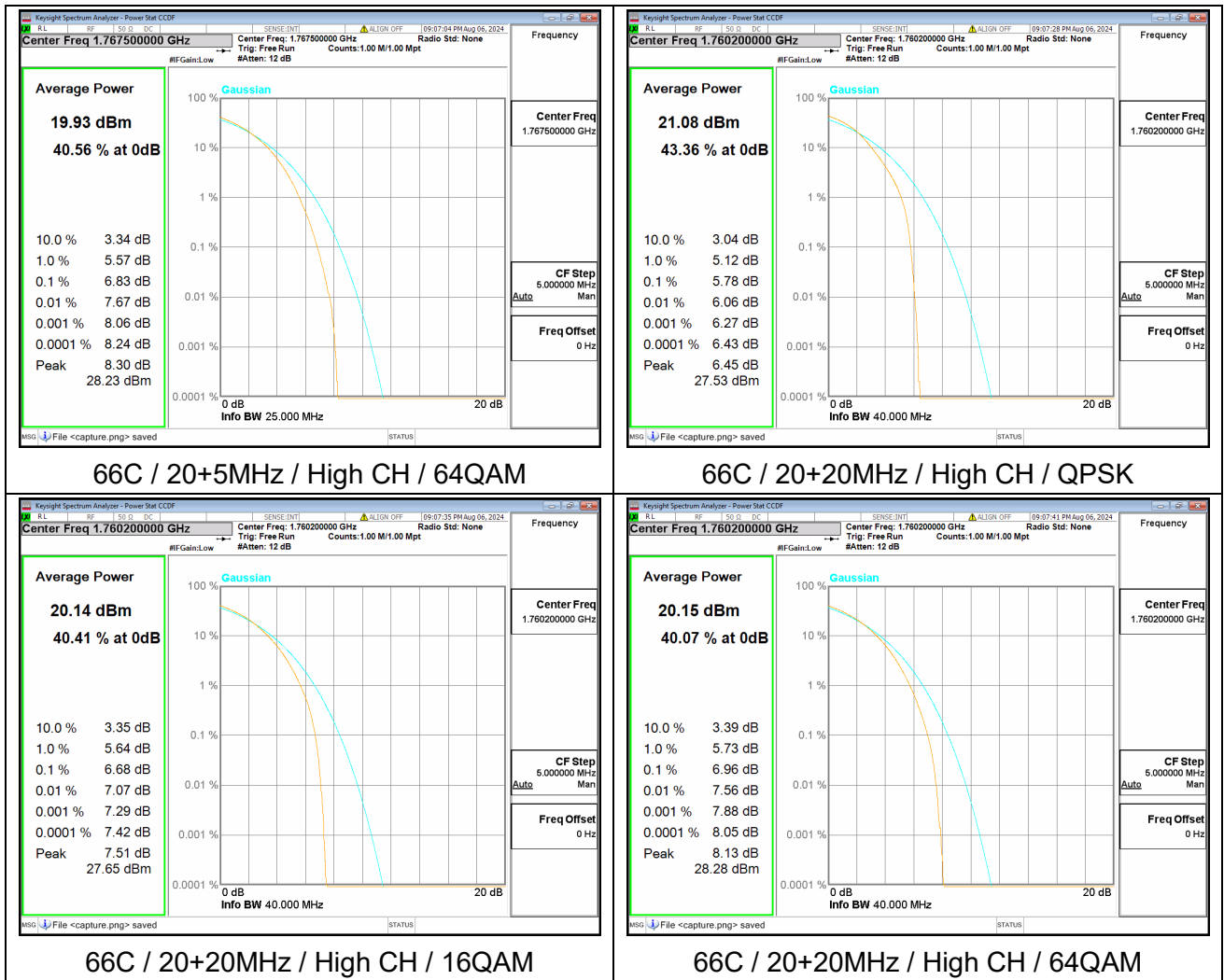




2.5. Band Edge

2.5.1. Requirement

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 48

Part 96.41(e)(1)(i)

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz.

Part 96.41(e)(1)(ii)

For channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz.

Part 96.41(e)(2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

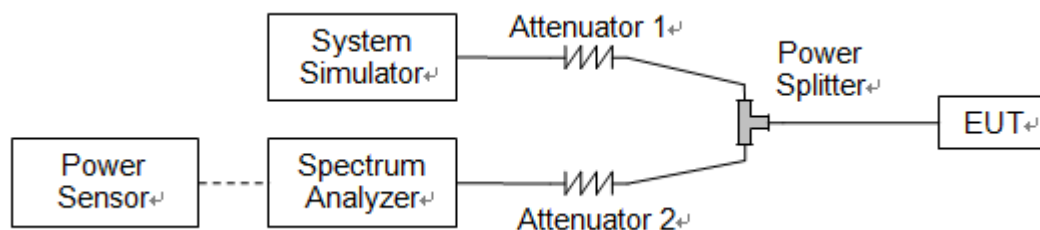
Band 66

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 7

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.

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.

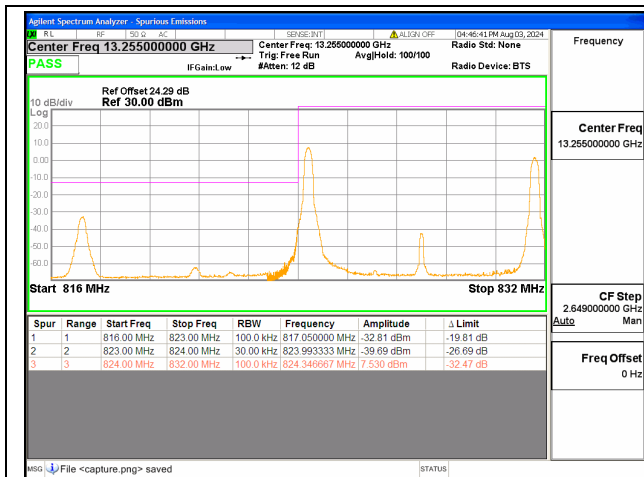
2.5.3. Test Procedure

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

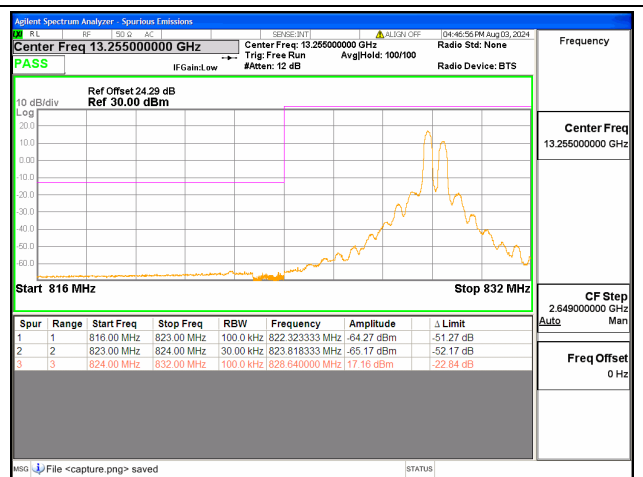


2.5.4. Test Result

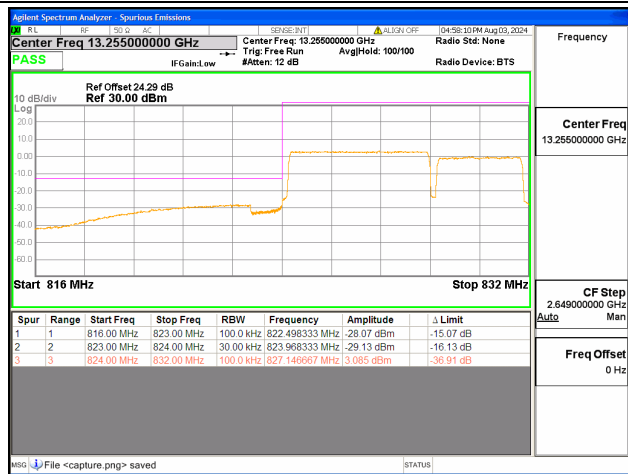




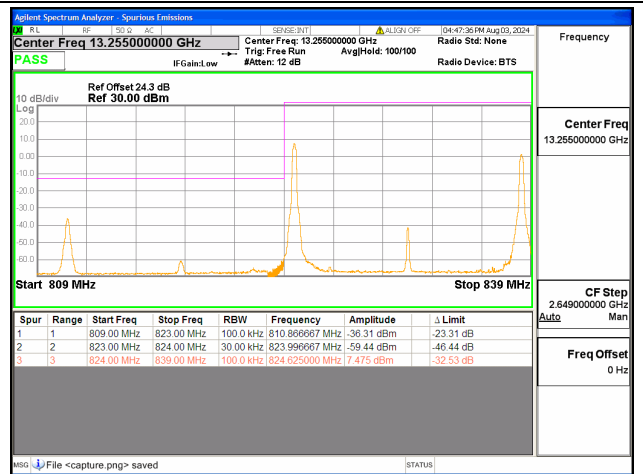
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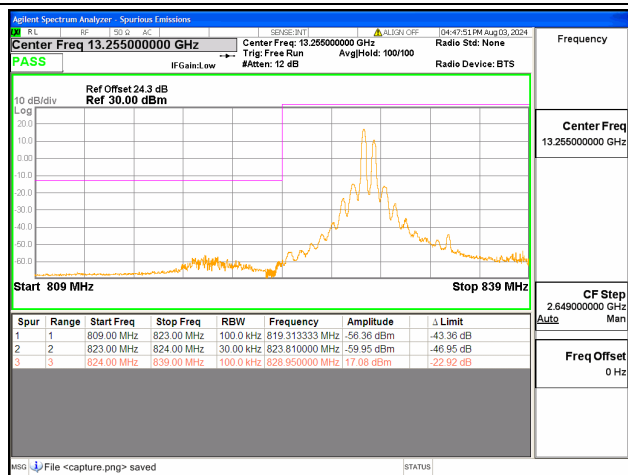
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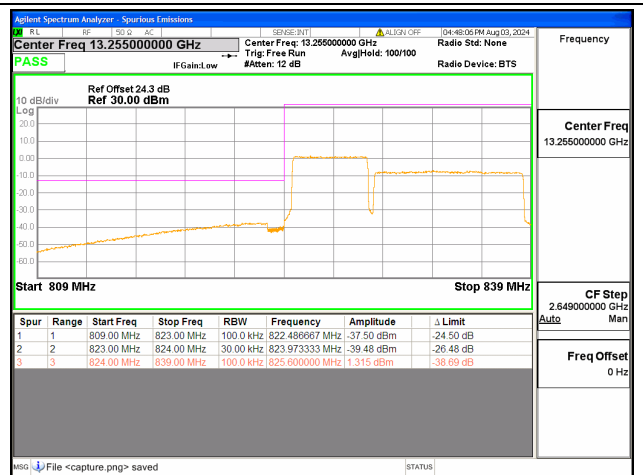
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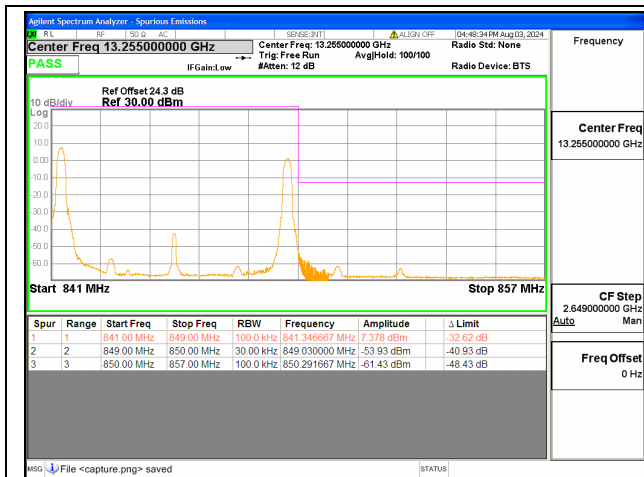
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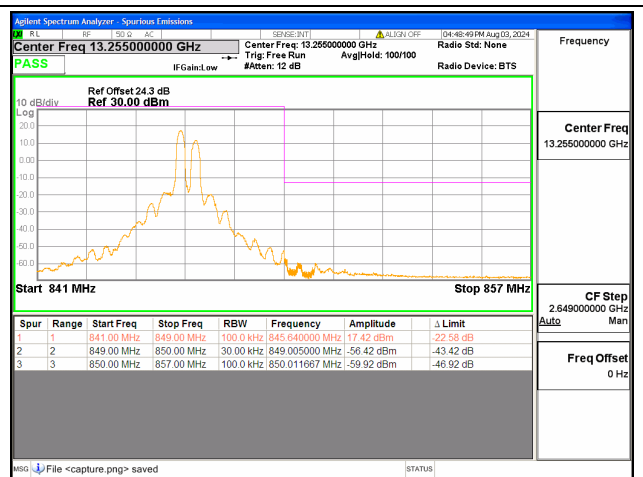
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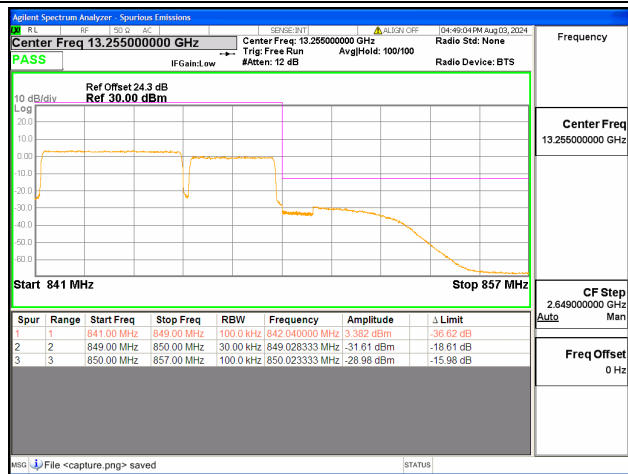
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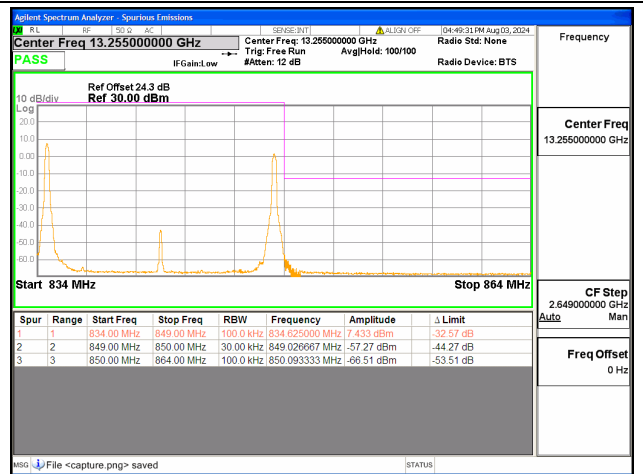
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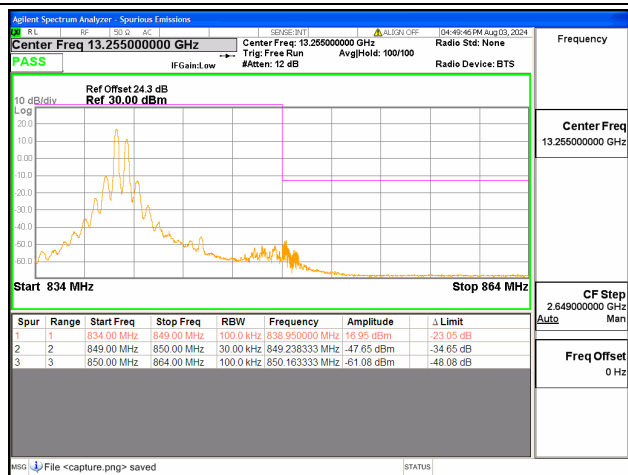
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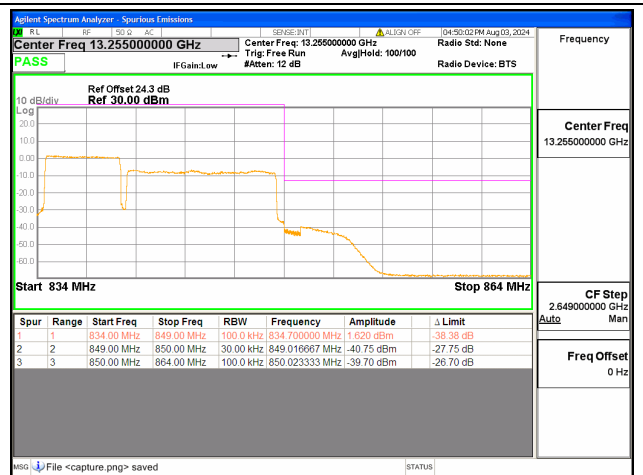
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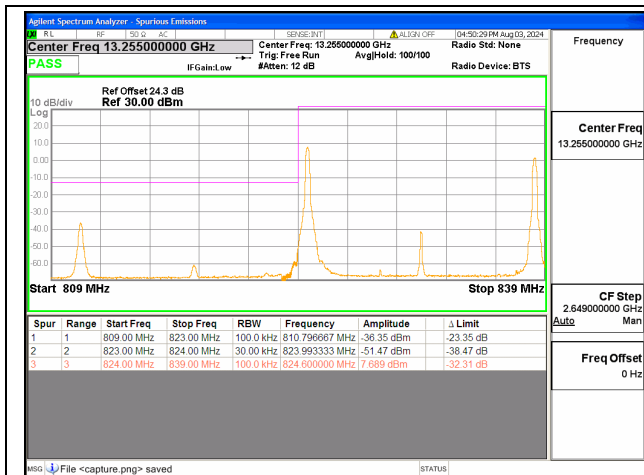
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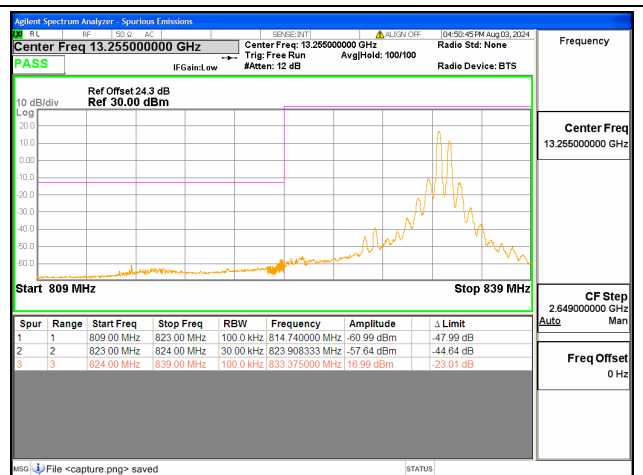
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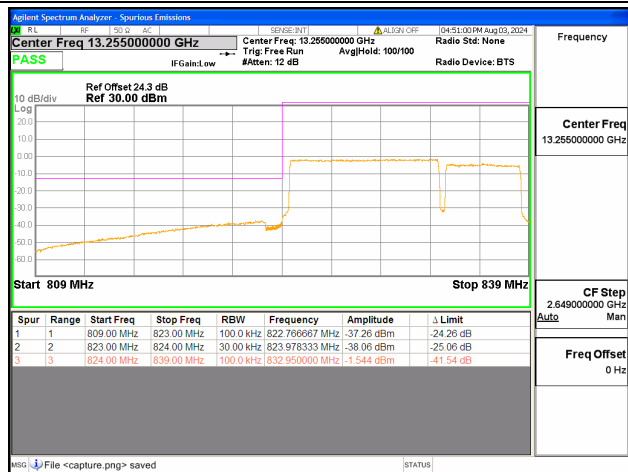
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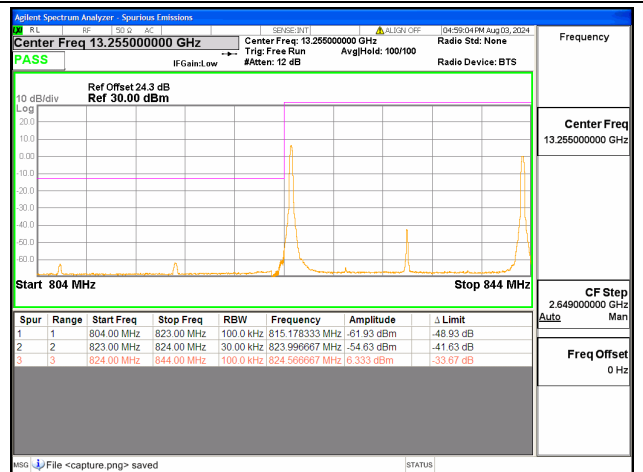
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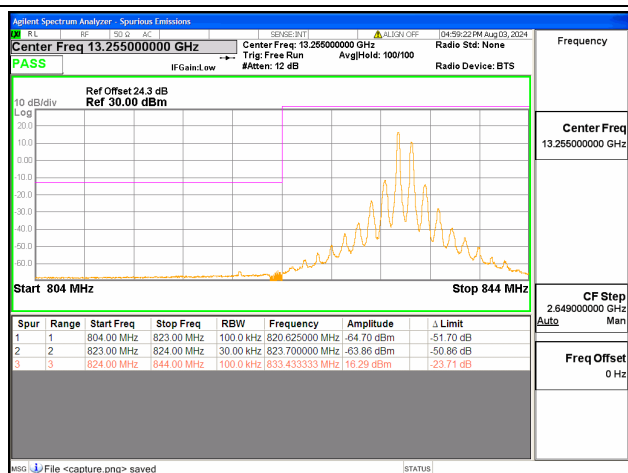
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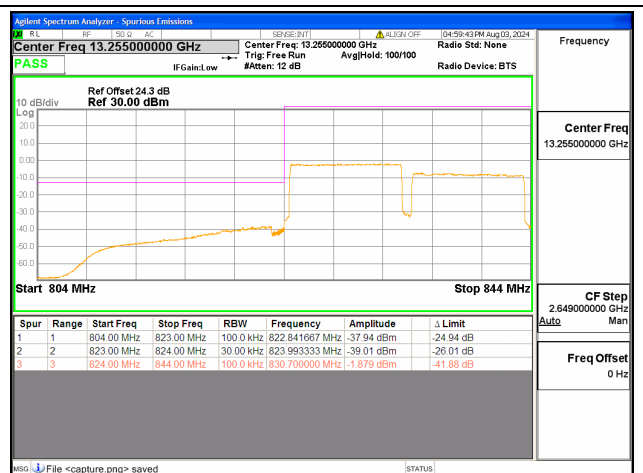
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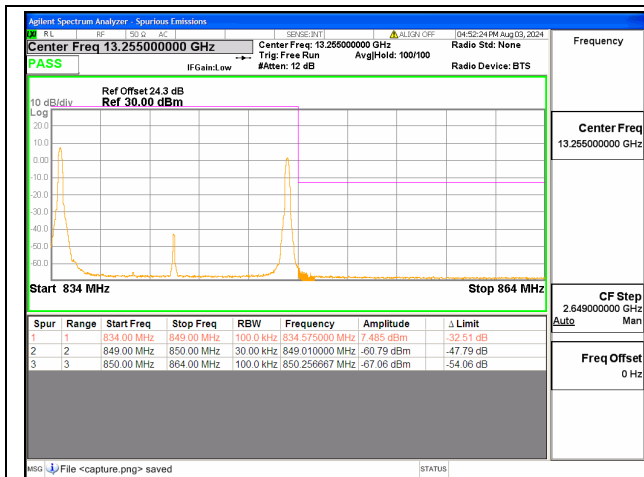
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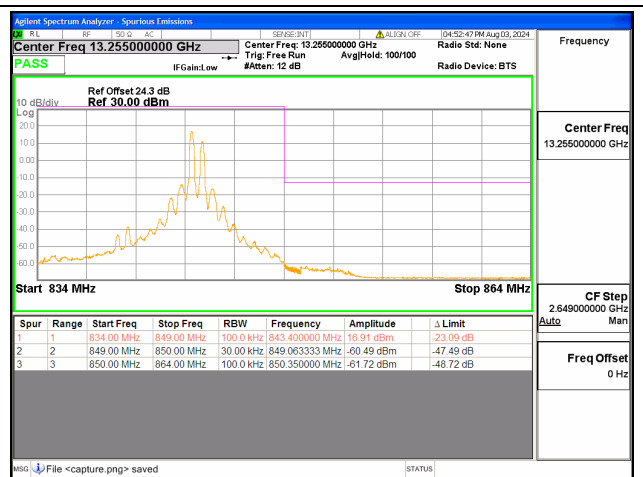
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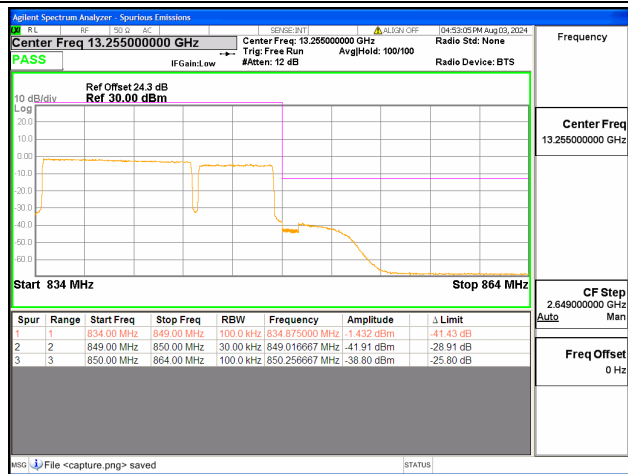
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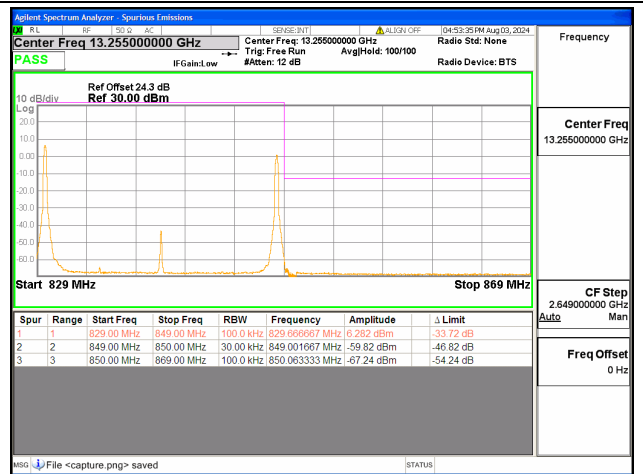
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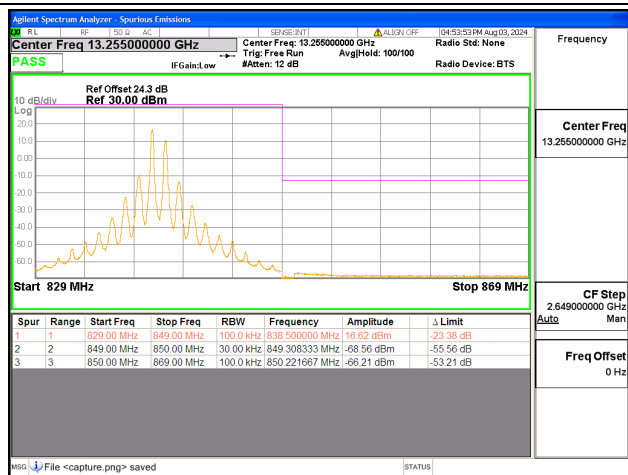
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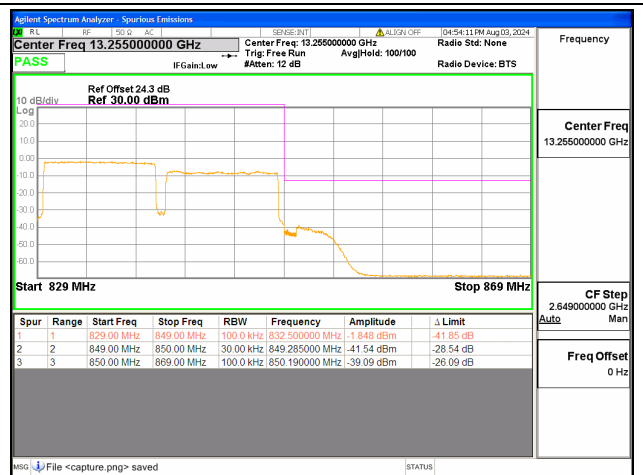
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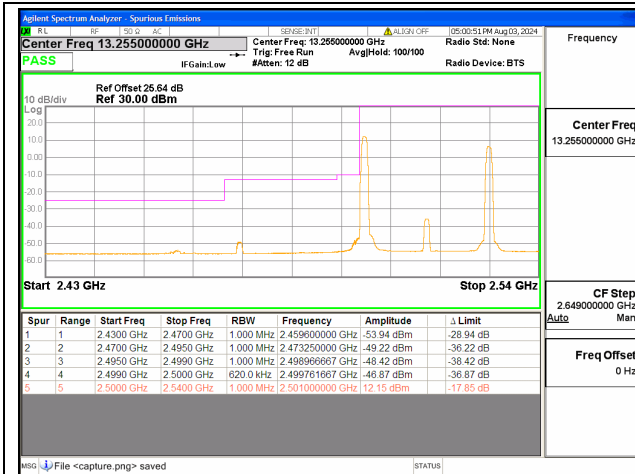
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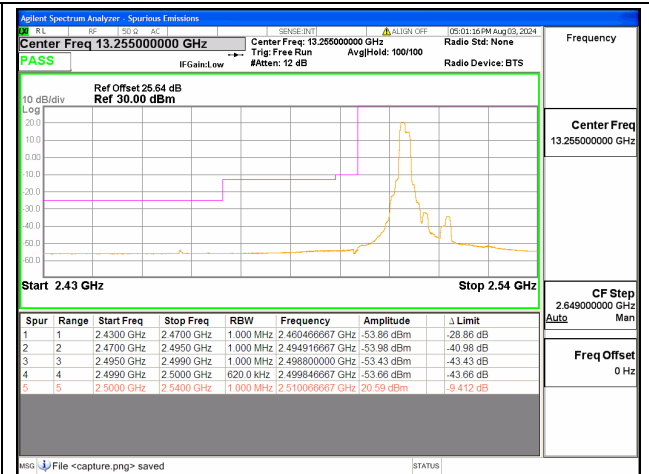
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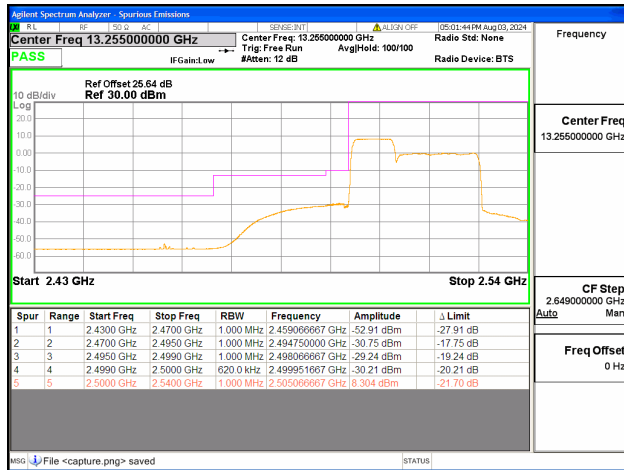
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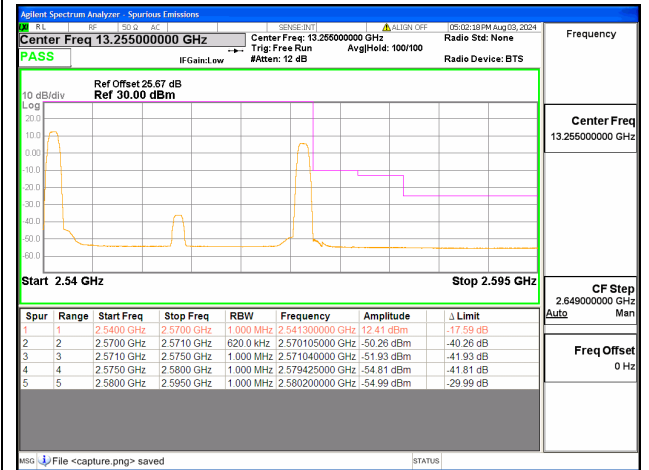
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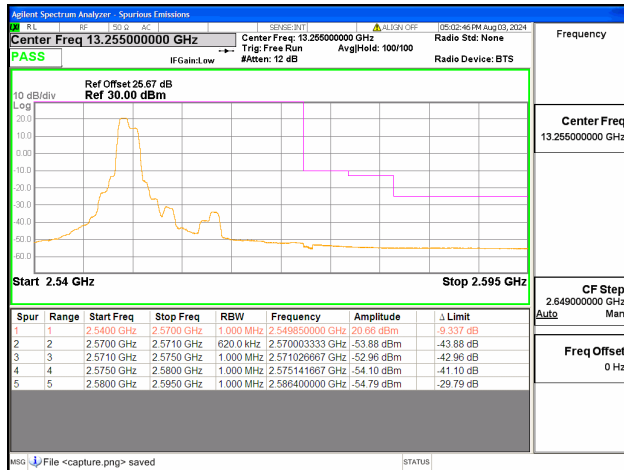
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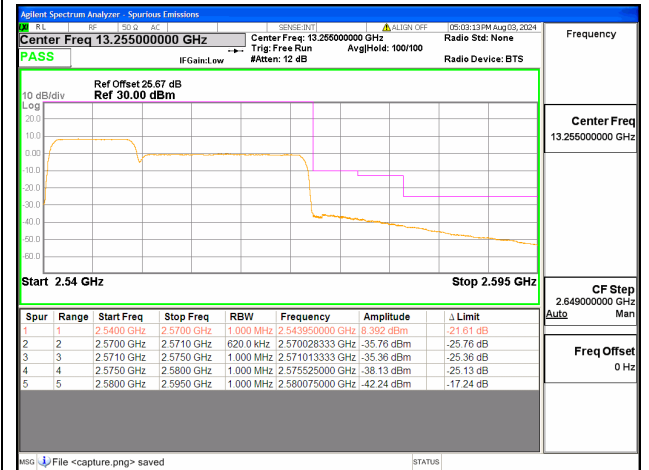
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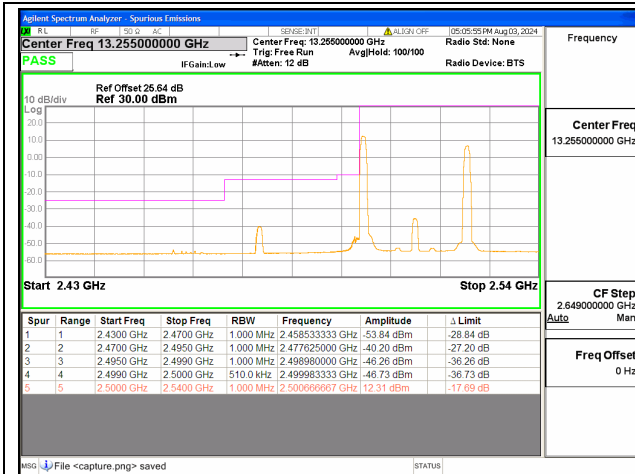
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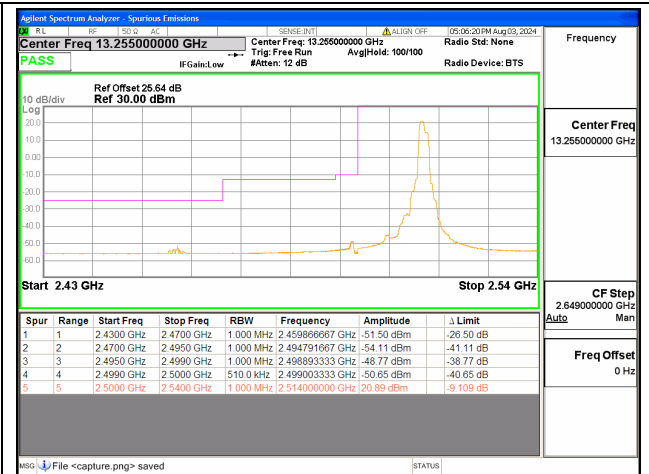
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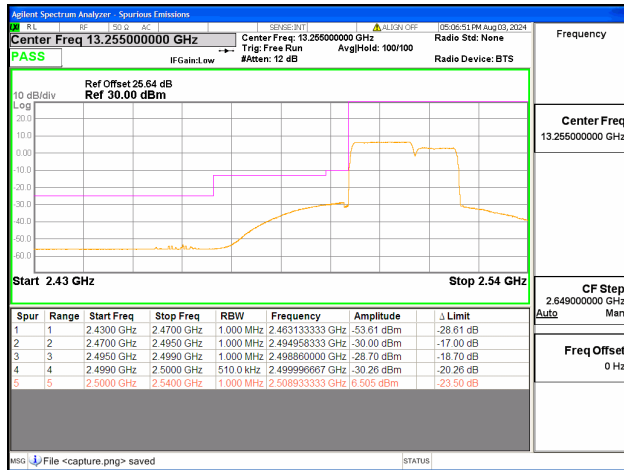
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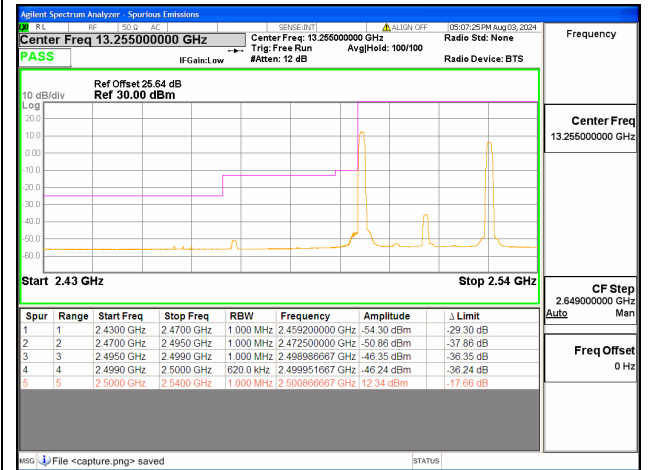
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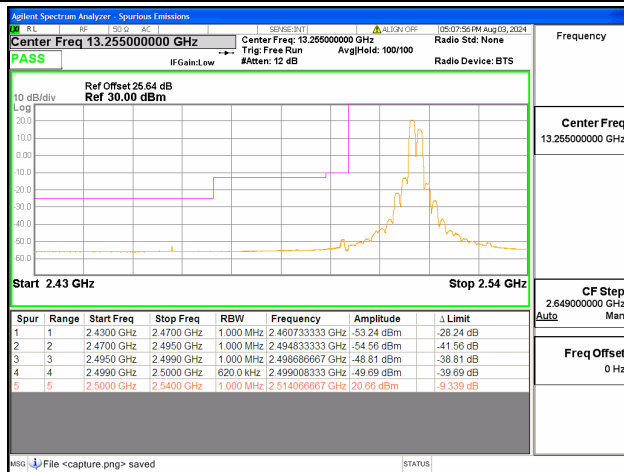
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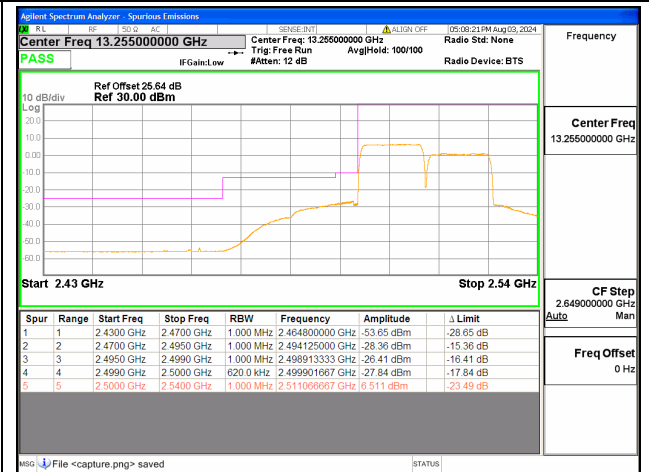
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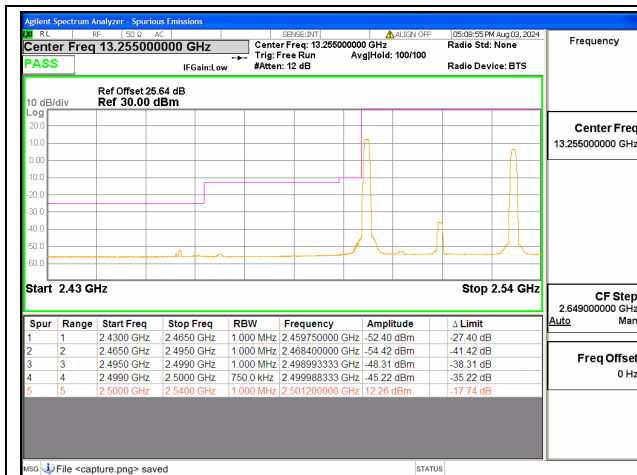
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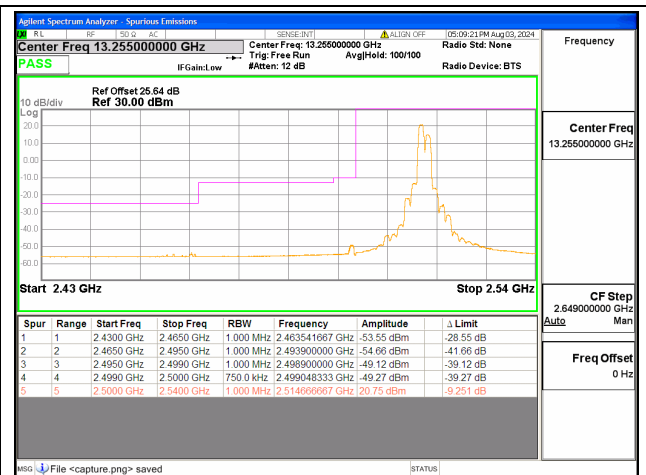
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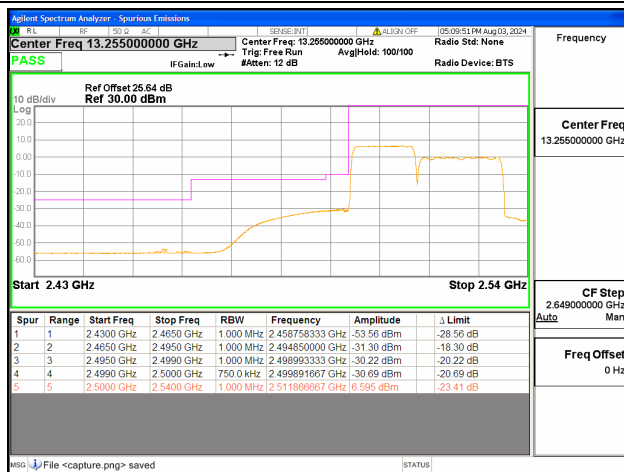
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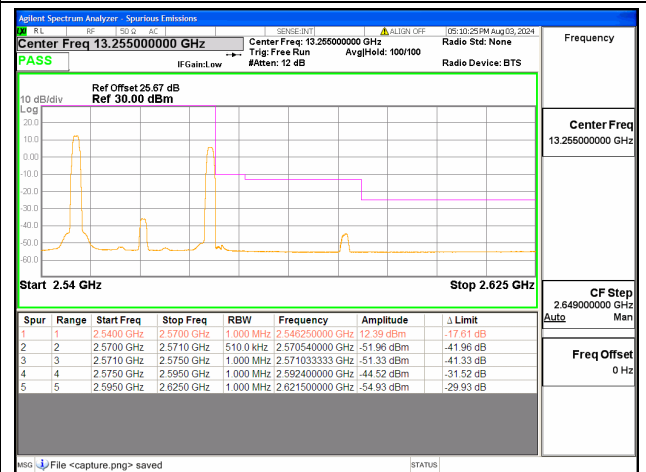
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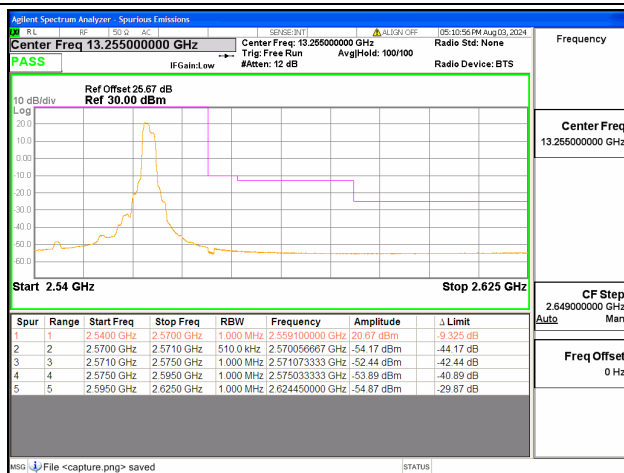
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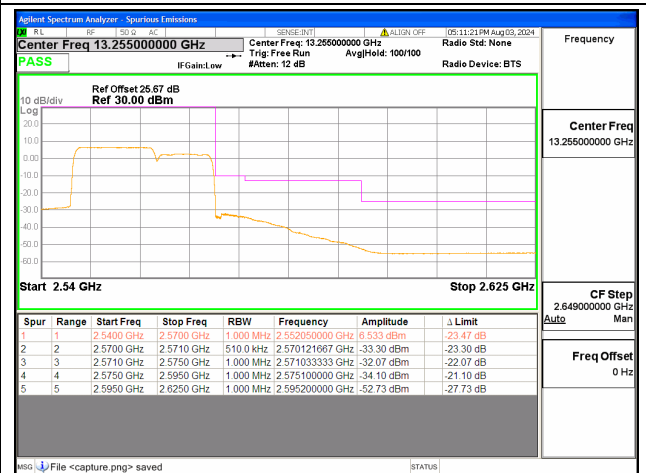
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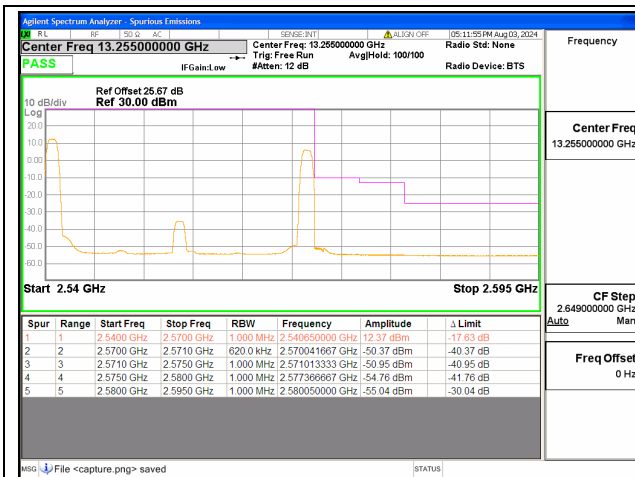
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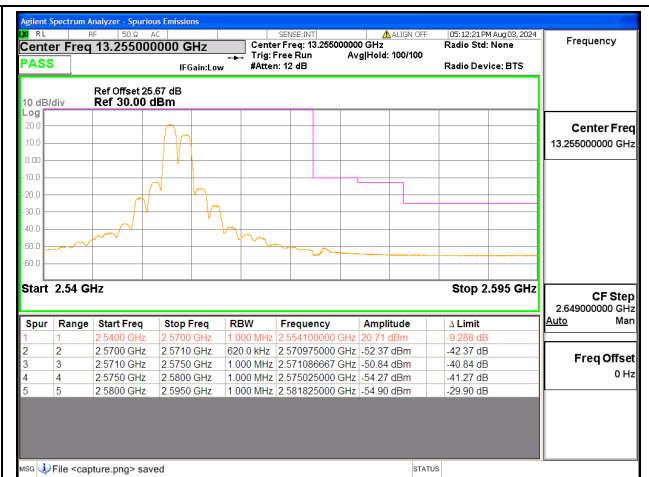
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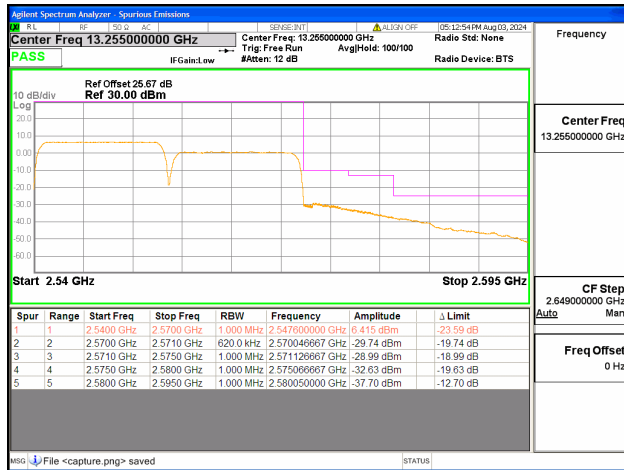
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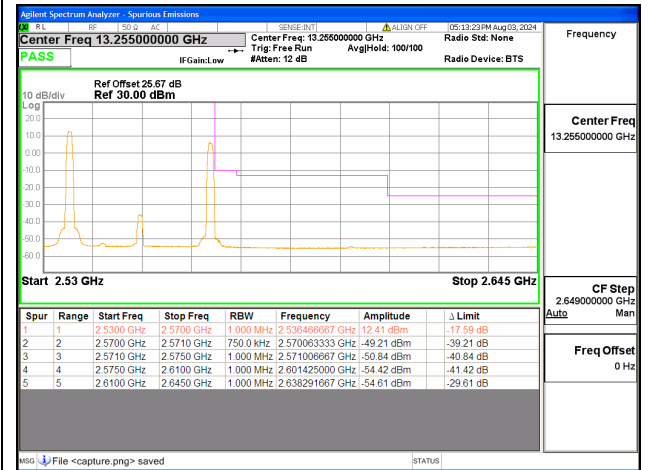
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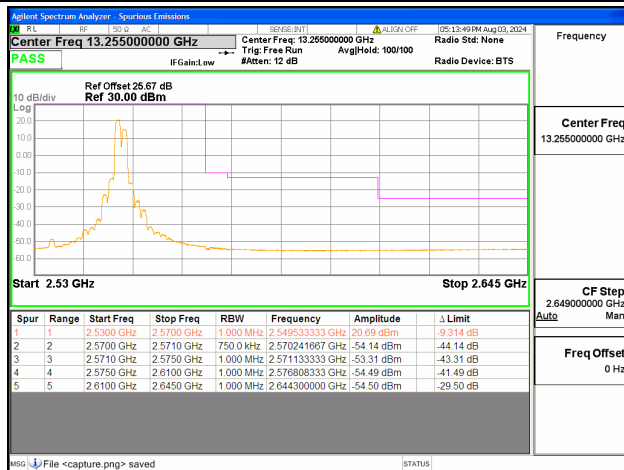
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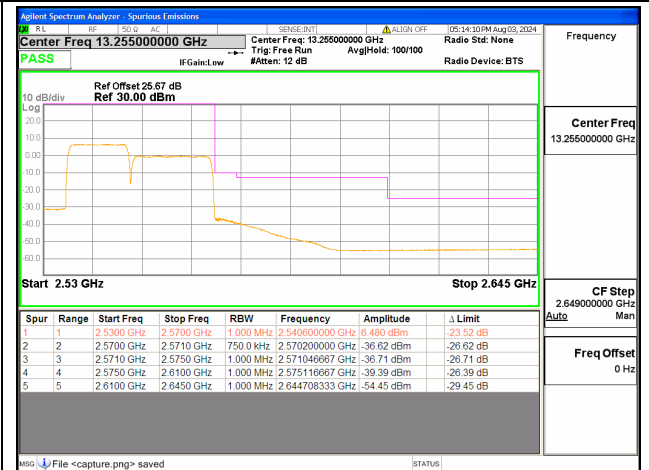
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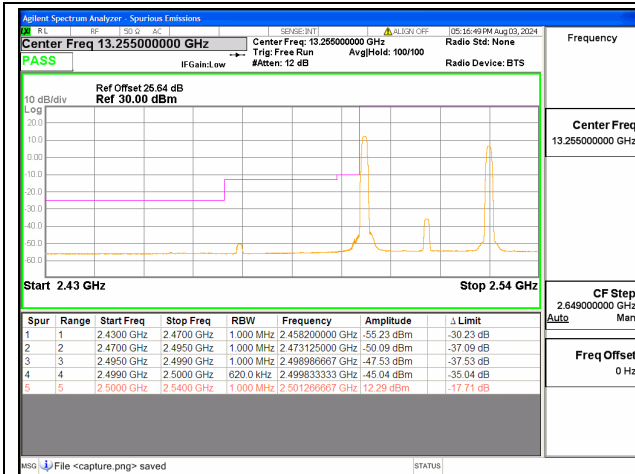
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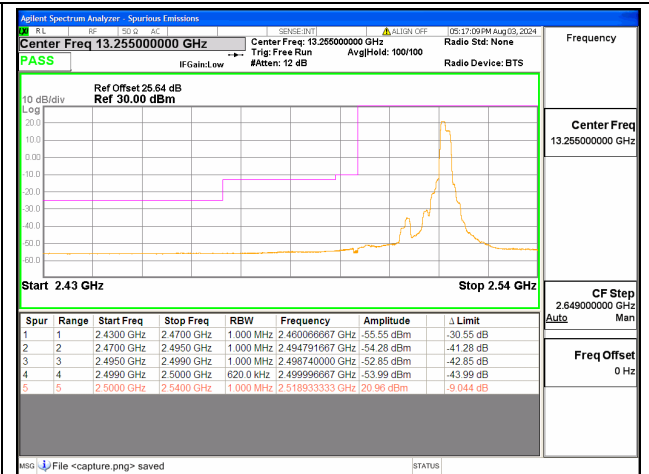
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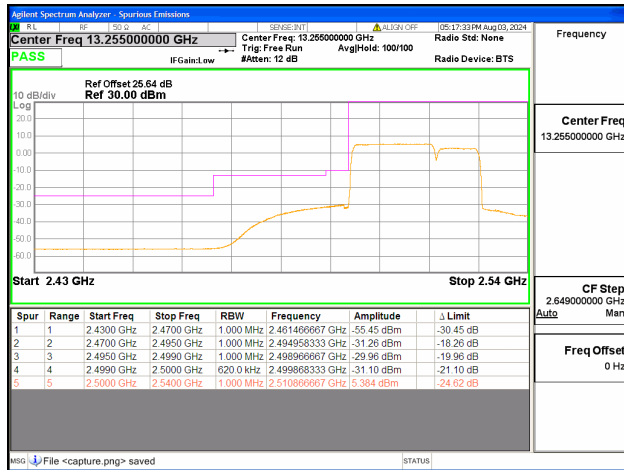
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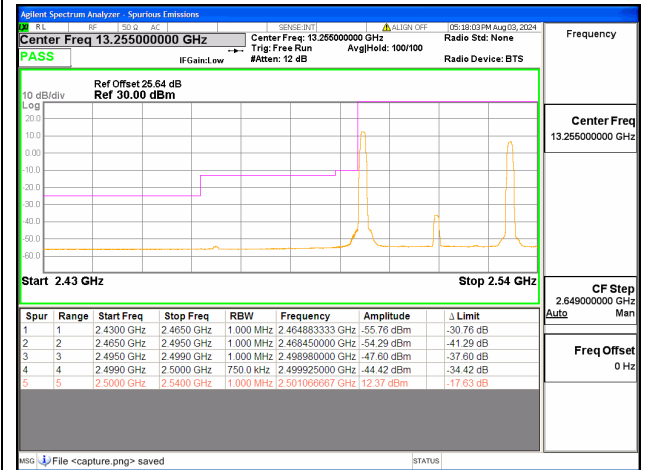
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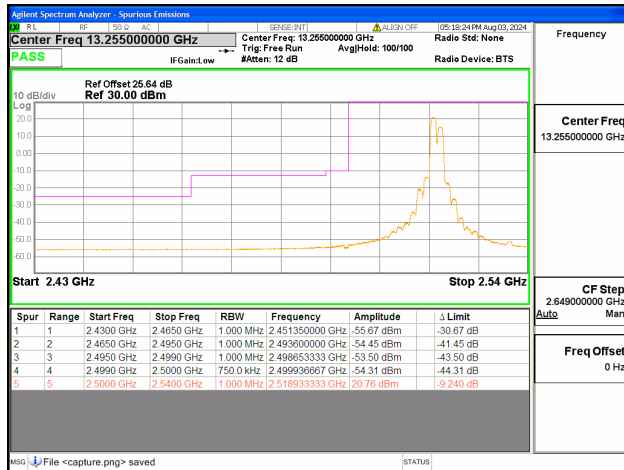
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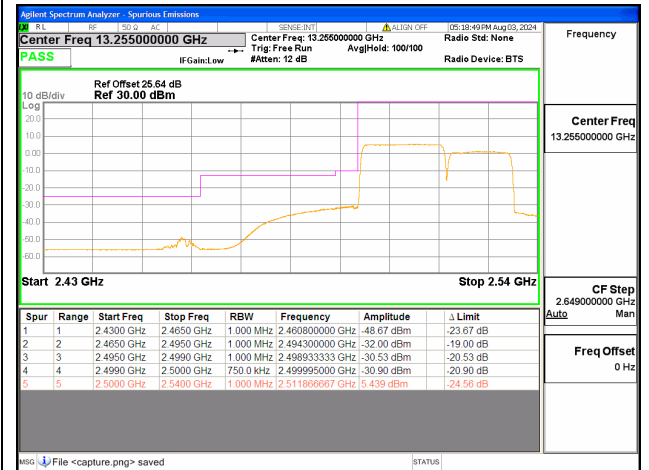
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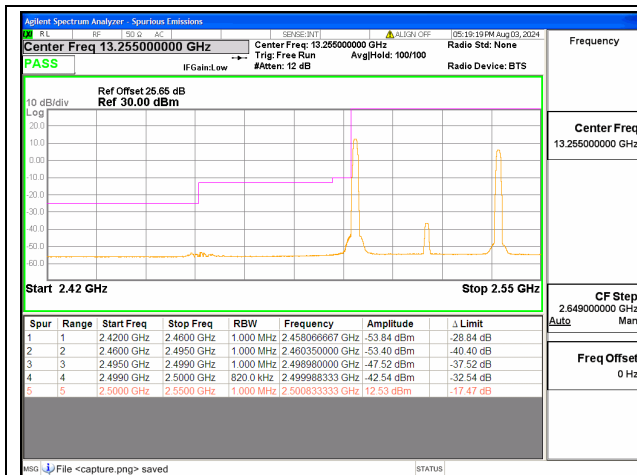
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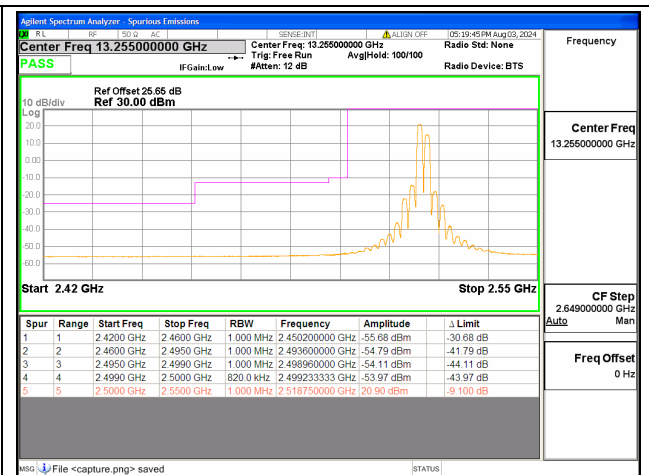
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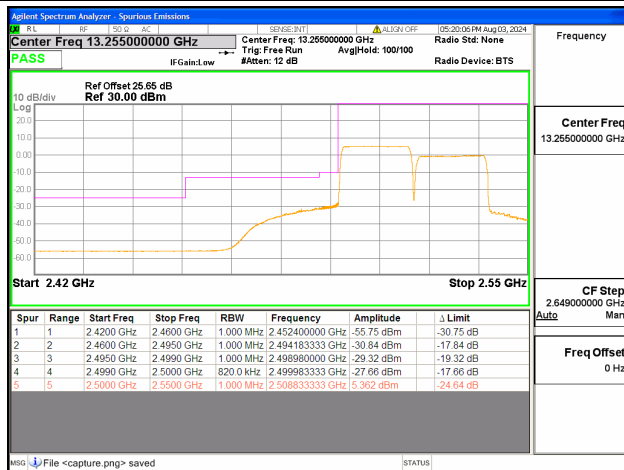
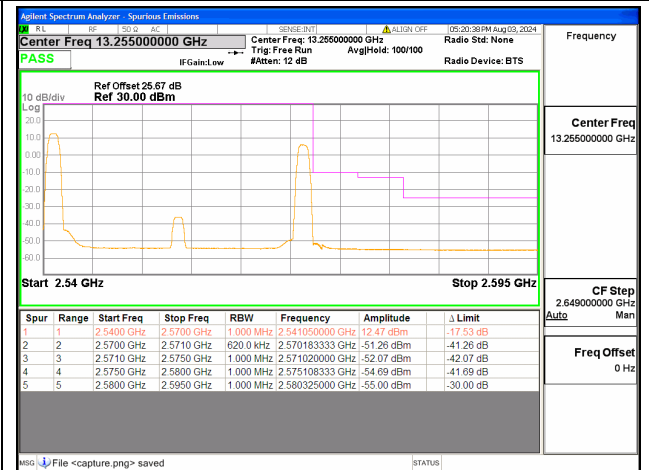
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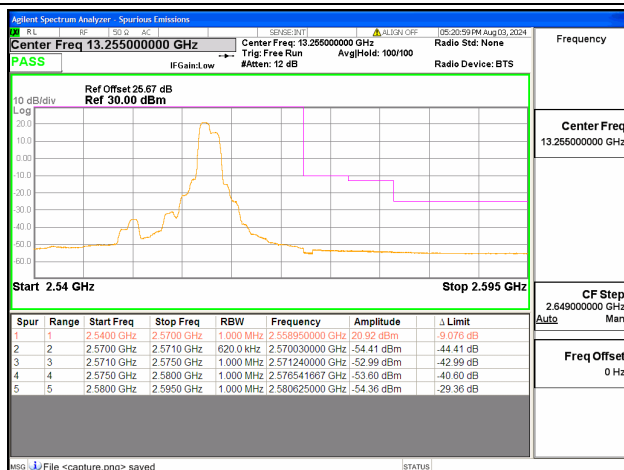
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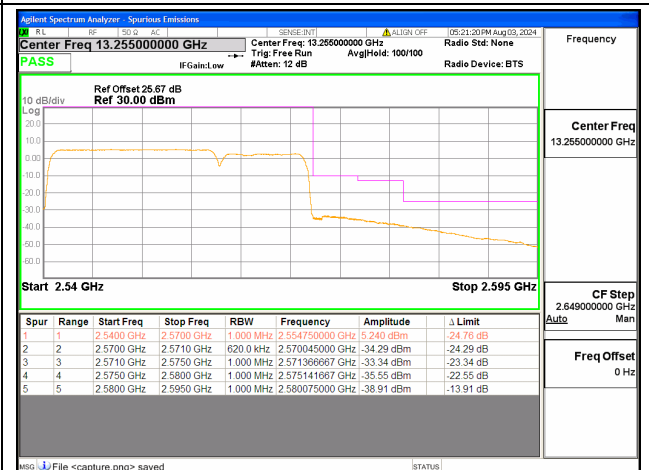
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7C / 20+20MHz / Low CH / QPSK /
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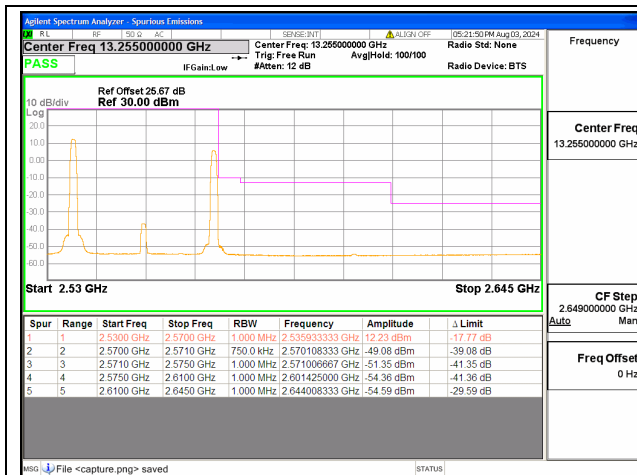
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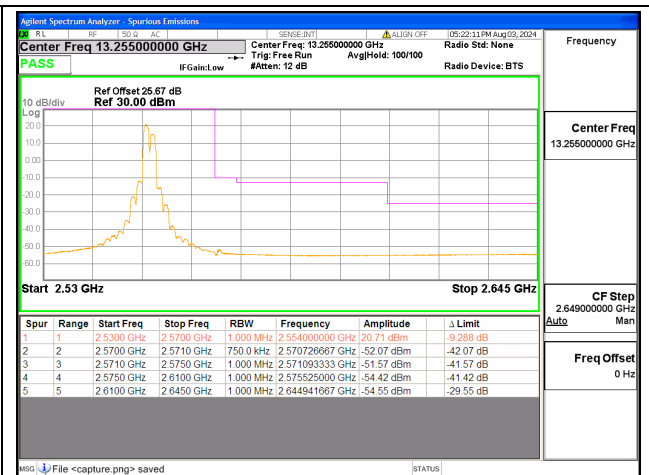
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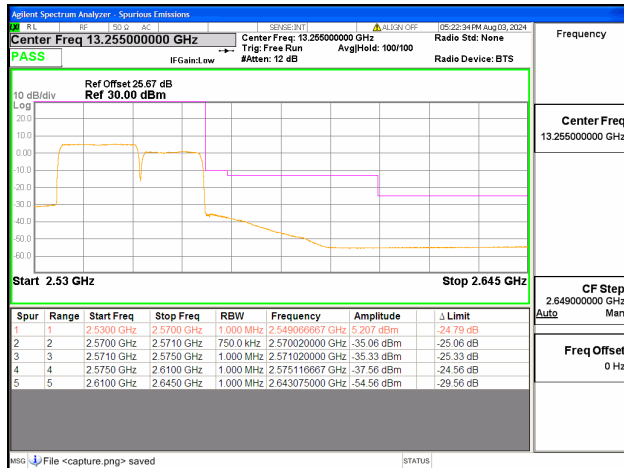
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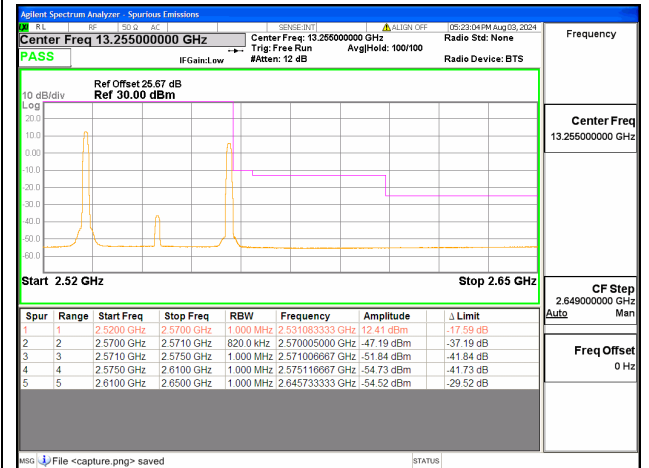
7C / 20+15MHz / High CH / QPSK / 1#0-1#74



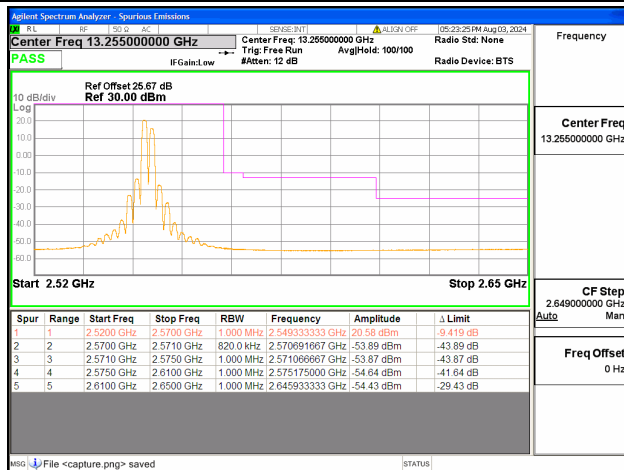
7C / 20+15MHz / High CH / QPSK / 1#99-1#0



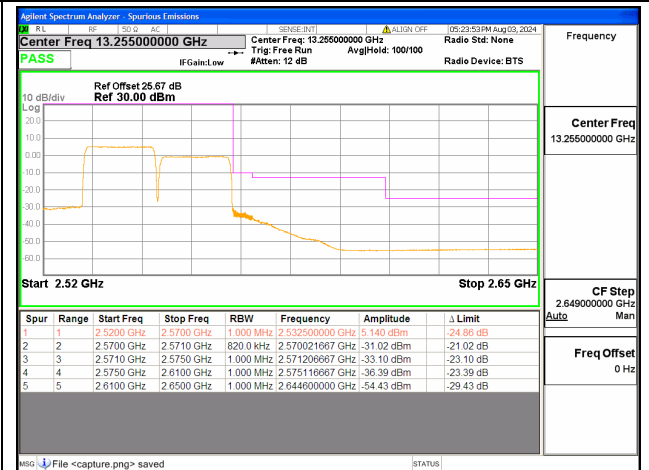
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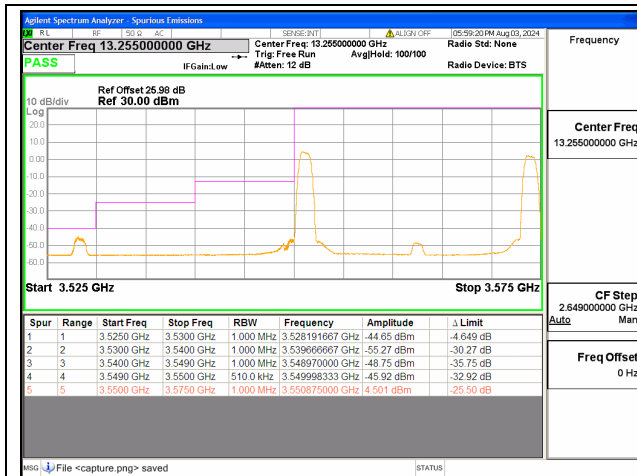


7C / 20+20MHz / High CH / QPSK / 1#0-1#99

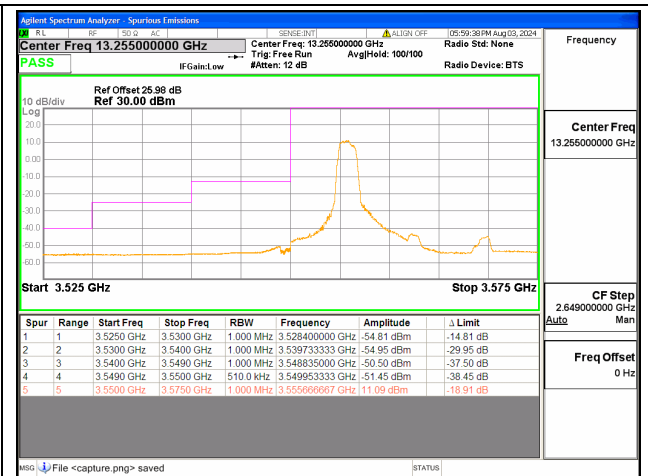


7C / 20+20MHz / High CH / QPSK / 1#99-1#0

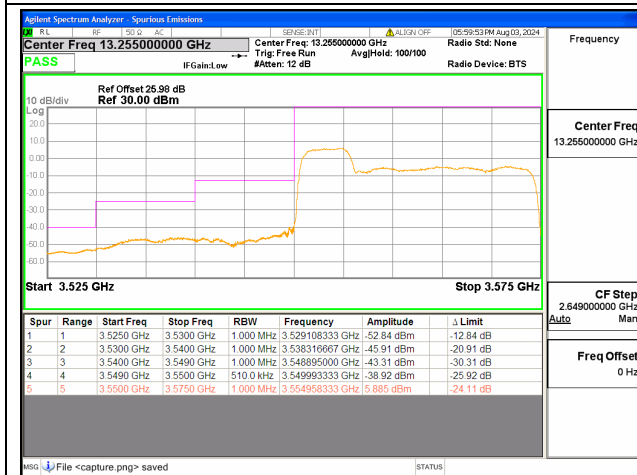
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100#0-100#0



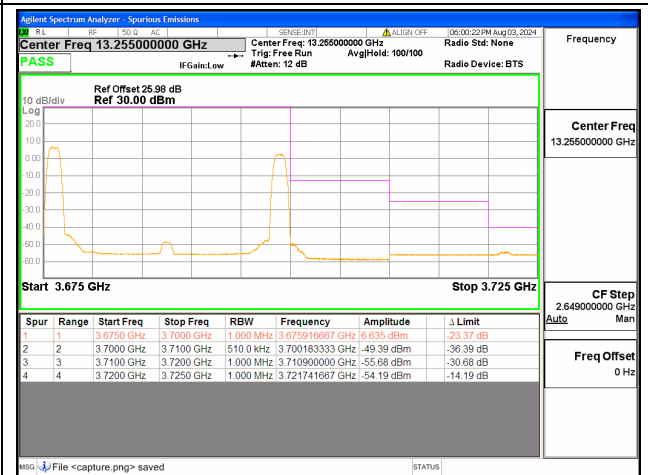
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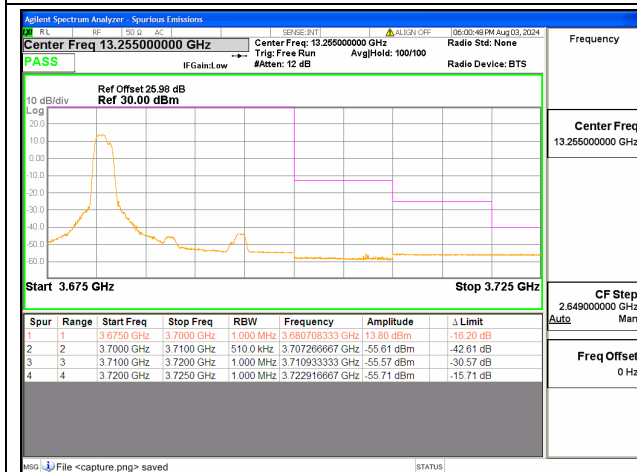
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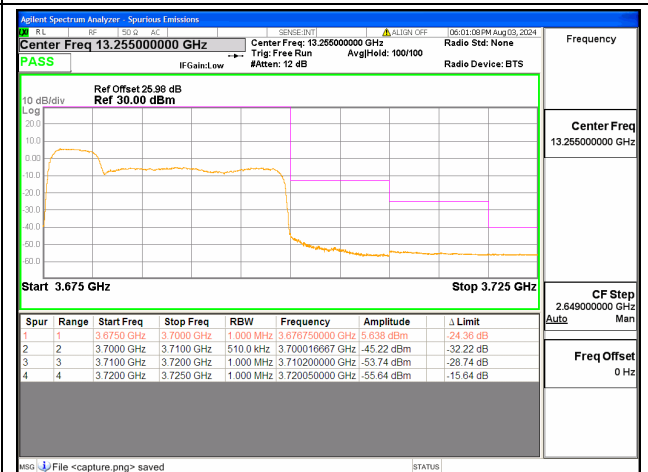
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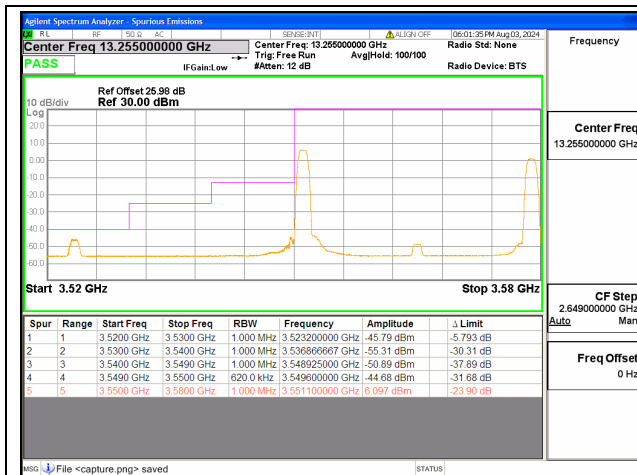
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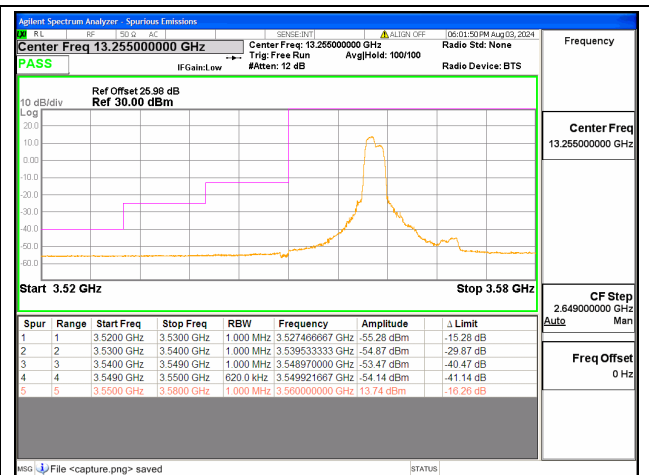
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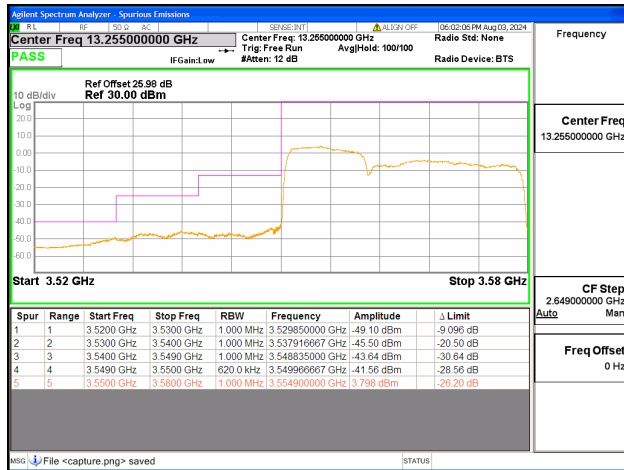
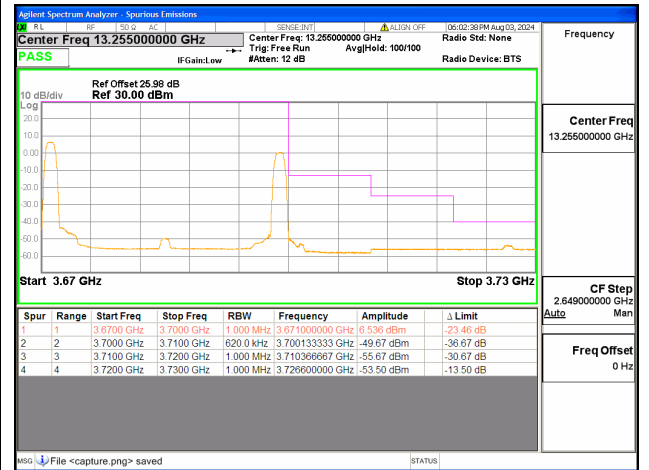
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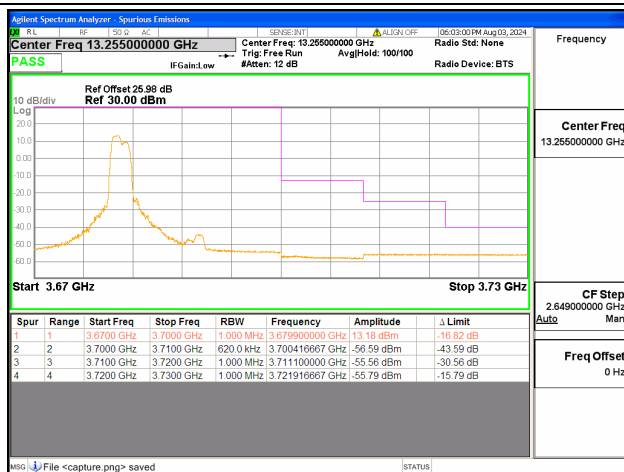
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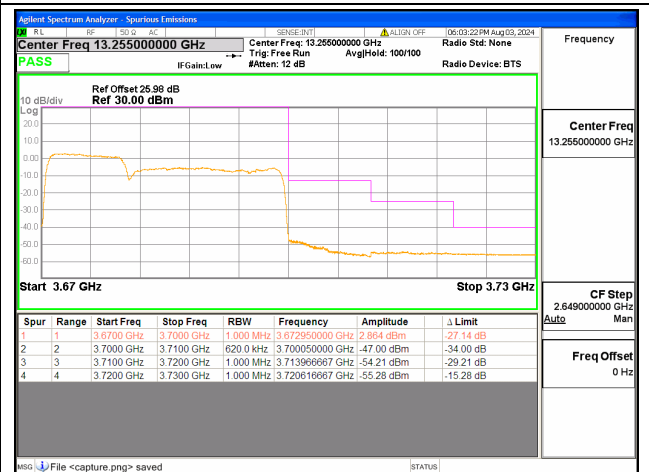
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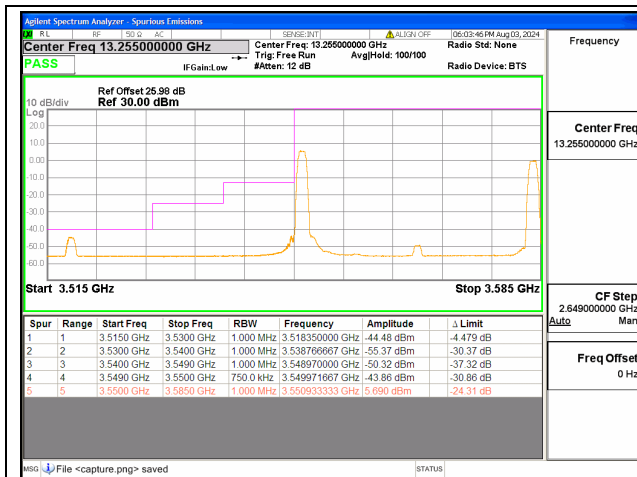
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50#0-100#0

48C / 10+20MHz / High CH / QPSK / 1#0-1#99

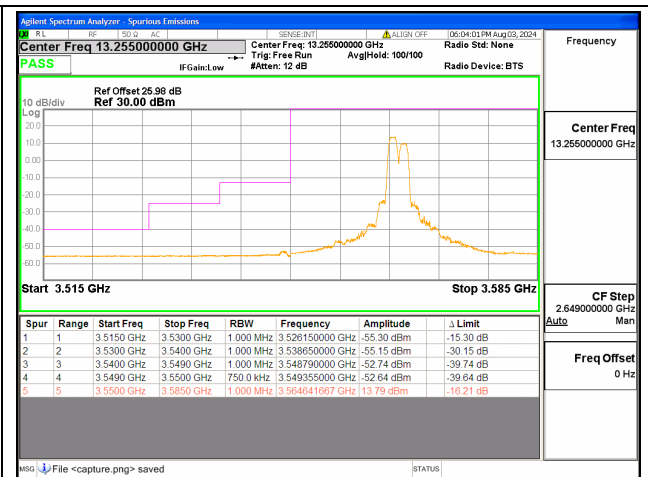


48C / 10+20MHz / High CH / QPSK / 1#49-1#0

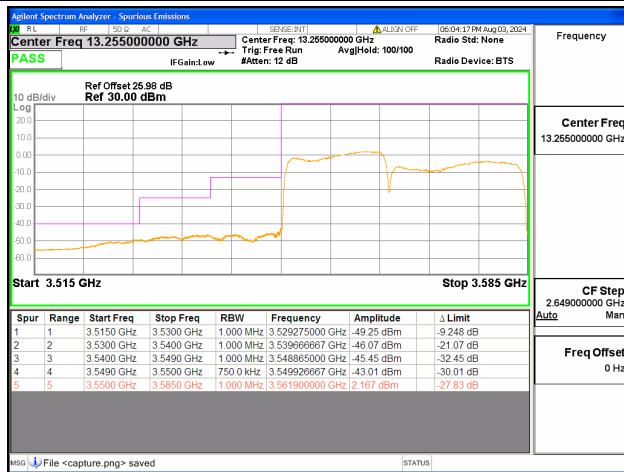
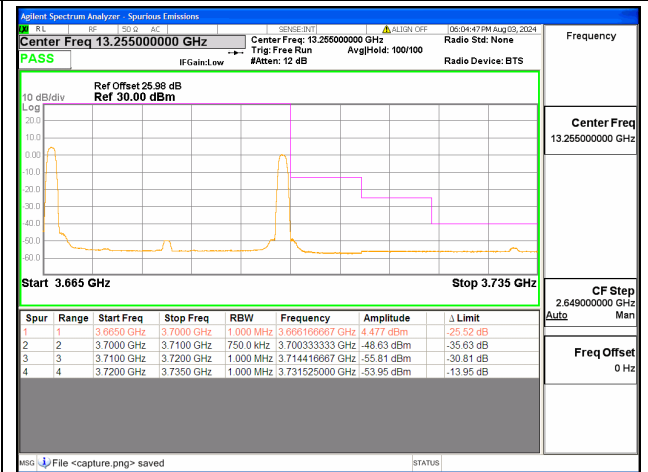
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50#0-100#0



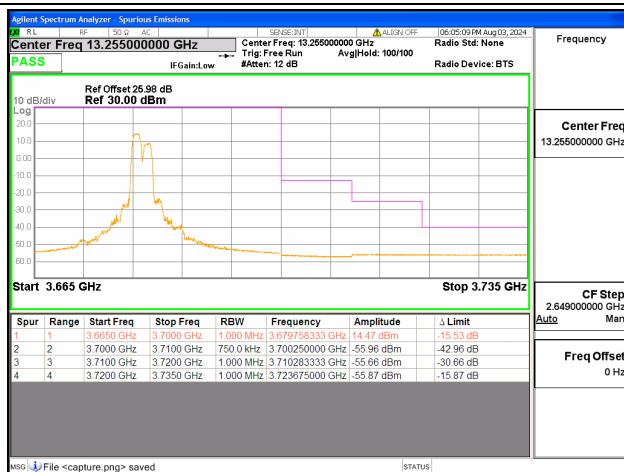
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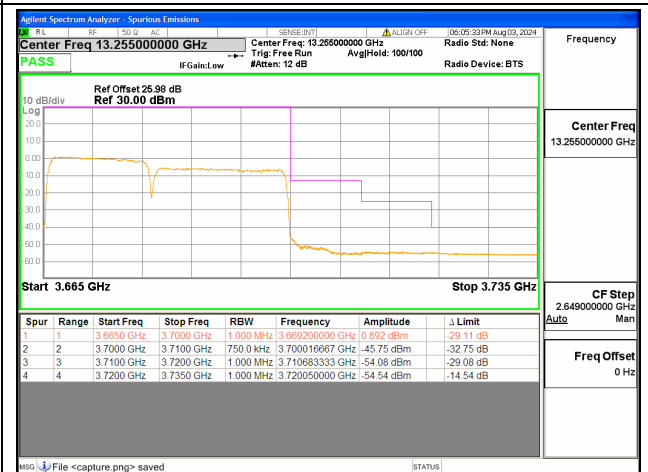
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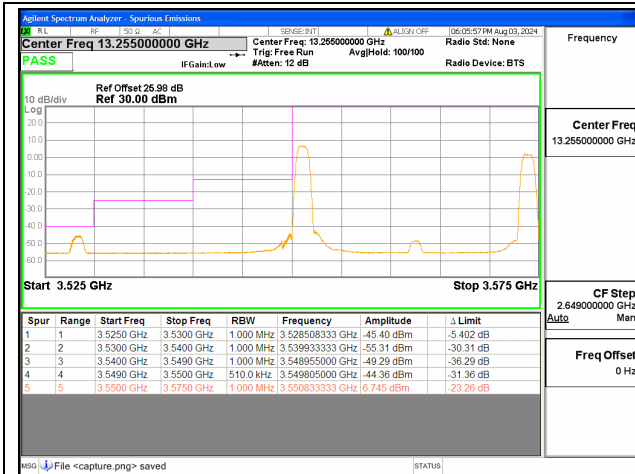
48C / 15+20MHz / Low CH / QPSK /
75#0-100#0

48C / 15+20MHz / High CH / QPSK / 1#0-1#99

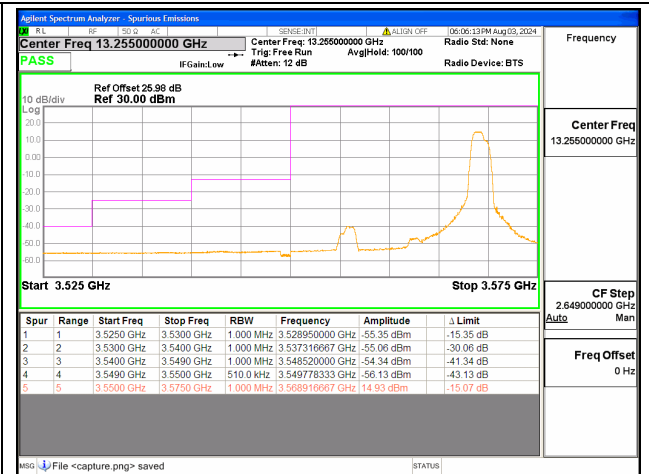


48C / 15+20MHz / High CH / QPSK / 1#74-1#0

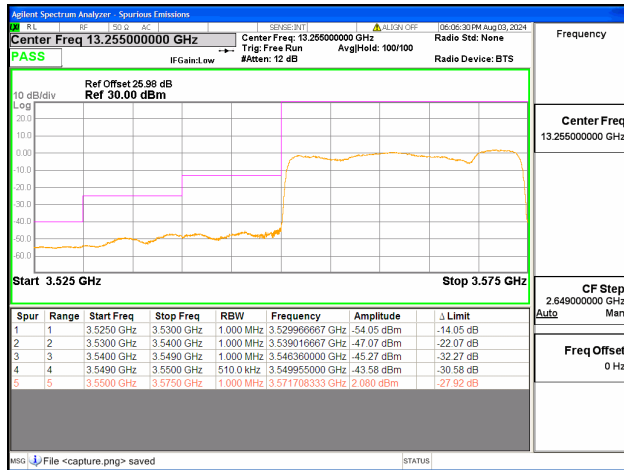
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75#0-100#0



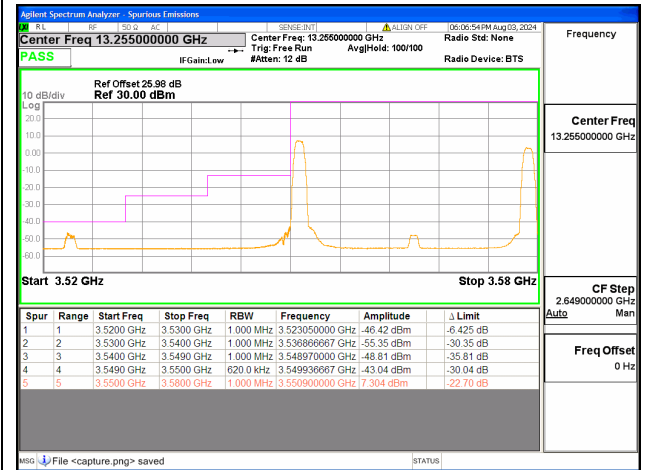
48C / 20+5MHz / Low CH / QPSK / 1#0-1#24



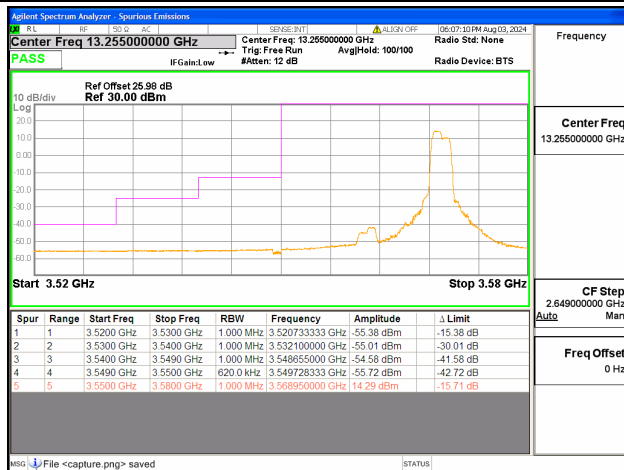
48C / 20+5MHz / Low CH / QPSK / 1#99-1#0



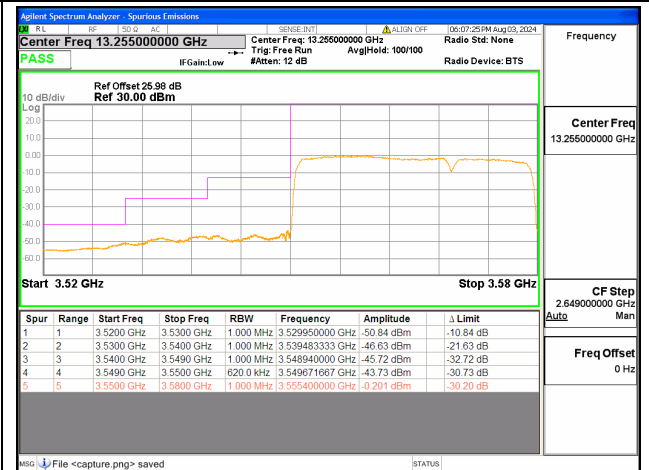
48C / 20+5MHz / Low CH / QPSK / 100#0-25#0

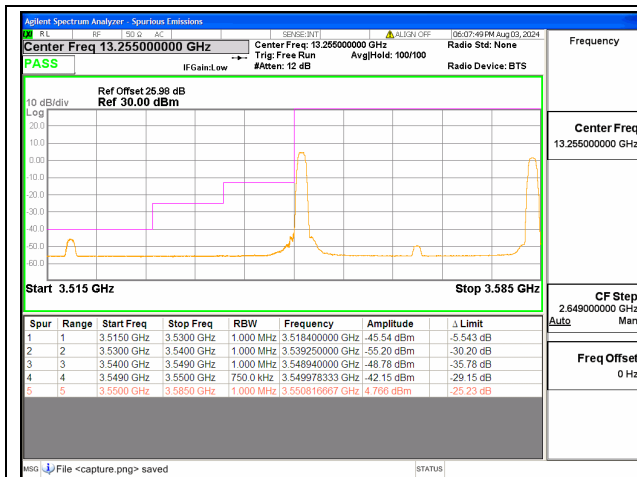


48C / 20+10MHz / Low CH / QPSK / 1#0-1#49

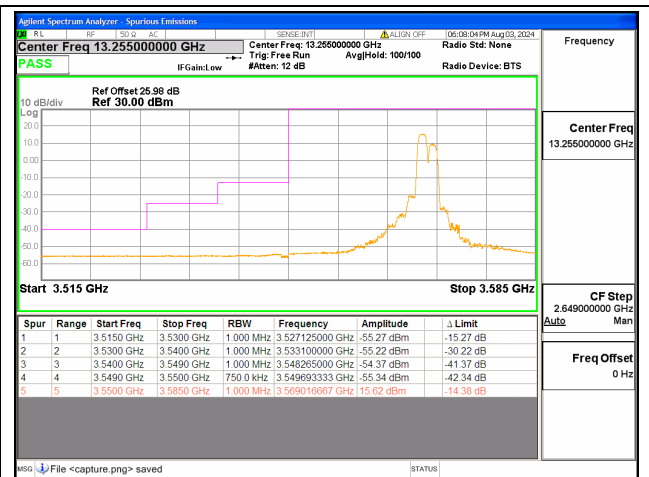


48C / 20+10MHz / Low CH / QPSK / 1#99-1#0

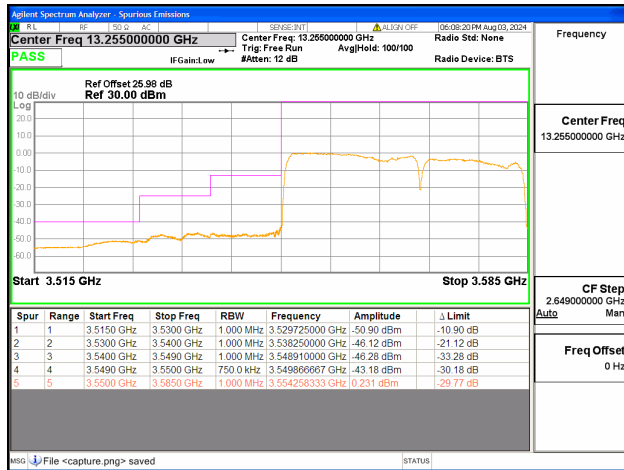
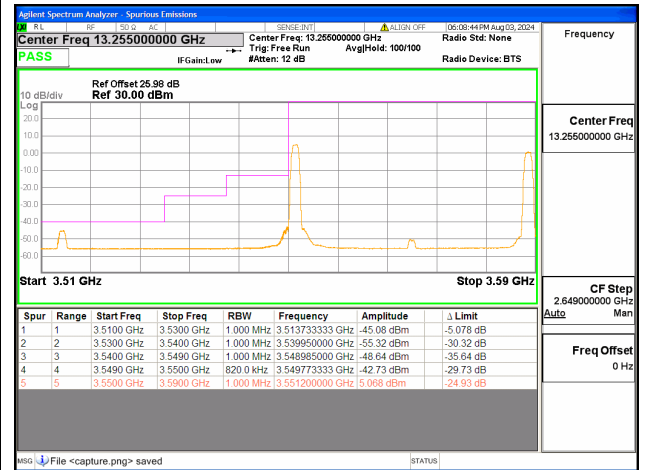
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100#0-50#0



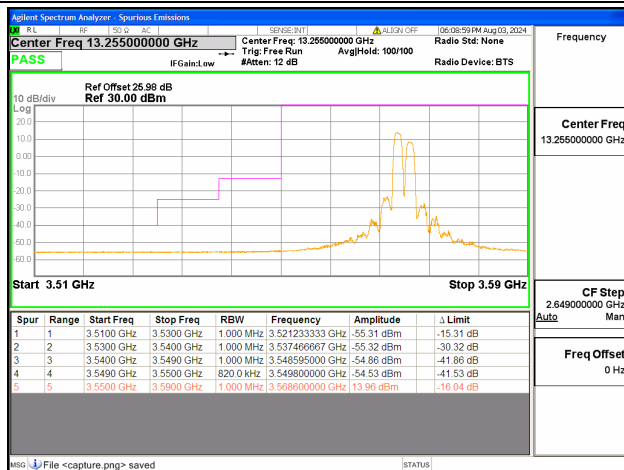
48C / 20+15MHz / Low CH / QPSK / 1#0-1#74



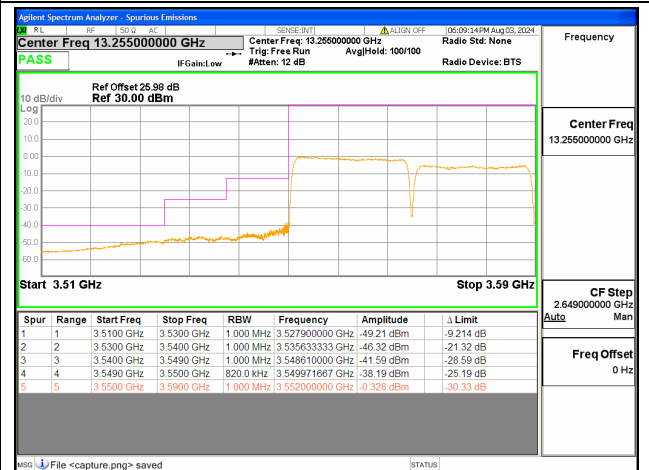
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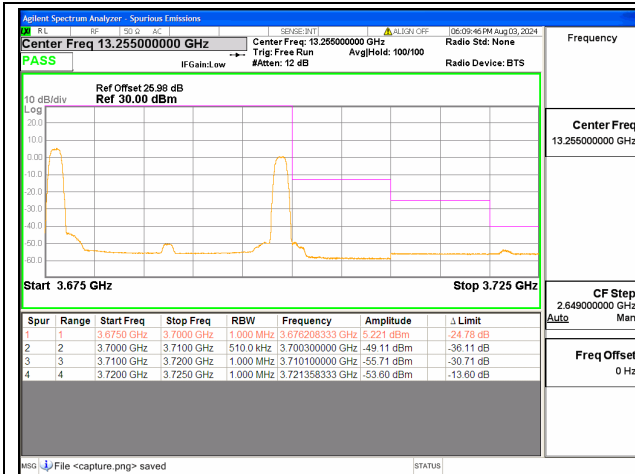
48C / 20+15MHz / Low CH / QPSK /
100#0-75#0

48C / 20+20MHz / Low CH / QPSK / 1#0-1#99

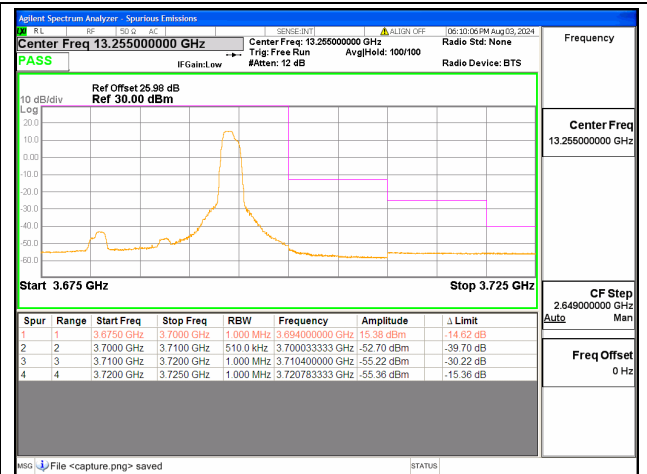


48C / 20+20MHz / Low CH / QPSK / 1#99-1#0

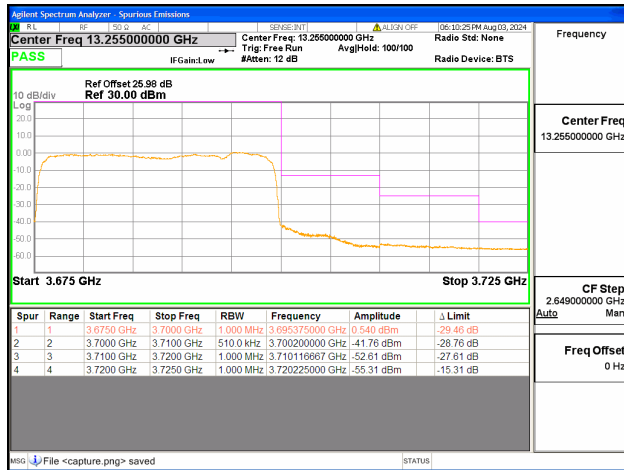
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100#0-100#0



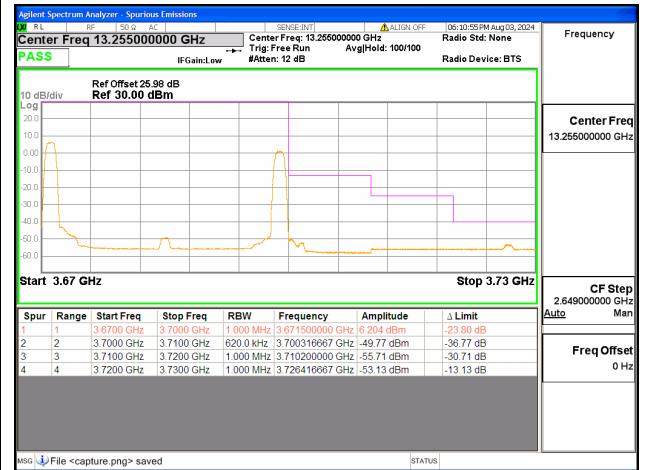
48C / 20+5MHz / High CH / QPSK / 1#0-1#24



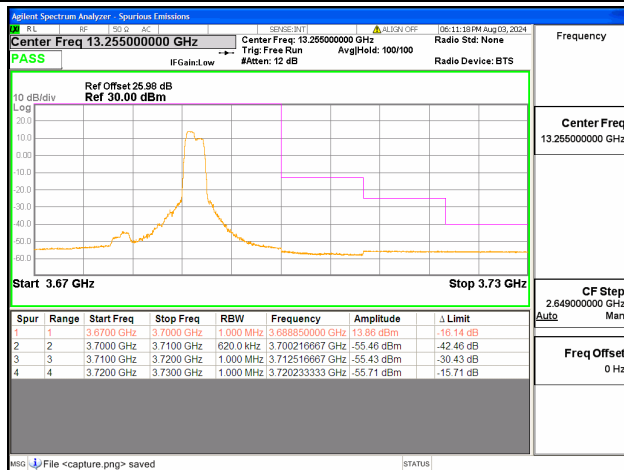
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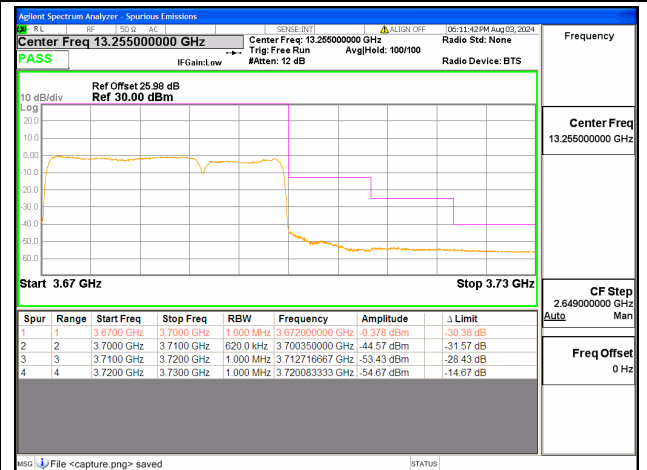
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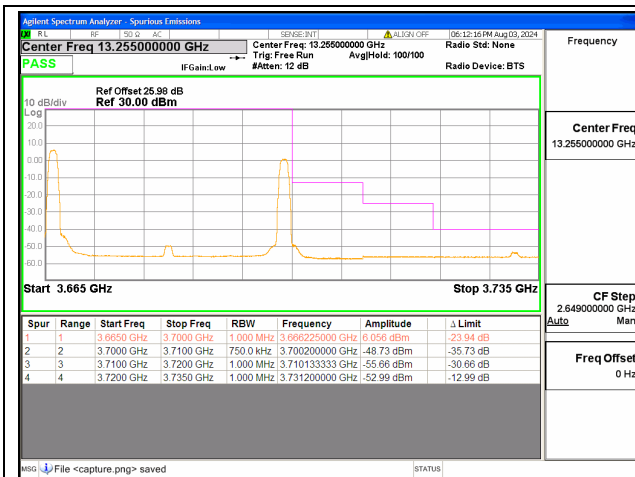


48C / 20+10MHz / High CH / QPSK / 1#0-1#49

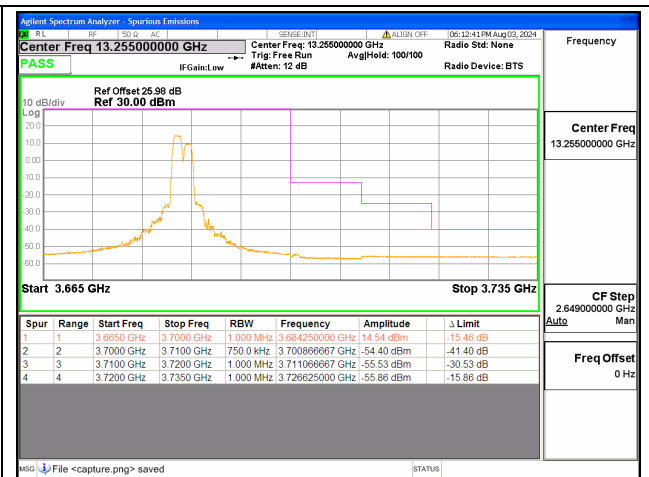


48C / 20+10MHz / High CH / QPSK / 1#99-1#0

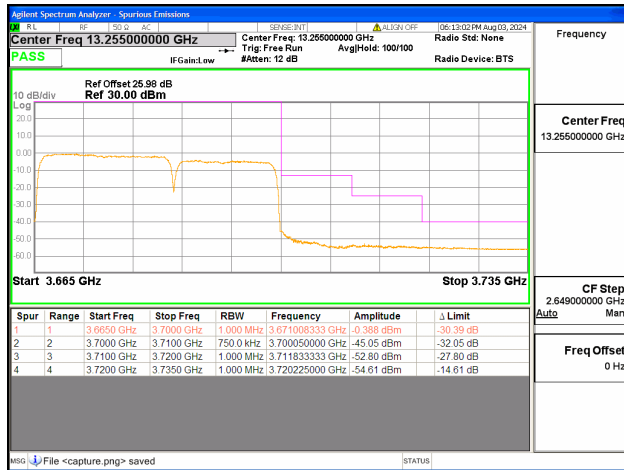
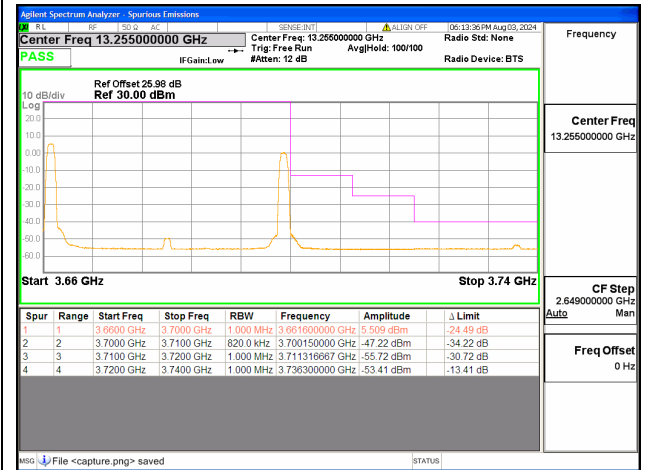
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100#0-50#0



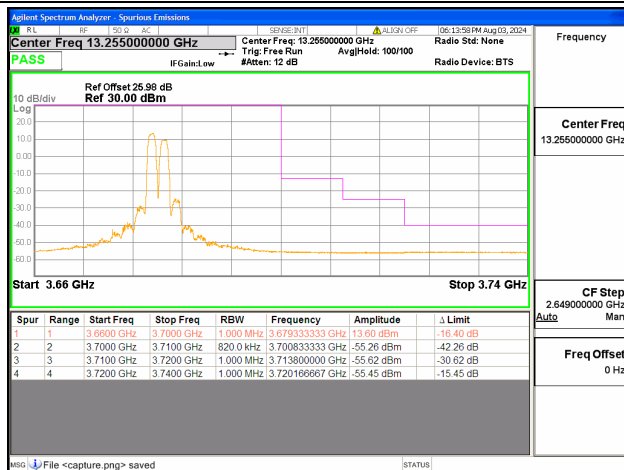
48C / 20+15MHz / High CH / QPSK / 1#0-1#74



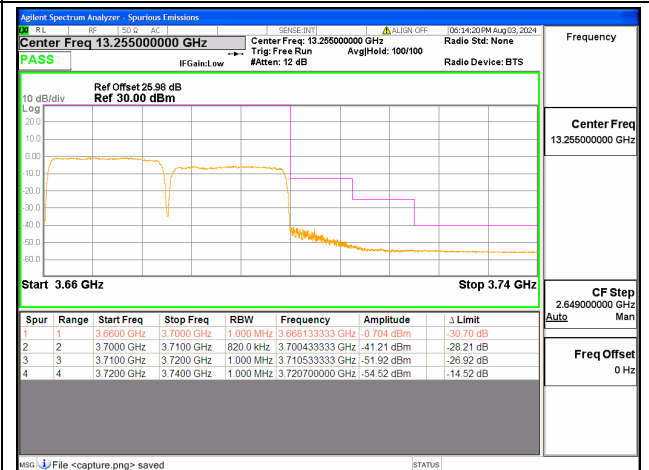
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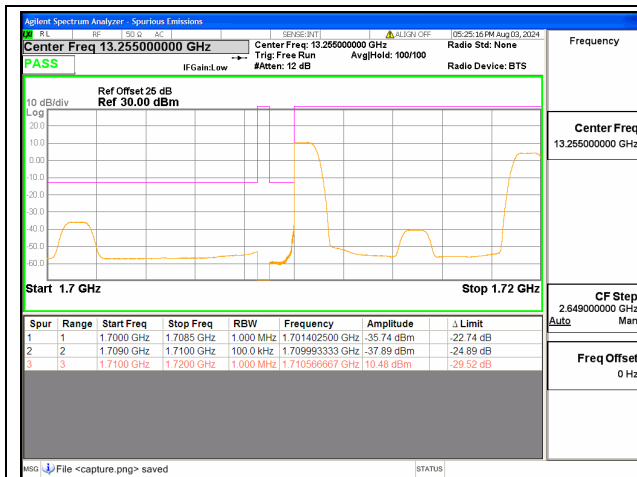
48C / 20+15MHz / High CH / QPSK /
100#0-75#0

48C / 20+20MHz / High CH / QPSK / 1#0-1#99

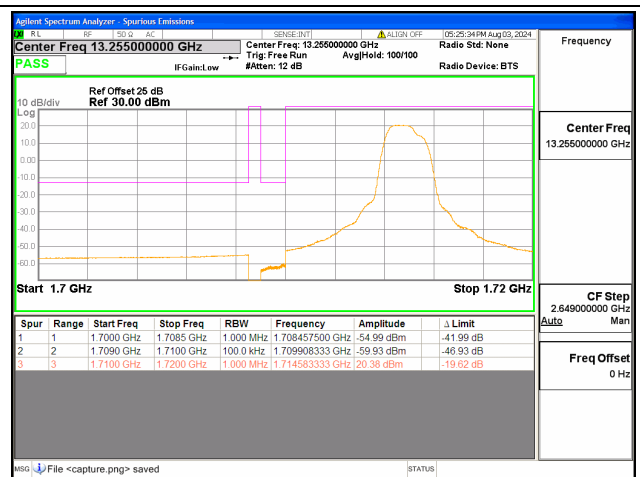


48C / 20+20MHz / High CH / QPSK / 1#99-1#0

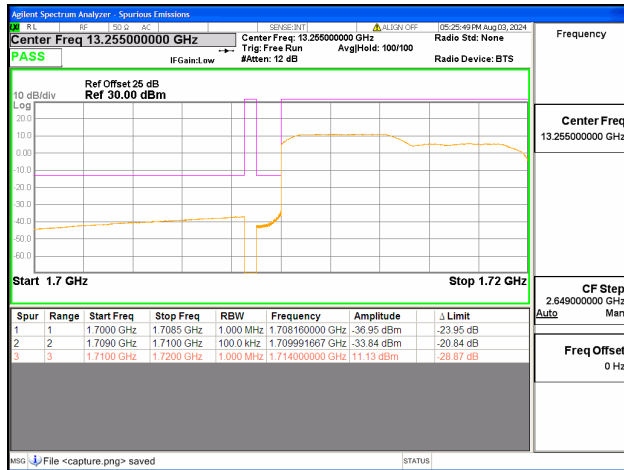
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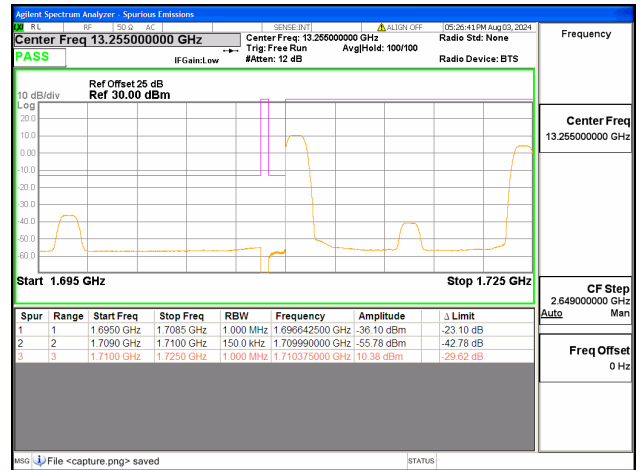
66B / 5+5MHz / Low CH / QPSK / 1#0-1#24



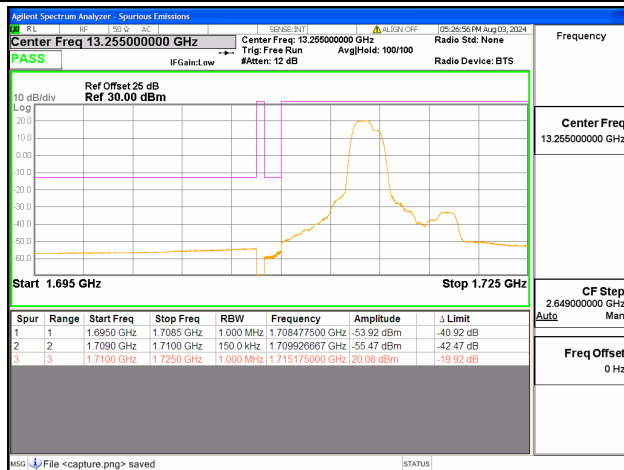
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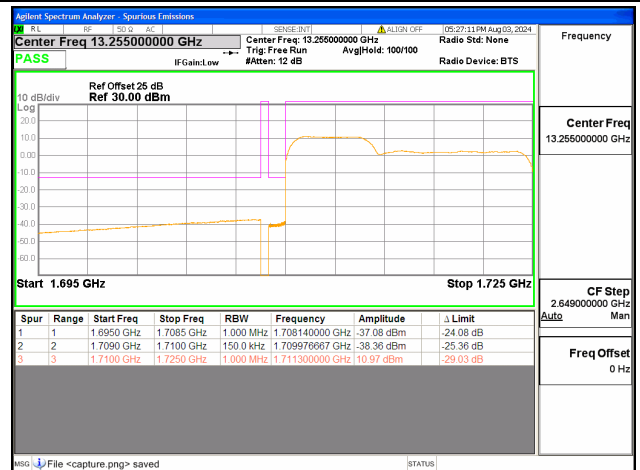
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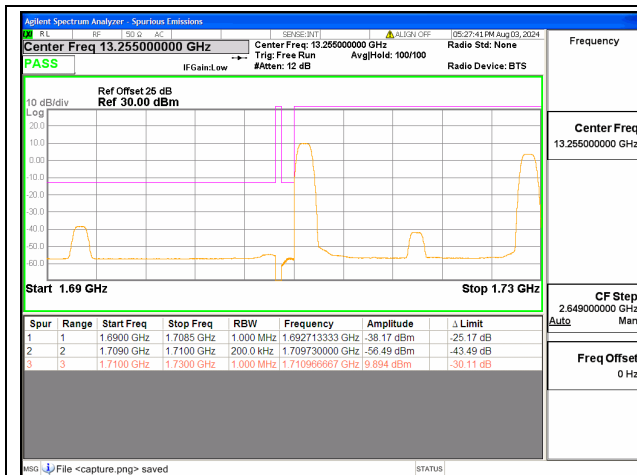
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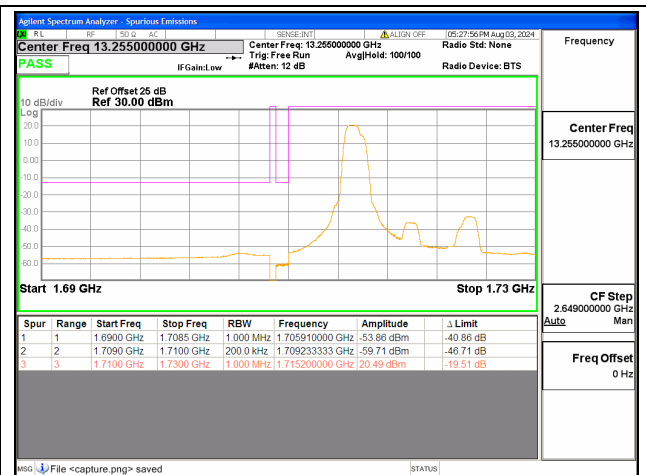
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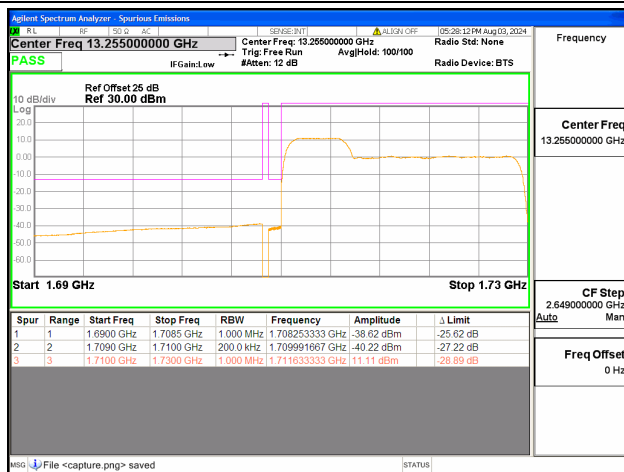
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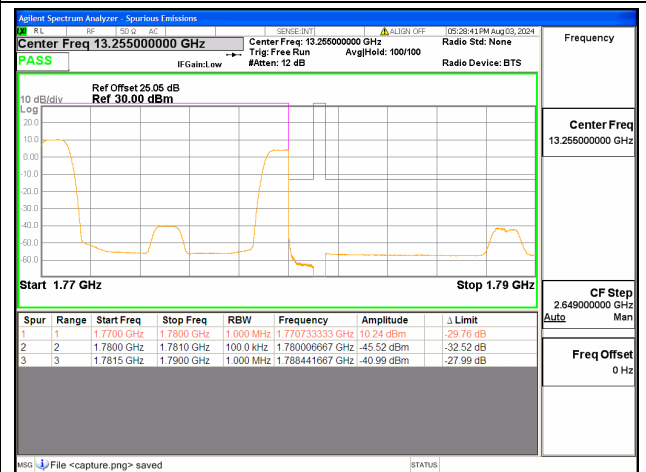
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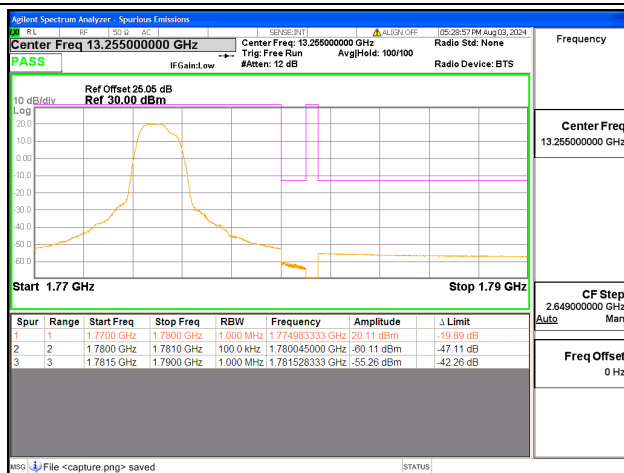
66B / 5+15MHz / Low CH / QPSK / 1#24-1#0



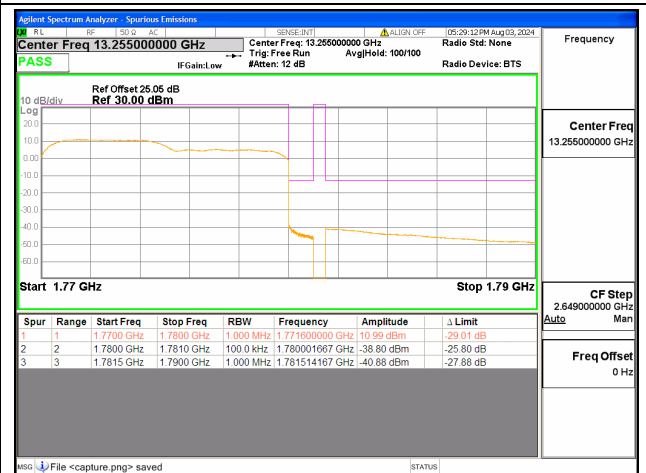
66B / 5+15MHz / Low CH / QPSK / 25#0-75#0



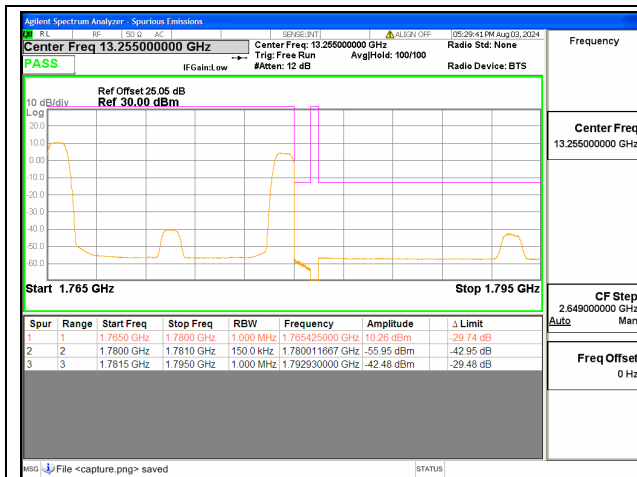
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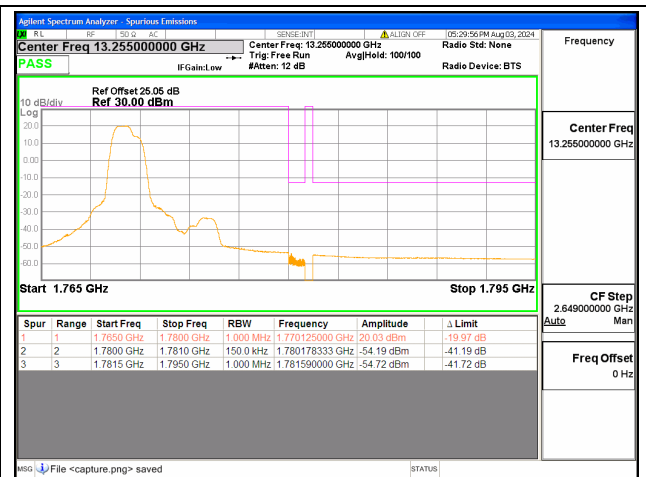
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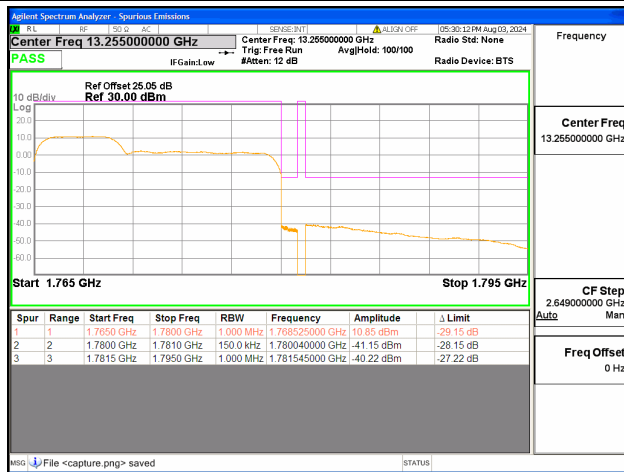
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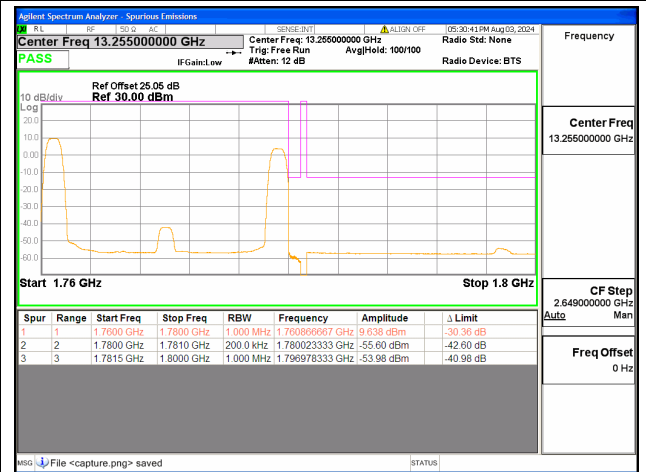
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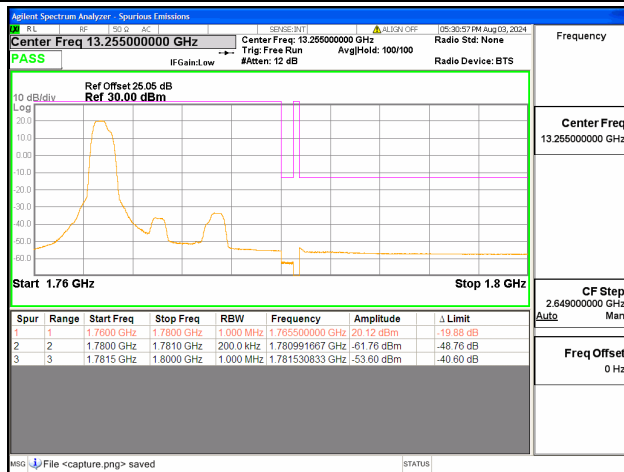
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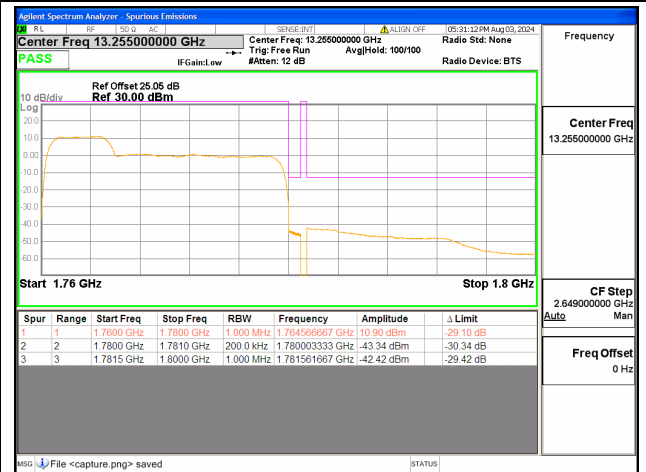
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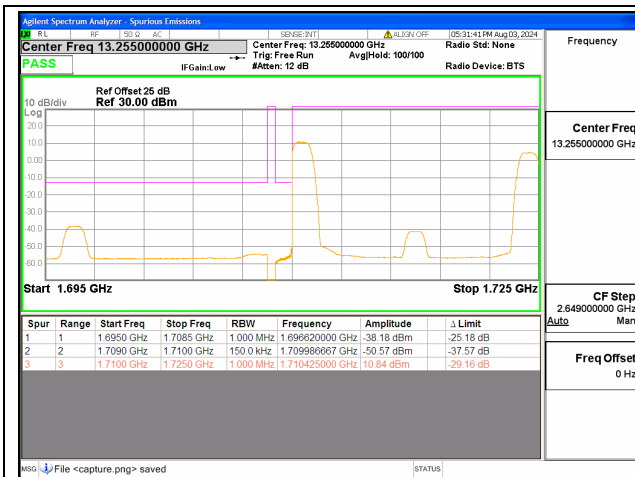
66B / 5+15MHz / High CH / QPSK / 1#0-1#74



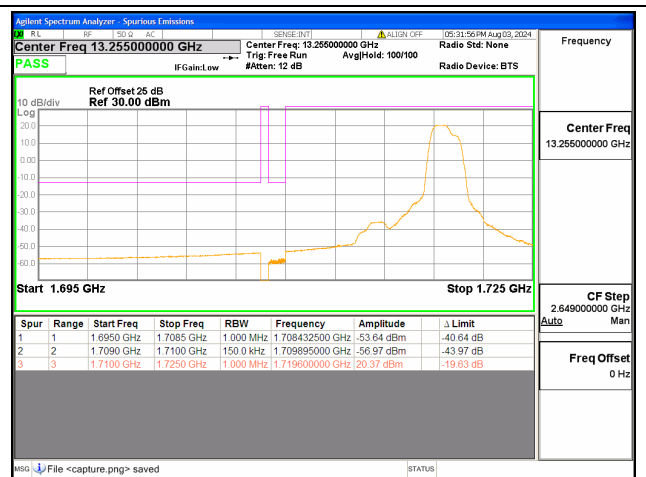
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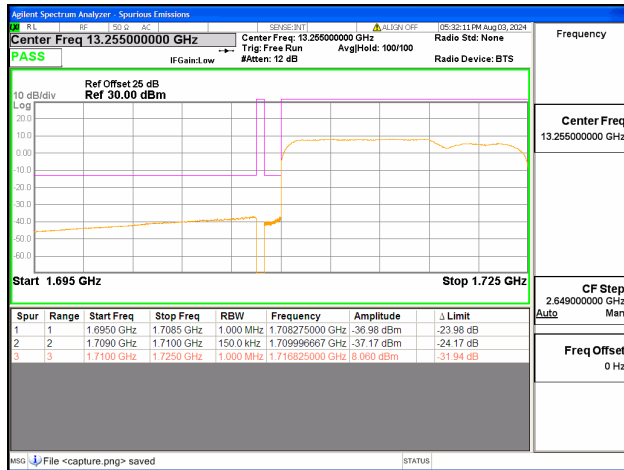
66B / 5+15MHz / High CH / QPSK / 25#0-75#0



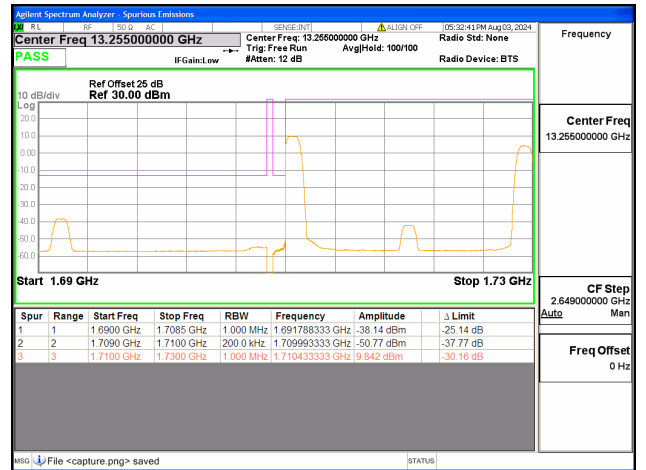
66B / 10+5MHz / Low CH / QPSK / 1#0-1#24



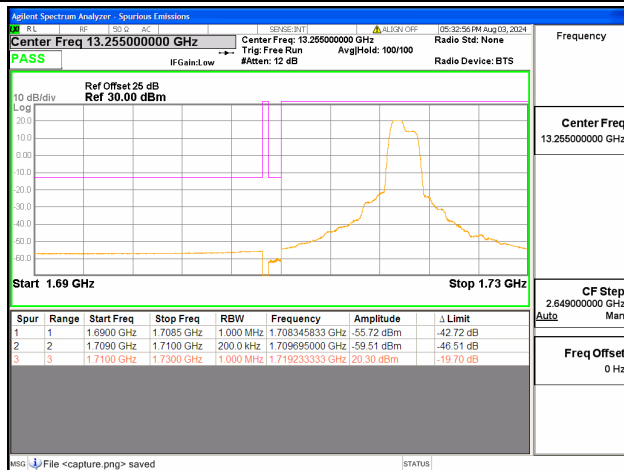
66B / 10+5MHz / Low CH / QPSK / 1#49-1#0



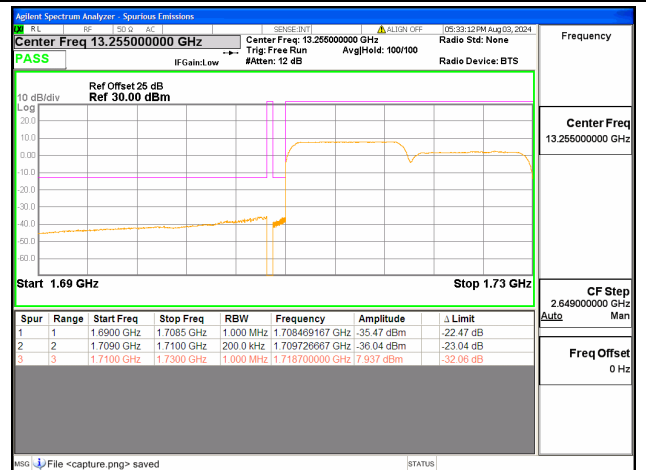
66B / 10+5MHz / Low CH / QPSK / 50#0-25#0



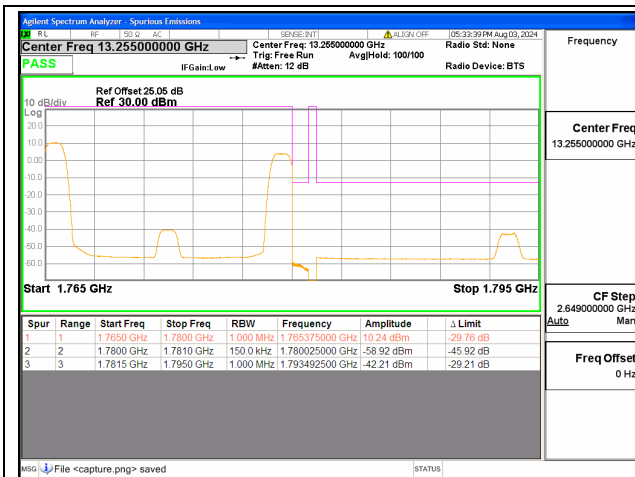
66B / 10+10MHz / Low CH / QPSK / 1#0-1#49



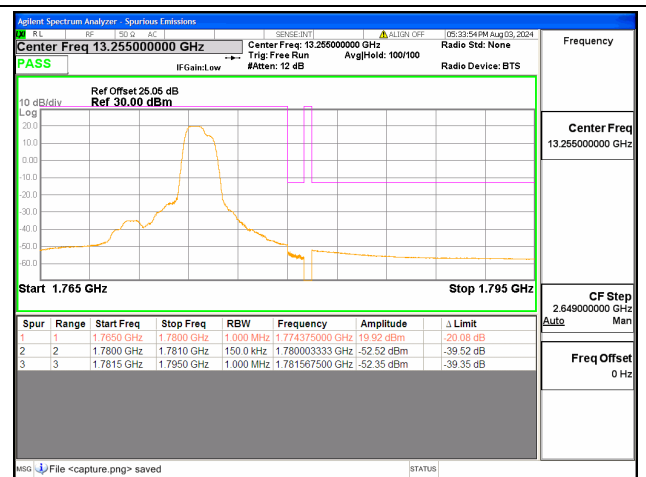
66B / 10+10MHz / Low CH / QPSK / 1#49-1#0



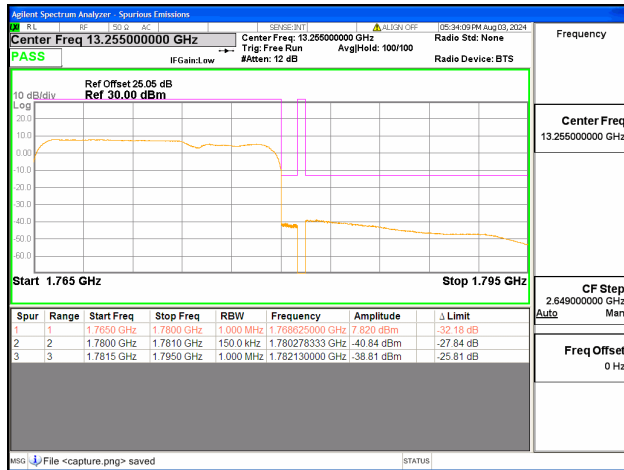
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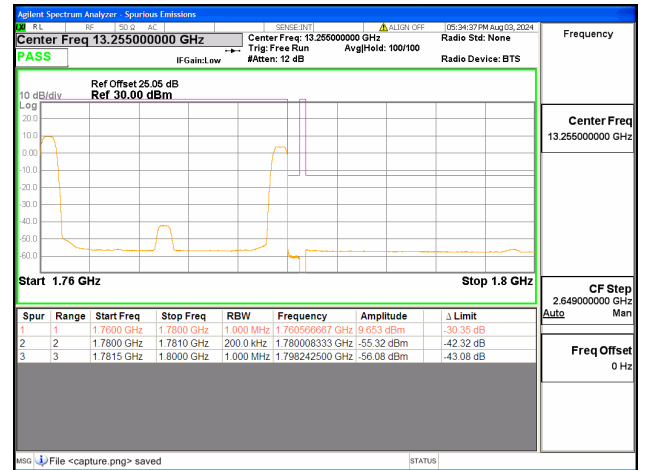
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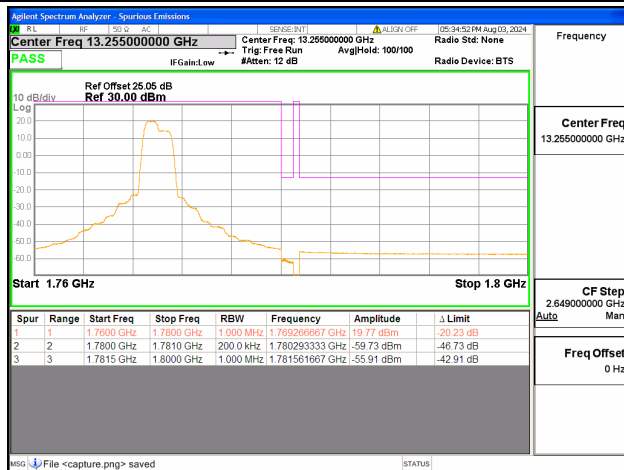
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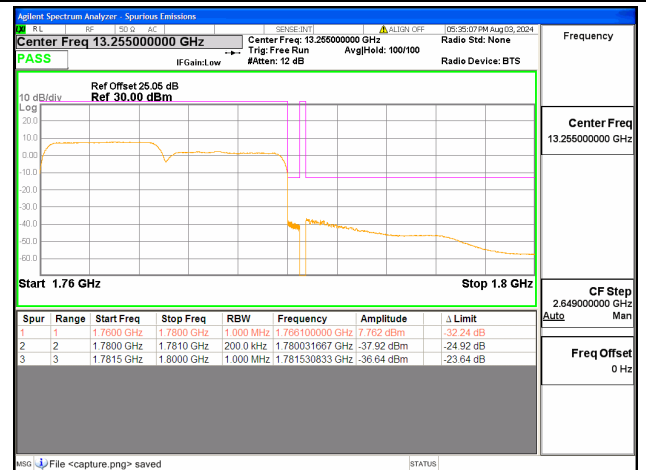
66B / 10+5MHz / High CH / QPSK / 50#0-25#0



66B / 10+10MHz / High CH / QPSK / 1#0-1#49



66B / 10+10MHz / High CH / QPSK / 1#49-1#0



66B / 10+10MHz / High CH / QPSK / 50#0-50#0