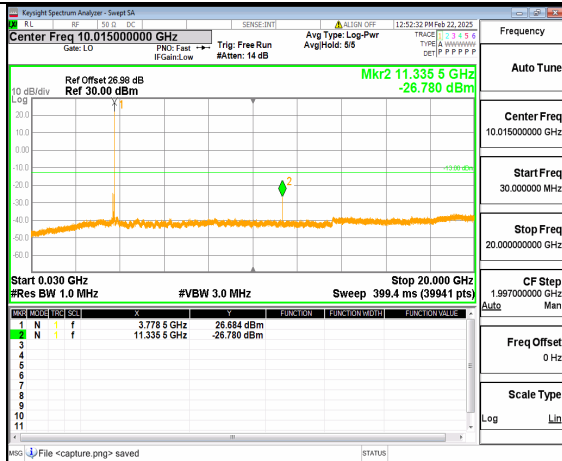
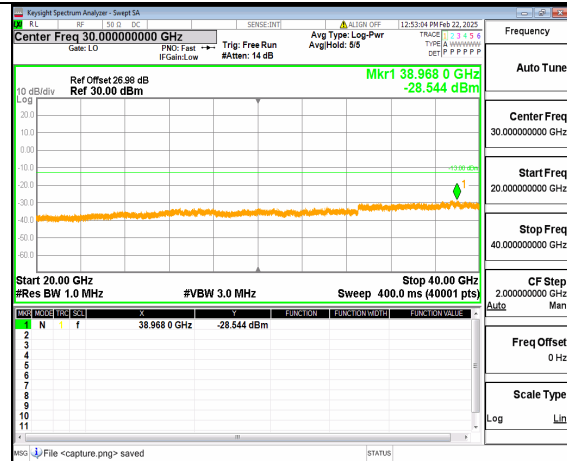
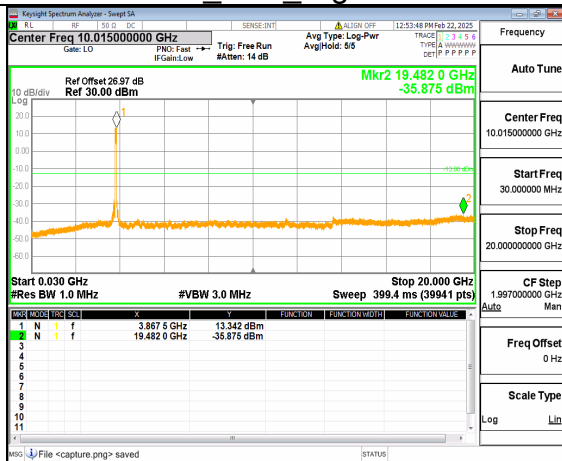




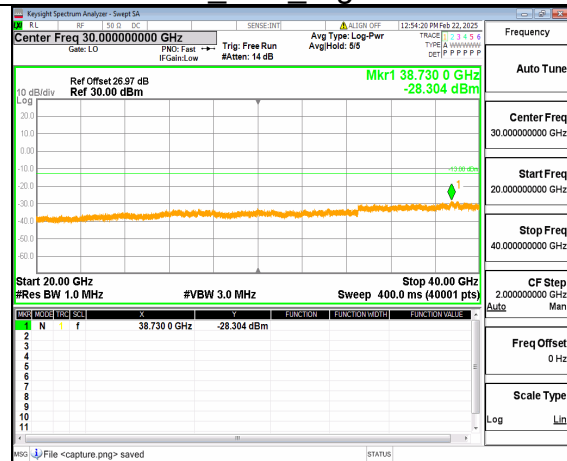
12A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK
Inner_1RB_Right Low



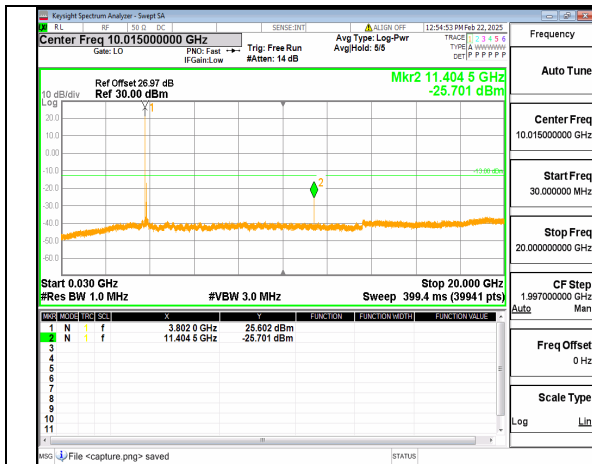
12A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK
Inner_1RB_Right Low



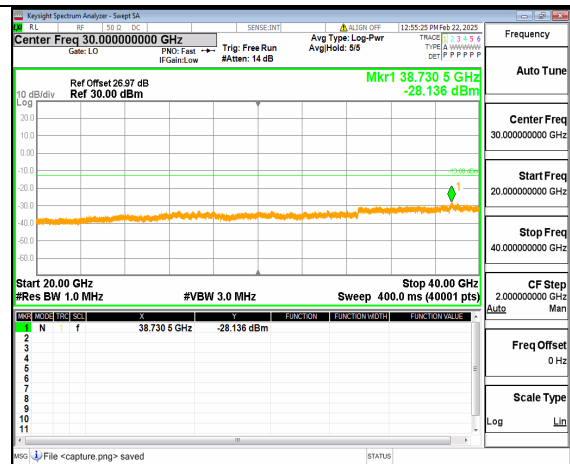
12A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK
Outer_Full Mid



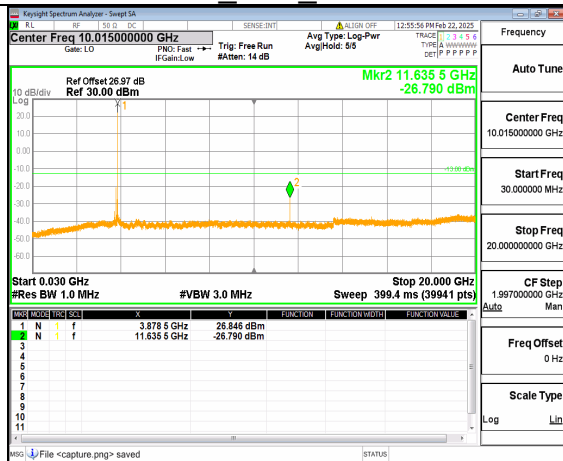
12A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK
Outer_Full Mid



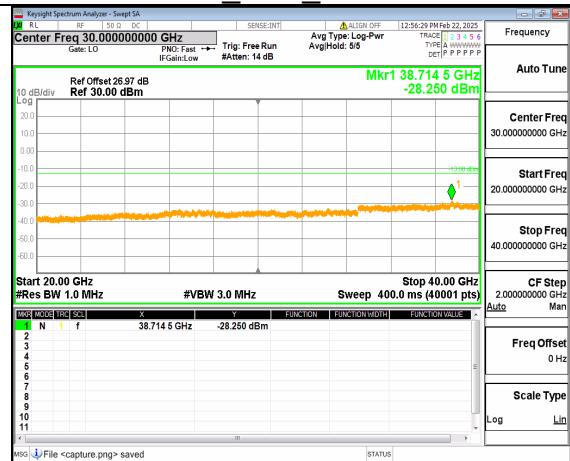
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Inner_1RB_Left Mid



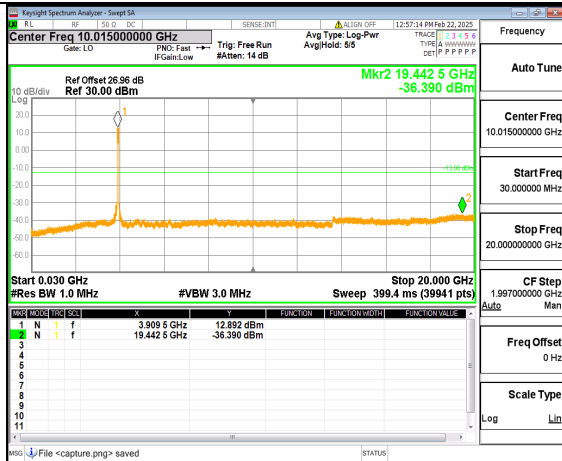
12A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



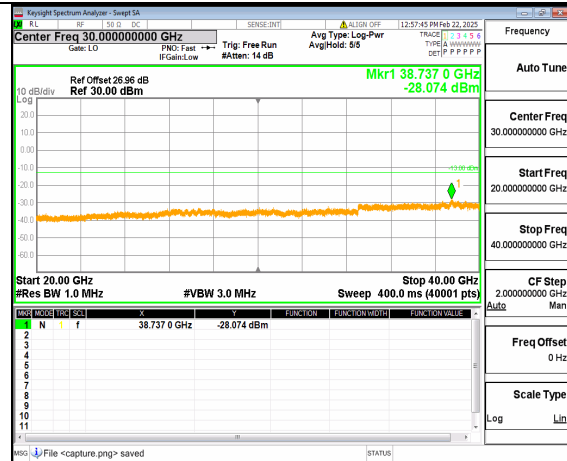
12A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



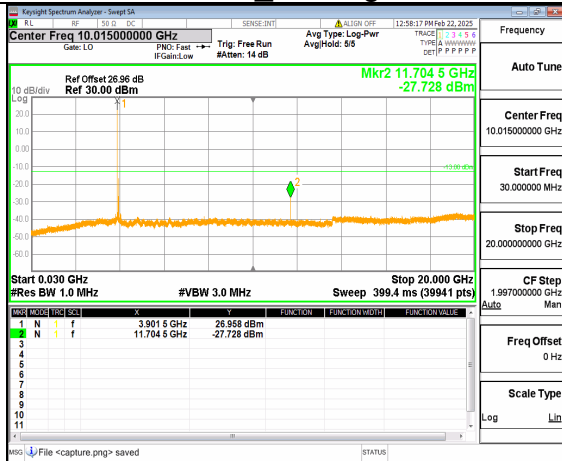
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Inner_1RB_Right Mid



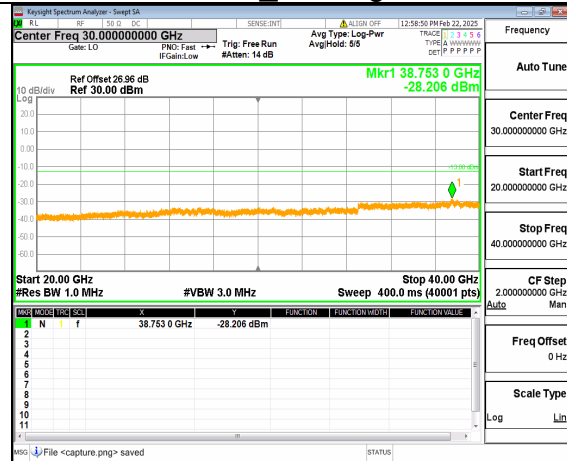
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Outer_Full_High



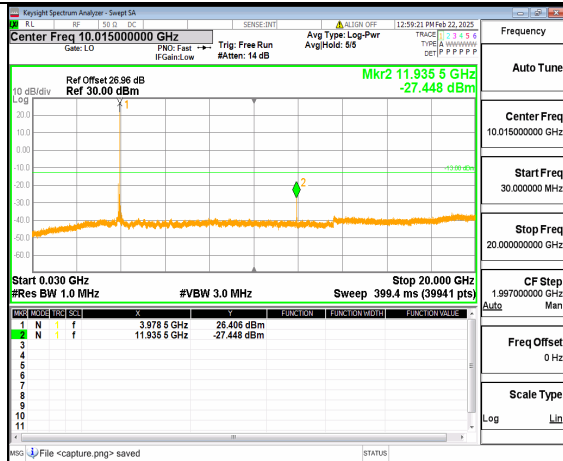
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Outer_Full_High



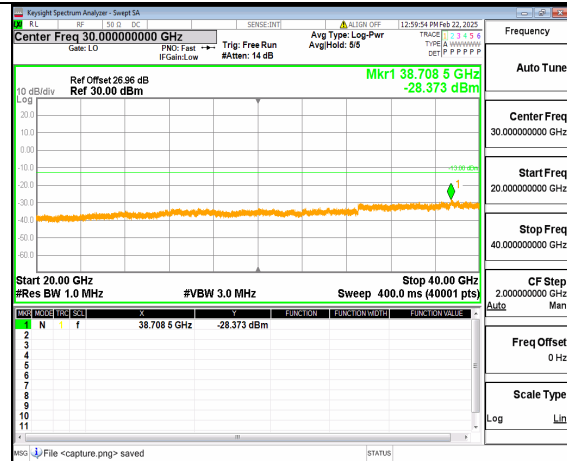
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Inner_1RB_Left_High



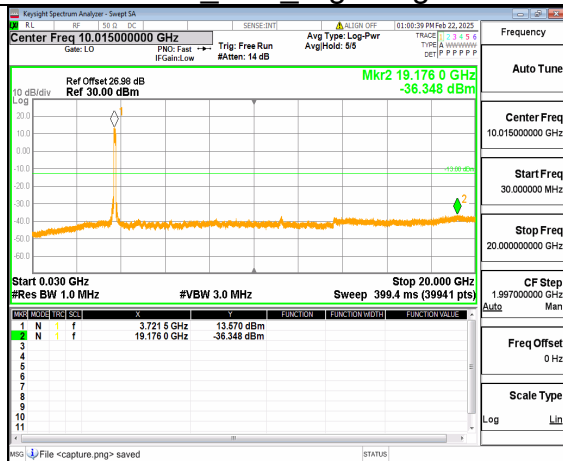
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Inner_1RB_Left_High



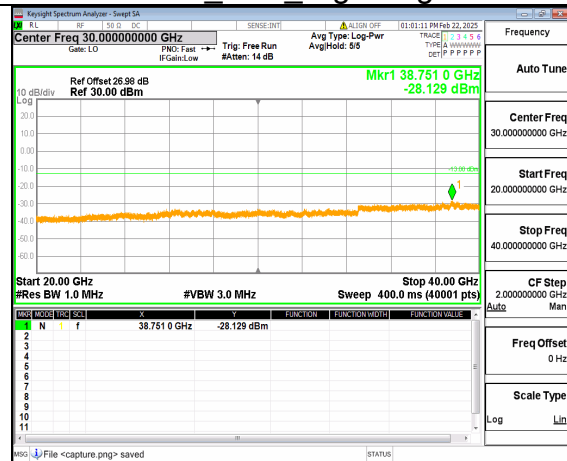
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Inner_1RB_Right_High



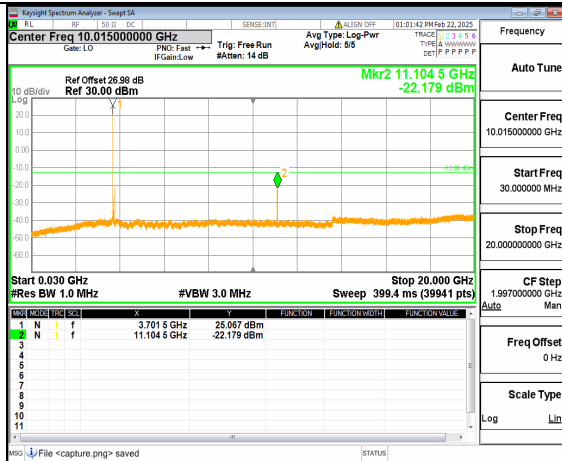
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Inner_1RB_Right_High



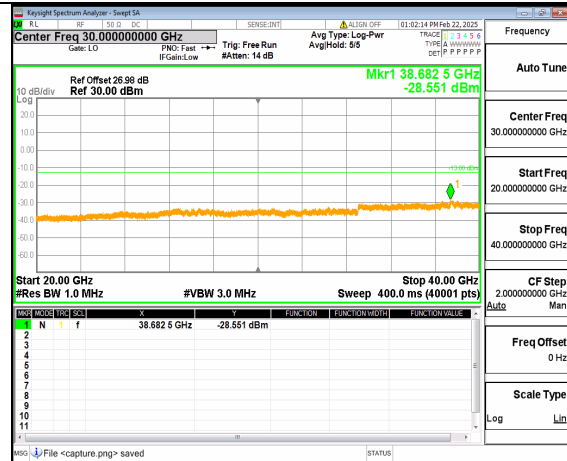
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Outer_Full_Low



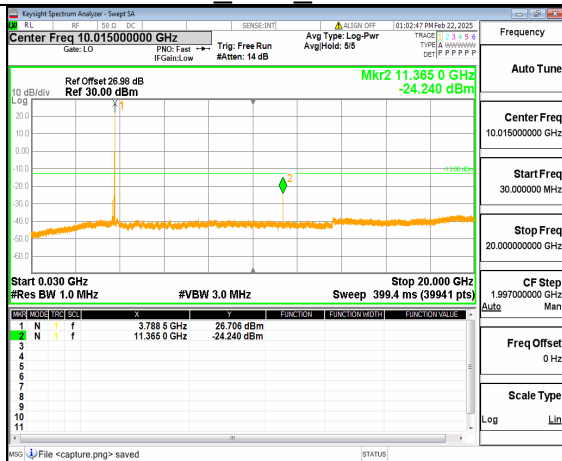
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Outer_Full_Low



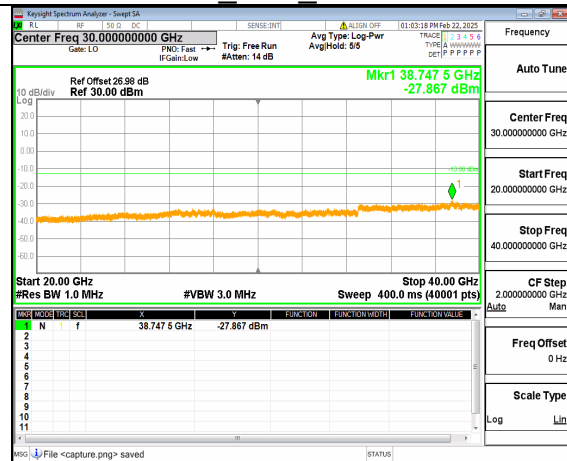
12A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Left Low



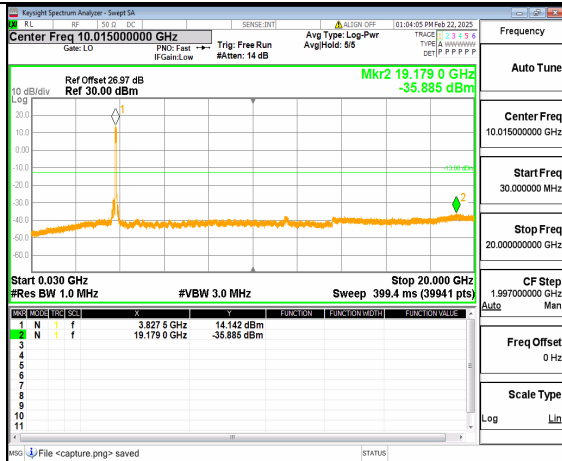
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Inner_1RB_Left Low



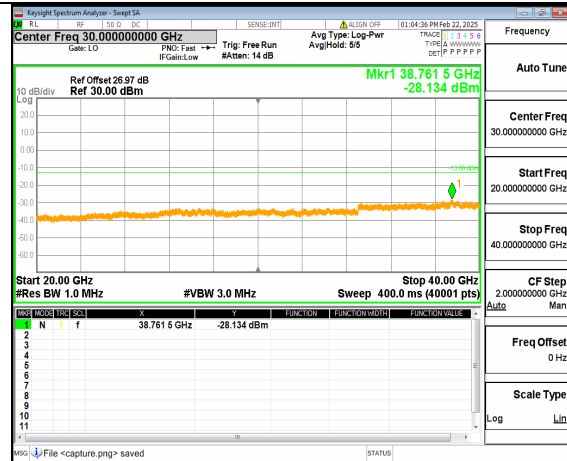
12A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Right Low



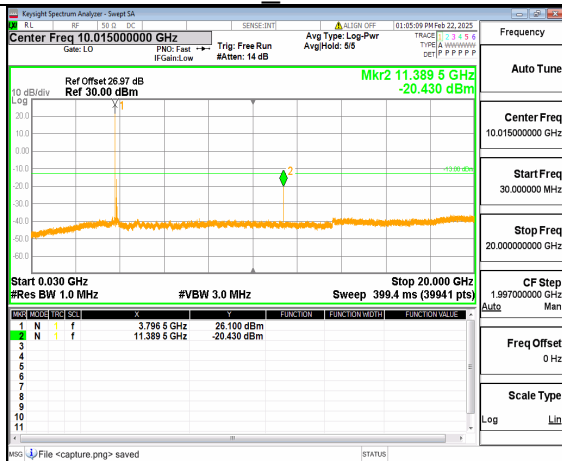
12A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Right Low



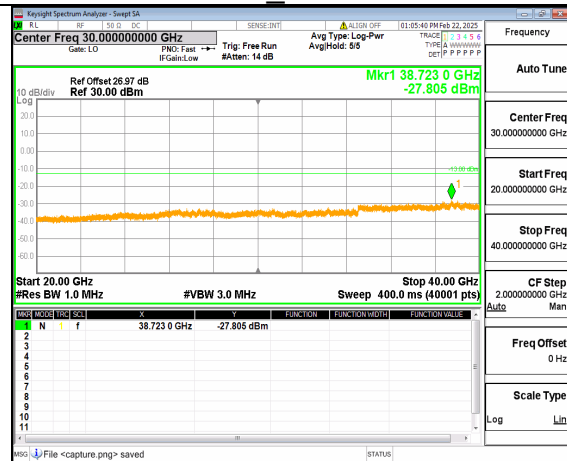
12A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK
Outer_Full_Mid



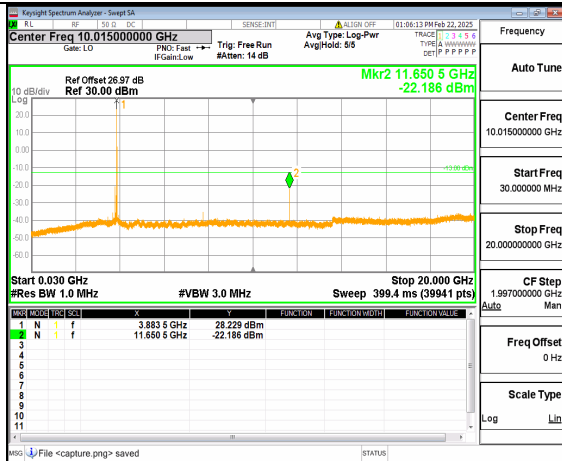
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Outer_Full_Mid



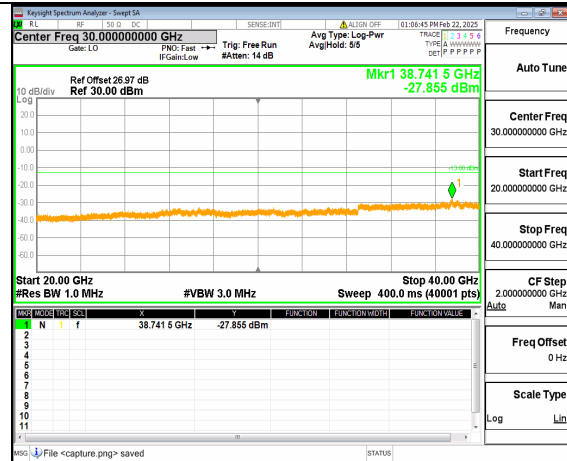
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Inner_1RB_Left_Mid



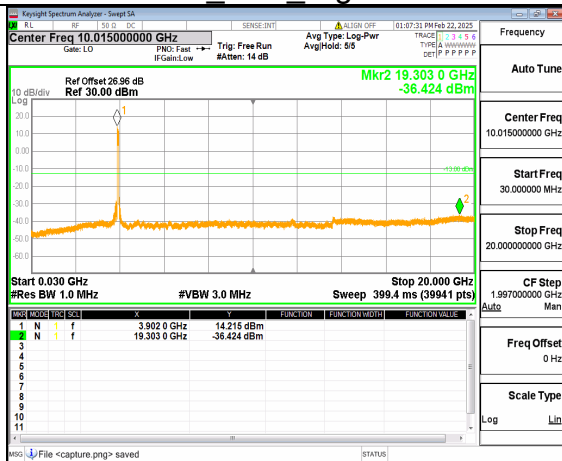
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Inner_1RB_Left_Mid



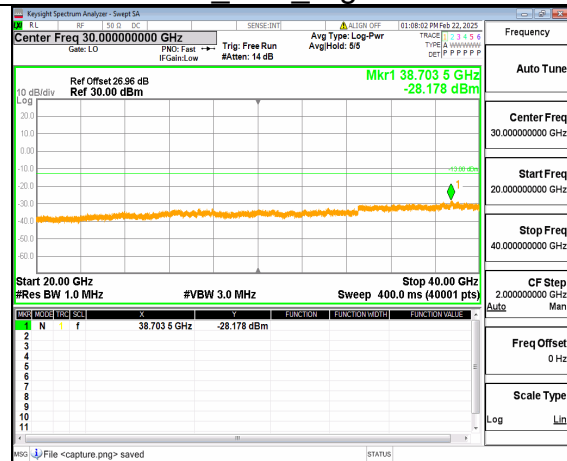
12A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



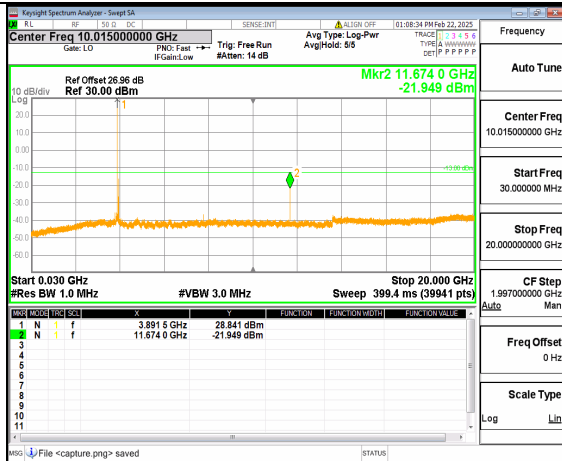
12A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



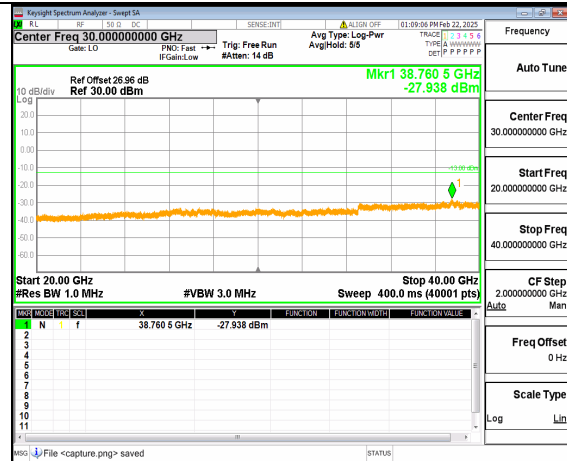
12A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK
Outer_Full High



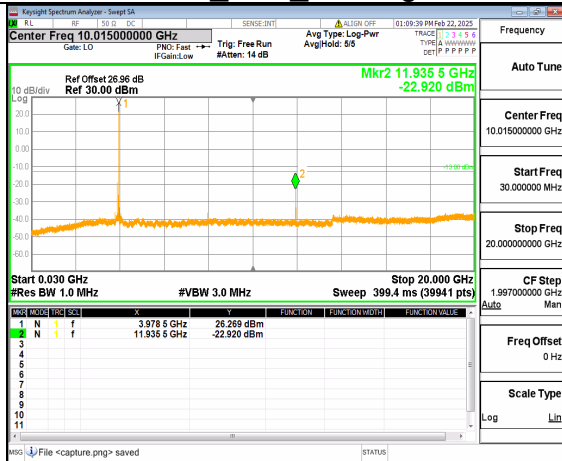
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Outer_Full High



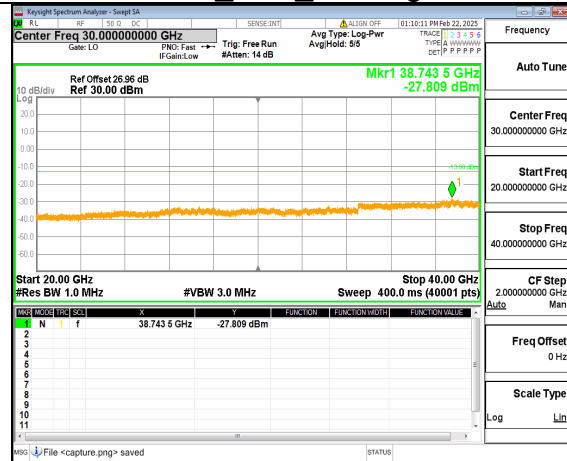
12A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Left High



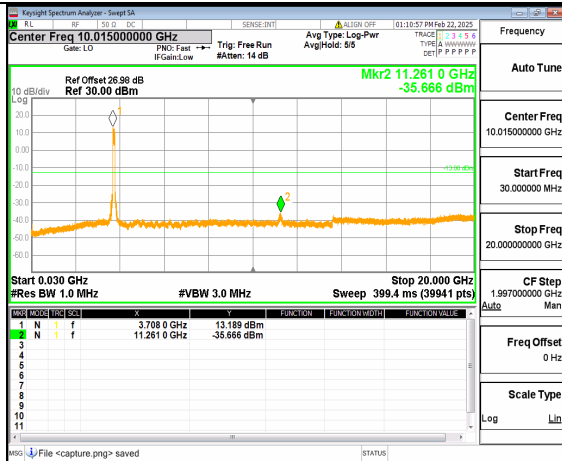
12A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Left High



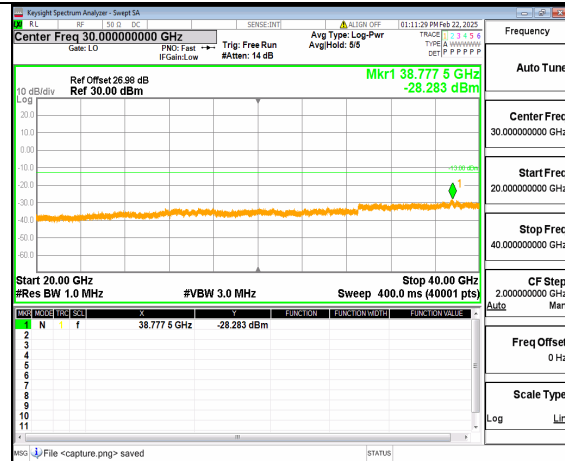
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Inner_1RB_Right High



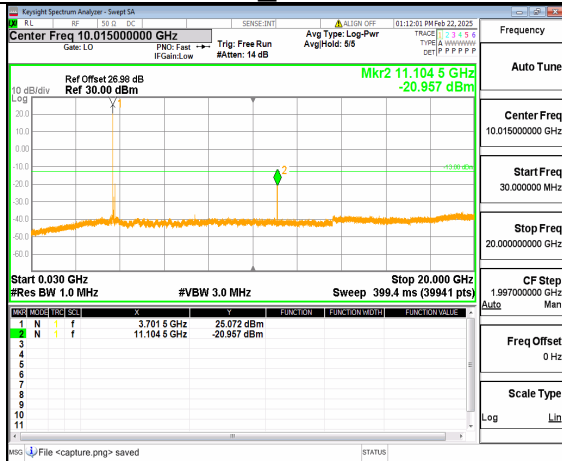
12A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK
Inner_1RB_Right High



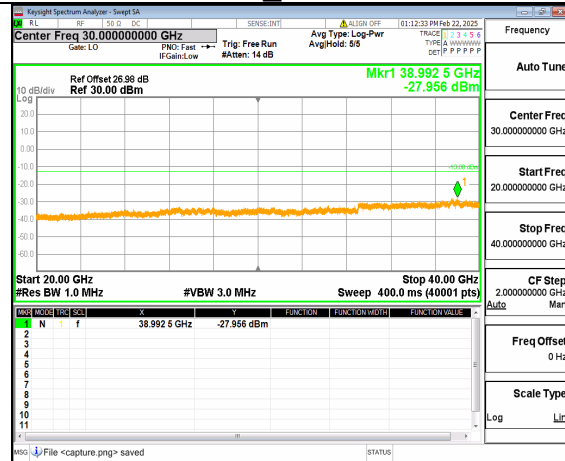
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Outer_Full Low



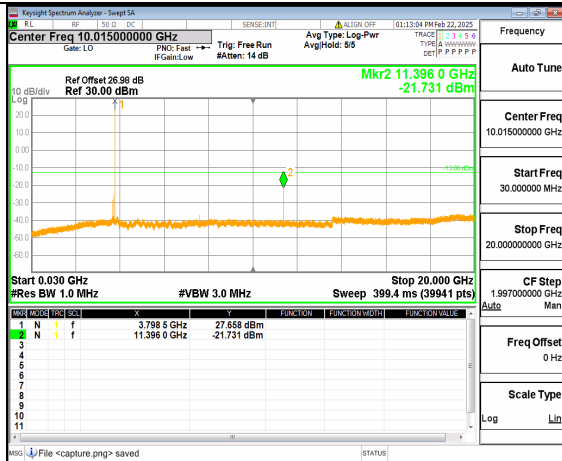
12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Outer_Full Low



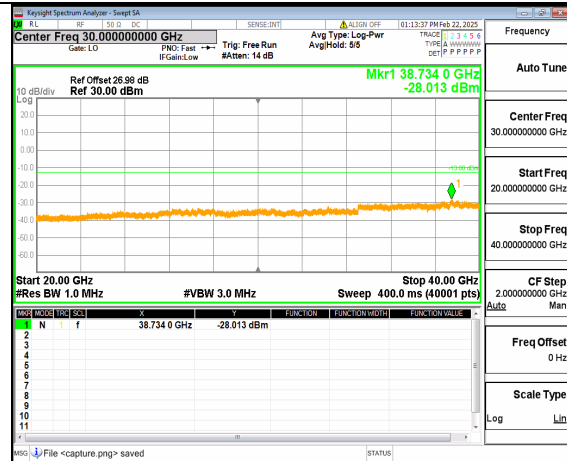
12A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Left Low



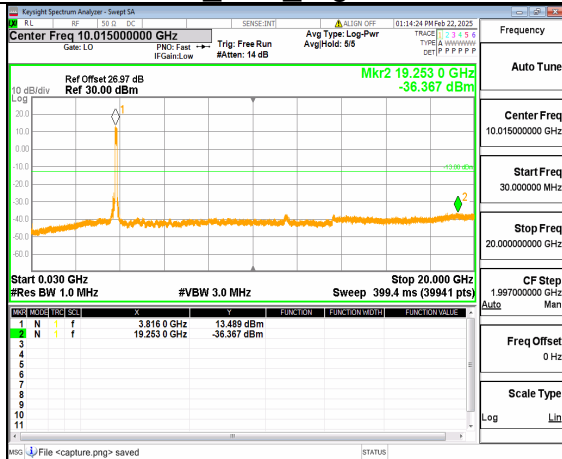
12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Left Low



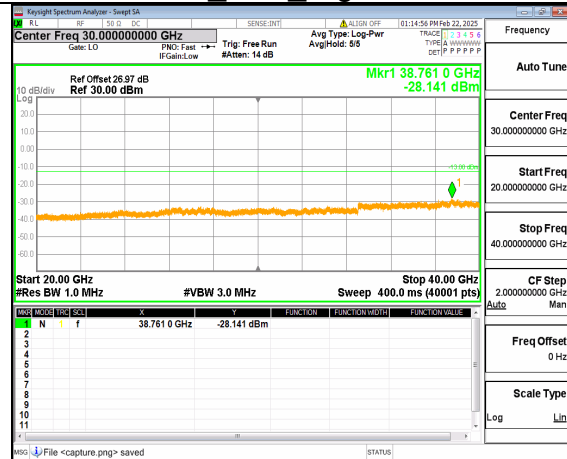
12A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Right Low



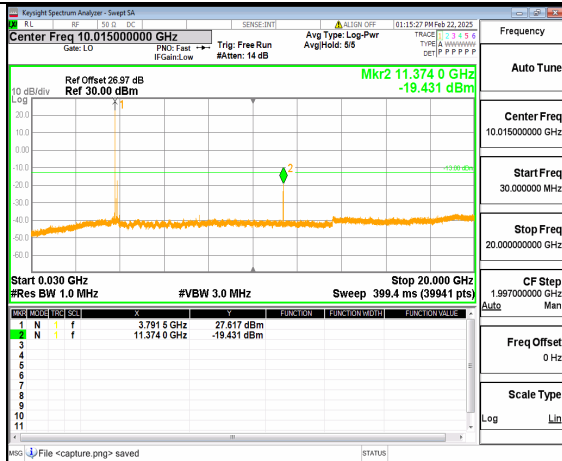
12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Right Low



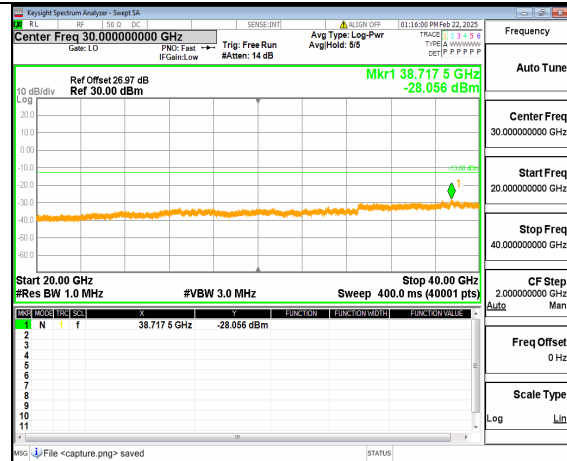
12A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK
Outer_Full Mid



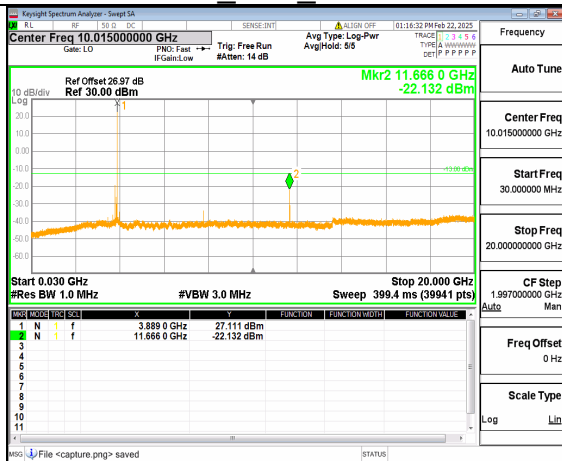
12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Outer_Full Mid



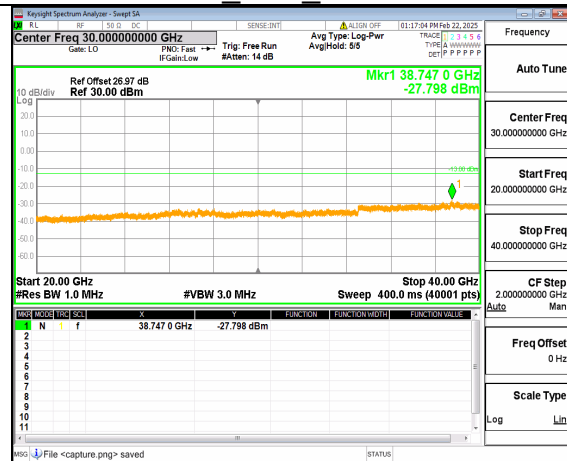
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Inner_1RB_Left Mid



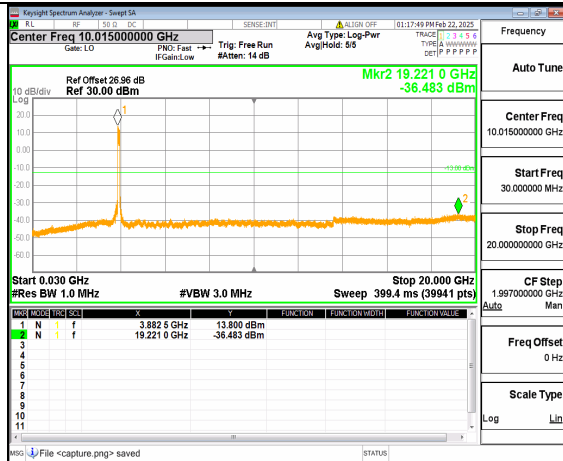
12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



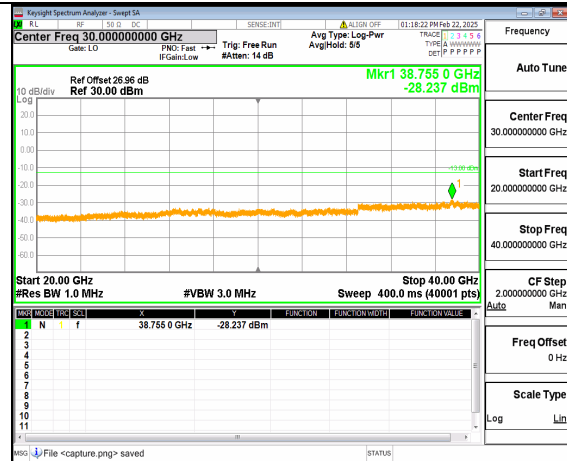
12A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



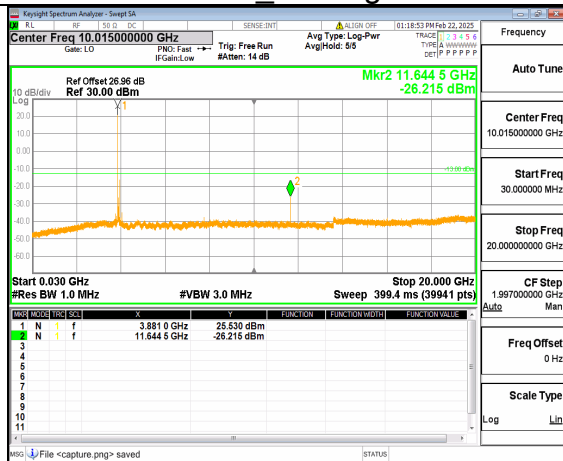
12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



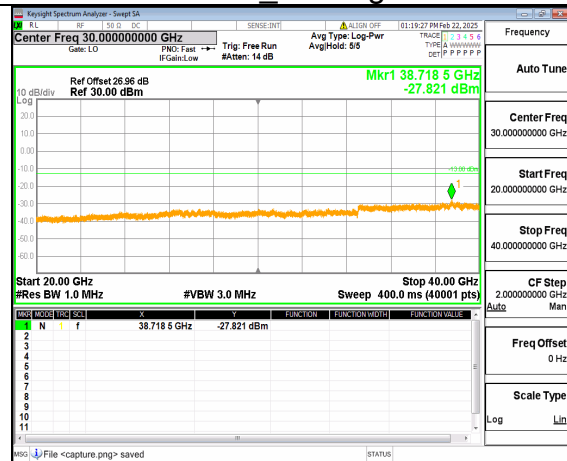
12A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK
Outer_Full_High



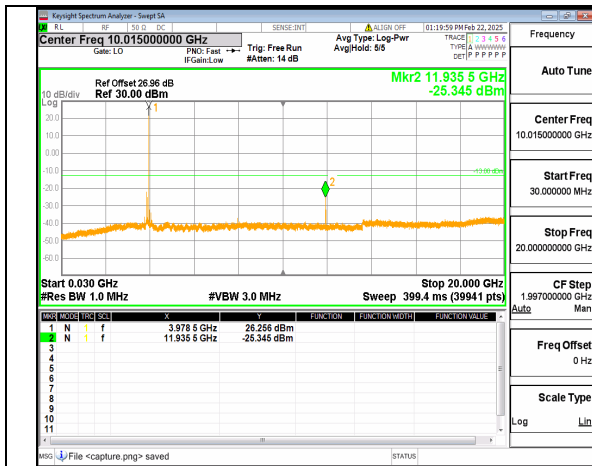
12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Outer_Full_High



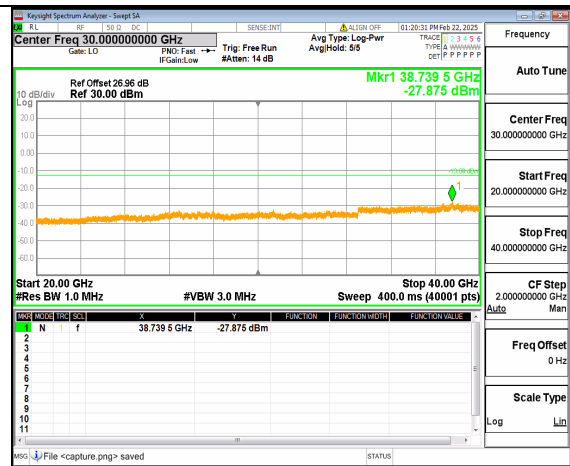
12A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Left_High



12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Left_High



12A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Right High



12A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK
Inner_1RB_Right High

2.6. Band Edge

2.6.1.Requirement

n2

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

n71

According to FCC section 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

n41

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.

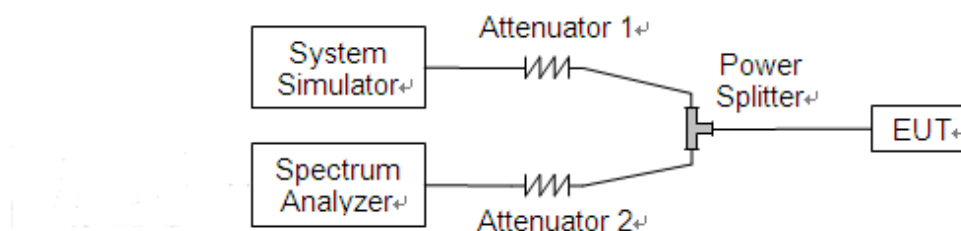
n77 (3700-3980MHz)

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

n77 (3450-3550MHz)

According to FCC section 27.53(n) (2) for,for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

2.6.2. Test Description



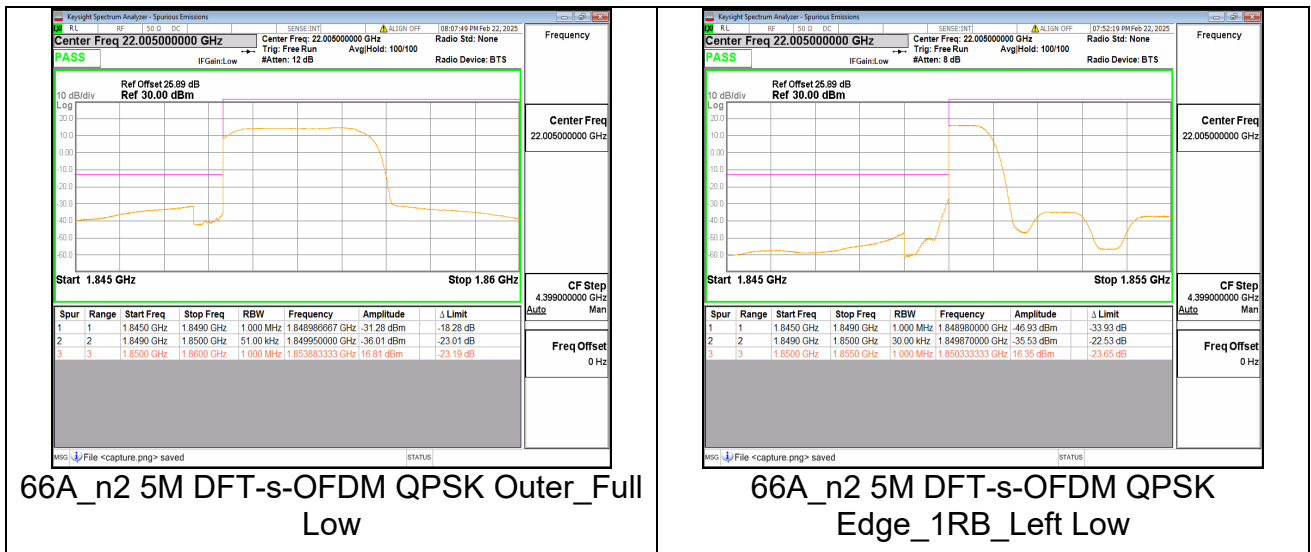
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

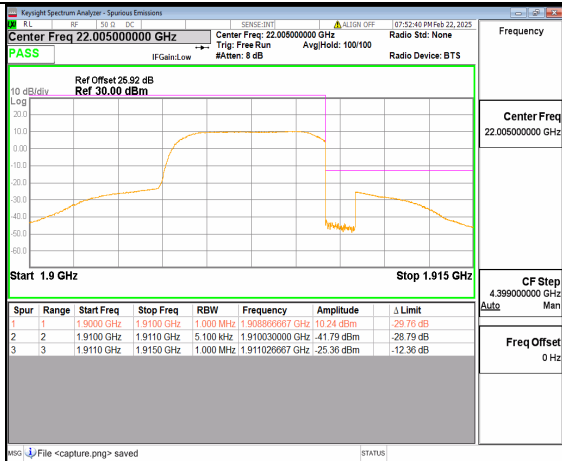
2.6.3. Test procedure

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

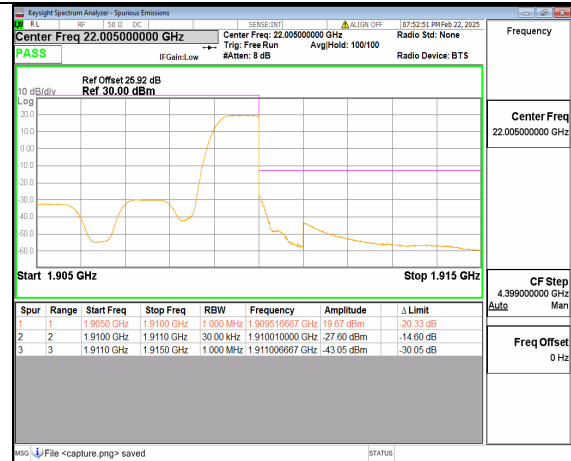
2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

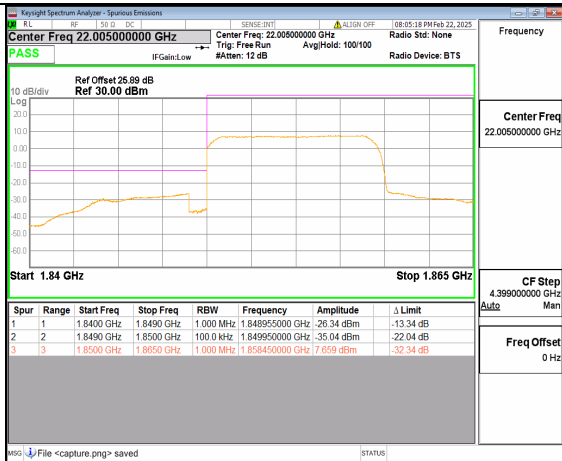




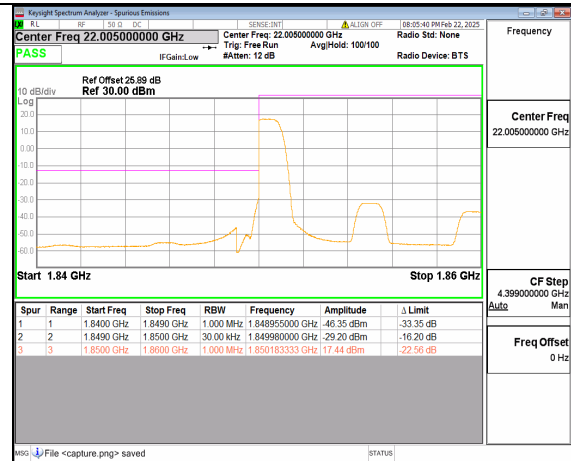
66A_n2 5M DFT-s-OFDM QPSK Outer_Full High



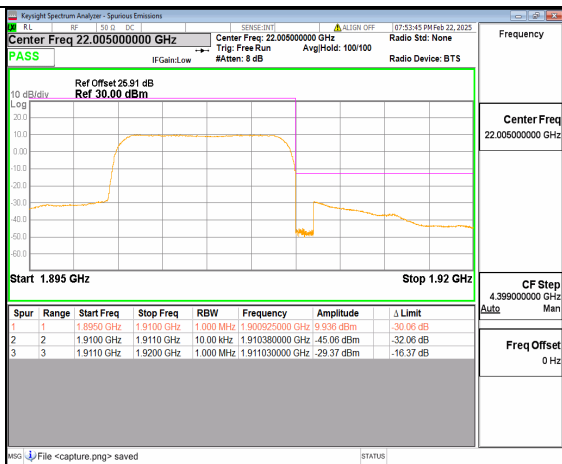
66A_n2 5M DFT-s-OFDM QPSK Edge_1RB_Right High



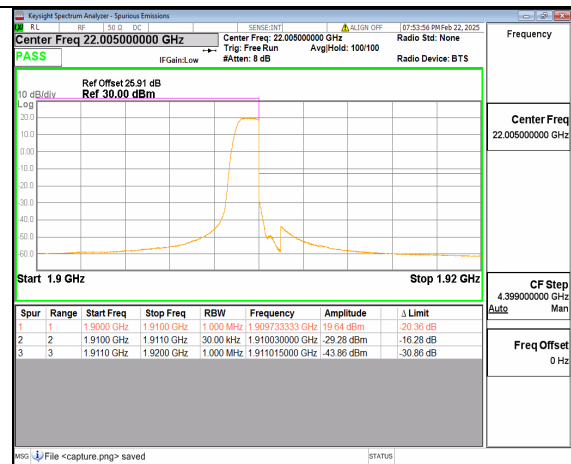
66A_n2 10M DFT-s-OFDM QPSK Outer_Full Low



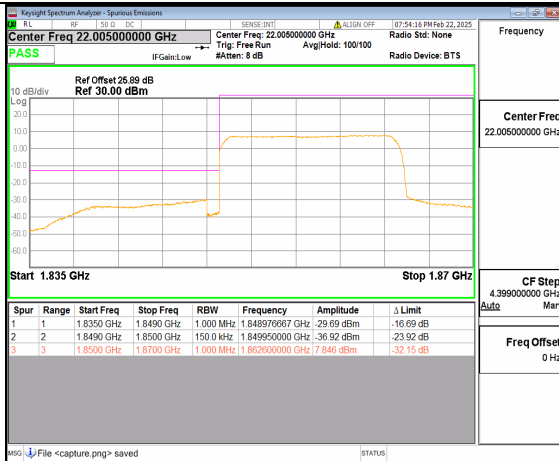
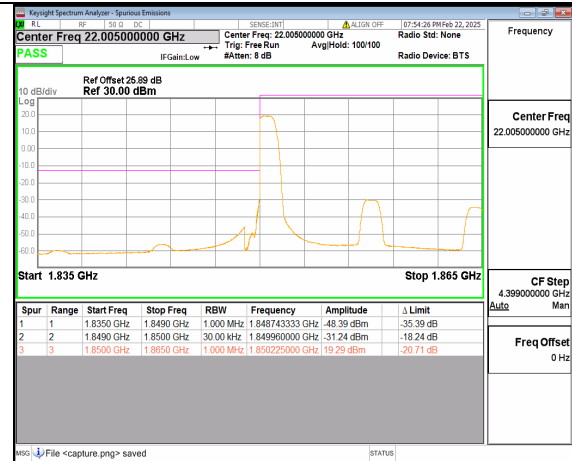
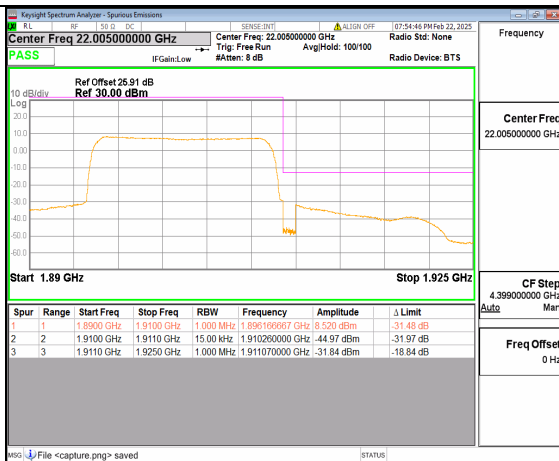
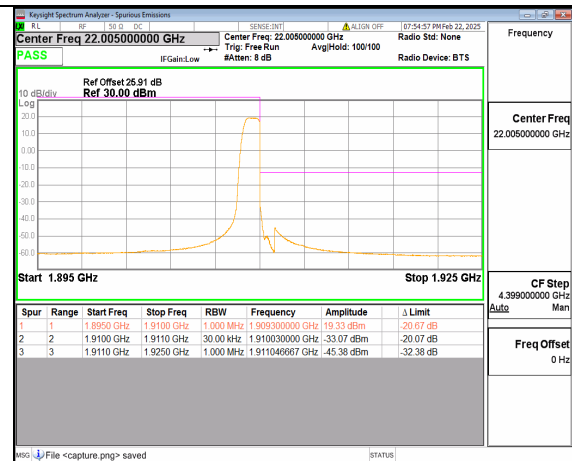
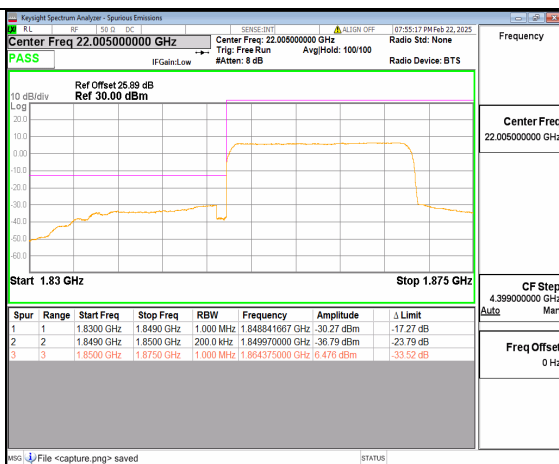
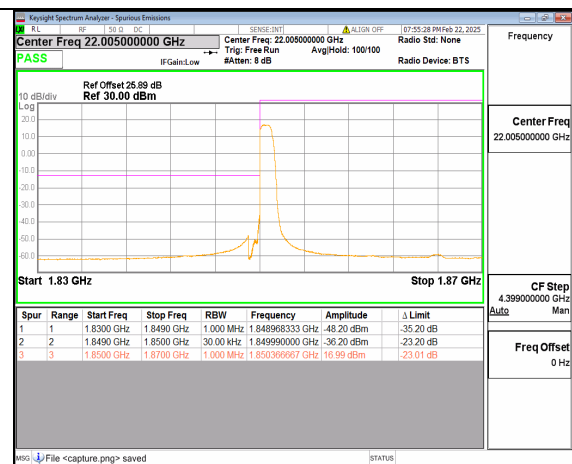
66A_n2 10M DFT-s-OFDM QPSK Edge_1RB_Left Low

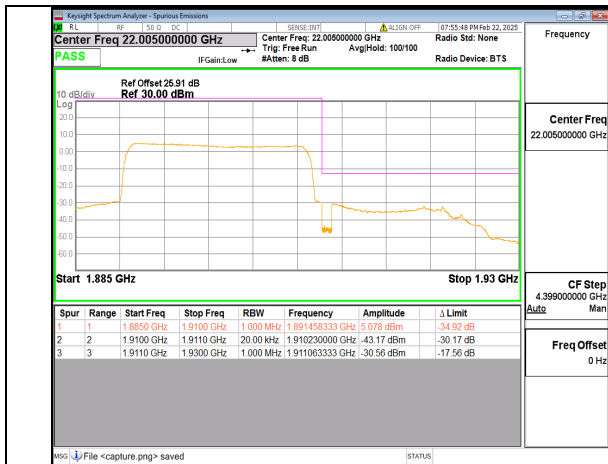


66A_n2 10M DFT-s-OFDM QPSK Outer_Full High

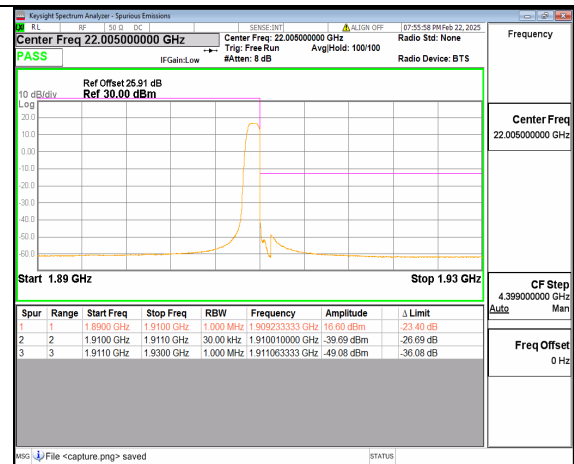


66A_n2 10M DFT-s-OFDM QPSK Edge_1RB_Right High

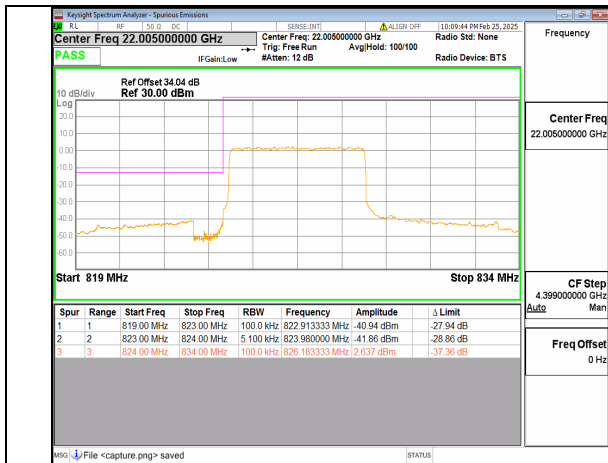
66A_n2 15M DFT-s-OFDM QPSK
Outer_Full Low66A_n2 15M DFT-s-OFDM QPSK
Edge_1RB_Left Low66A_n2 15M DFT-s-OFDM QPSK
Outer_Full High66A_n2 15M DFT-s-OFDM QPSK
Edge_1RB_Right High66A_n2 20M DFT-s-OFDM QPSK
Outer_Full Low66A_n2 20M DFT-s-OFDM QPSK
Edge_1RB_Left Low



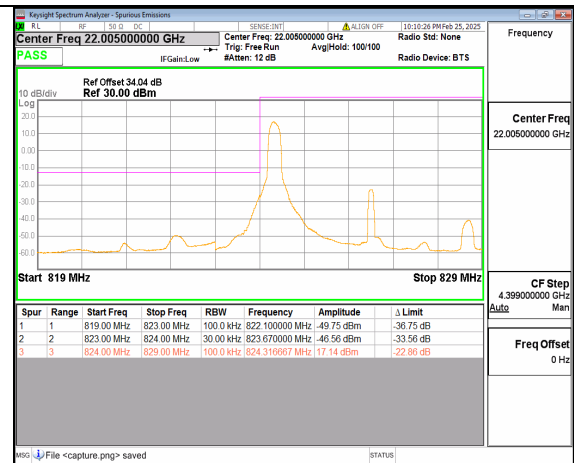
66A_n2 20M DFT-s-OFDM QPSK
Outer_Full High



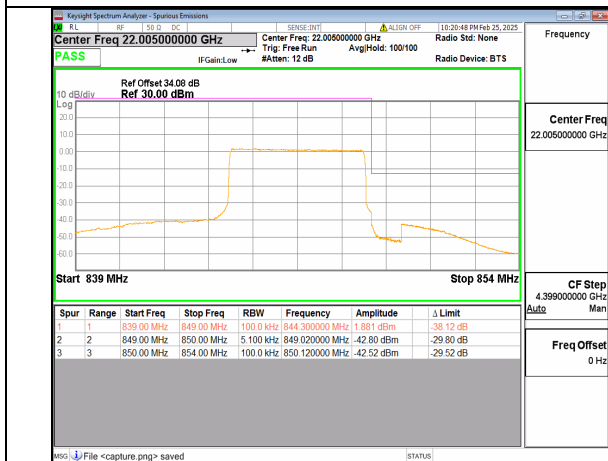
66A_n2 20M DFT-s-OFDM QPSK
Edge_1RB_Right High



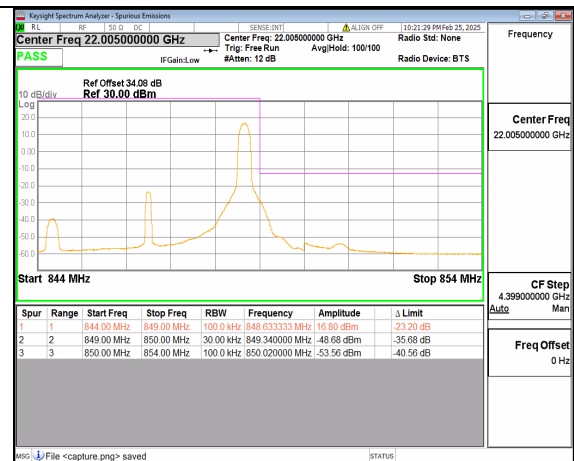
66A_n5 5M DFT-s-OFDM QPSK Outer_Full
Low



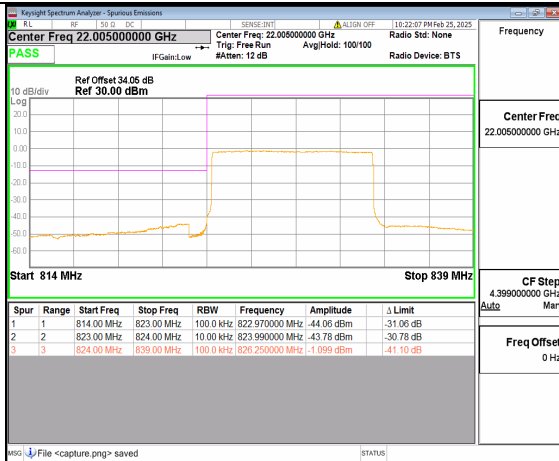
66A_n5 5M DFT-s-OFDM QPSK
Edge_1RB_Left Low



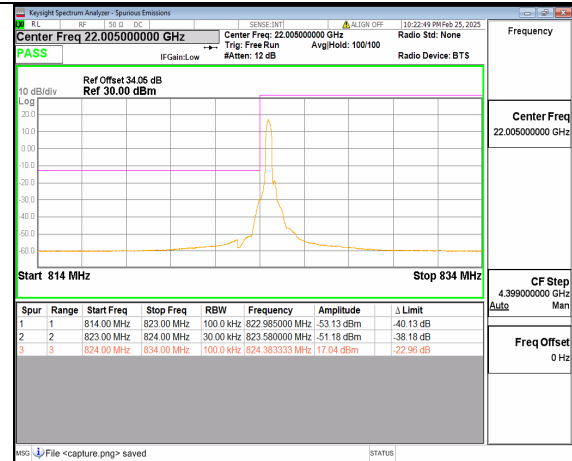
66A_n5 5M DFT-s-OFDM QPSK Outer_Full
High



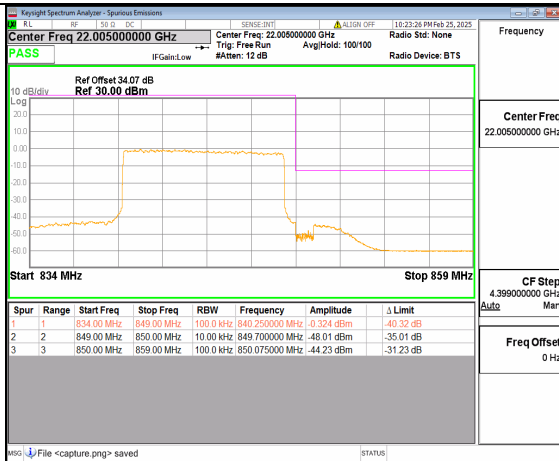
66A_n5 5M DFT-s-OFDM QPSK
Edge_1RB_Right High



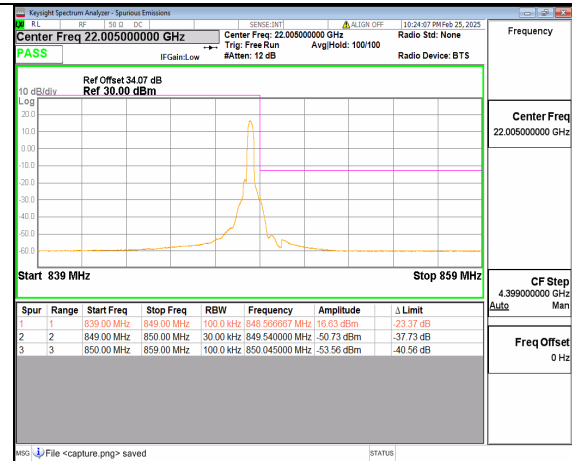
66A_n5 10M DFT-s-OFDM QPSK
Outer_Full Low



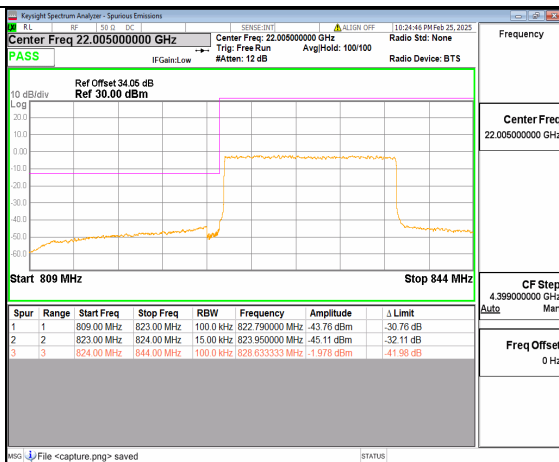
66A_n5 10M DFT-s-OFDM QPSK
Edge_1RB_Left Low



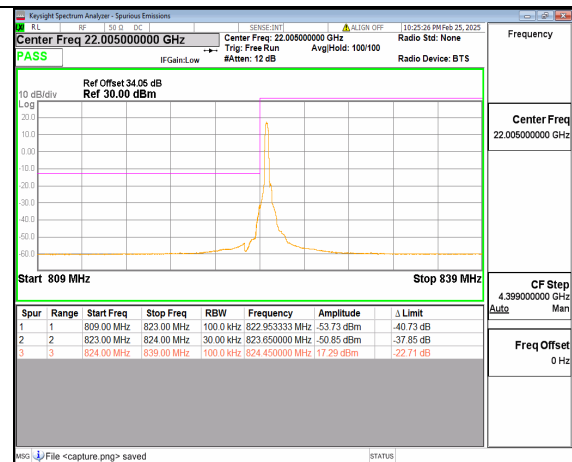
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Outer_Full High



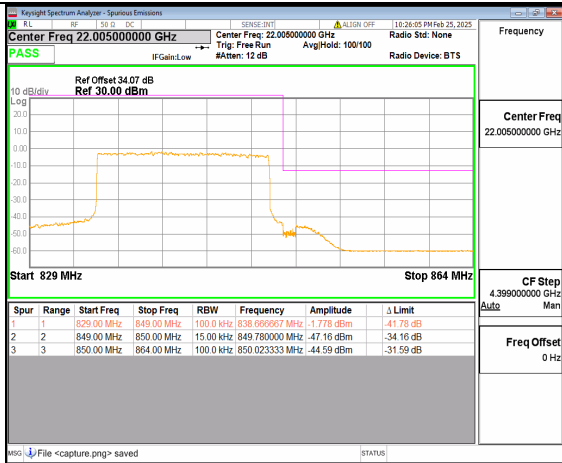
66A_n5 10M DFT-s-OFDM QPSK
Edge_1RB_Right High



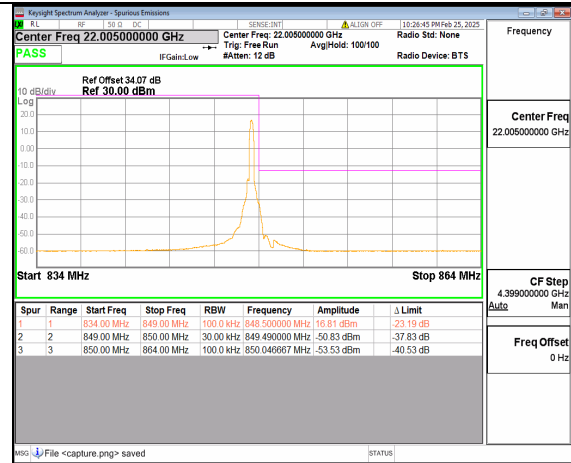
66A_n5 15M DFT-s-OFDM QPSK
Outer_Full Low



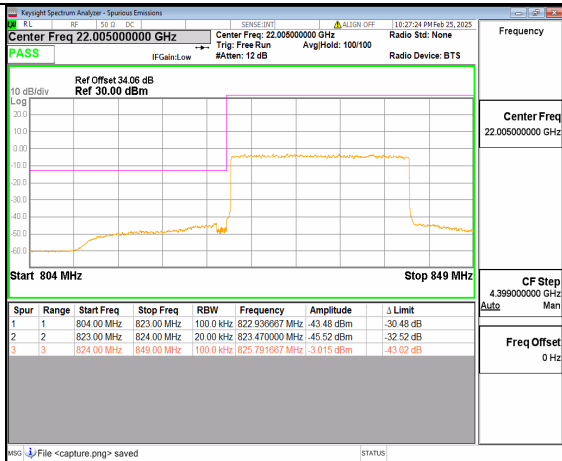
66A_n5 15M DFT-s-OFDM QPSK
Edge_1RB_Left Low



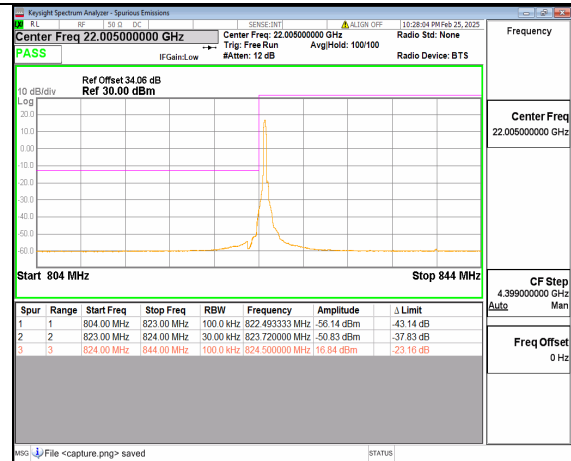
66A_n5 15M DFT-s-OFDM QPSK
Outer_Full High



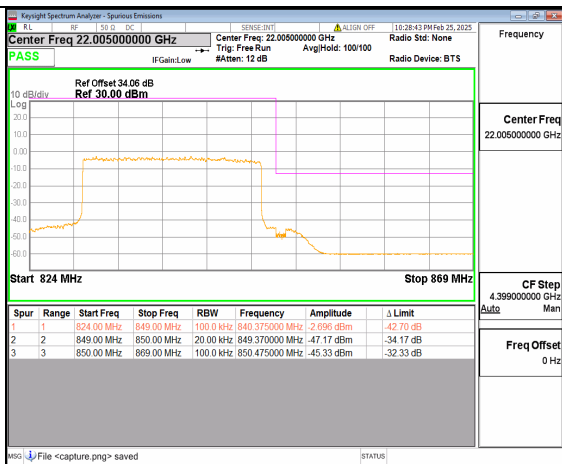
66A_n5 15M DFT-s-OFDM QPSK
Edge_1RB_Right High



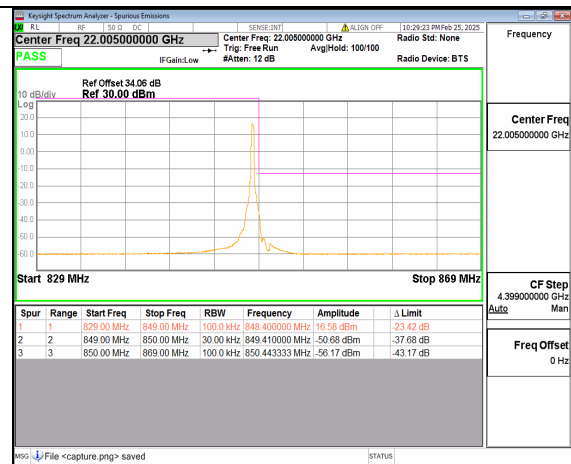
66A_n5 20M DFT-s-OFDM QPSK
Outer_Full Low



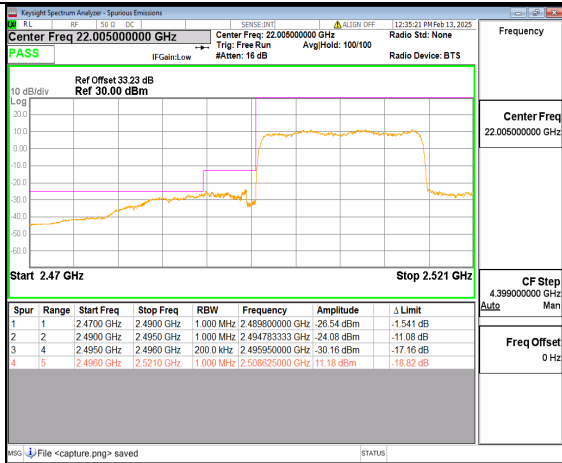
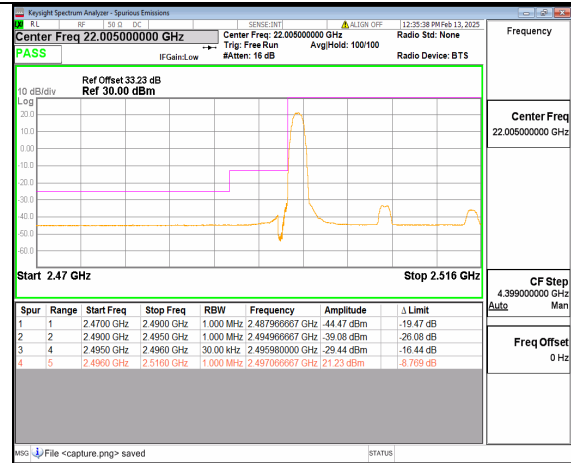
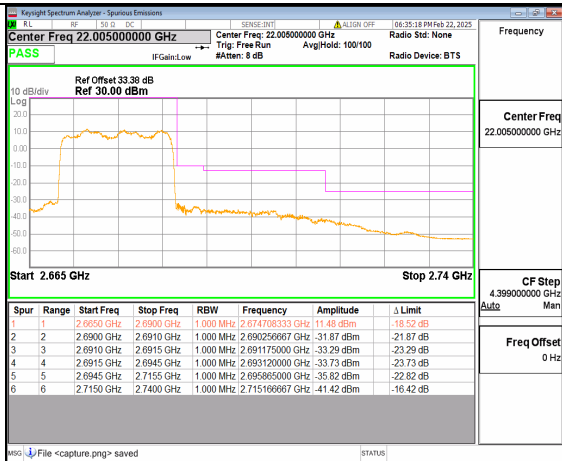
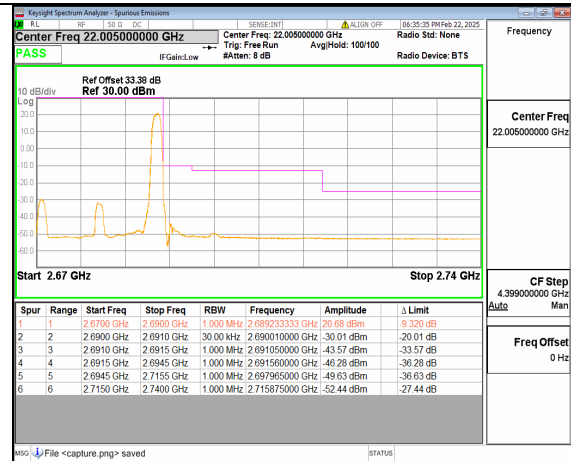
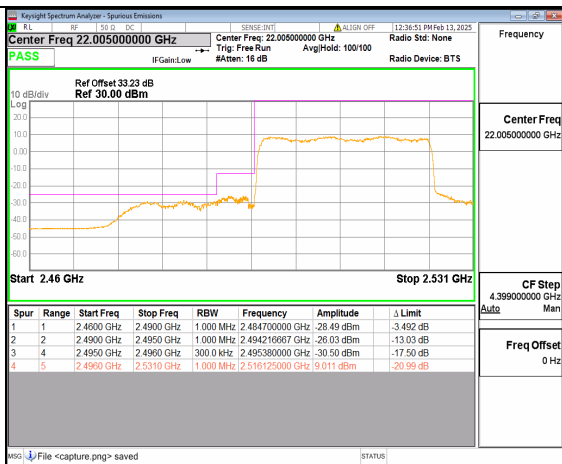
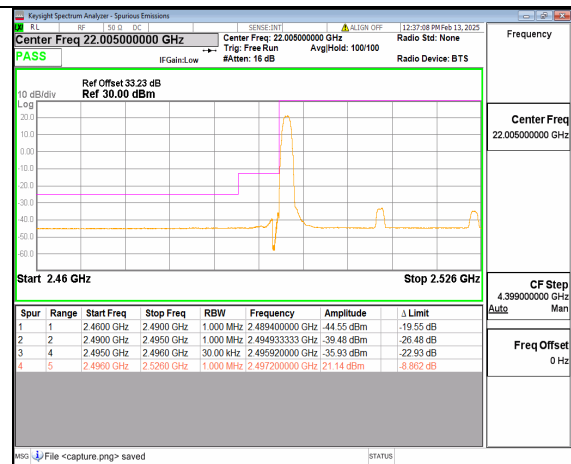
66A_n5 20M DFT-s-OFDM QPSK
Edge_1RB_Left Low

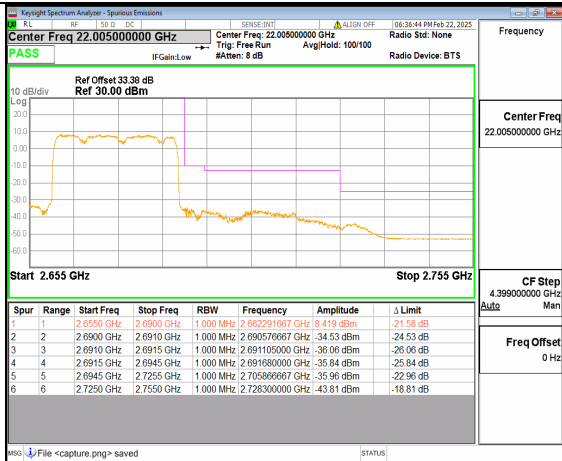
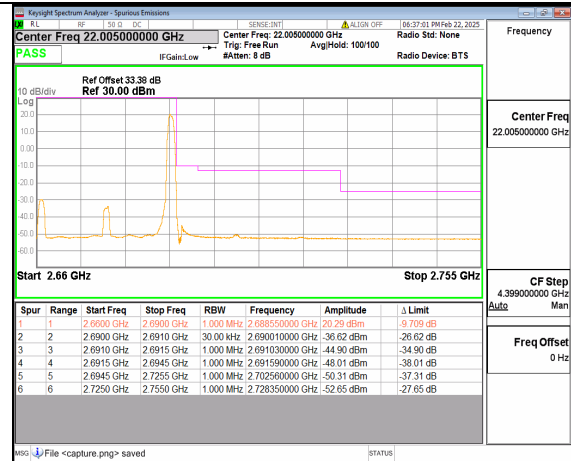
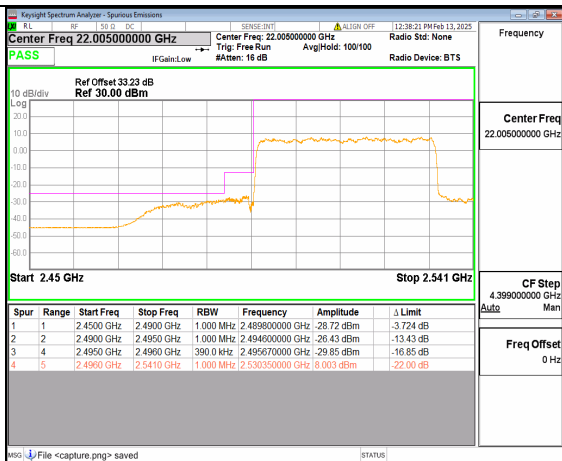
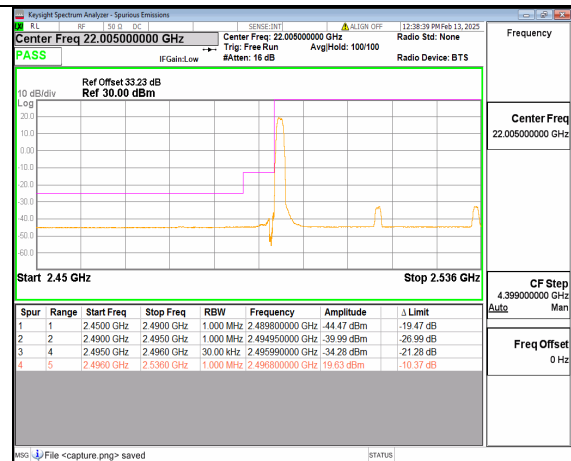
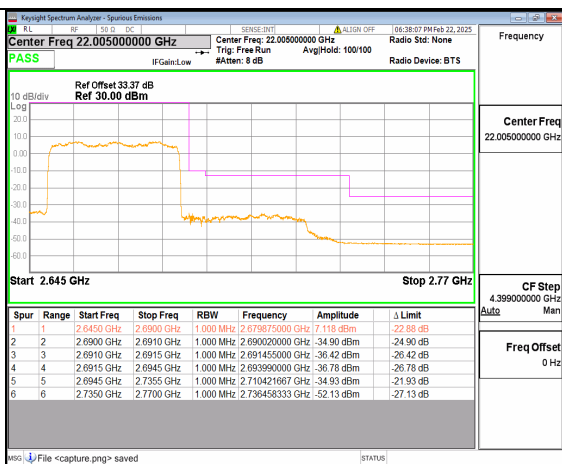
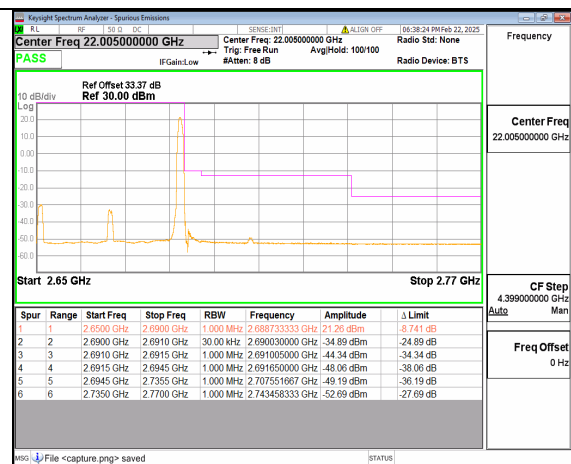


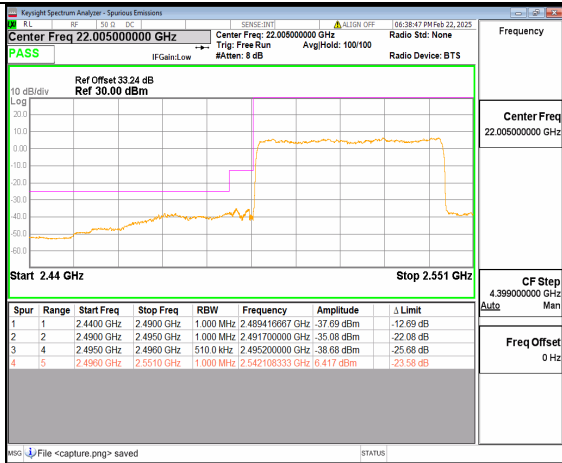
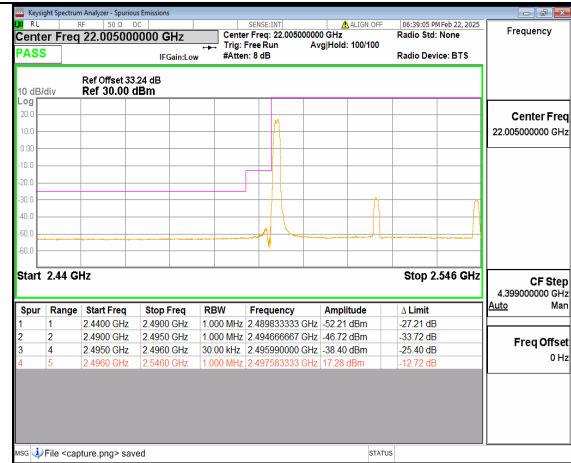
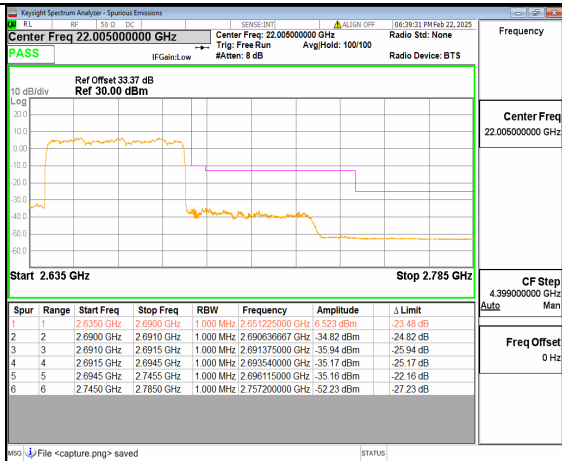
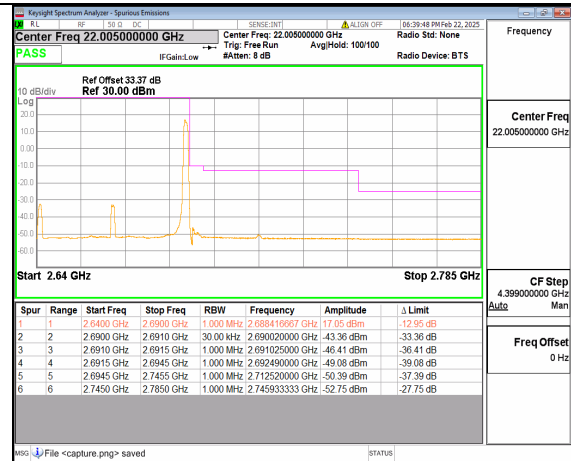
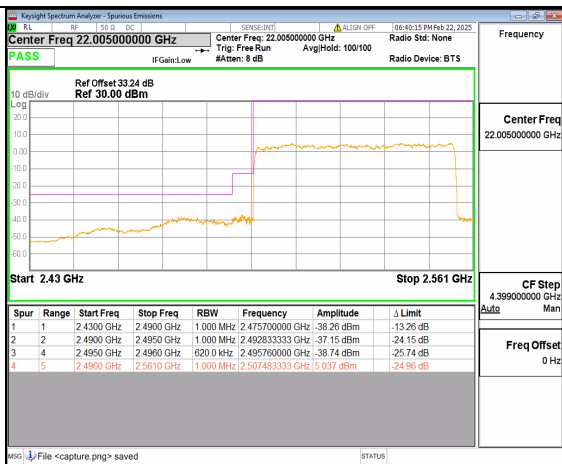
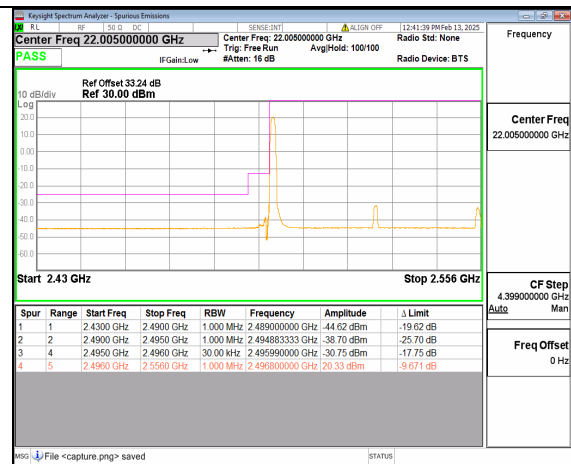
66A_n5 20M DFT-s-OFDM QPSK
Outer_Full High

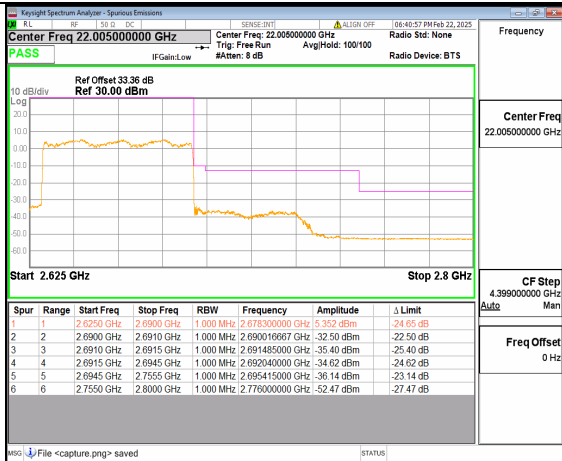
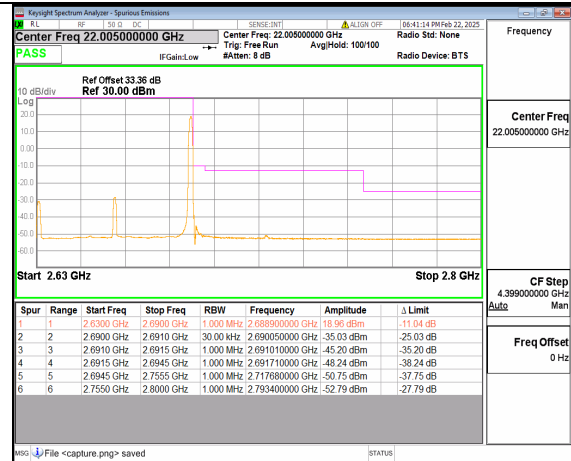
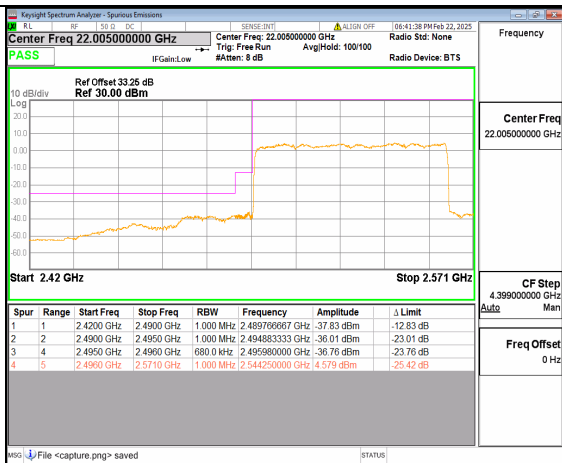
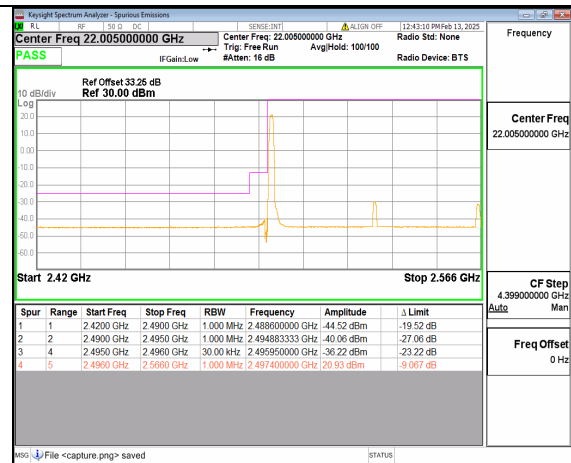
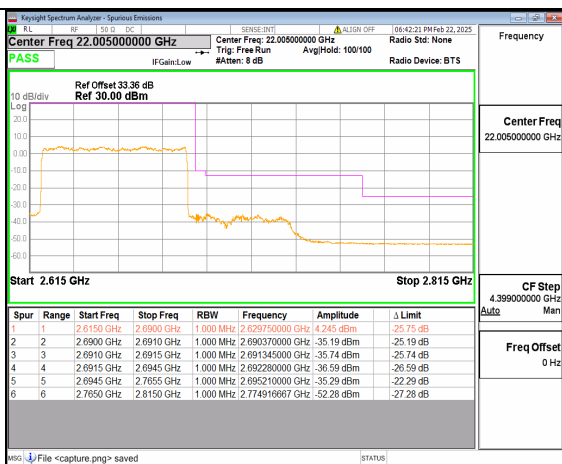
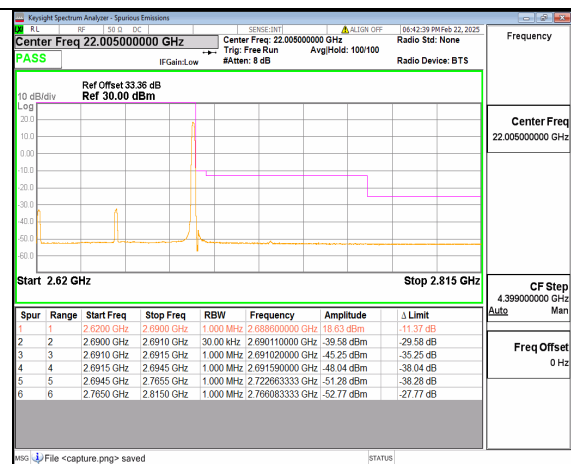


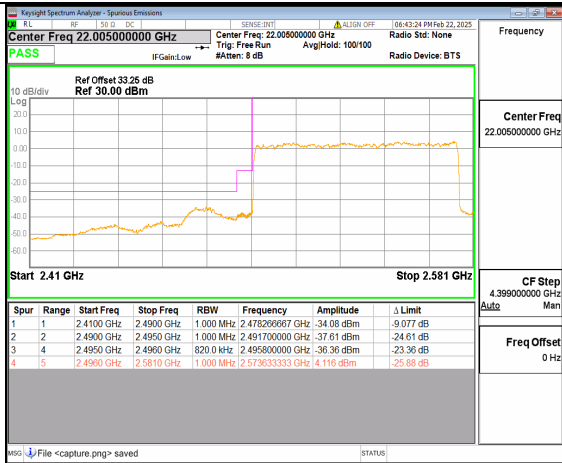
66A_n5 20M DFT-s-OFDM QPSK
Edge_1RB_Right High

66A_n41 20M DFT-s-OFDM QPSK
Outer_Full Low66A_n41 20M DFT-s-OFDM QPSK
Edge_1RB_Left Low66A_n41 20M DFT-s-OFDM QPSK
Outer_Full High66A_n41 20M DFT-s-OFDM QPSK
Edge_1RB_Right High66A_n41 30M DFT-s-OFDM QPSK
Outer_Full Low66A_n41 30M DFT-s-OFDM QPSK
Edge_1RB_Left Low

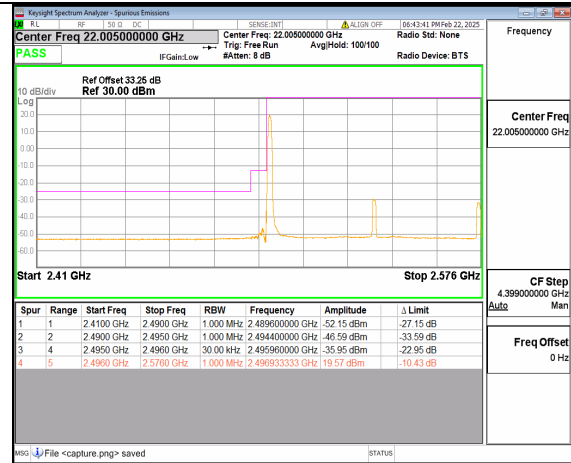
66A_n41 30M DFT-s-OFDM QPSK
Outer_Full High66A_n41 30M DFT-s-OFDM QPSK
Edge_1RB_Right High66A_n41 40M DFT-s-OFDM QPSK
Outer_Full Low66A_n41 40M DFT-s-OFDM QPSK
Edge_1RB_Left Low66A_n41 40M DFT-s-OFDM QPSK
Outer_Full High66A_n41 40M DFT-s-OFDM QPSK
Edge_1RB_Right High

66A_n41 50M DFT-s-OFDM QPSK
Outer_Full Low66A_n41 50M DFT-s-OFDM QPSK
Edge_1RB_Left Low66A_n41 50M DFT-s-OFDM QPSK
Outer_Full High66A_n41 50M DFT-s-OFDM QPSK
Edge_1RB_Right High66A_n41 60M DFT-s-OFDM QPSK
Outer_Full Low66A_n41 60M DFT-s-OFDM QPSK
Edge_1RB_Left Low

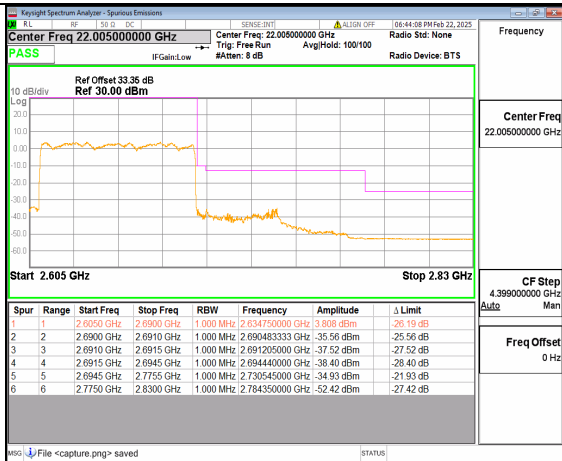
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Outer_Full High66A_n41 60M DFT-s-OFDM QPSK
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Outer_Full Low66A_n41 70M DFT-s-OFDM QPSK
Edge_1RB_Left Low66A_n41 70M DFT-s-OFDM QPSK
Outer_Full High66A_n41 70M DFT-s-OFDM QPSK
Edge_1RB_Right High



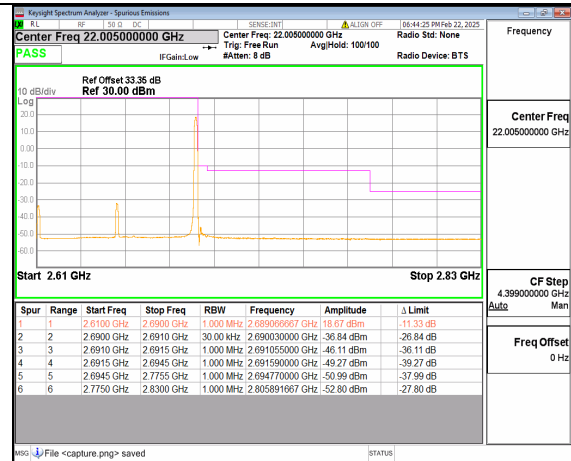
66A_n41 80M DFT-s-OFDM QPSK
Outer_Full Low



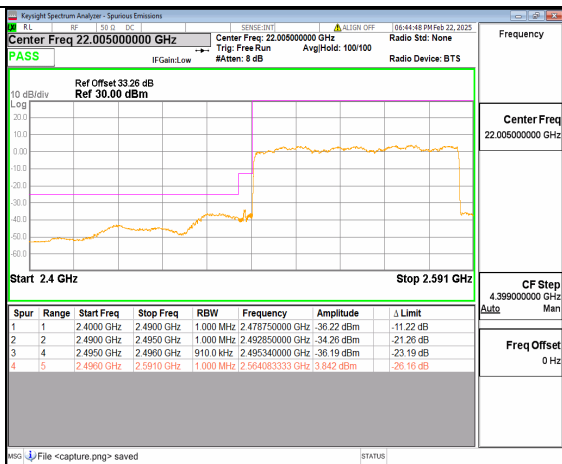
66A_n41 80M DFT-s-OFDM QPSK
Edge_1RB_Left Low



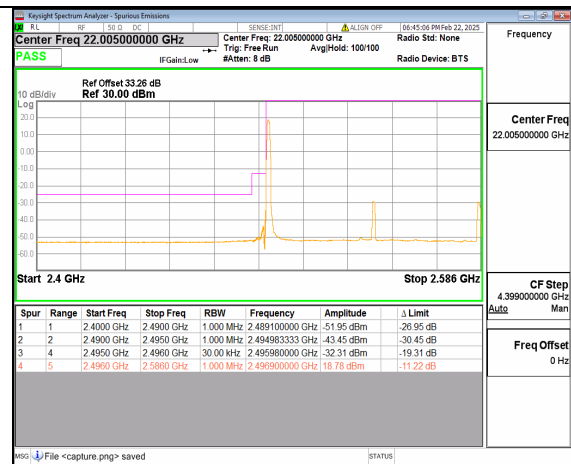
66A_n41 80M DFT-s-OFDM QPSK
Outer_Full High



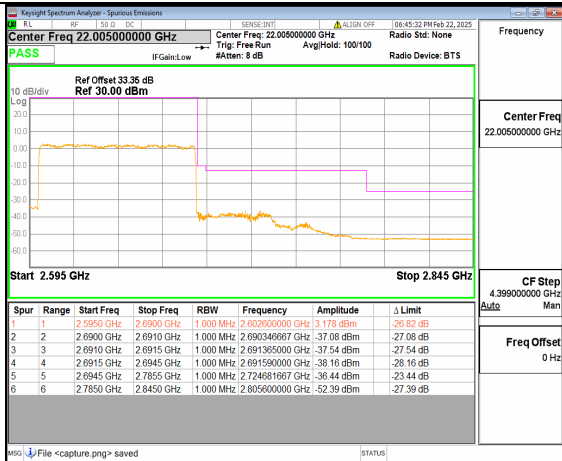
66A_n41 80M DFT-s-OFDM QPSK
Edge_1RB_Right High



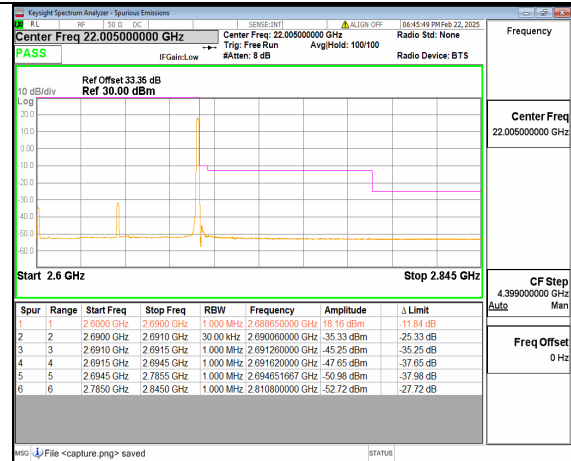
66A_n41 90M DFT-s-OFDM QPSK
Outer_Full Low



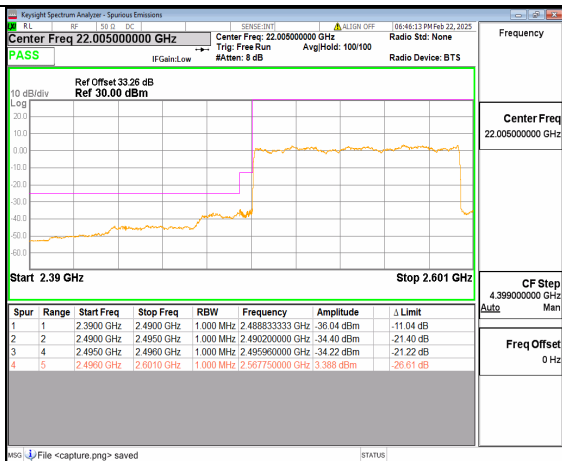
66A_n41 90M DFT-s-OFDM QPSK
Edge_1RB_Left Low



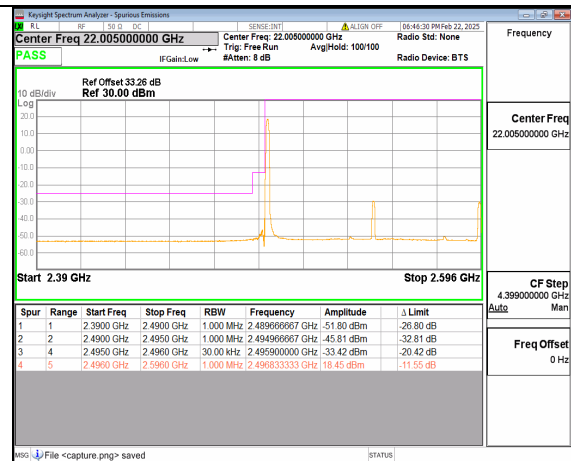
66A_n41 90M DFT-s-OFDM QPSK
Outer_Full High



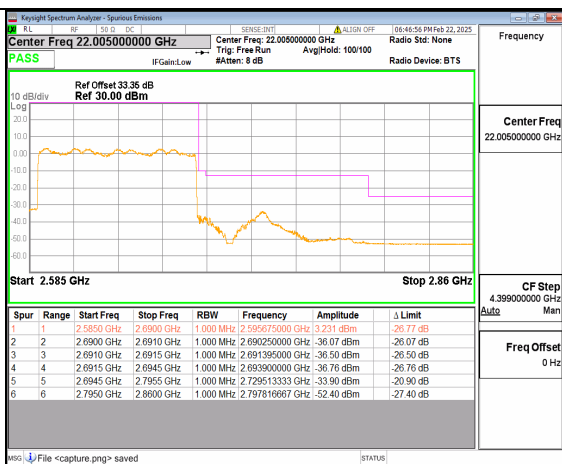
66A_n41 90M DFT-s-OFDM QPSK
Edge_1RB_Right High



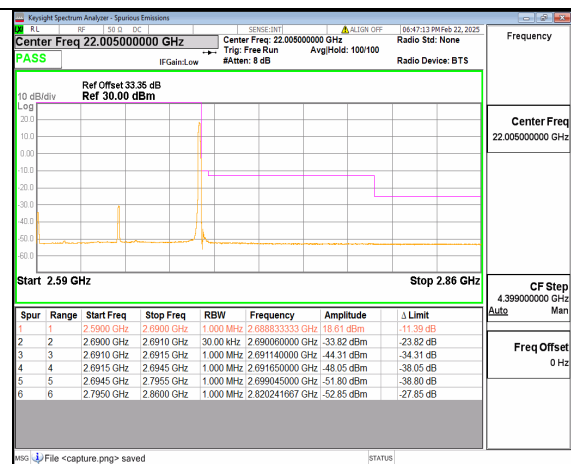
66A_n41 100M DFT-s-OFDM QPSK
Outer_Full Low



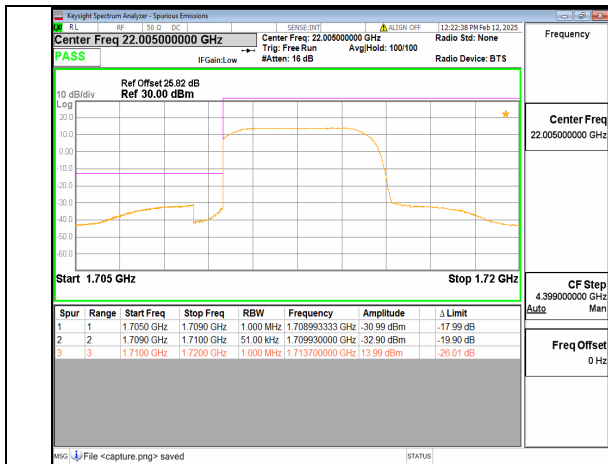
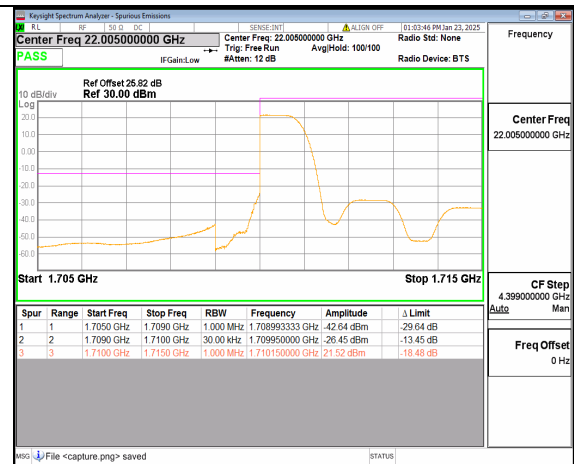
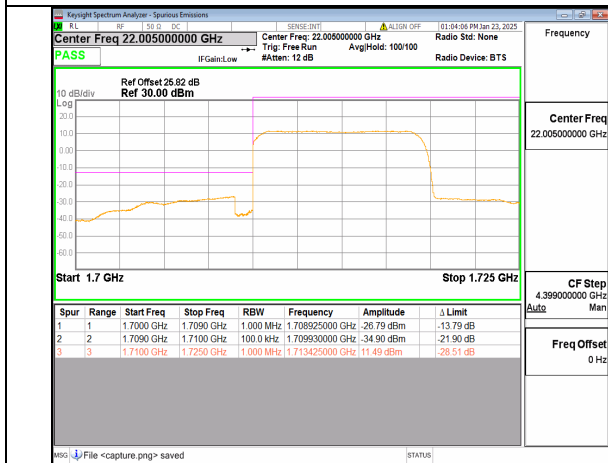
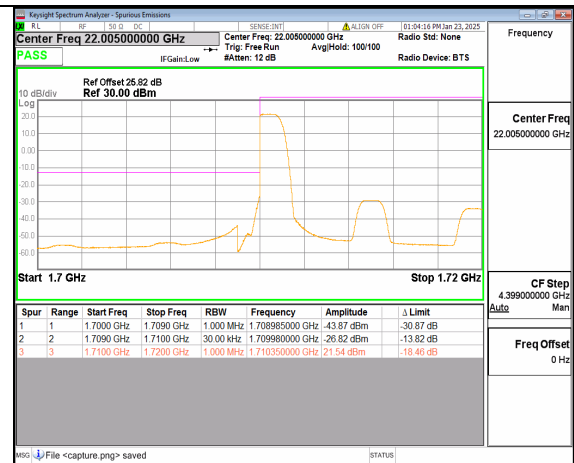
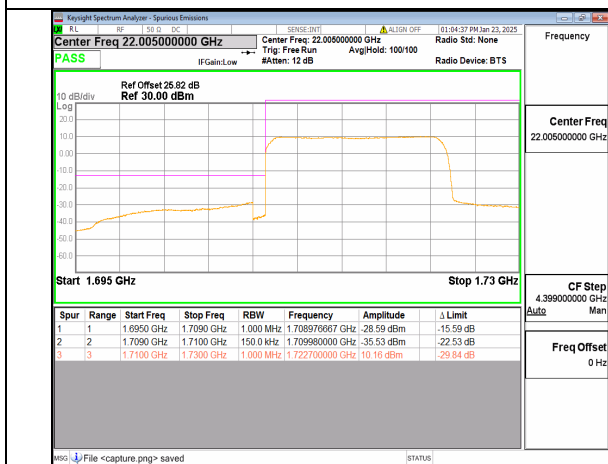
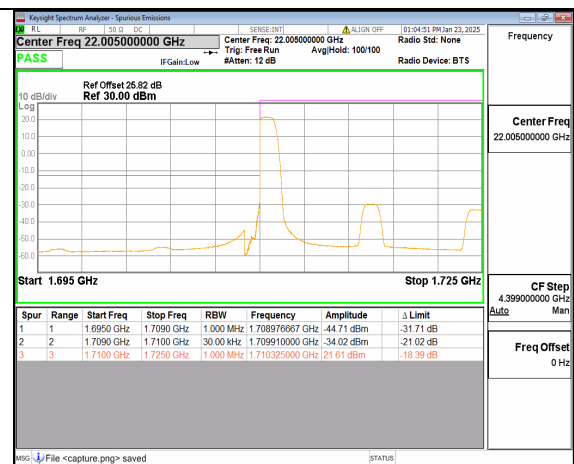
66A_n41 100M DFT-s-OFDM QPSK
Edge_1RB_Left Low

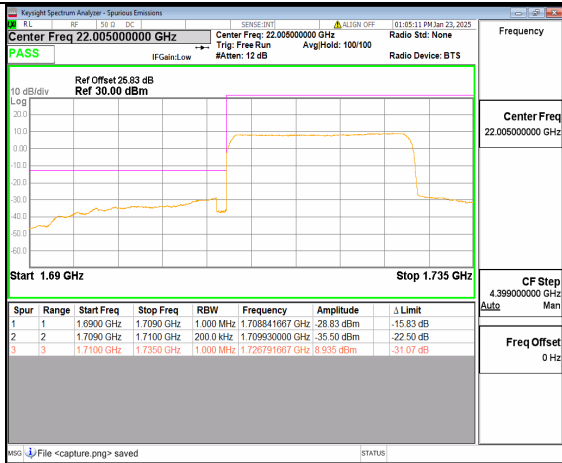


66A_n41 100M DFT-s-OFDM QPSK
Outer_Full High

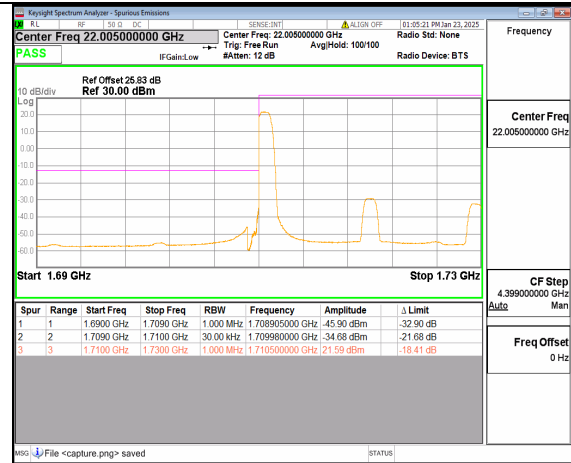


66A_n41 100M DFT-s-OFDM QPSK
Edge_1RB_Right High

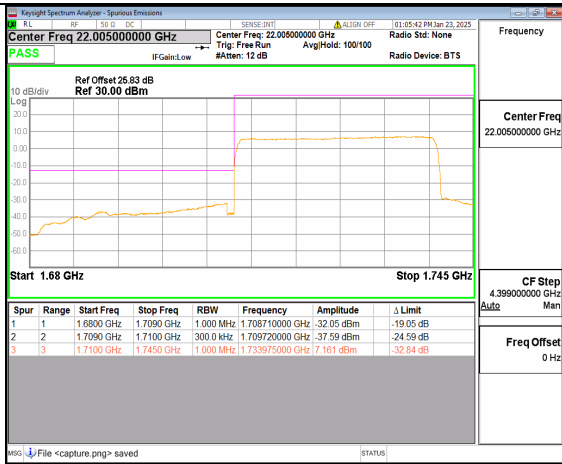
12A_n66 5M DFT-s-OFDM QPSK
Outer_Full Low12A_n66 5M DFT-s-OFDM QPSK
Edge_1RB_Left Low12A_n66 10M DFT-s-OFDM QPSK
Outer_Full Low12A_n66 10M DFT-s-OFDM QPSK
Edge_1RB_Left Low12A_n66 15M DFT-s-OFDM QPSK
Outer_Full Low12A_n66 15M DFT-s-OFDM QPSK
Edge_1RB_Left Low



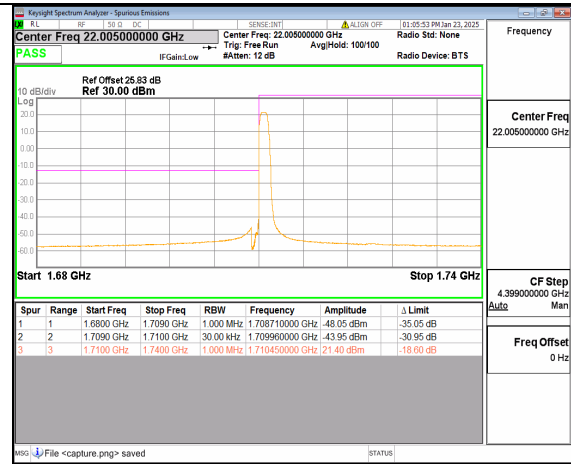
12A_n66 20M DFT-s-OFDM QPSK
Outer_Full Low



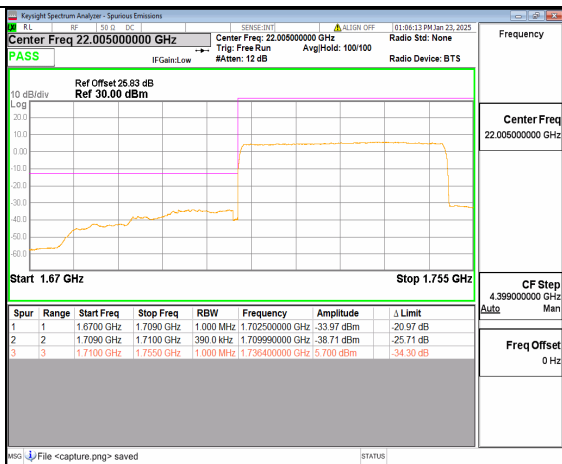
12A_n66 20M DFT-s-OFDM QPSK
Edge_1RB_Left Low



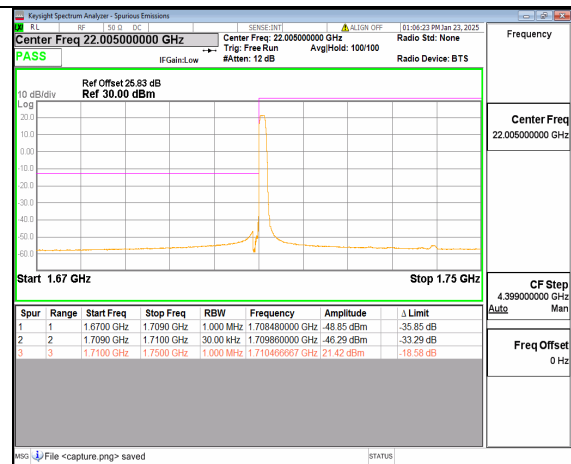
12A_n66 30M DFT-s-OFDM QPSK
Outer_Full Low



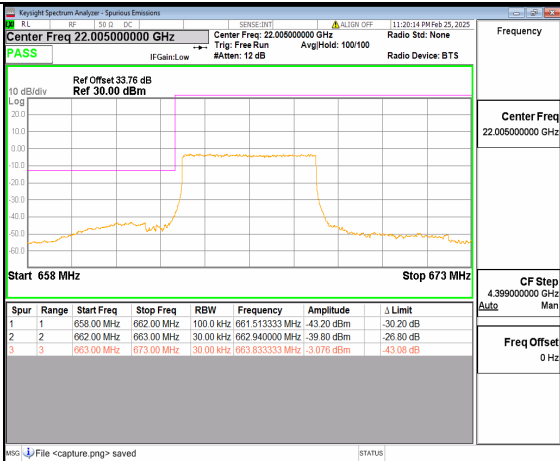
12A_n66 30M DFT-s-OFDM QPSK
Edge_1RB_Left Low



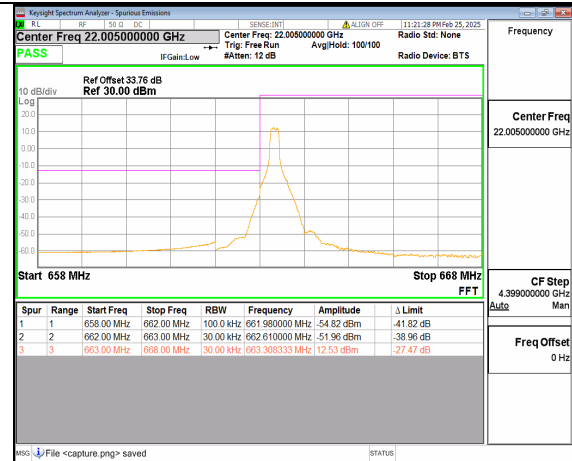
12A_n66 40M DFT-s-OFDM QPSK
Outer_Full Low



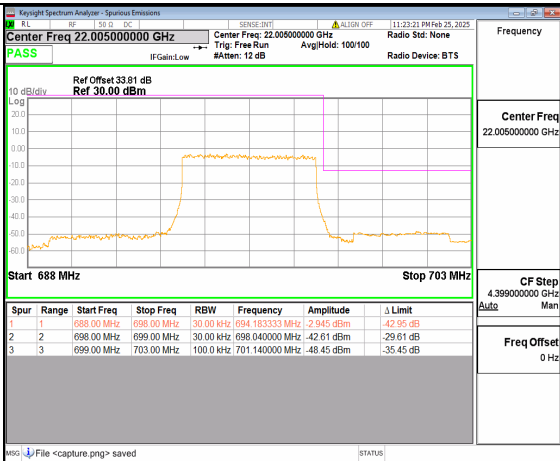
12A_n66 40M DFT-s-OFDM QPSK
Edge_1RB_Left Low



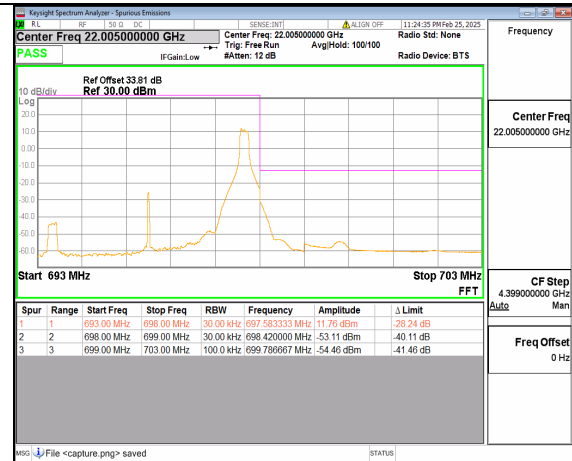
2A_n71 5M DFT-s-OFDM QPSK Outer_Full Low



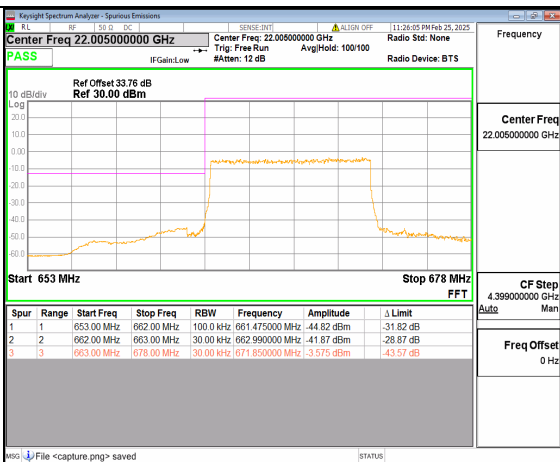
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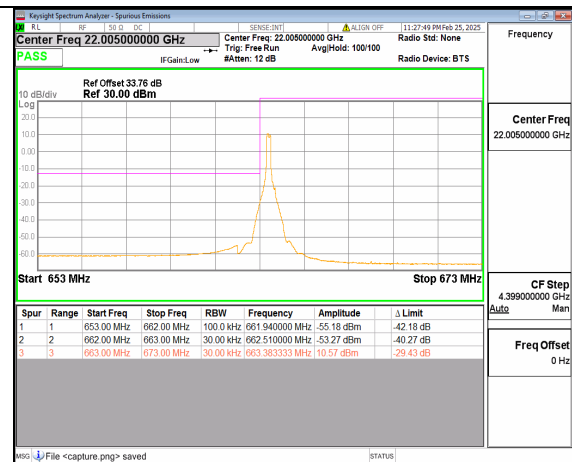
2A_n71 5M DFT-s-OFDM QPSK Outer_Full High



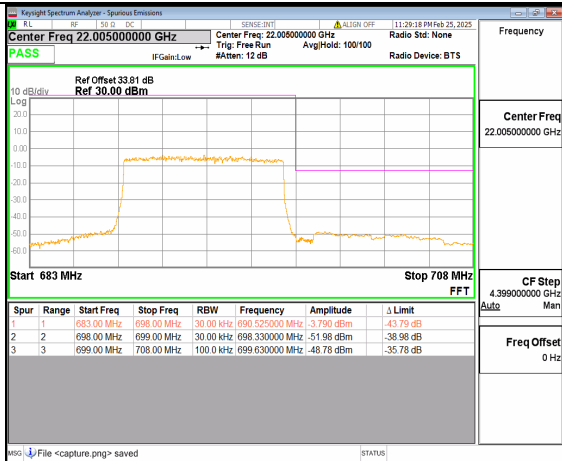
2A_n71 5M DFT-s-OFDM QPSK Edge_1RB_Right High



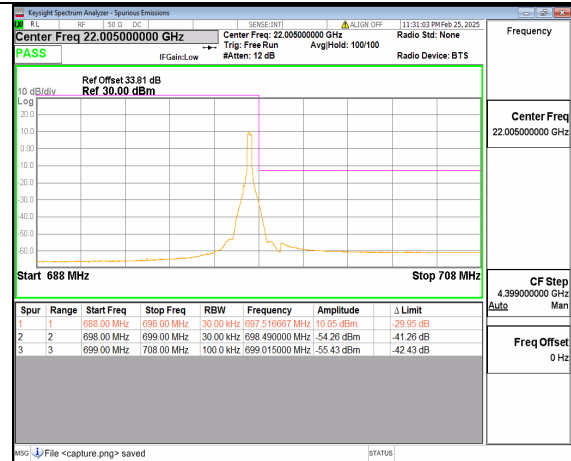
2A_n71 10M DFT-s-OFDM QPSK Outer_Full Low



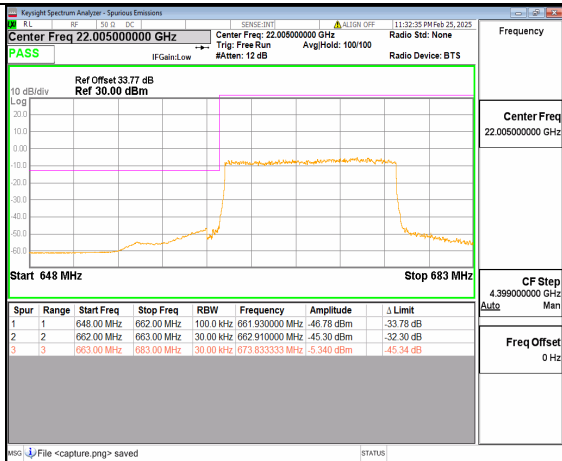
2A_n71 10M DFT-s-OFDM QPSK Edge_1RB_Left Low



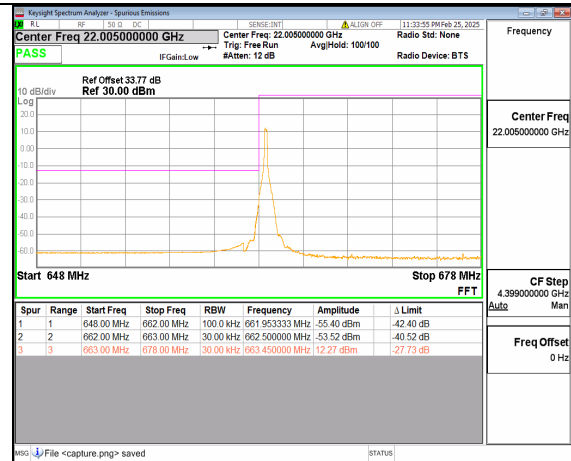
2A_n71 10M DFT-s-OFDM QPSK Outer_Full High



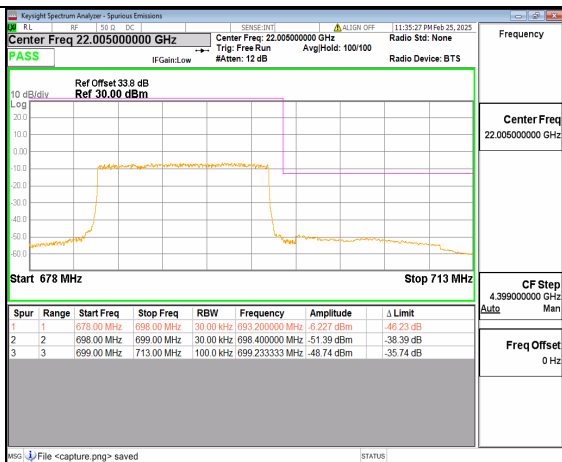
2A_n71 10M DFT-s-OFDM QPSK Edge_1RB_Right High



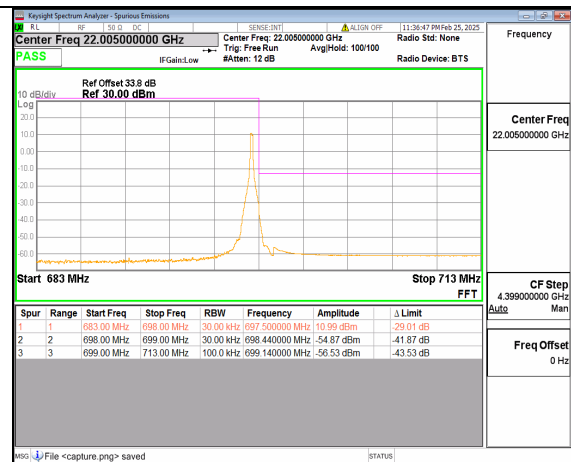
2A_n71 15M DFT-s-OFDM QPSK Outer_Full Low



2A_n71 15M DFT-s-OFDM QPSK Edge_1RB_Left Low



2A_n71 15M DFT-s-OFDM QPSK Outer_Full High



2A_n71 15M DFT-s-OFDM QPSK Edge_1RB_Right High