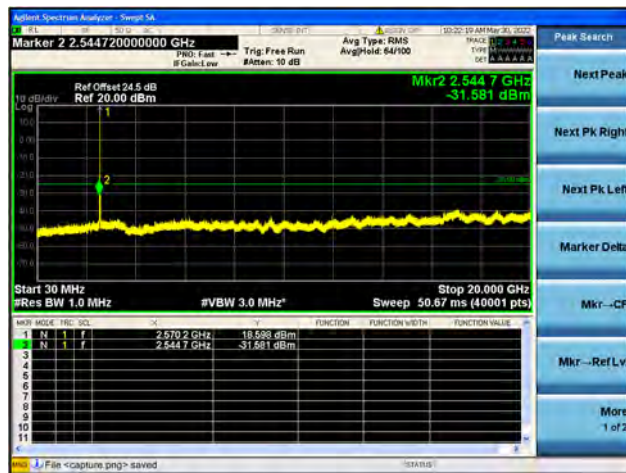
B38-30M-20G / 15MHz / Low CH / QPSK



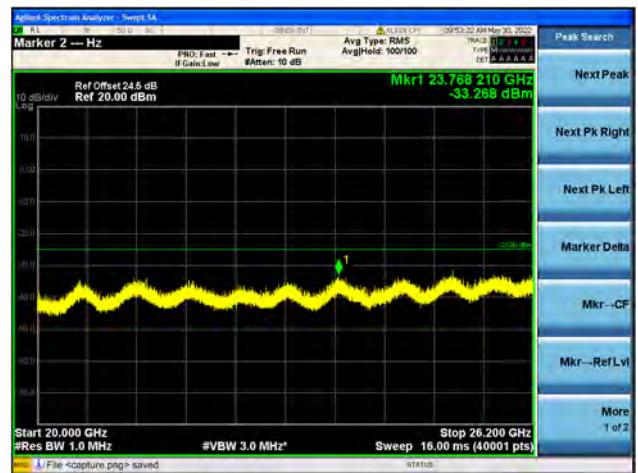
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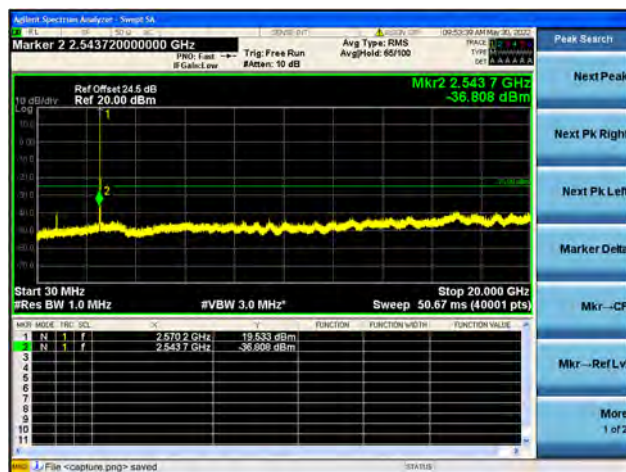
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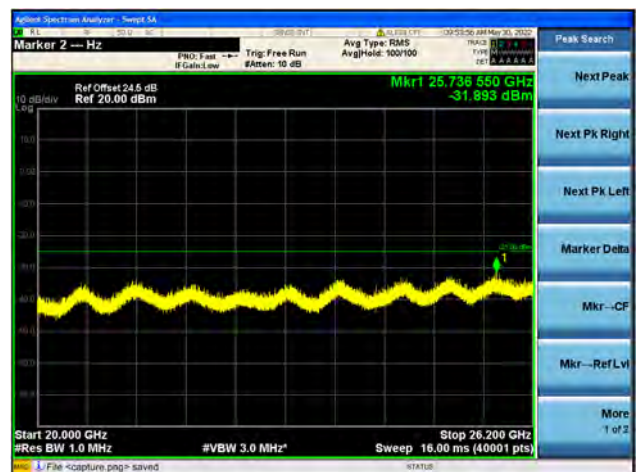
B38-20G-26G / 15MHz / Low CH / 16QAM



B38-30M-20G / 15MHz / Low CH / 64QAM

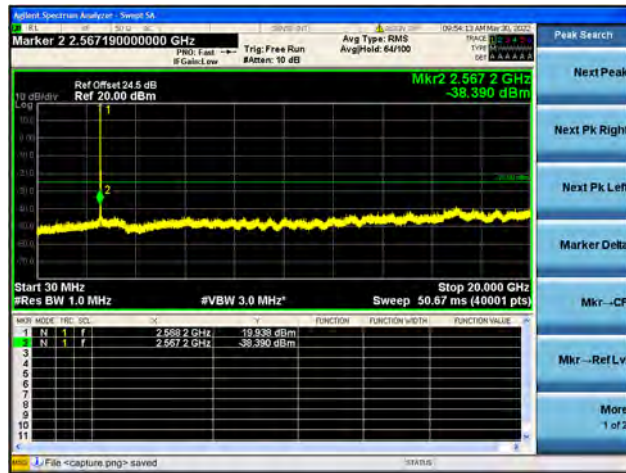


B38-20G-26G / 15MHz / Low CH / 64QAM





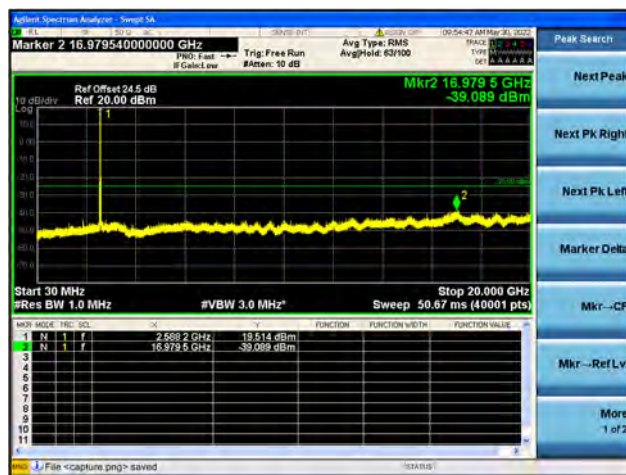
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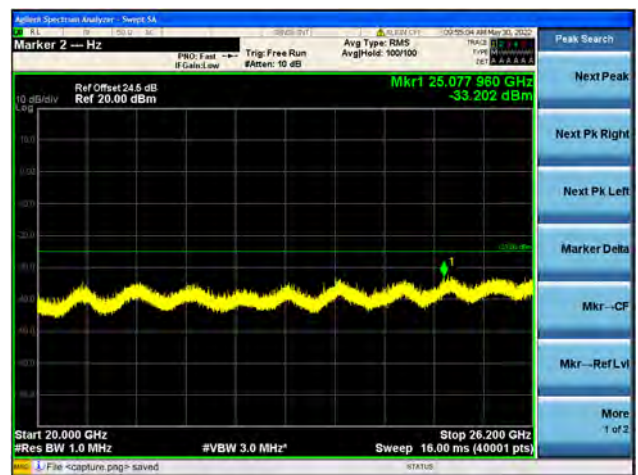
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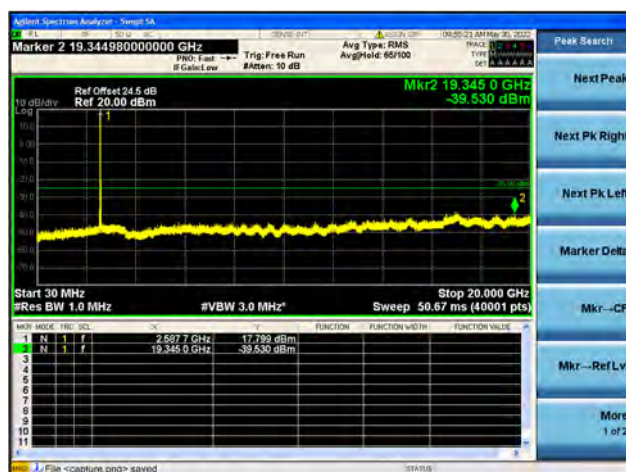
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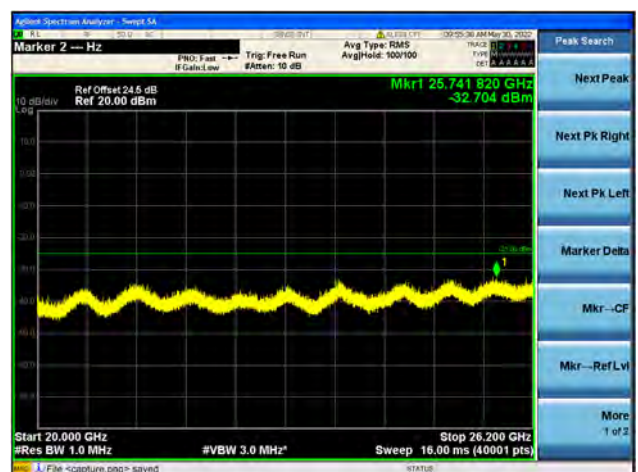
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B38-30M-20G / 15MHz / Mid CH / 64QAM

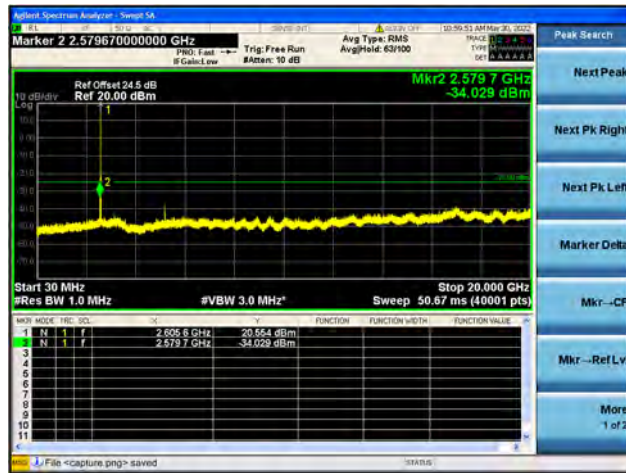


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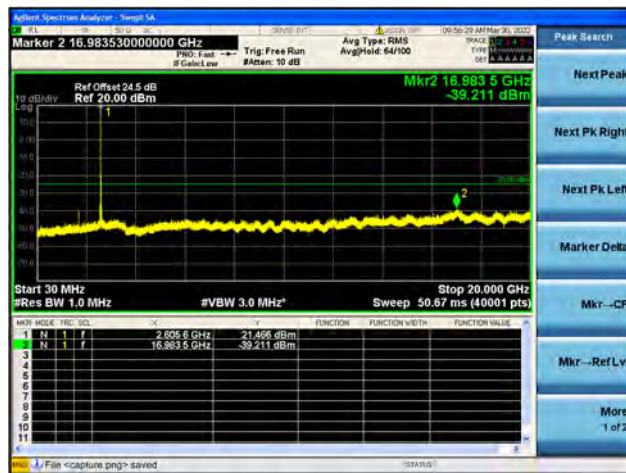
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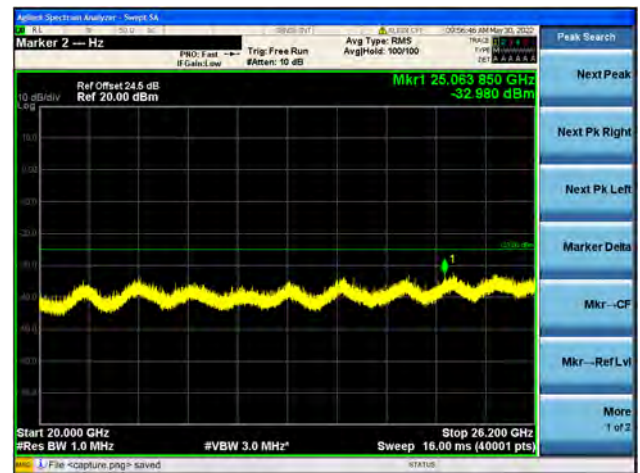
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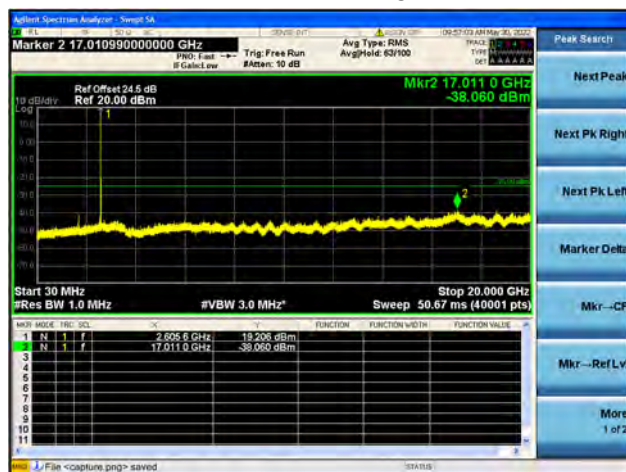
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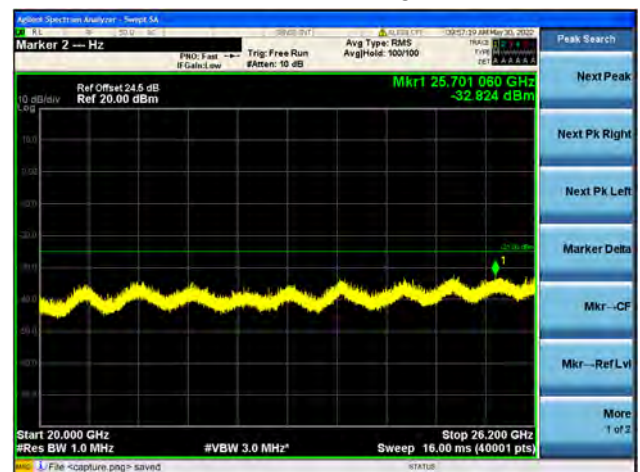
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B38-30M-20G / 15MHz / High CH / 64QAM

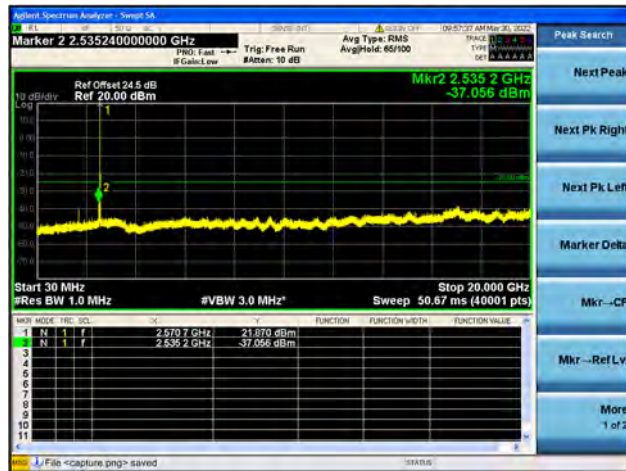


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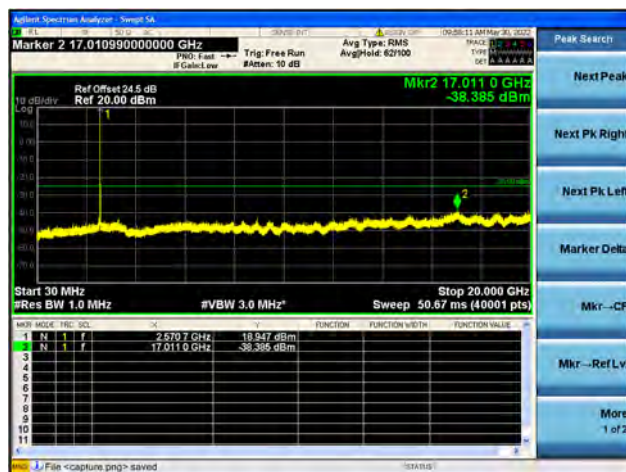
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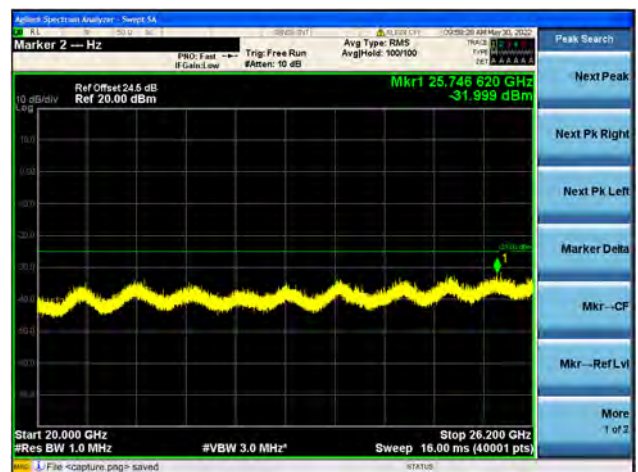
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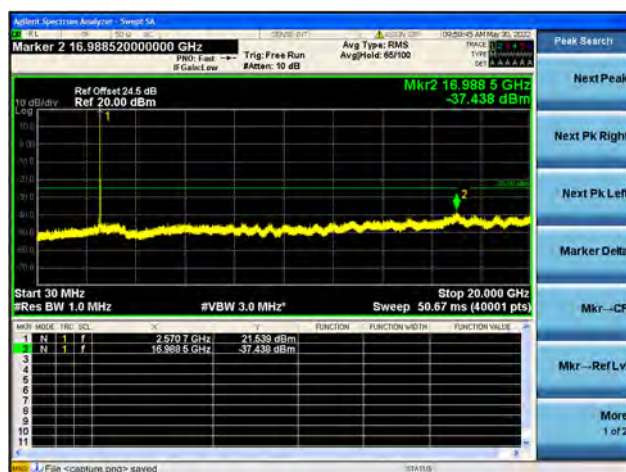
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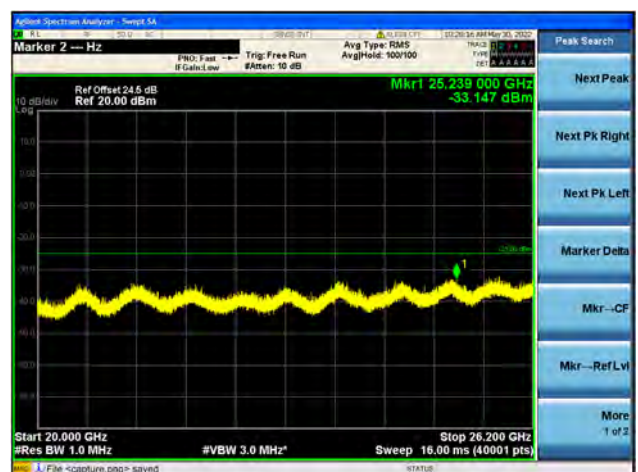
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B38-30M-20G / 20MHz / Low CH / 64QAM

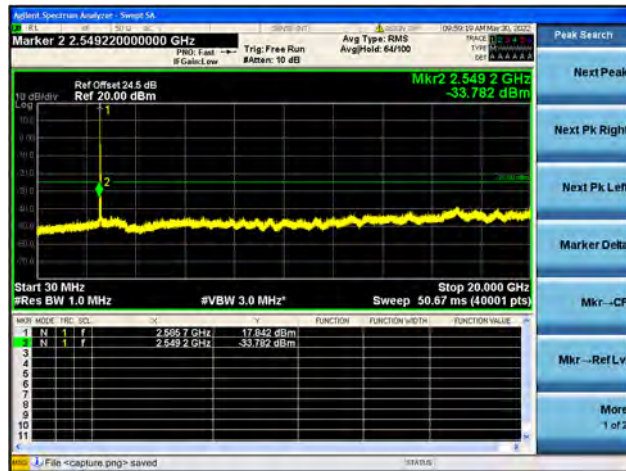


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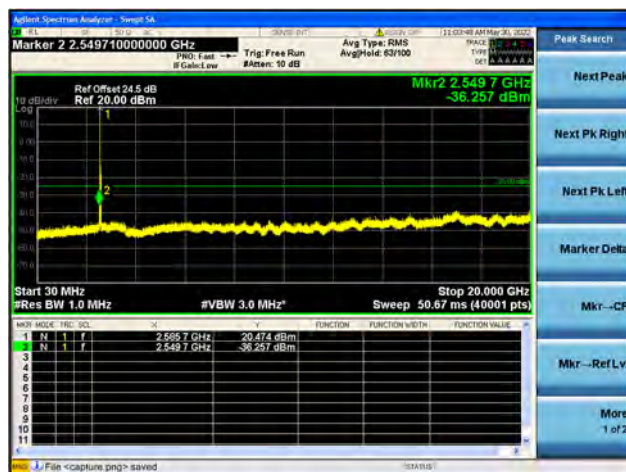
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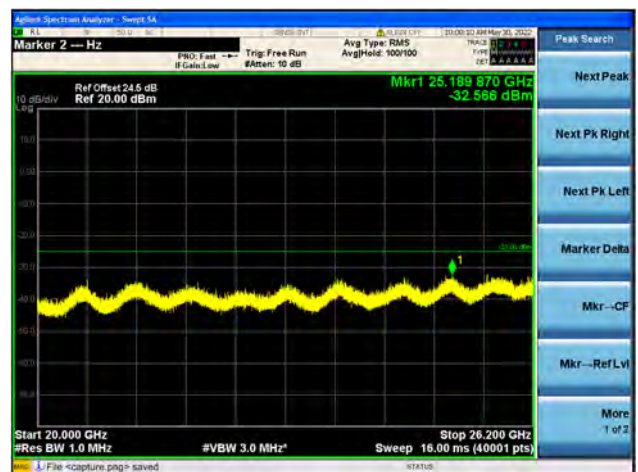
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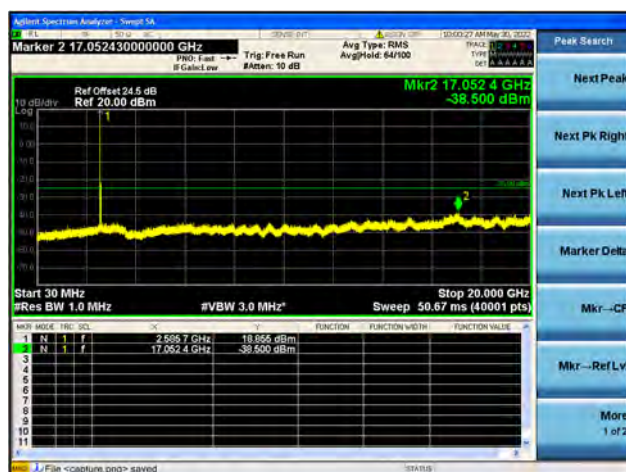
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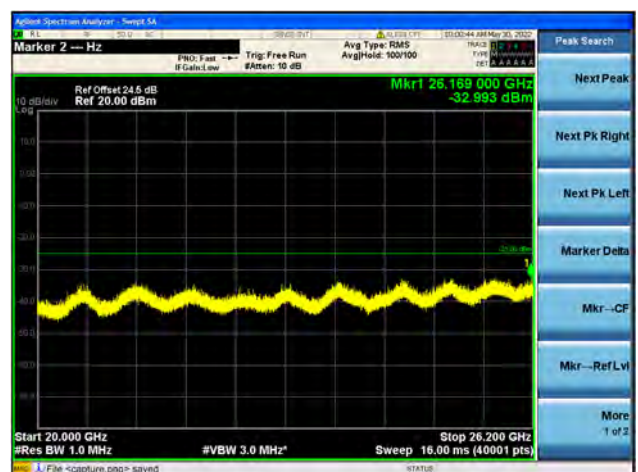
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B38-30M-20G / 20MHz / Mid CH / 64QAM

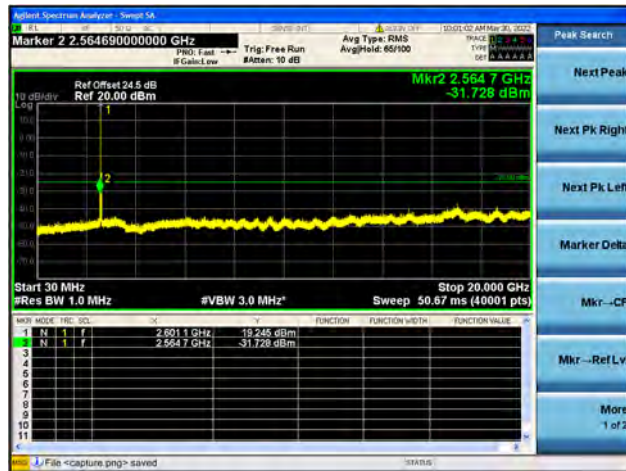


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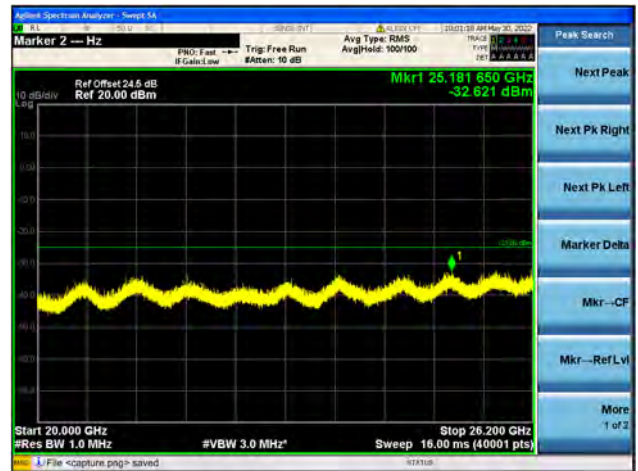




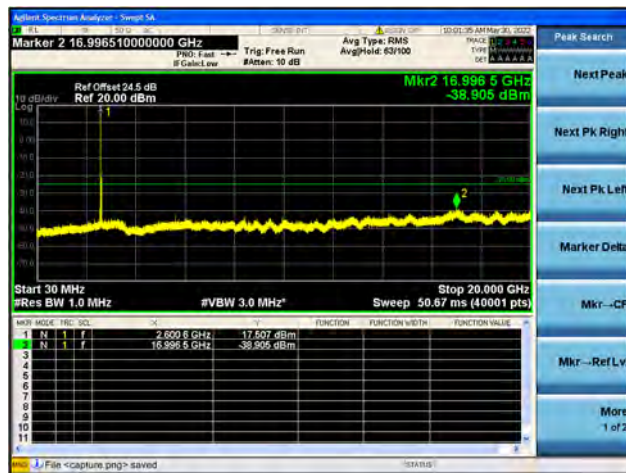
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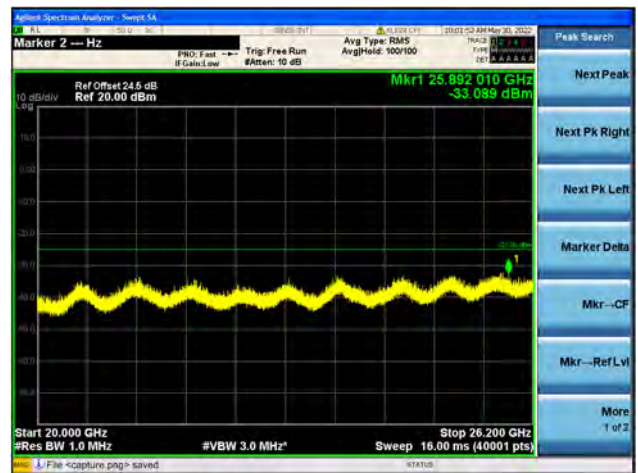
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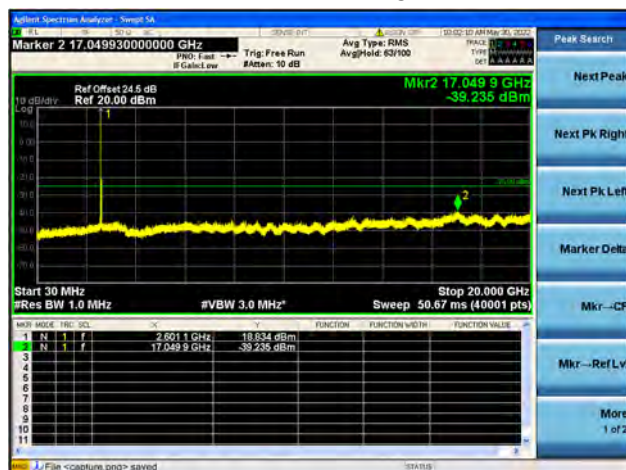
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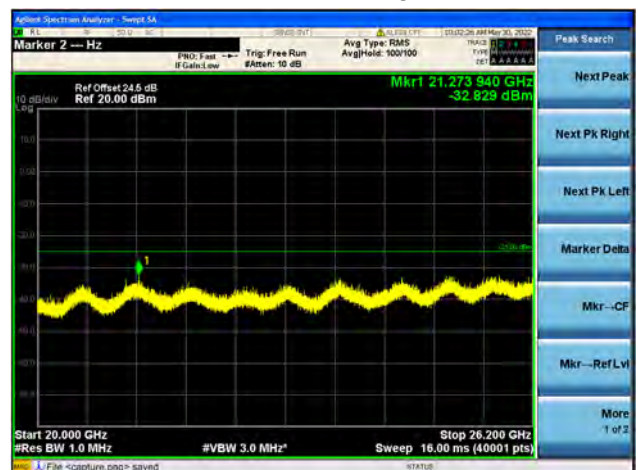
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B38-30M-20G / 20MHz / High CH / 64QAM

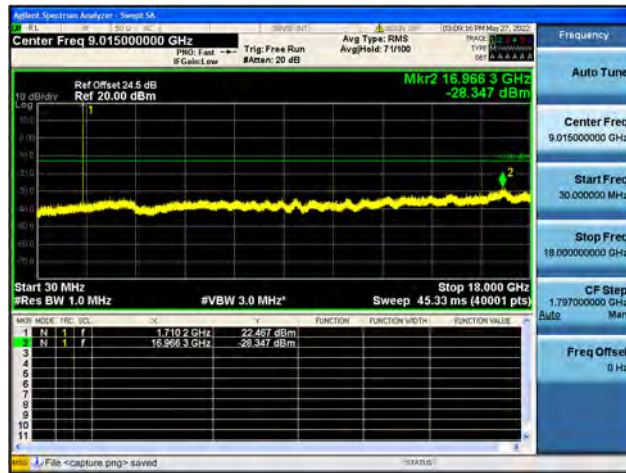


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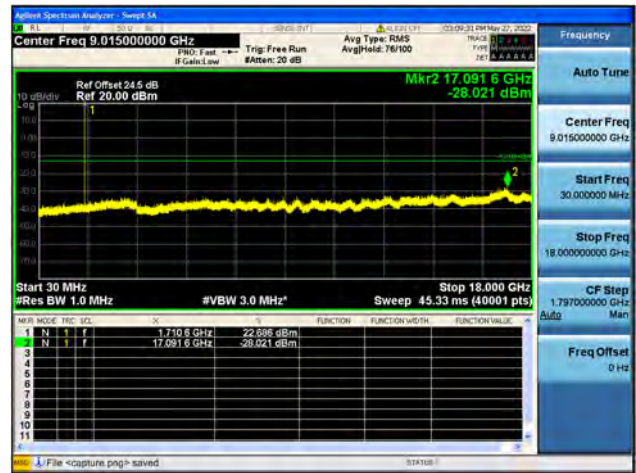




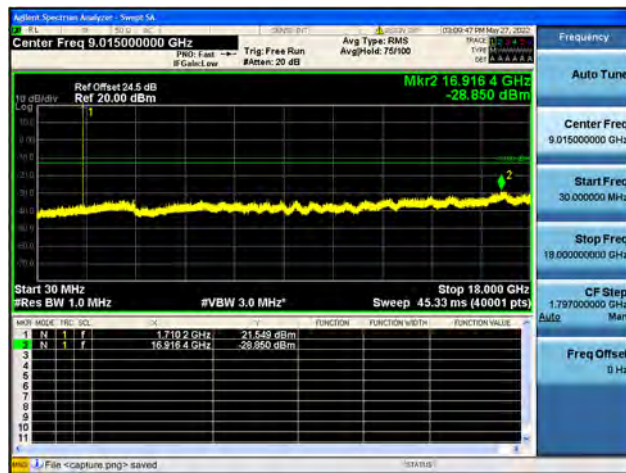
Band66 / 1.4MHz / Low CH / QPSK



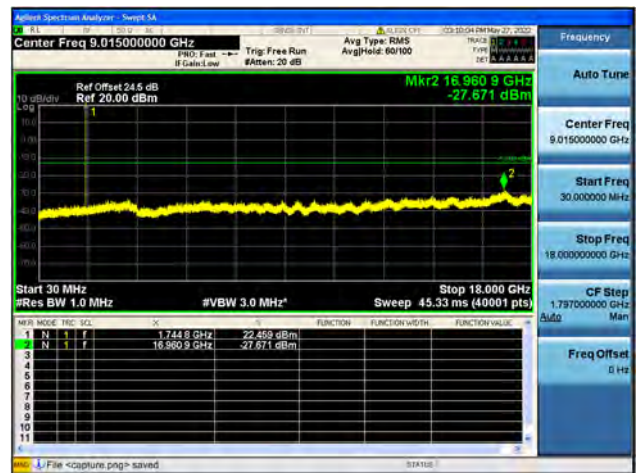
Band66 / 1.4MHz / Low CH / 16QAM



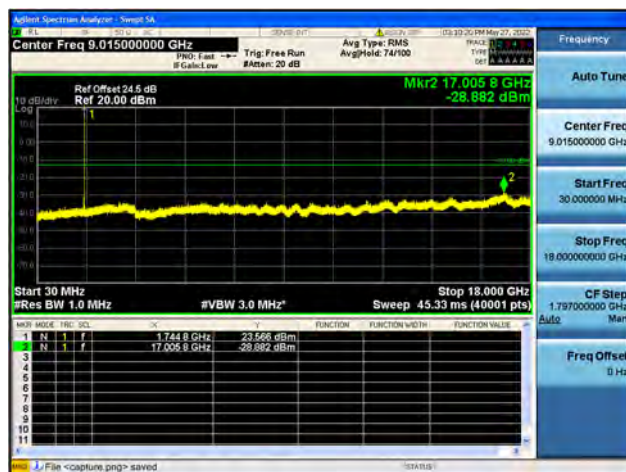
Band66 / 1.4MHz / Low CH / 64QAM



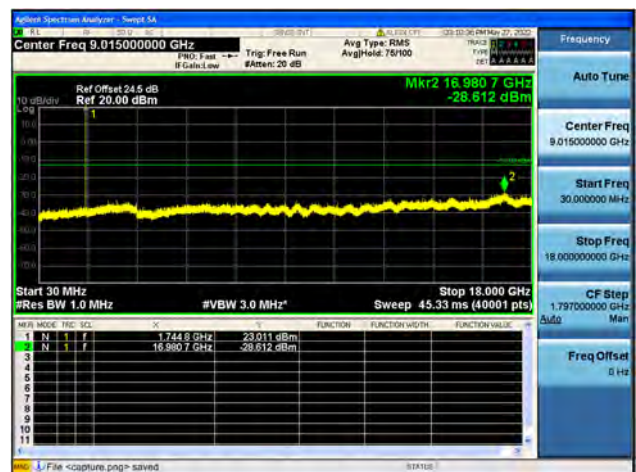
Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM

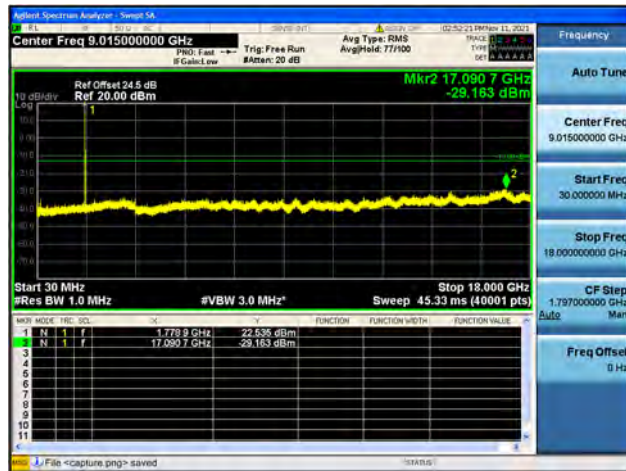


Band66 / 1.4MHz / Mid CH / 64QAM

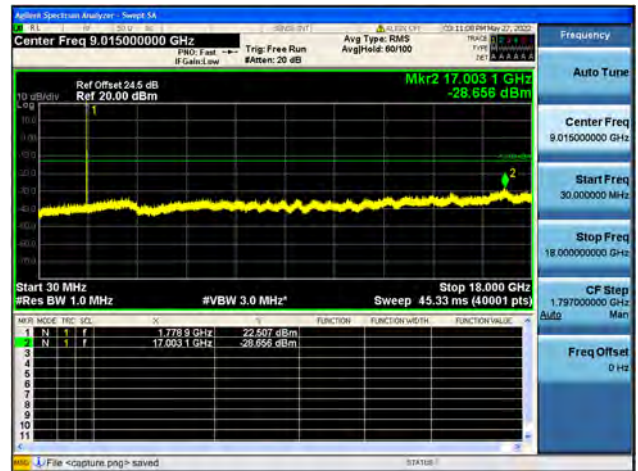




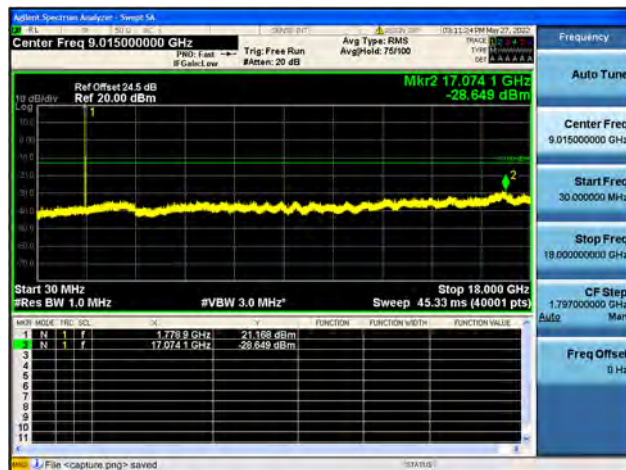
Band66 / 1.4MHz / High CH / QPSK



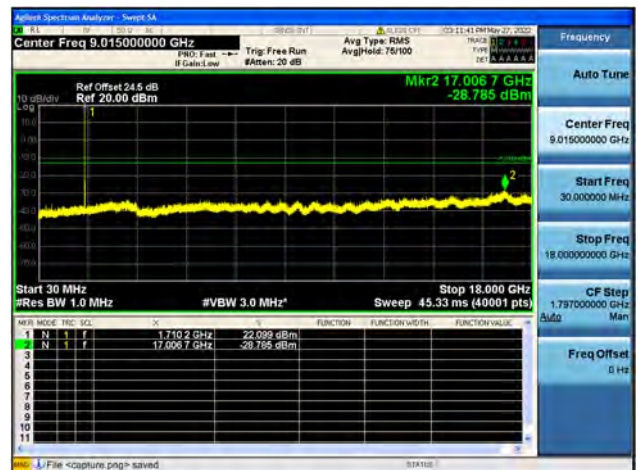
Band66 / 1.4MHz / High CH / 16QAM



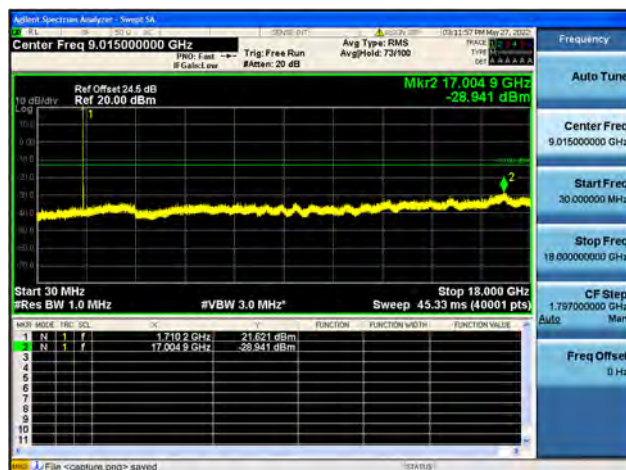
Band66 / 1.4MHz / High CH / 64QAM



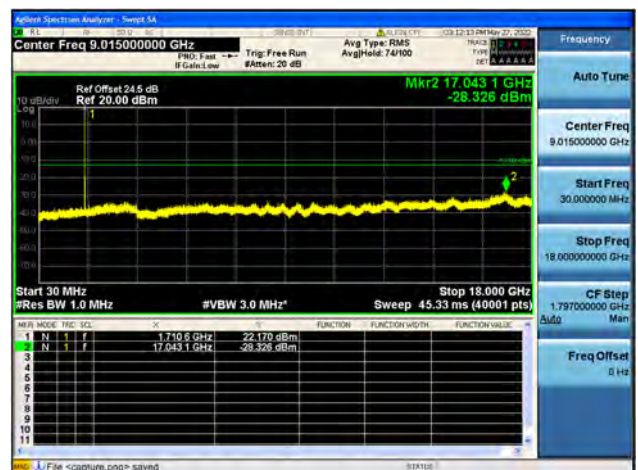
Band66 / 3MHz / Low CH / QPSK



Band66 / 3MHz / Low CH / 16QAM

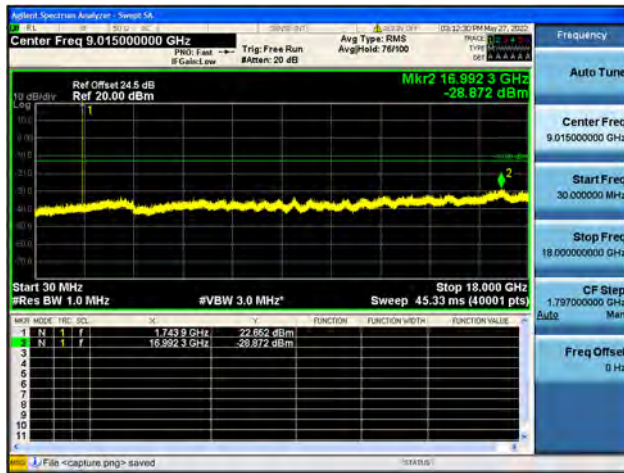


Band66 / 3MHz / Low CH / 64QAM

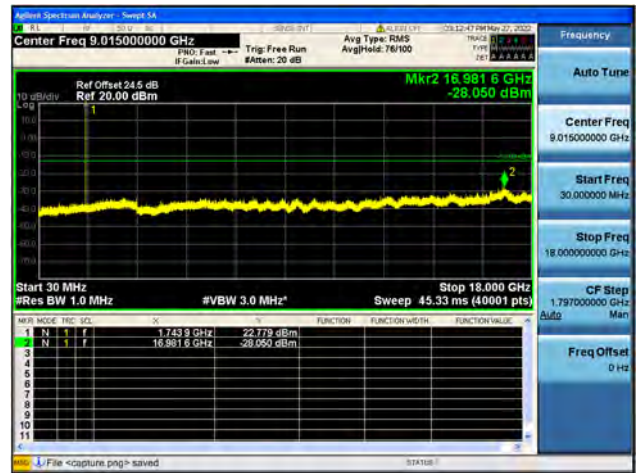




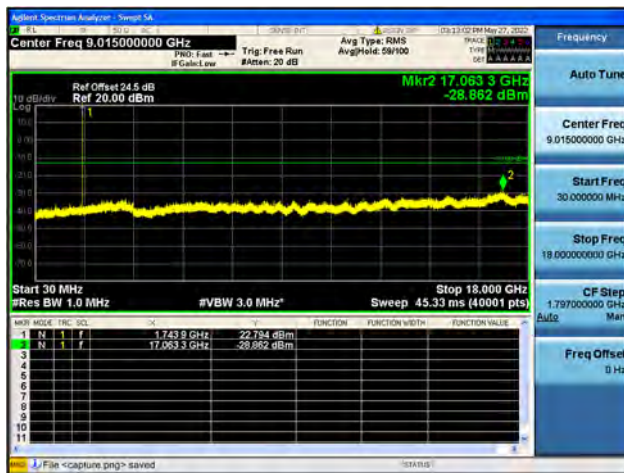
Band66 / 3MHz / Mid CH / QPSK



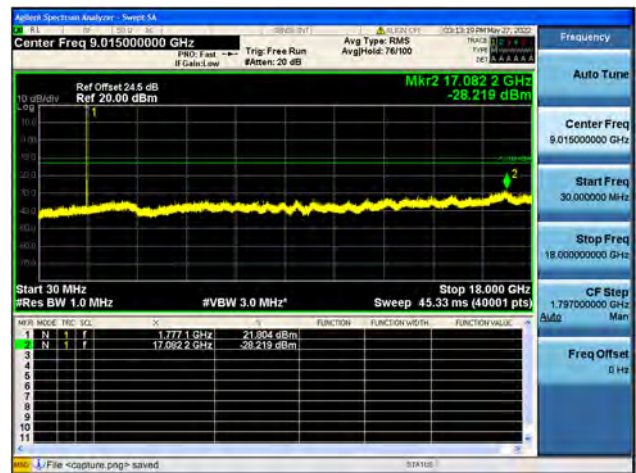
Band66 / 3MHz / Mid CH / 16QAM



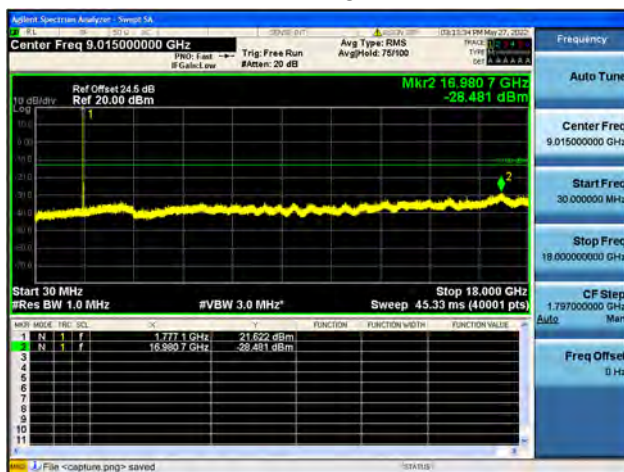
Band66 / 3MHz / Mid CH / 64QAM



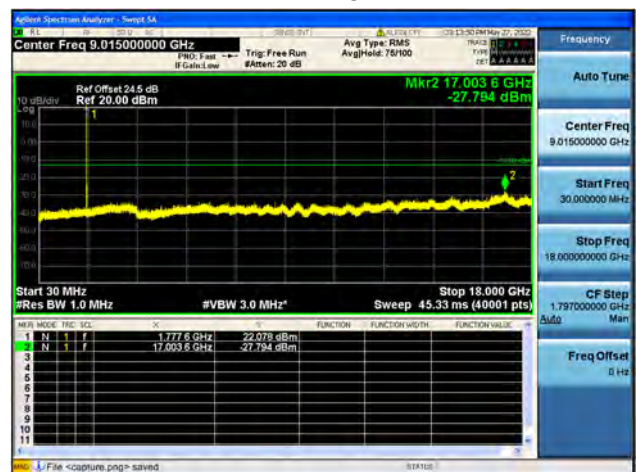
Band66 / 3MHz / High CH / QPSK



Band66 / 3MHz / High CH / 16QAM

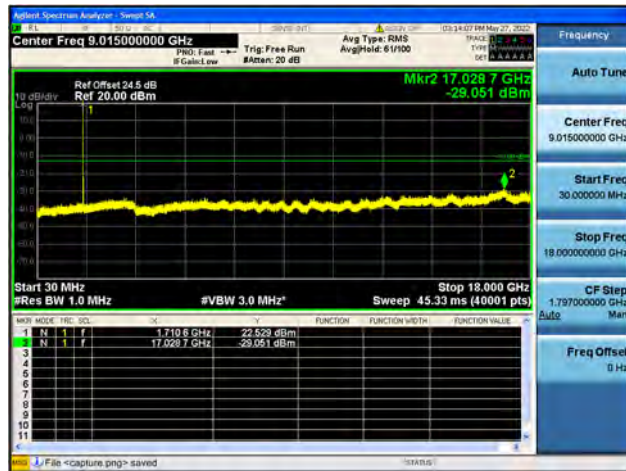


Band66 / 3MHz / High CH / 64QAM

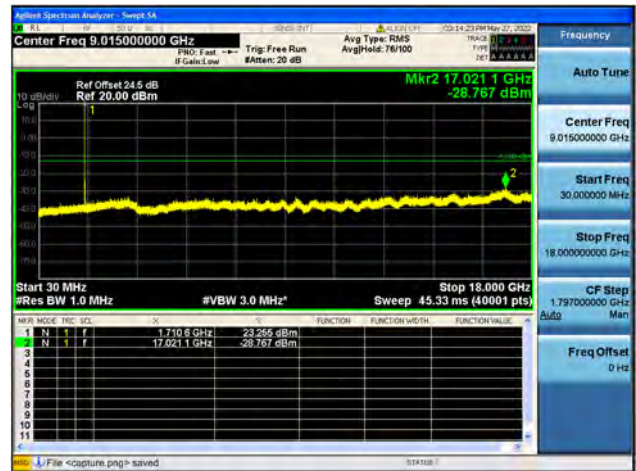




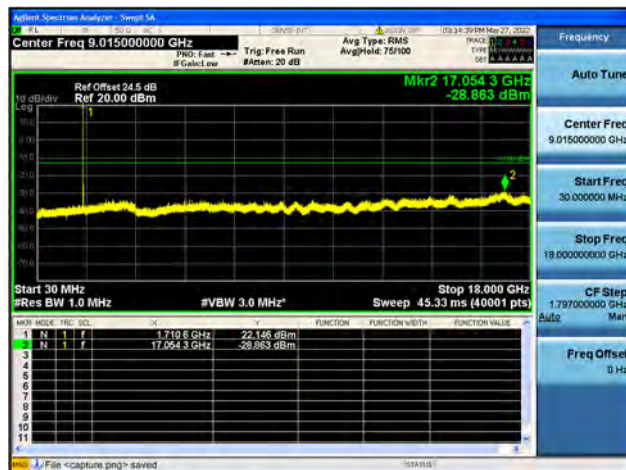
Band66 / 5MHz / Low CH / QPSK



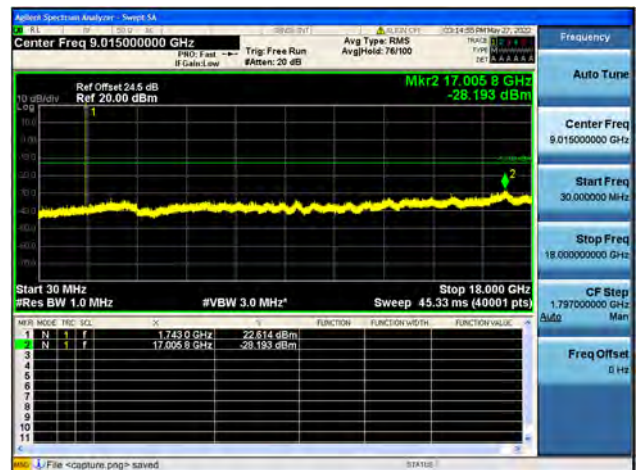
Band66 / 5MHz / Low CH / 16QAM



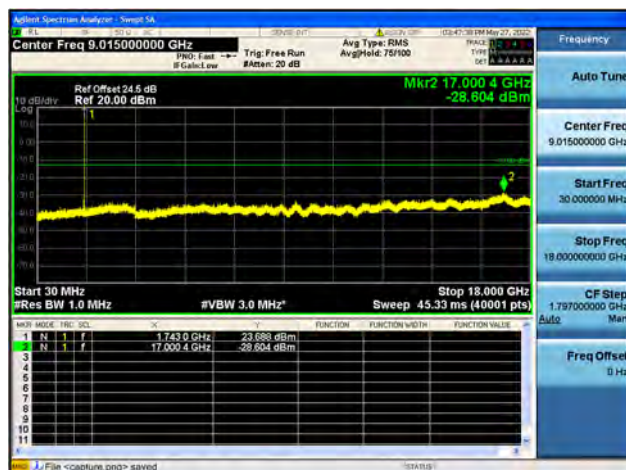
Band66 / 5MHz / Low CH / 64QAM



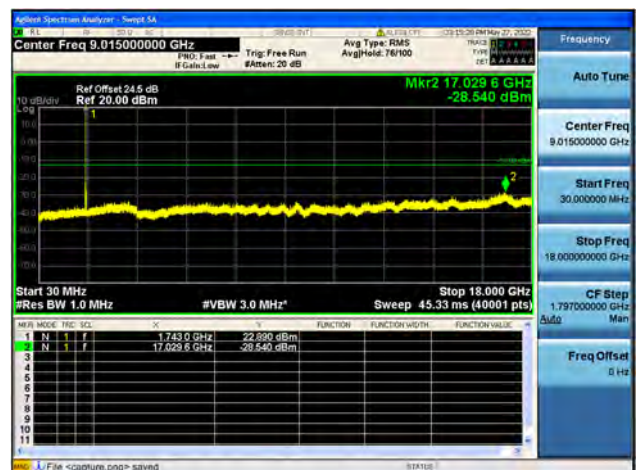
Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM

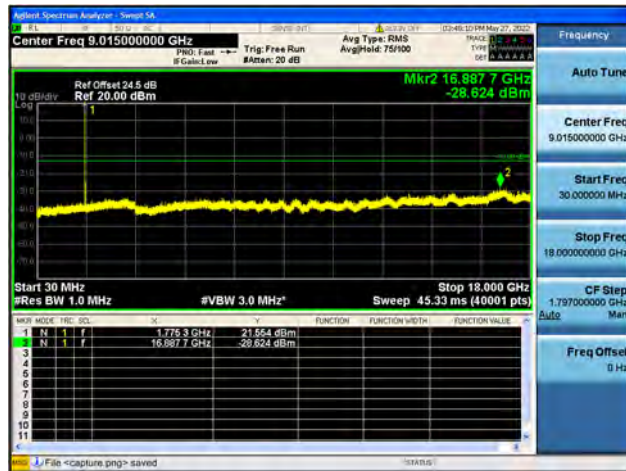


Band66 / 5MHz / Mid CH / 64QAM

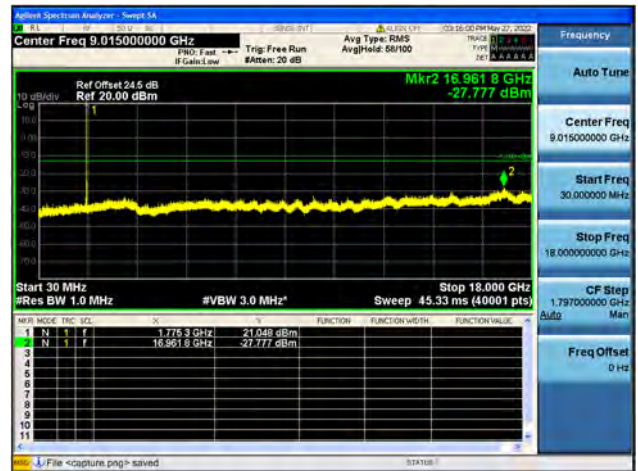




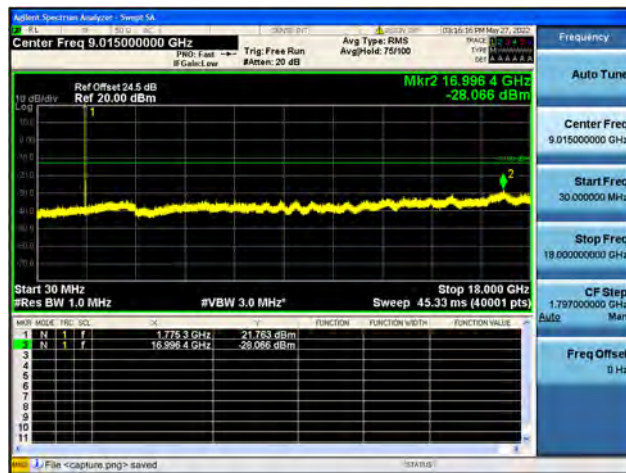
Band66 / 5MHz / High CH / QPSK



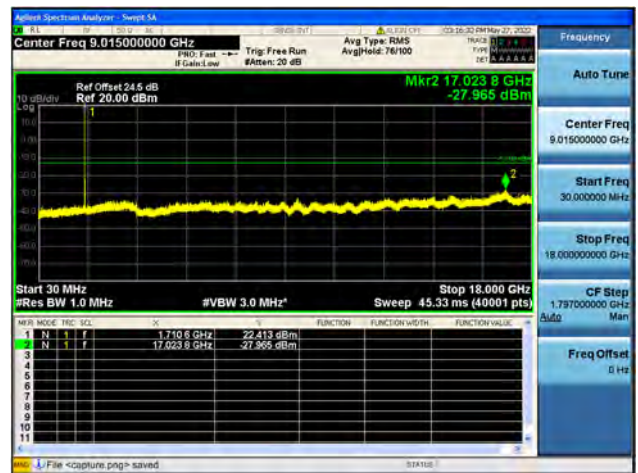
Band66 / 5MHz / High CH / 16QAM



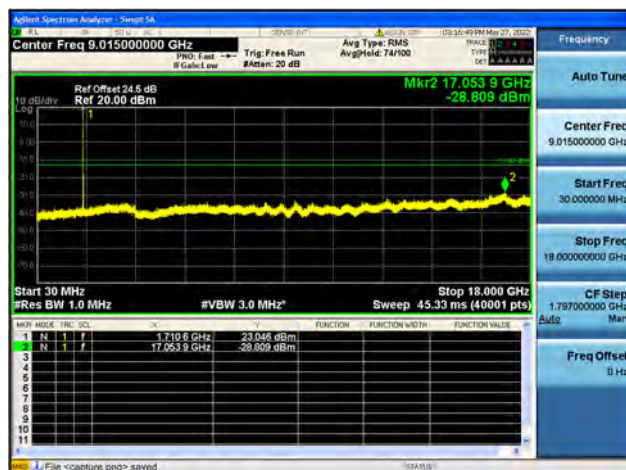
Band66 / 5MHz / High CH / 64QAM



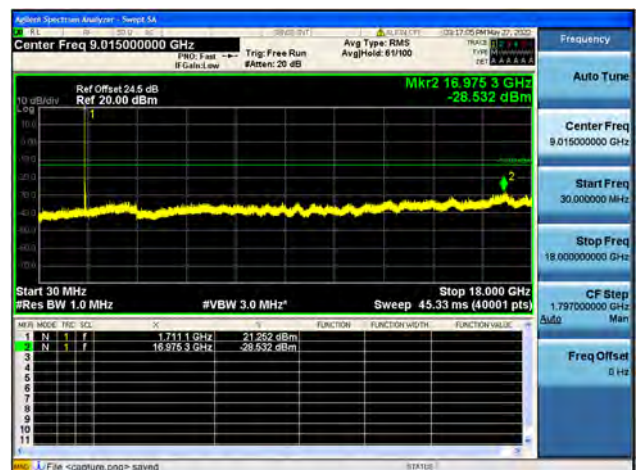
Band66 / 10MHz / Low CH / QPSK



Band66 / 10MHz / Low CH / 16QAM

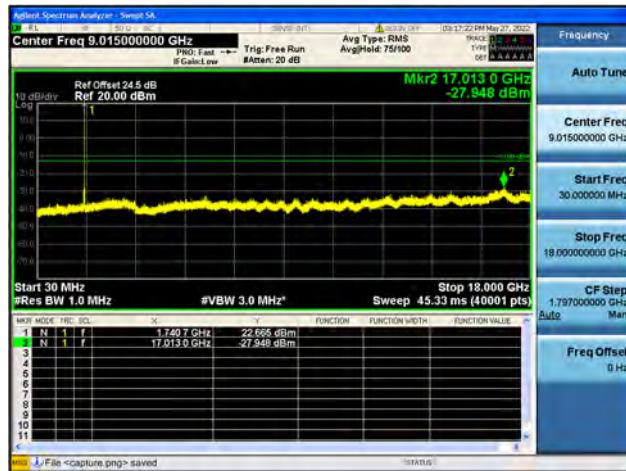


Band66 / 10MHz / Low CH / 64QAM

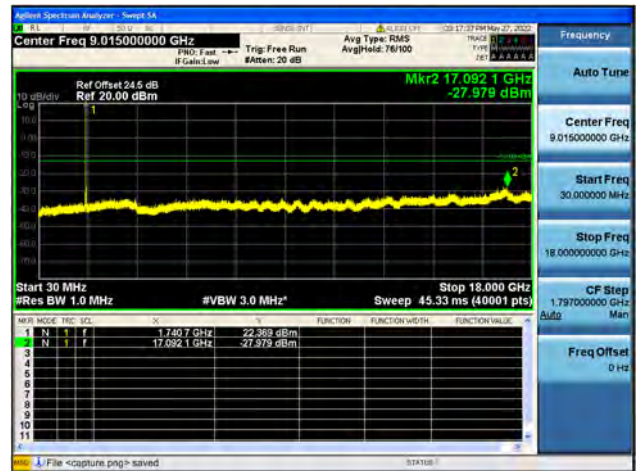




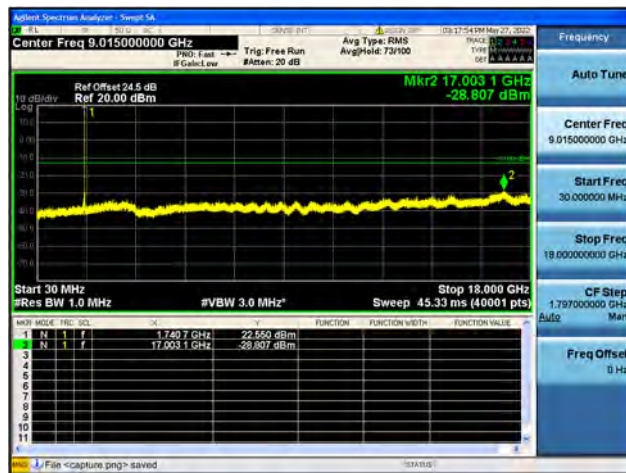
Band66 / 10MHz / Mid CH / QPSK



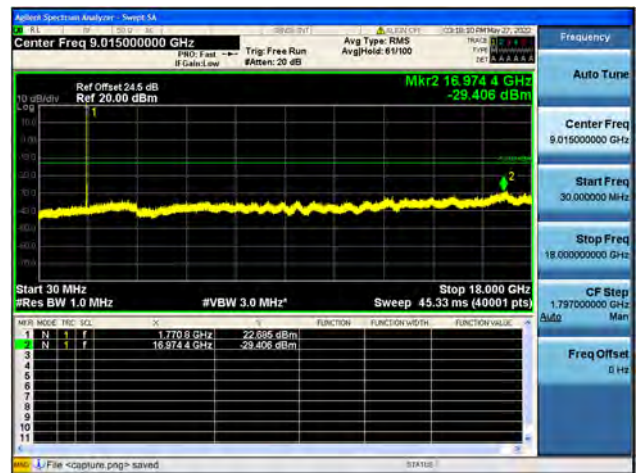
Band66 / 10MHz / Mid CH / 16QAM



Band66 / 10MHz / Mid CH / 64QAM



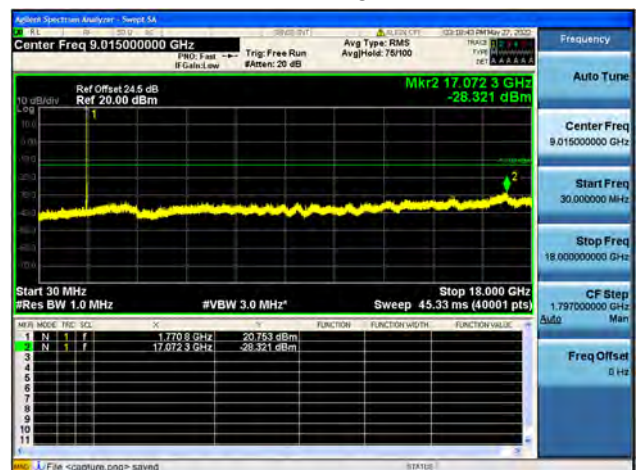
Band66 / 10MHz / High CH / QPSK



Band66 / 10MHz / High CH / 16QAM

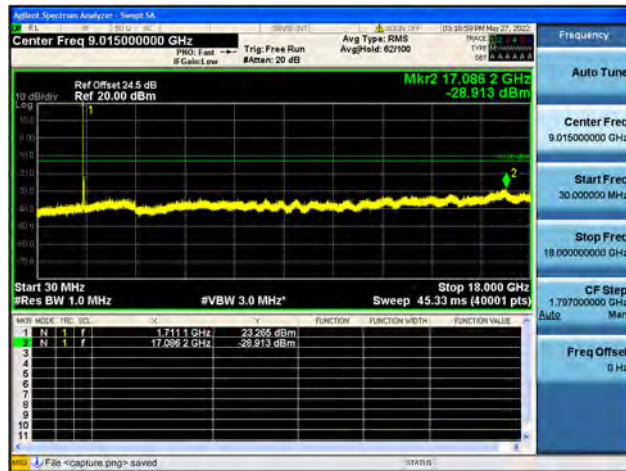


Band66 / 10MHz / High CH / 64QAM

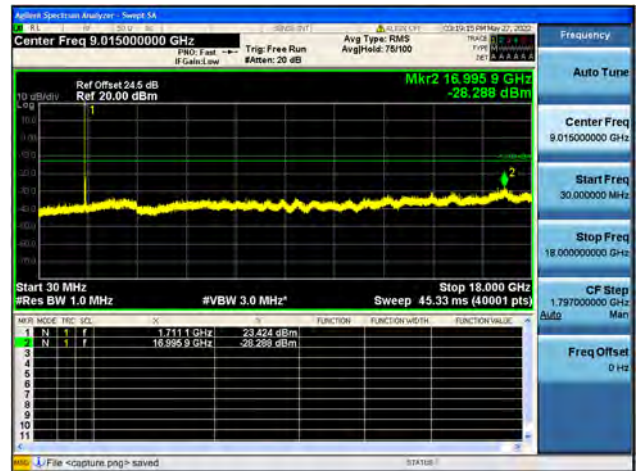




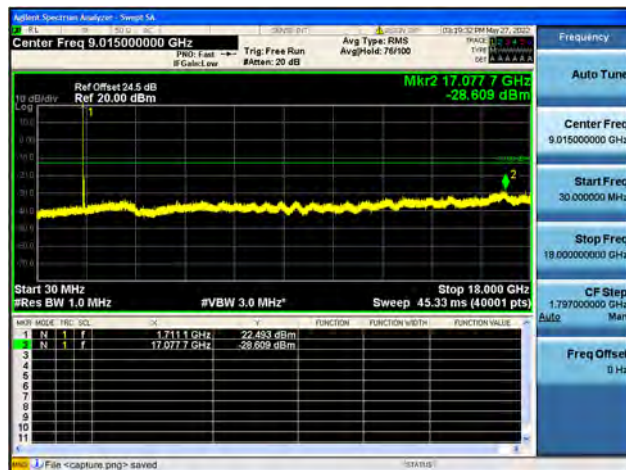
Band66 / 15MHz / Low CH / QPSK



Band66 / 15MHz / Low CH / 16QAM



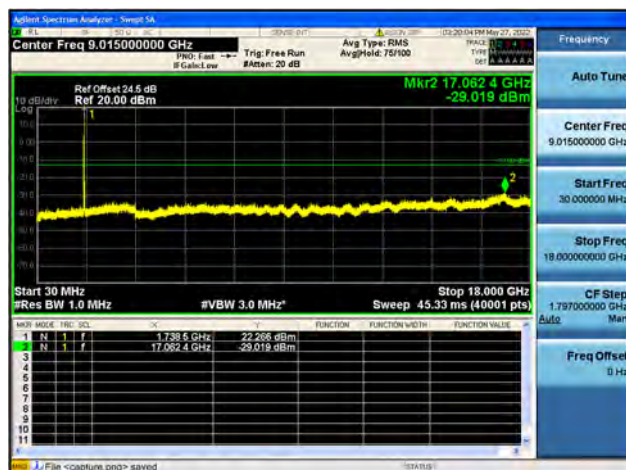
Band66 / 15MHz / Low CH / 64QAM



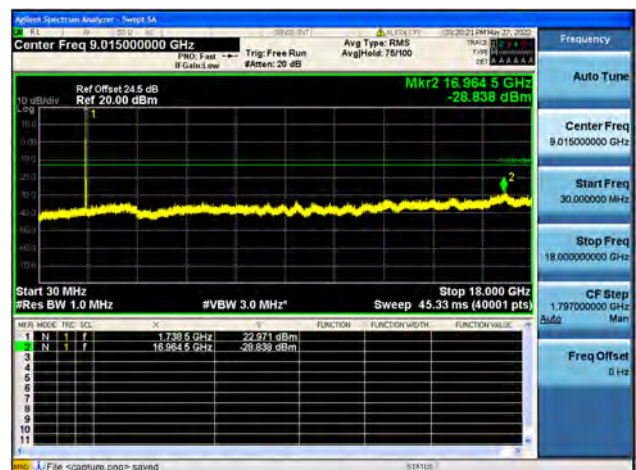
Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM

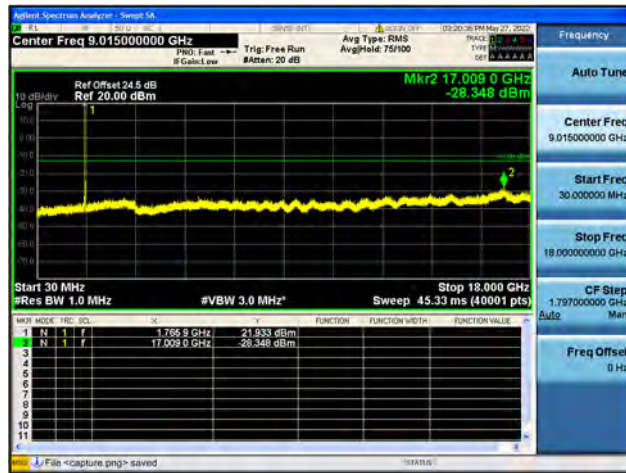


Band66 / 15MHz / Mid CH / 64QAM

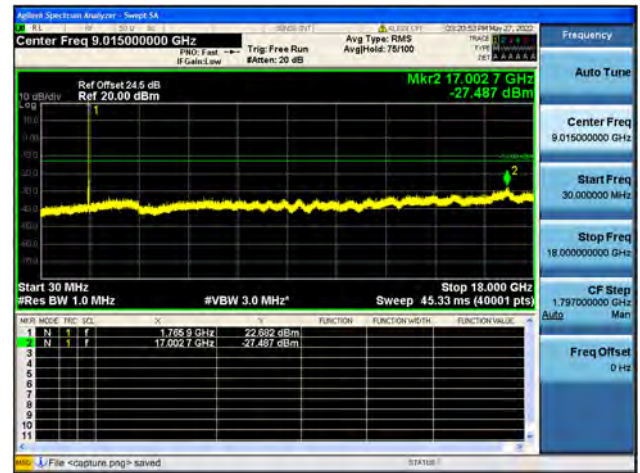




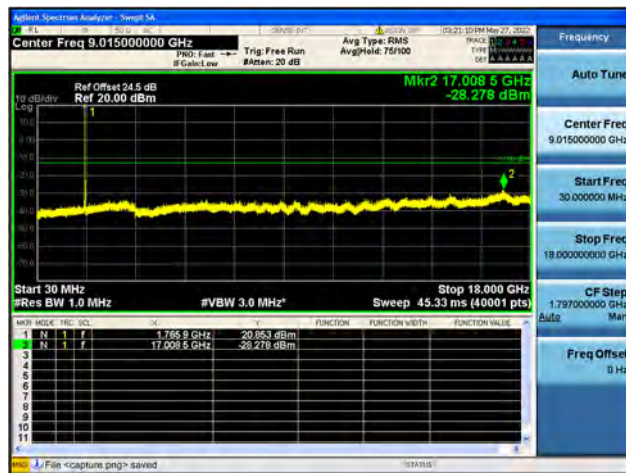
Band66 / 15MHz / High CH / QPSK



Band66 / 15MHz / High CH / 16QAM



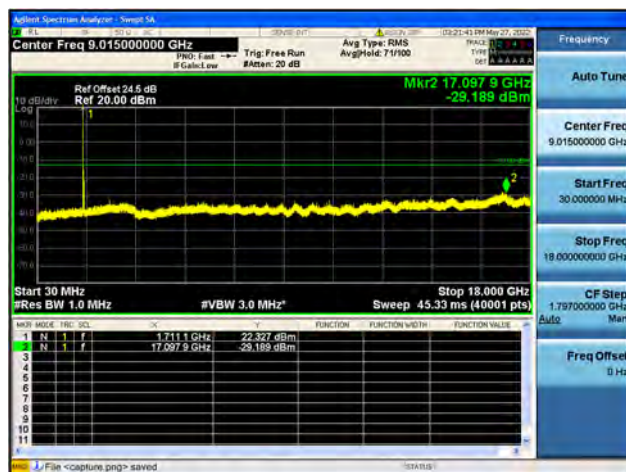
Band66 / 15MHz / High CH / 64QAM



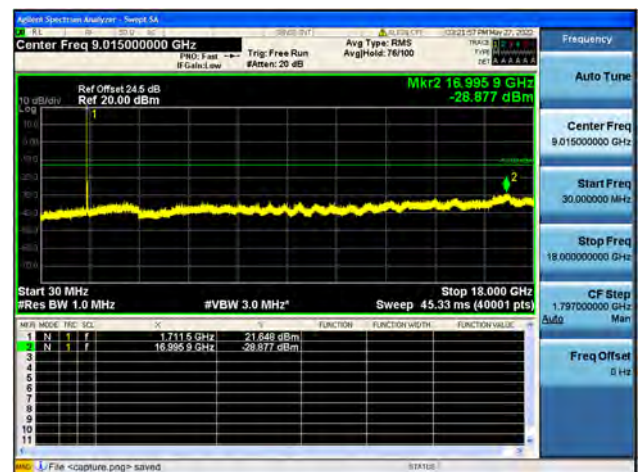
Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM

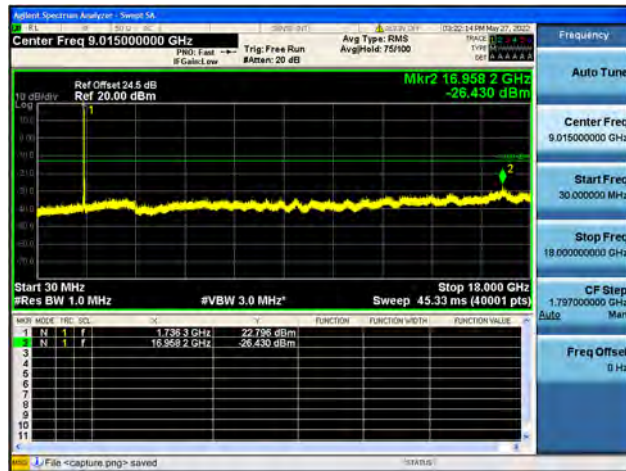


Band66 / 20MHz / Low CH / 64QAM

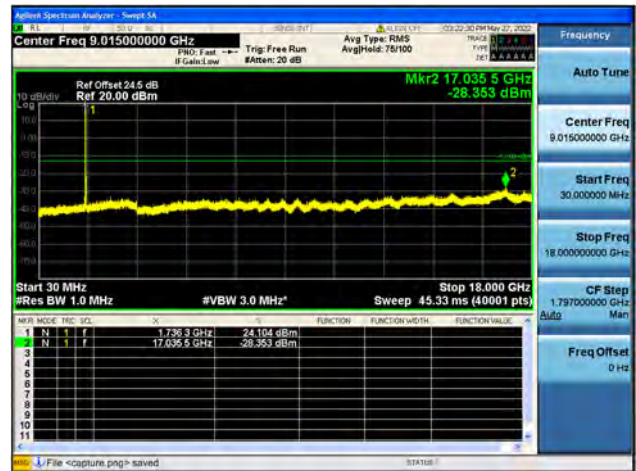




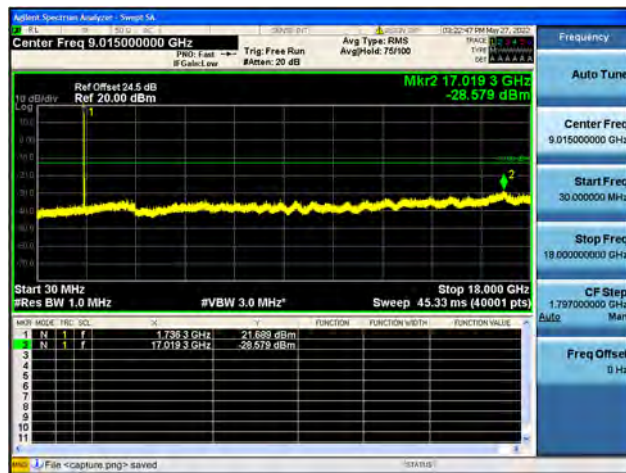
Band66 / 20MHz / Mid CH / QPSK



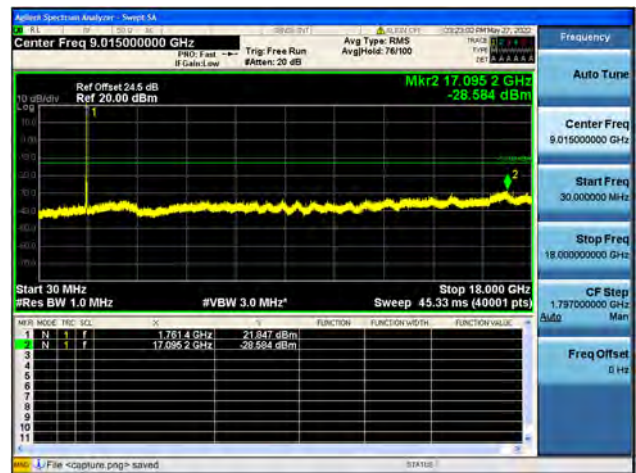
Band66 / 20MHz / Mid CH / 16QAM



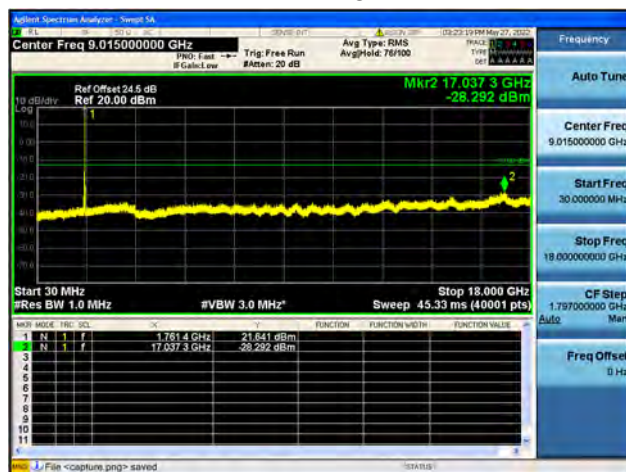
Band66 / 20MHz / Mid CH / 64QAM



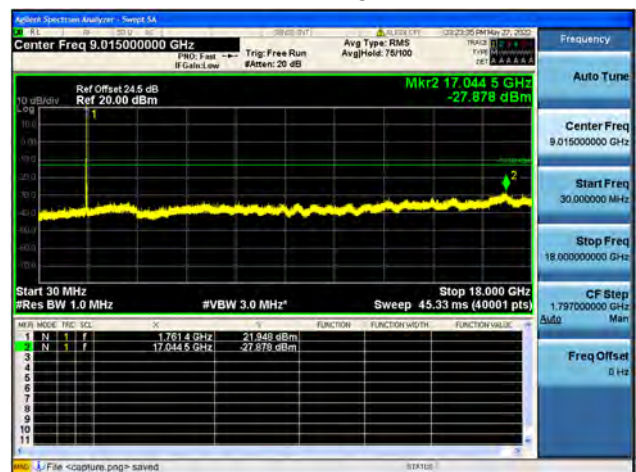
Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



Band66 / 20MHz / High CH / 64QAM



2.6. Band Edge

2.6.1. Requirement

Band 2

According to FCC section 24.238(a), for operations in the 1850–1910MHz bands, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

Band 4, 66

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

Band 5, 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.

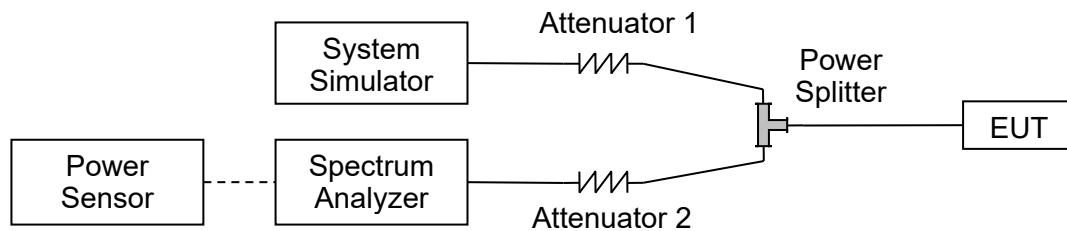
Band 7, 38

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

Band 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.

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





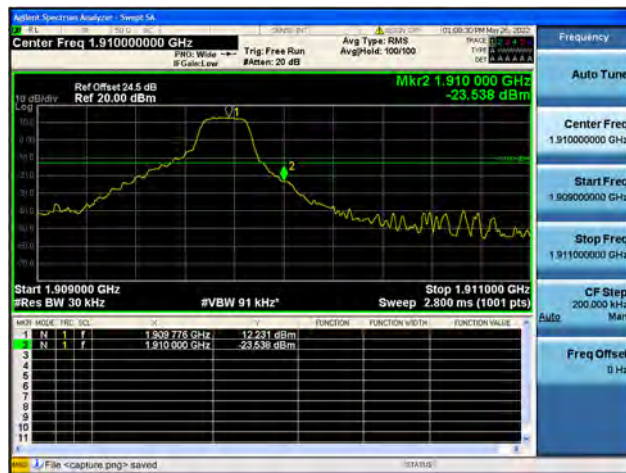
B2 / 3MHz / Low CH / QPSK / 1 RB



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

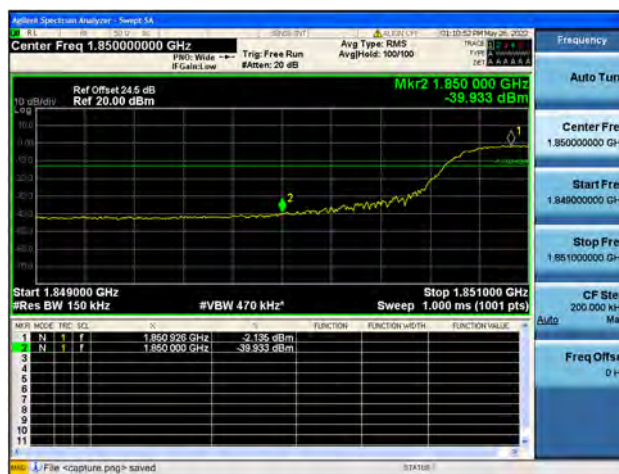




B2 / 15MHz / Low CH / QPSK / 1 RB



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



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



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





B2 / 20MHz / Low CH / QPSK / 1 RB



B2 / 20MHz / Low CH / QPSK / FULL RB



B2 / 20MHz / High CH / QPSK / 1 RB



B2 / 20MHz / High CH / QPSK / FULL RB





B4 / 1.4MHz / Low CH / QPSK / 1 RB



B4 / 1.4MHz / Low CH / QPSK / FULL RB



B4 / 1.4MHz / High CH / QPSK / 1 RB



B4 / 1.4MHz / High CH / QPSK / FULL RB





B4 / 3MHz / Low CH / QPSK / 1 RB



B4 / 3MHz / Low CH / QPSK / FULL RB



B4 / 3MHz / High CH / QPSK / 1 RB

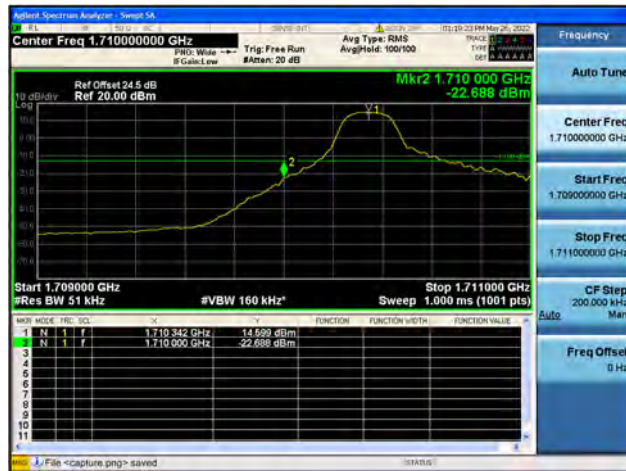


B4 / 3MHz / High CH / QPSK / FULL RB





B4 / 5MHz / Low CH / QPSK / 1 RB



B4 / 5MHz / Low CH / QPSK / FULL RB



B4 / 5MHz / High CH / QPSK / 1 RB



B4 / 5MHz / High CH / QPSK / FULL RB





B4 / 10MHz / Low CH / QPSK / 1 RB



B4 / 10MHz / Low CH / QPSK / FULL RB



B4 / 10MHz / High CH / QPSK / 1 RB



B4 / 10MHz / High CH / QPSK / FULL RB





B4 / 15MHz / Low CH / QPSK / 1 RB



B4 / 15MHz / Low CH / QPSK / FULL RB



B4 / 15MHz / High CH / QPSK / 1 RB



B4 / 15MHz / High CH / QPSK / FULL RB

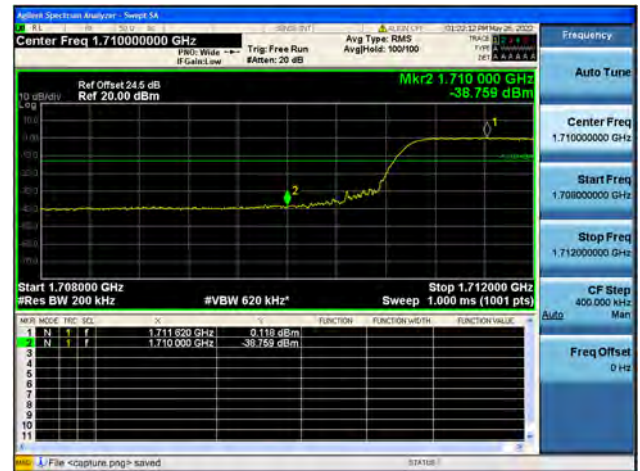




B4 / 20MHz / Low CH / QPSK / 1 RB



B4 / 20MHz / Low CH / QPSK / FULL RB



B4 / 20MHz / High CH / QPSK / 1 RB



B4 / 20MHz / High CH / QPSK / FULL RB





B5 / 1.4MHz / Low CH / QPSK / 1 RB



B5 / 1.4MHz / Low CH / QPSK / FULL RB



B5 / 1.4MHz / High CH / QPSK / 1 RB



B5 / 1.4MHz / High CH / QPSK / FULL RB

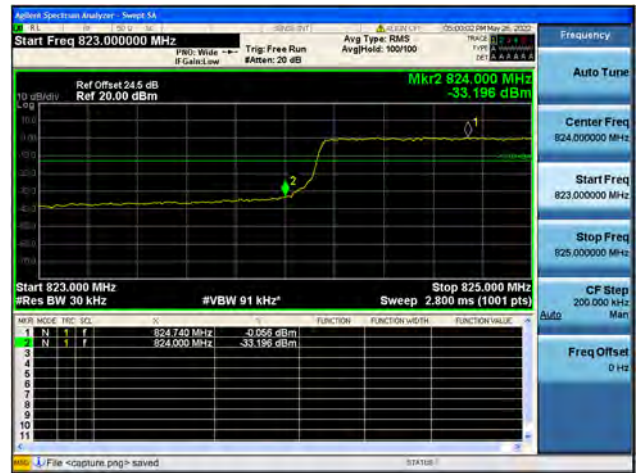




B5 / 3MHz / Low CH / QPSK / 1 RB



B5 / 3MHz / Low CH / QPSK / FULL RB



B5 / 3MHz / High CH / QPSK / 1 RB

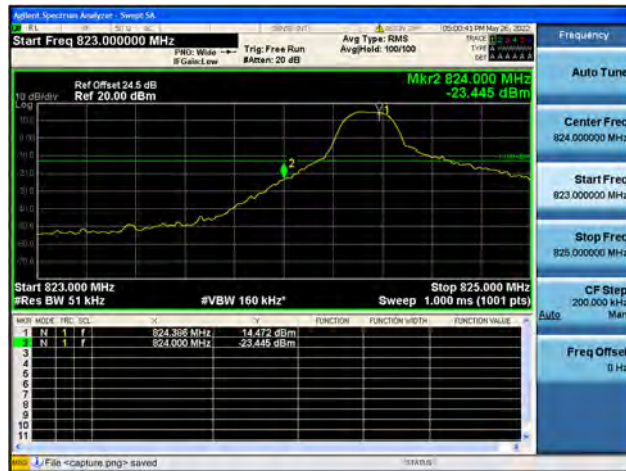


B5 / 3MHz / High CH / QPSK / FULL RB





B5 / 5MHz / Low CH / QPSK / 1 RB



B5 / 5MHz / Low CH / QPSK / FULL RB



B5 / 5MHz / High CH / QPSK / 1 RB



B5 / 5MHz / High CH / QPSK / FULL RB





B5 / 10MHz / Low CH / QPSK / 1 RB



B5 / 10MHz / Low CH / QPSK / FULL RB



B5 / 10MHz / High CH / QPSK / 1 RB

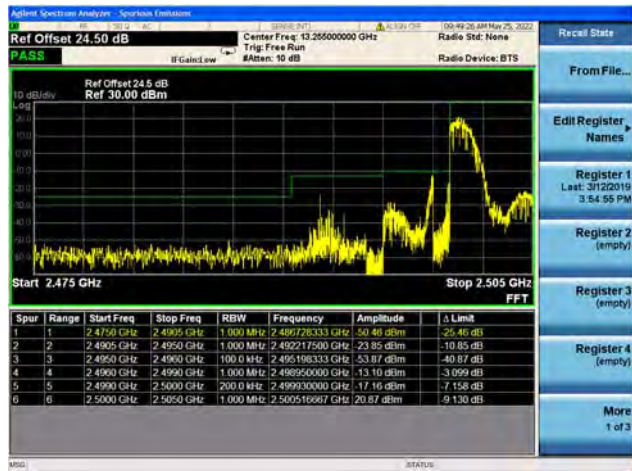


B5 / 10MHz / High CH / QPSK / FULL RB

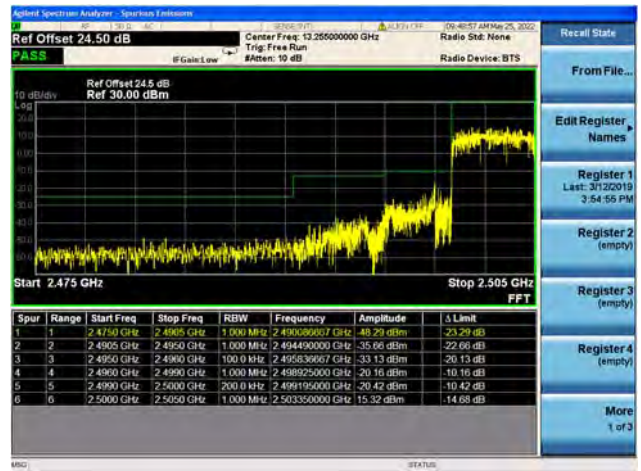




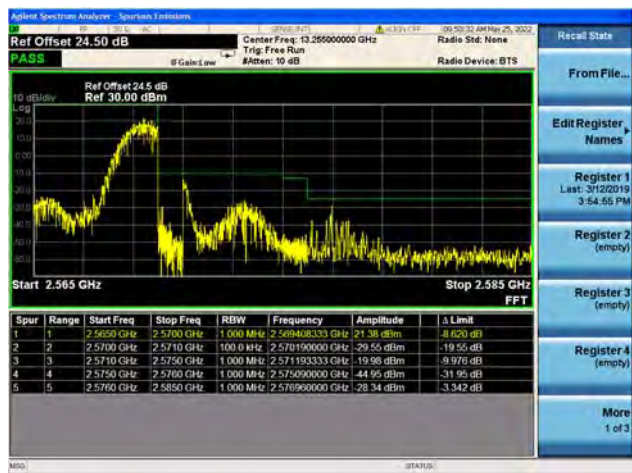
Band7 / 5MHz / Low CH / QPSK / 1 RB



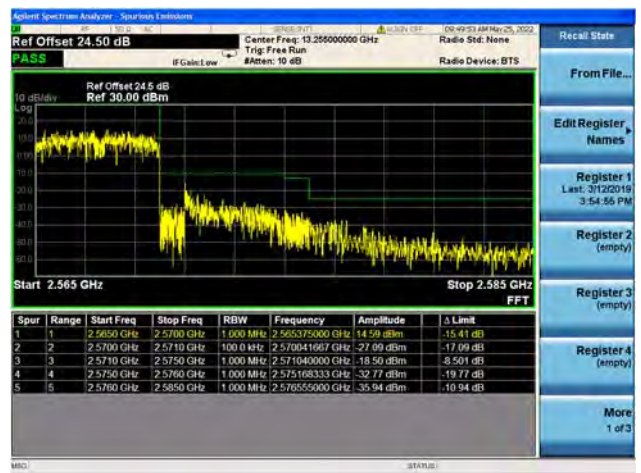
Band7 / 5MHz / Low CH / QPSK / FULL RB



Band7 / 5MHz / High CH / QPSK / 1 RB

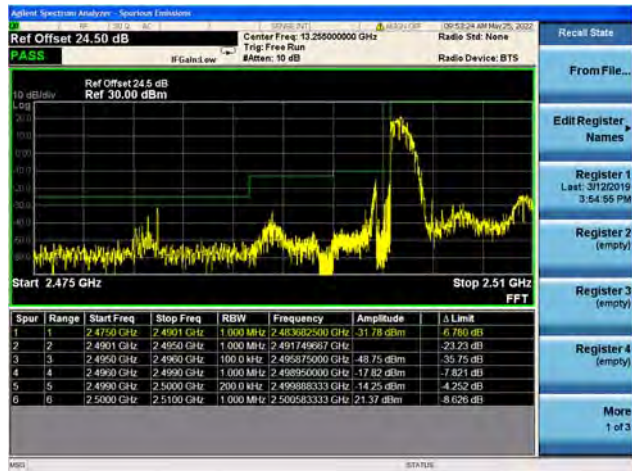


Band7 / 5MHz / High CH / QPSK / FULL RB

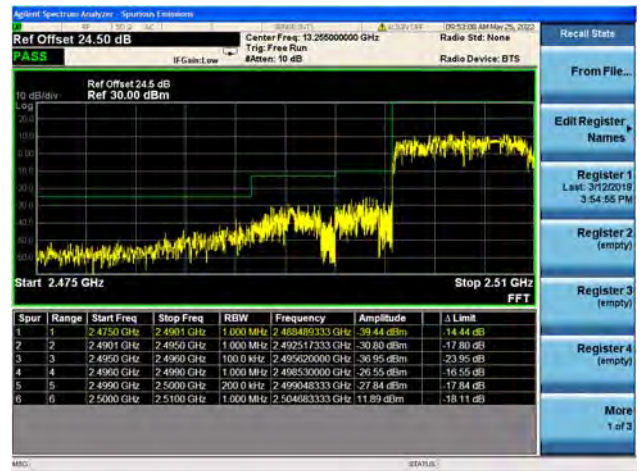




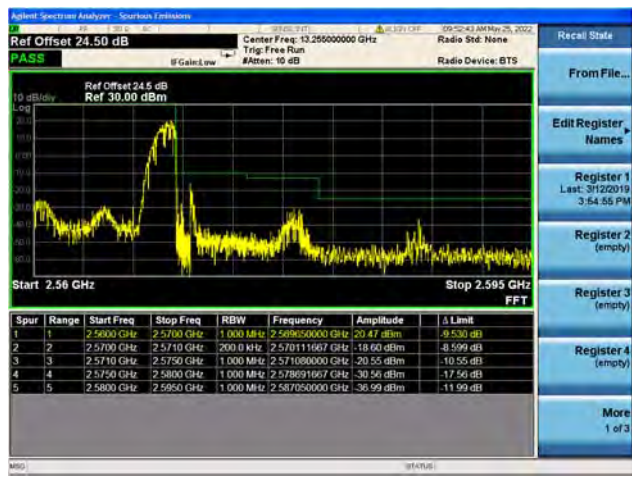
Band7 / 10MHz / Low CH / QPSK / 1 RB



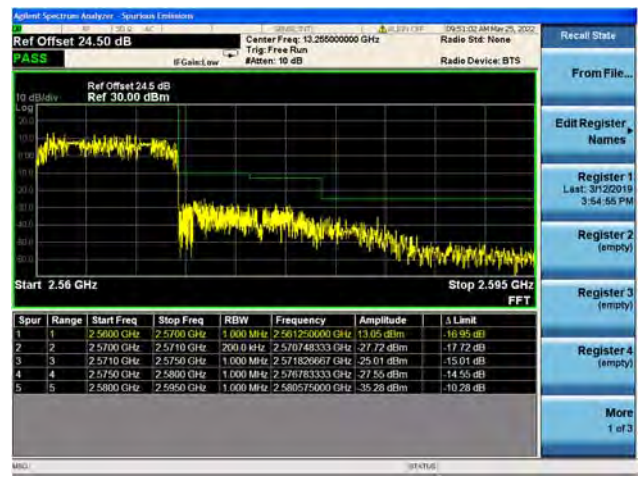
Band7 / 10MHz / Low CH / QPSK / FULL RB



Band7 / 10MHz / High CH / QPSK / 1 RB

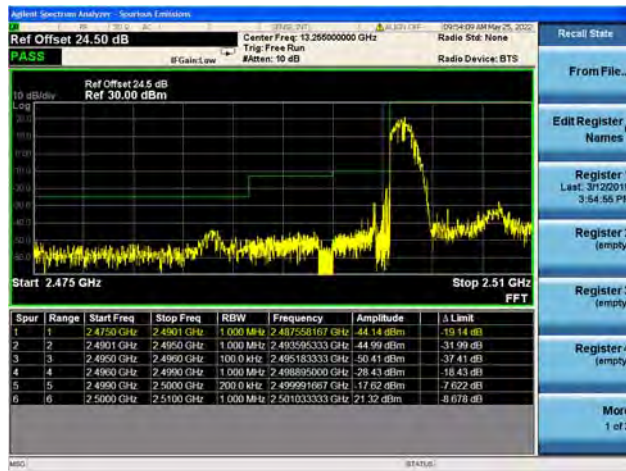


Band7 / 10MHz / High CH / QPSK / FULL RB

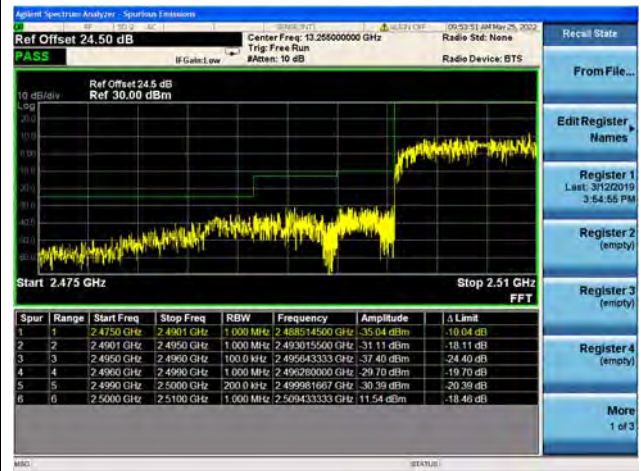




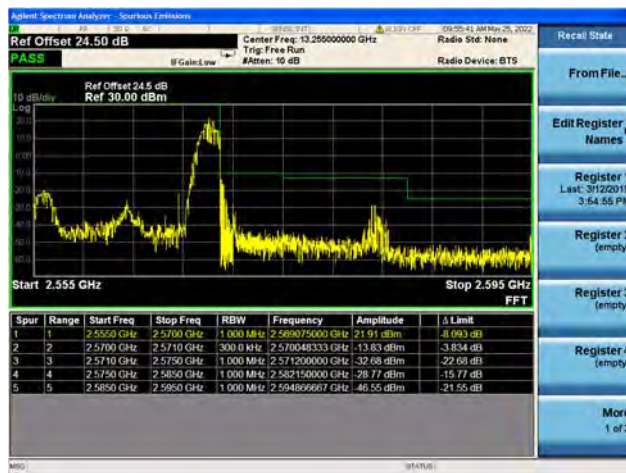
Band7 / 15MHz / Low CH / QPSK / 1 RB



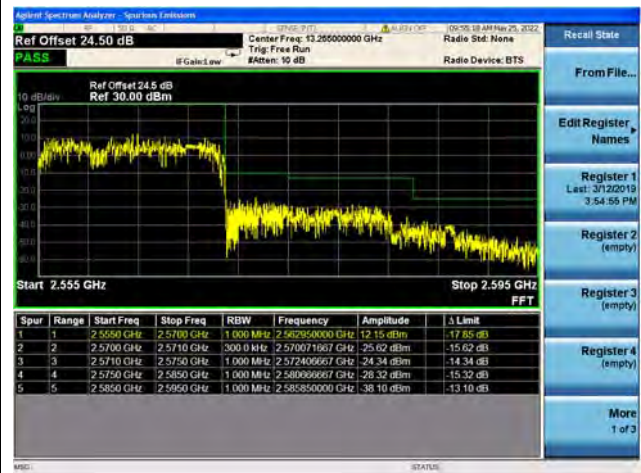
Band7 / 15MHz / Low CH / QPSK / FULL RB



Band7 / 15MHz / High CH / QPSK / 1 RB

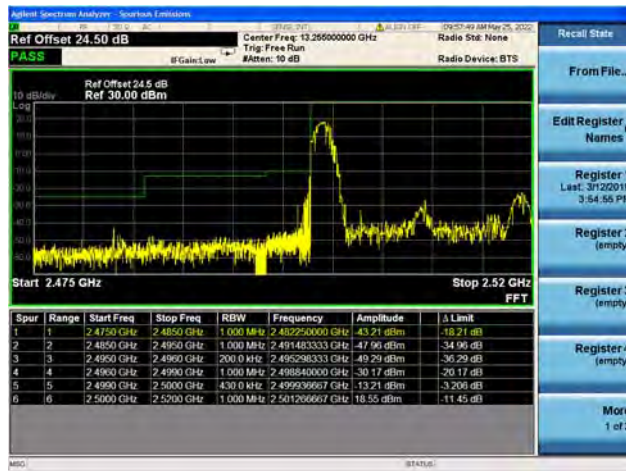


Band7 / 15MHz / High CH / QPSK / FULL RB

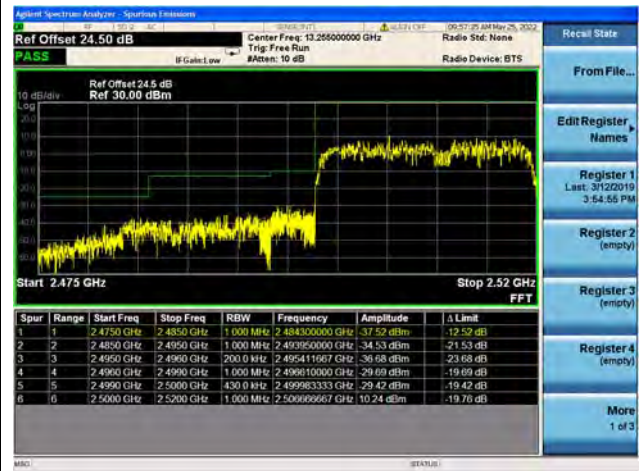




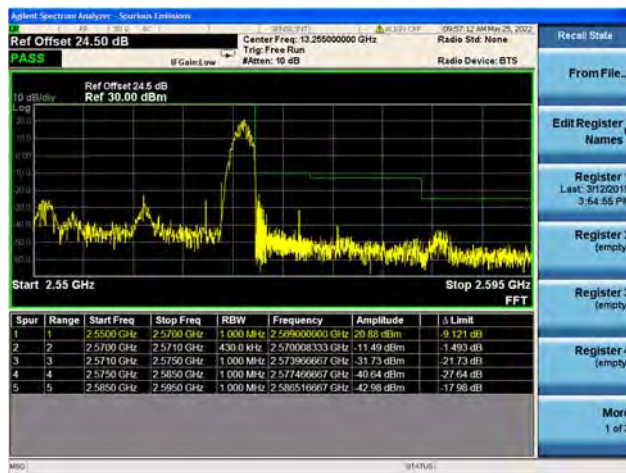
Band7 / 20MHz / Low CH / QPSK / 1 RB



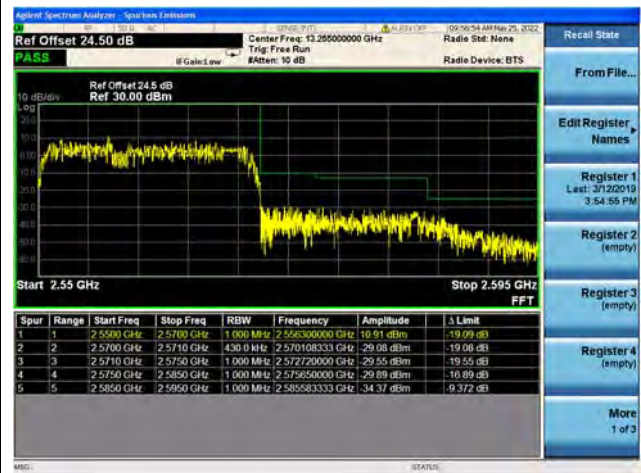
Band7 / 20MHz / Low CH / QPSK / FULL RB



Band7 / 20MHz / High CH / QPSK / 1 RB



Band7 / 20MHz / High CH / QPSK / FULL RB





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



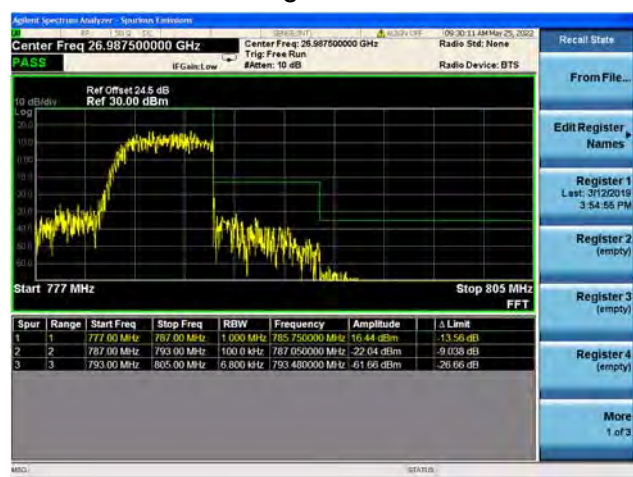
Band13 / 5MHz / Low CH / QPSK / FULL RB



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



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

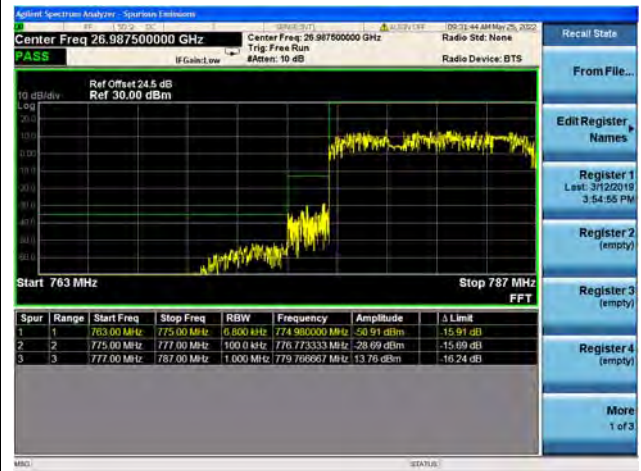




Band13 / 10MHz / Low CH / QPSK / 1 RB



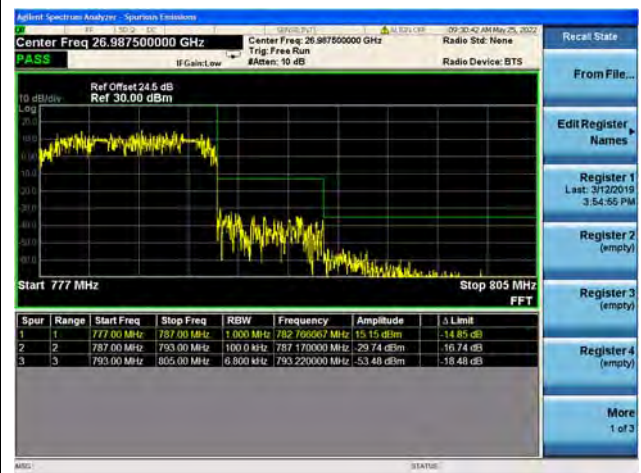
Band13 / 10MHz / Low CH / QPSK / FULL RB



Band13 / 10MHz / High CH / QPSK / 1 RB



Band13 / 10MHz / High CH / QPSK / FULL RB





Band26 / 1.4MHz / Low CH / QPSK / 1 RB



Band26 / 1.4MHz / Low CH / QPSK / FULL RB



Band26 / 1.4MHz / High CH / QPSK / 1 RB



Band26 / 1.4MHz / High CH / QPSK / FULL RB





Band26 / 3MHz / Low CH / QPSK / 1 RB



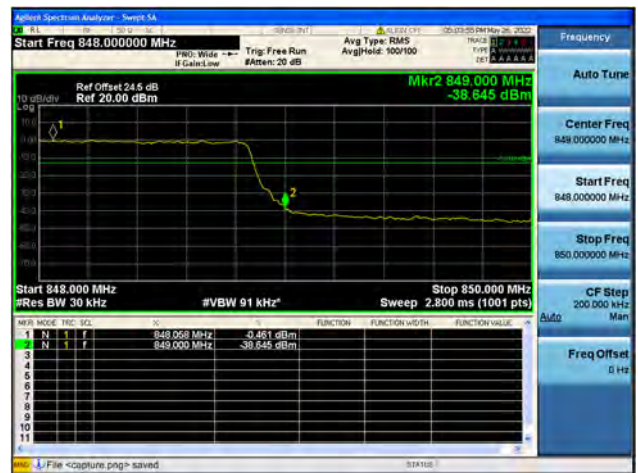
Band26 / 3MHz / Low CH / QPSK / FULL RB



Band26 / 3MHz / High CH / QPSK / 1 RB



Band26 / 3MHz / High CH / QPSK / FULL RB





Band26 / 5MHz / Low CH / QPSK / 1 RB



Band26 / 5MHz / Low CH / QPSK / FULL RB



Band26 / 5MHz / High CH / QPSK / 1 RB



Band26 / 5MHz / High CH / QPSK / FULL RB





Band26 / 10MHz / Low CH / QPSK / 1 RB



Band26 / 10MHz / Low CH / QPSK / FULL RB



Band26 / 10MHz / High CH / QPSK / 1 RB



Band26 / 10MHz / High CH / QPSK / FULL RB





Band26 / 15MHz / Low CH / QPSK / 1 RB



Band26 / 15MHz / Low CH / QPSK / FULL RB



Band26 / 15MHz / High CH / QPSK / 1 RB

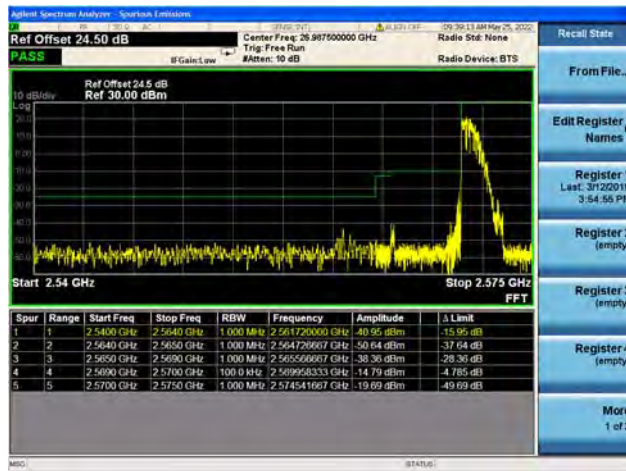


Band26 / 15MHz / High CH / QPSK / FULL RB

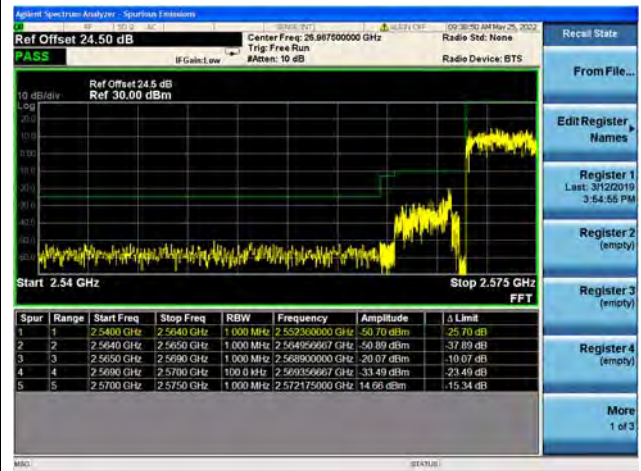




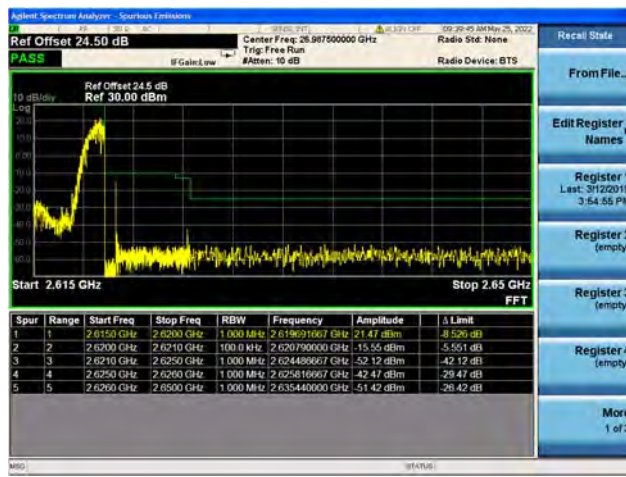
Band38 / 5MHz / Low CH / QPSK / 1 RB



Band38 / 5MHz / Low CH / QPSK / FULL RB



Band38 / 5MHz / High CH / QPSK / 1 RB



Band38 / 5MHz / High CH / QPSK / FULL RB

