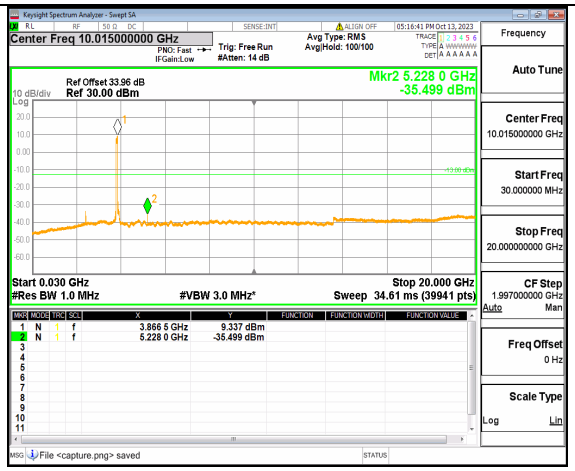
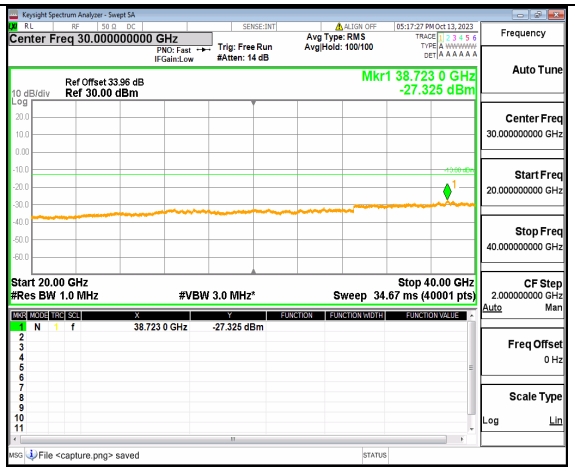
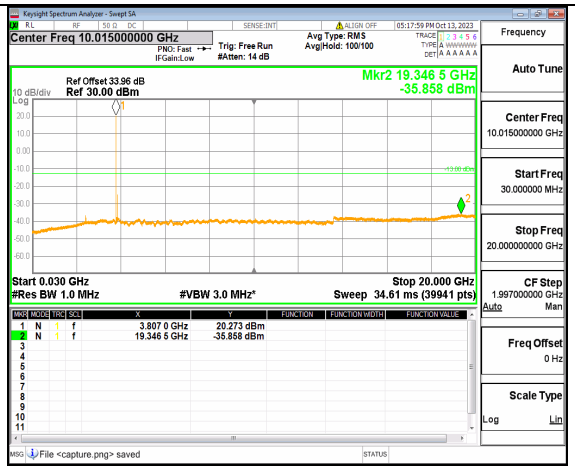


5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM BPSK Outer_Full Mid

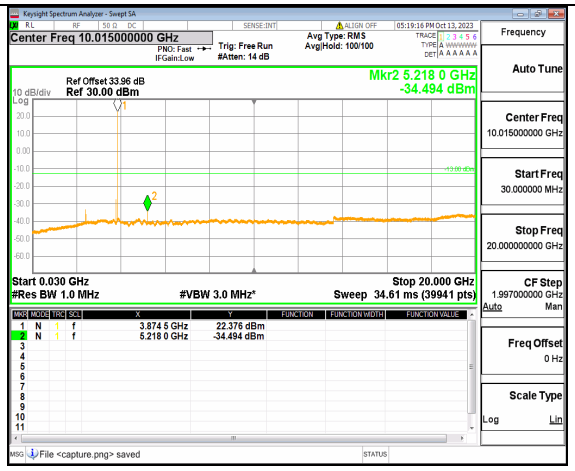


5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM BPSK Outer_Full Mid



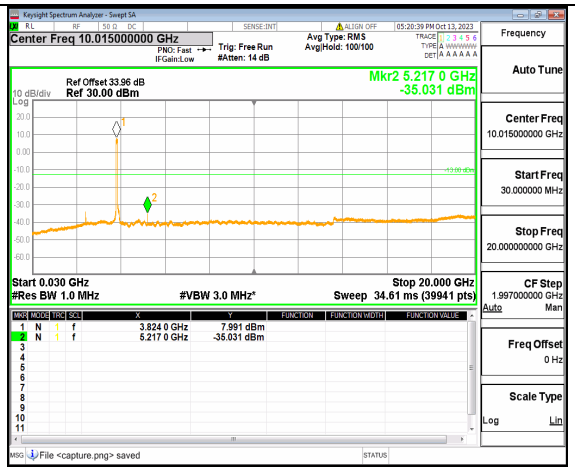
5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Left Mid

5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Left Mid



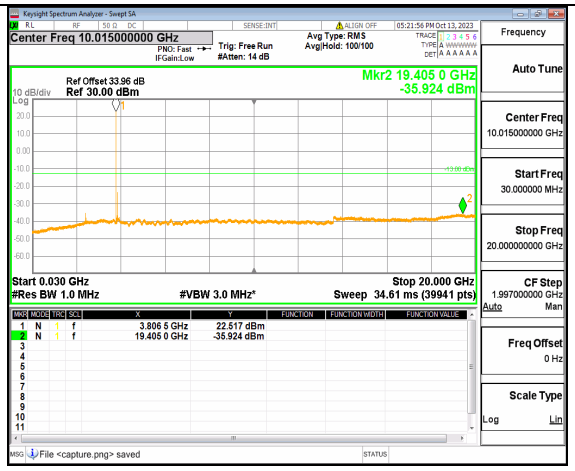
5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Right Mid

5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Right Mid



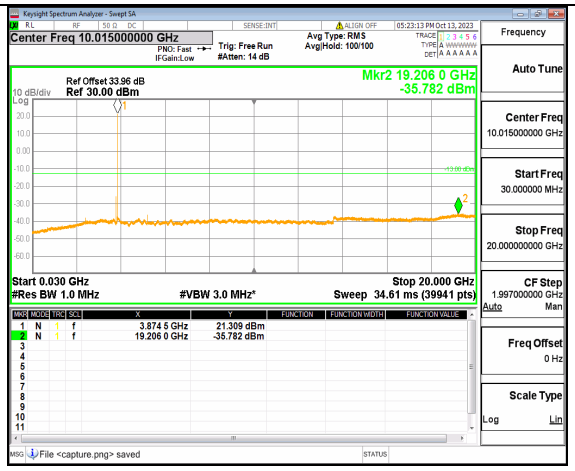
5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM QPSK Outer_Full Mid

5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM QPSK Outer_Full Mid



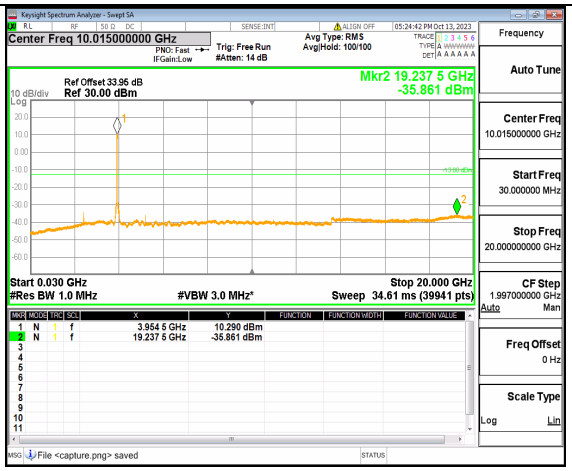
5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Left Mid

5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Left Mid

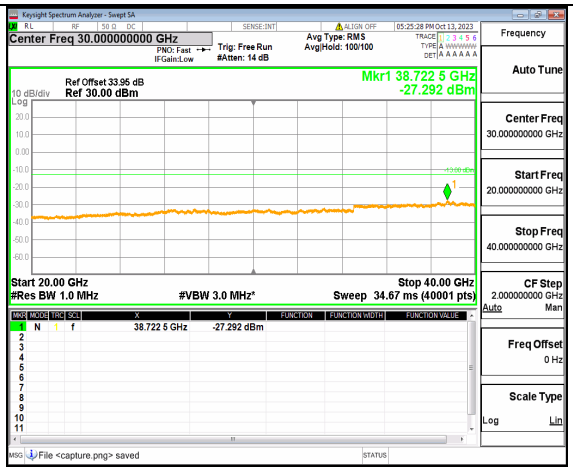


5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Right Mid

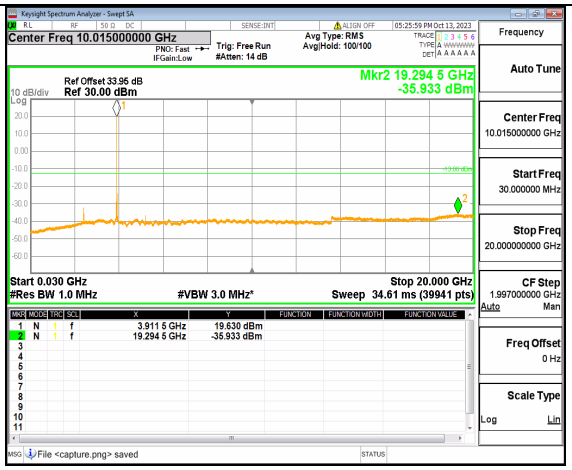
5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Right Mid



5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM BPSK Outer_Full High

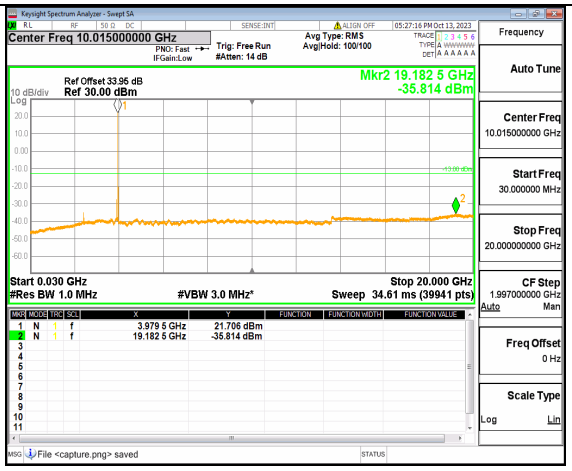


5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM BPSK Outer_Full High



5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Left High

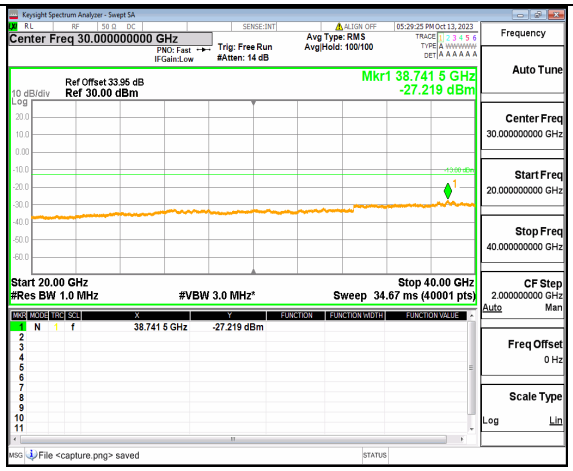
5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Left High



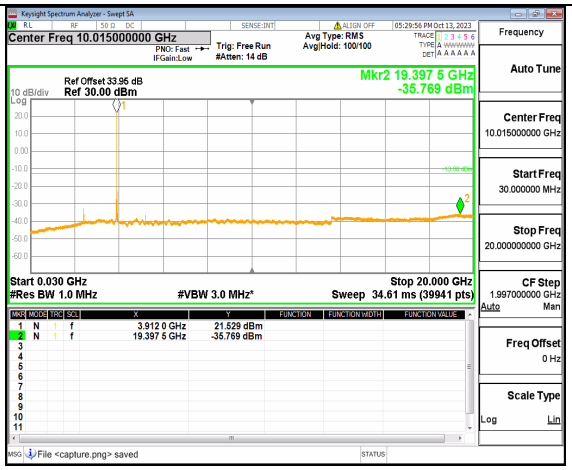
5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM BPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM QPSK Outer_Full High

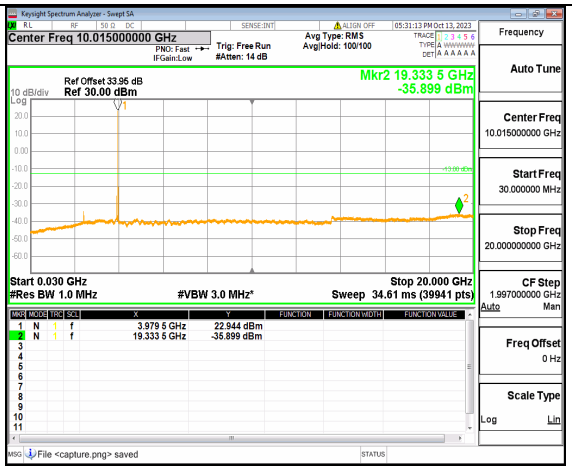


5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM QPSK Outer_Full High



5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Left High

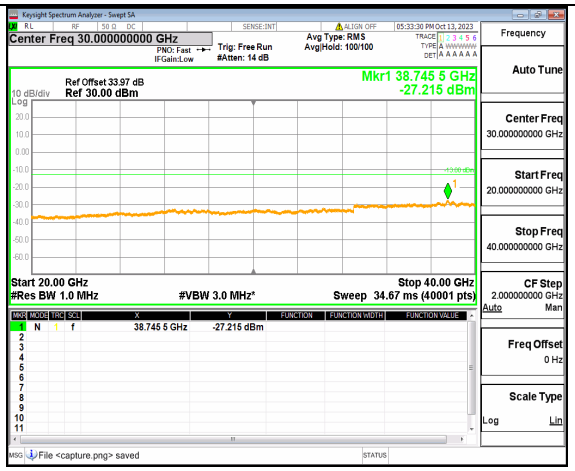
5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Left High



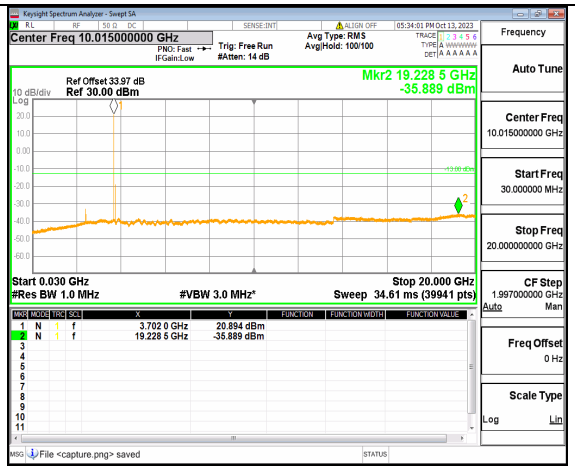
5A_n77(3700-3980MHz) (30MHz-20GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (20GHz-40GHz) 70M DFT-s-OFDM QPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Outer_Full Low

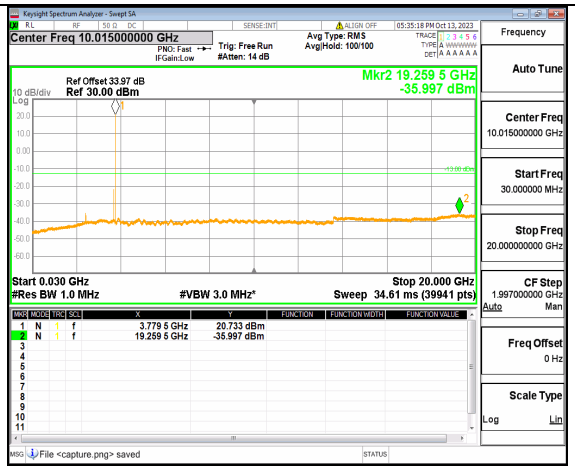


5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Outer_Full Low



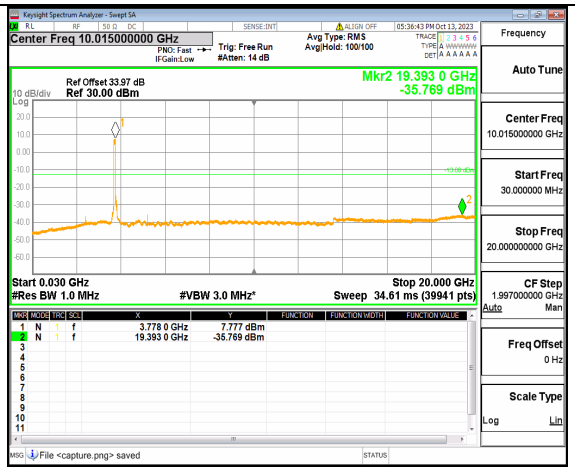
5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Left Low

5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Left Low

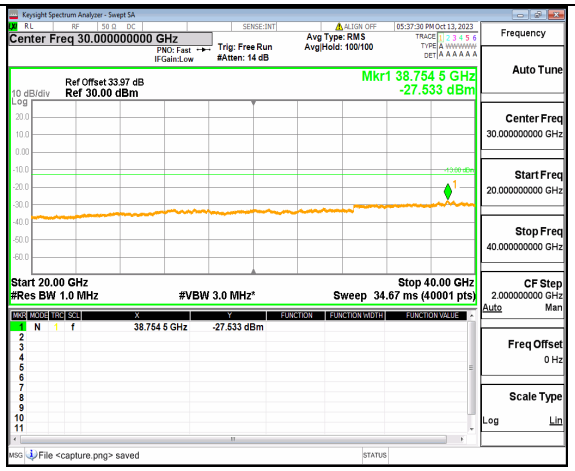


5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Right Low

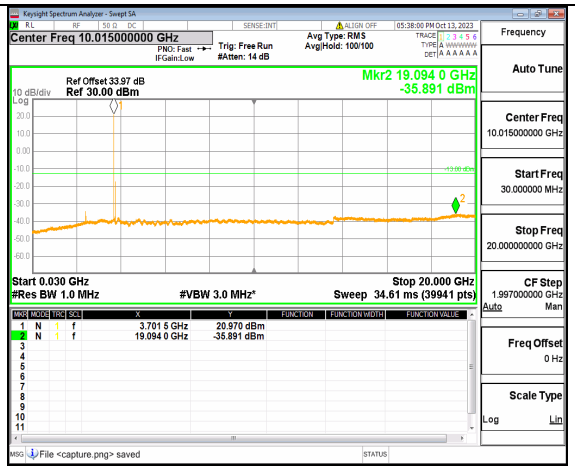
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Right Low



5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Outer_Full Low

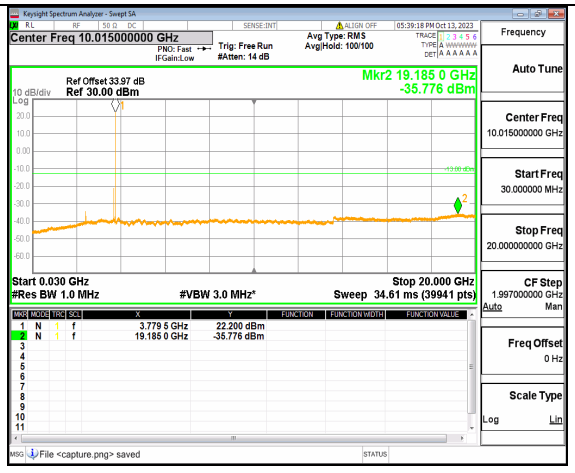


5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Outer_Full Low

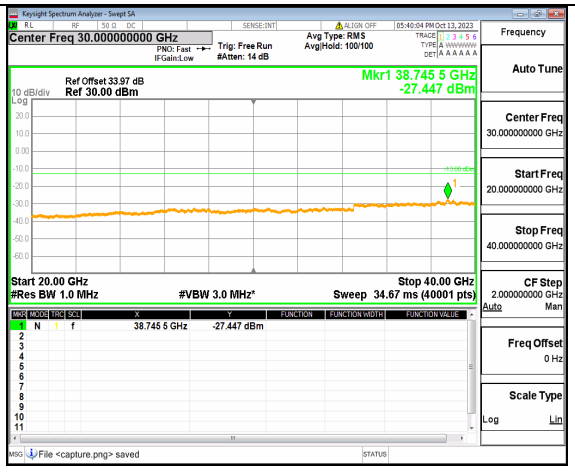


5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Left Low

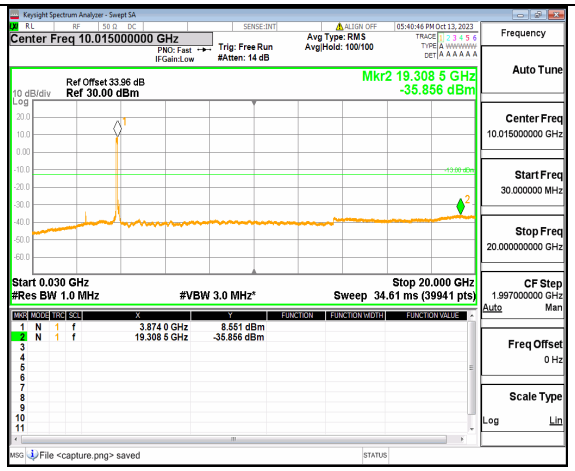
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Left Low



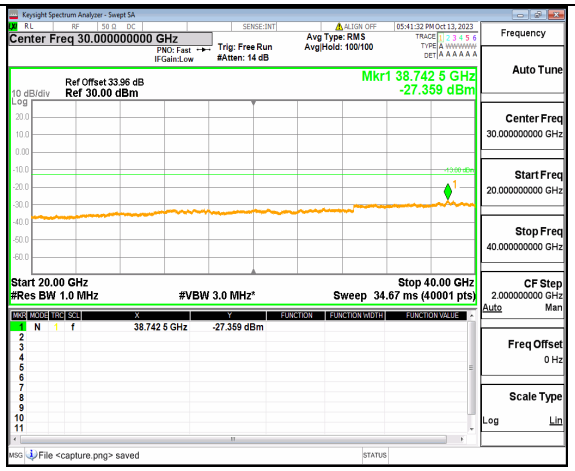
5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Right Low



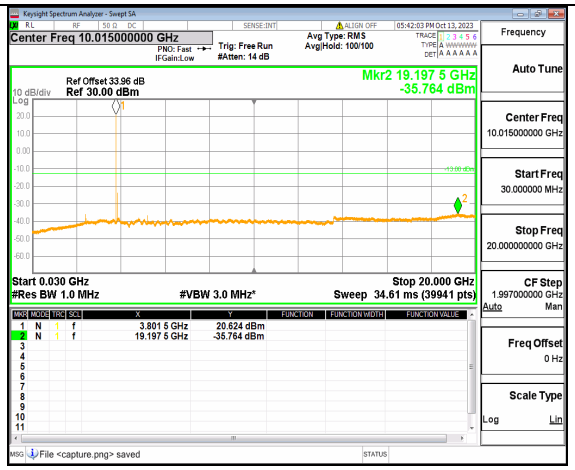
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Right Low



5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Outer_Full Mid

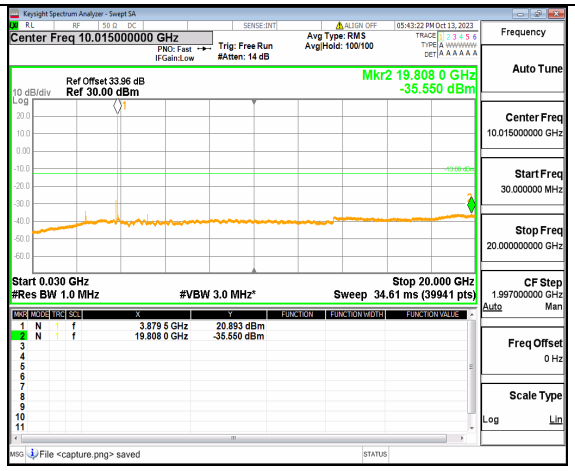


5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Outer_Full Mid



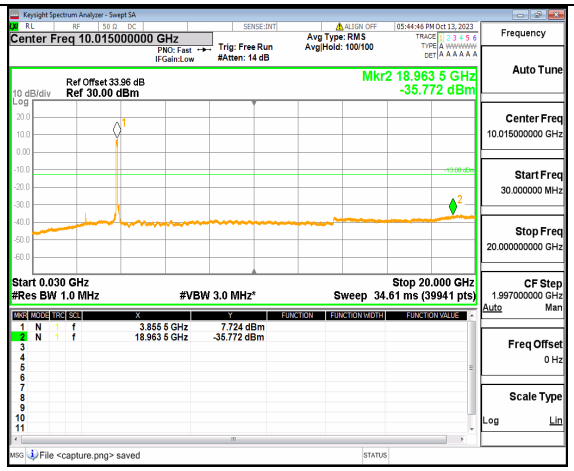
5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Left Mid

5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Left Mid

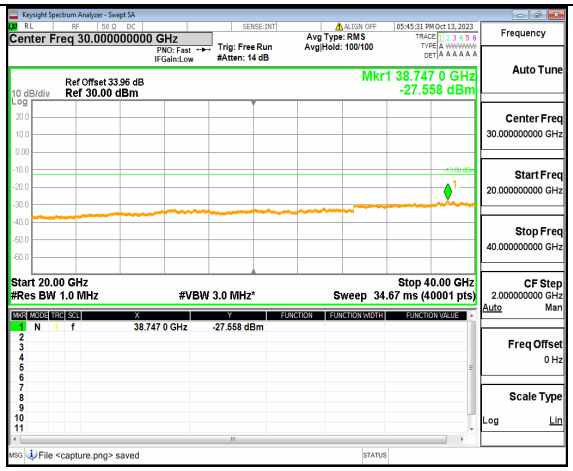


5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Right Mid

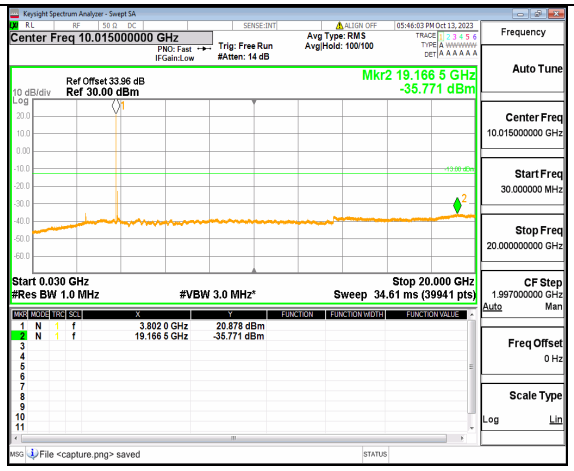
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Right Mid



5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Outer_Full Mid

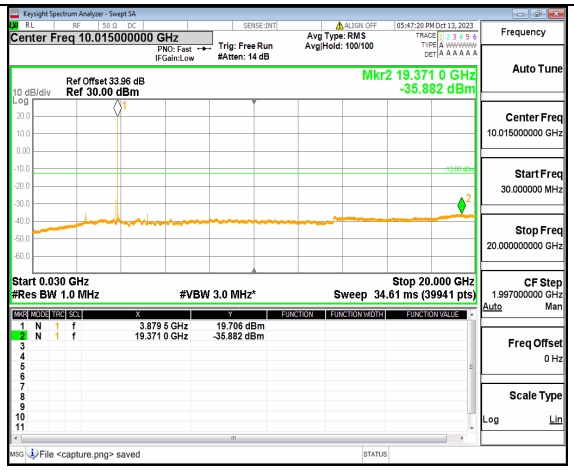


5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Outer_Full Mid

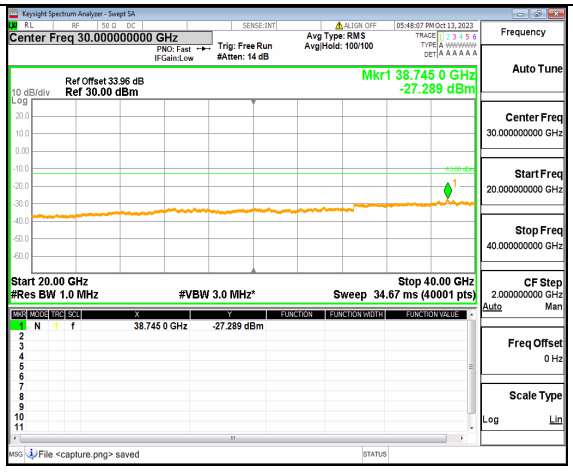


5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Left Mid

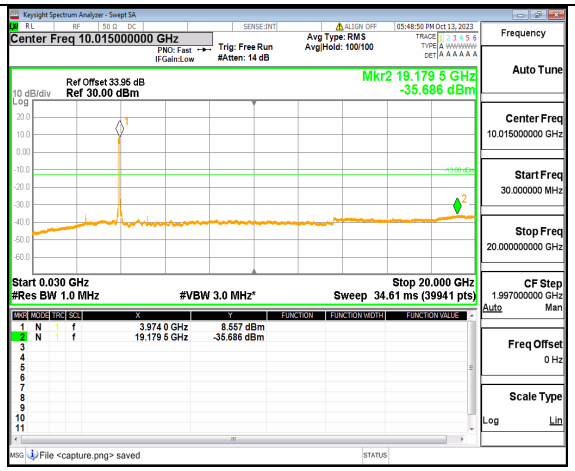
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Left Mid



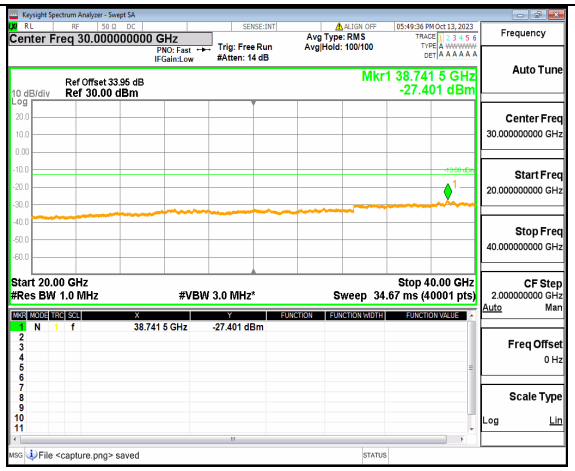
5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Right Mid



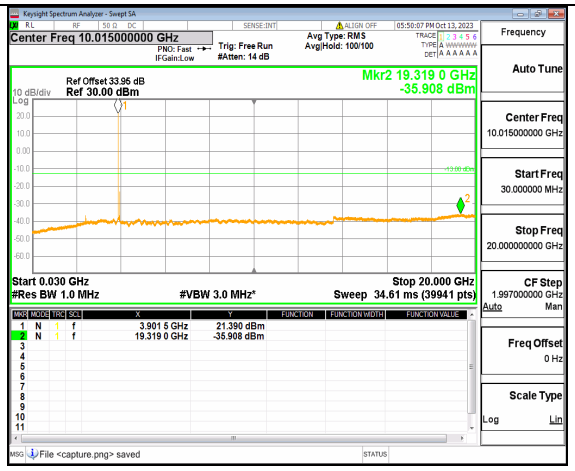
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Right Mid



5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Outer_Full High

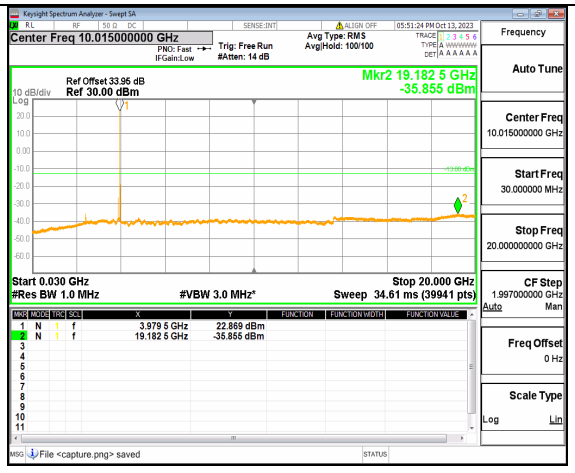


5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Outer_Full High

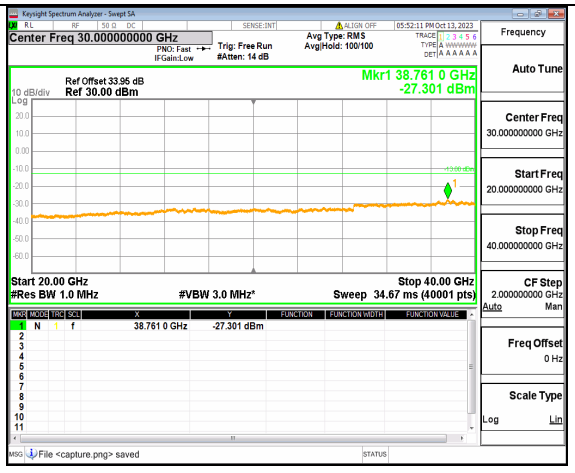


5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Left High

5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Left High

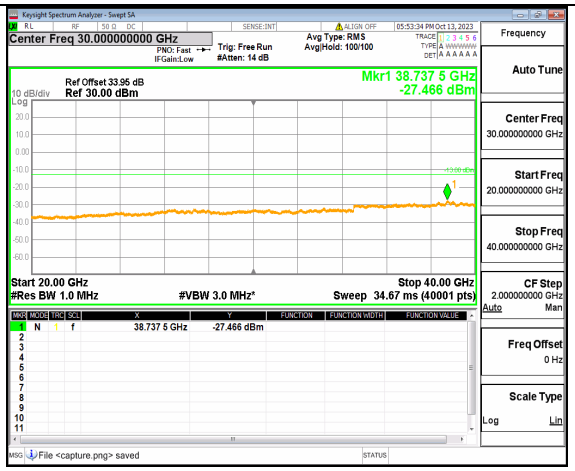


5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Right High

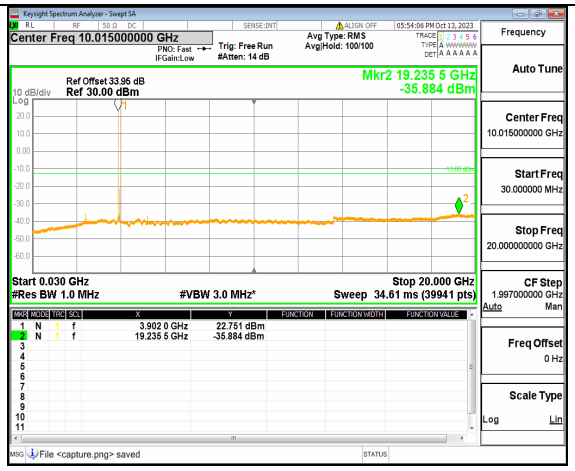


5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Outer_Full High

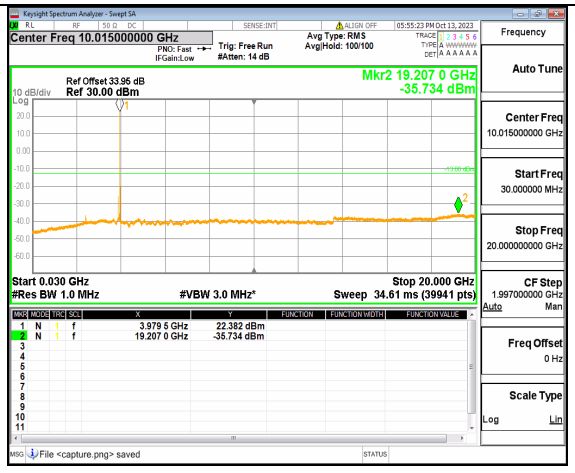


5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Outer_Full High

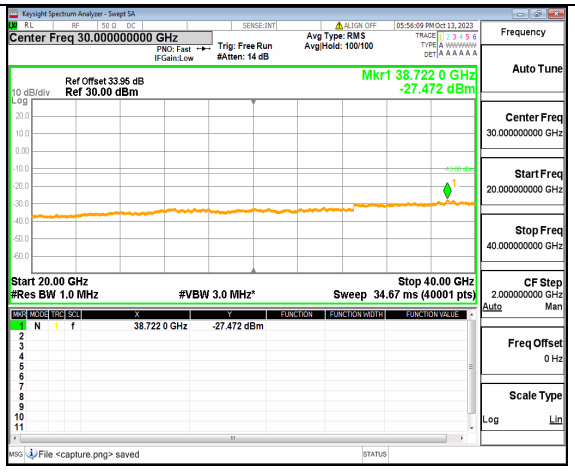


5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Left High

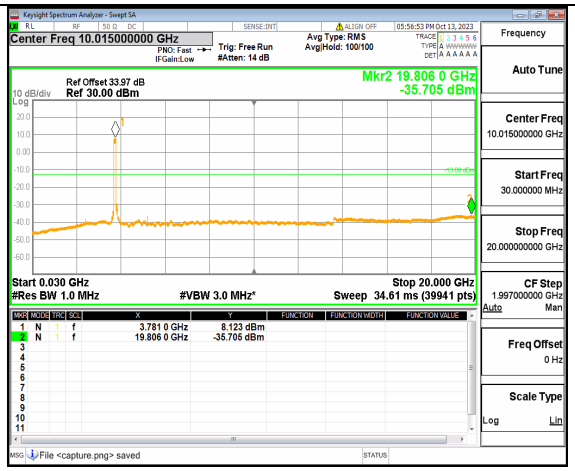
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Left High



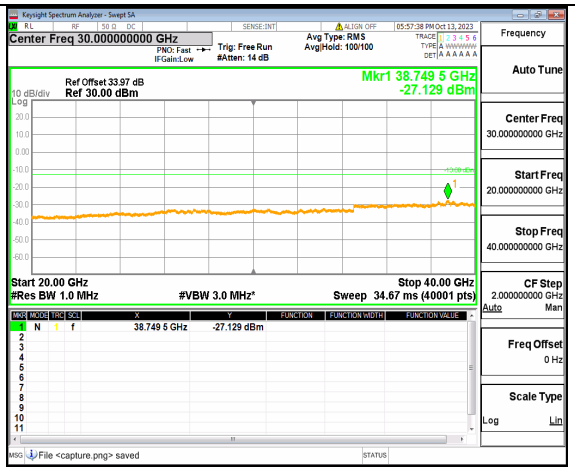
5A_n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Right High



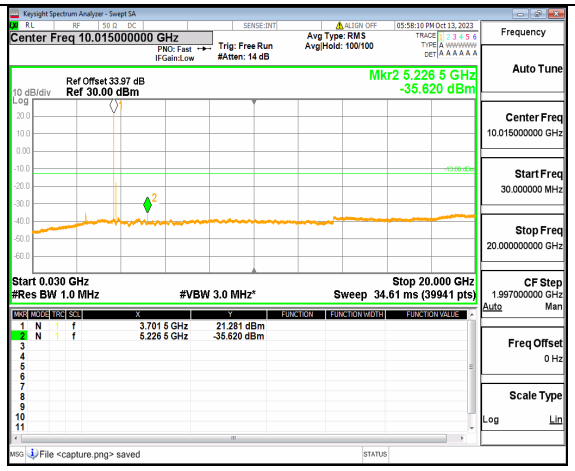
5A_n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM QPSK Edge_1RB_Right High



5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Outer_Full Low

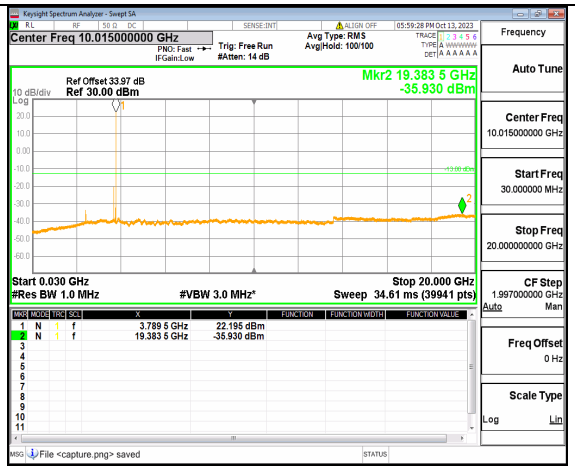


5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Outer_Full Low

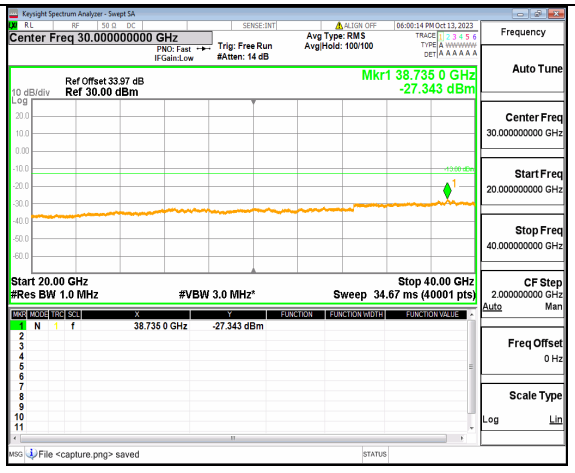


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Left Low

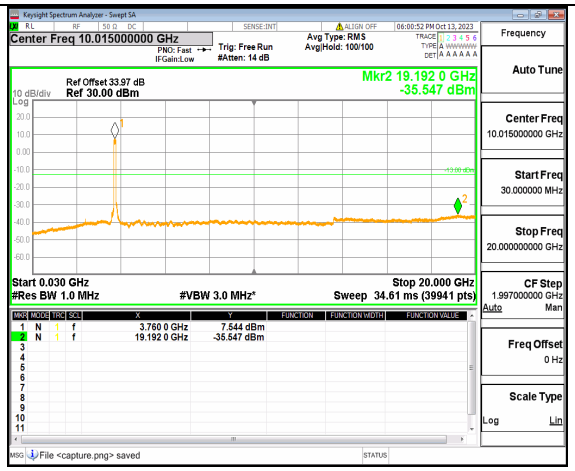
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Left Low



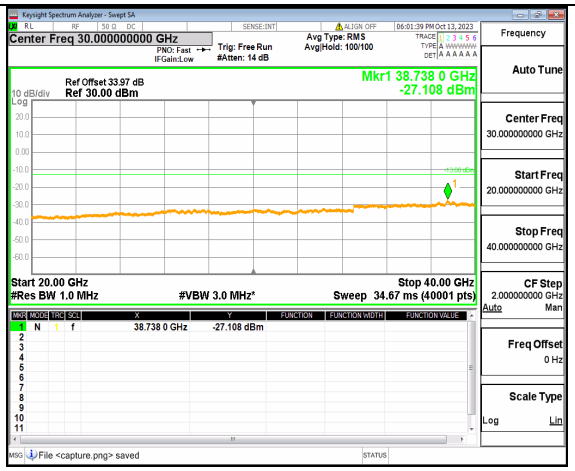
5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Right Low



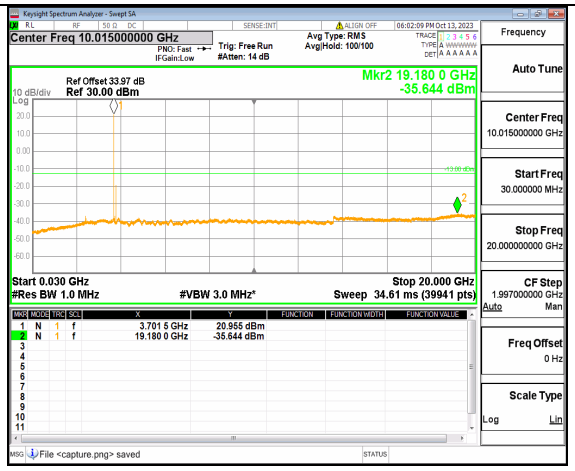
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Right Low



5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Outer_Full Low

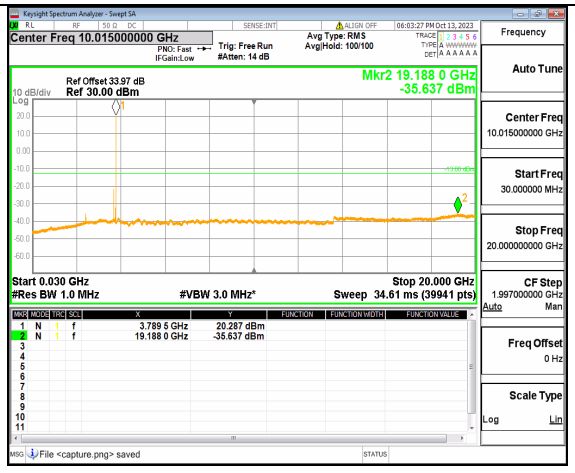


5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Outer_Full Low

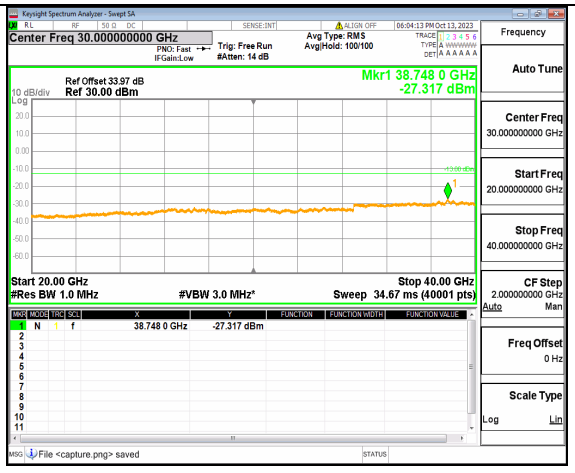


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Left Low

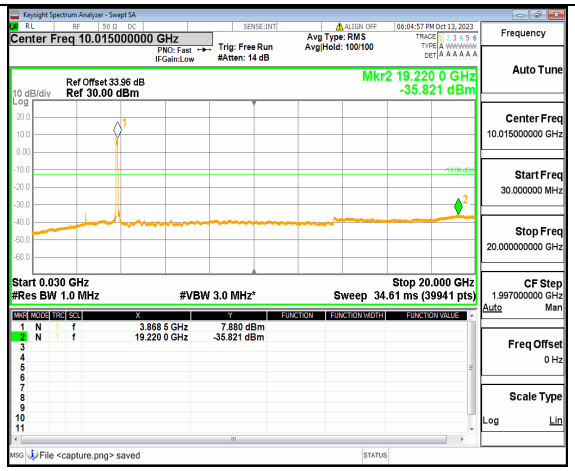
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Left Low



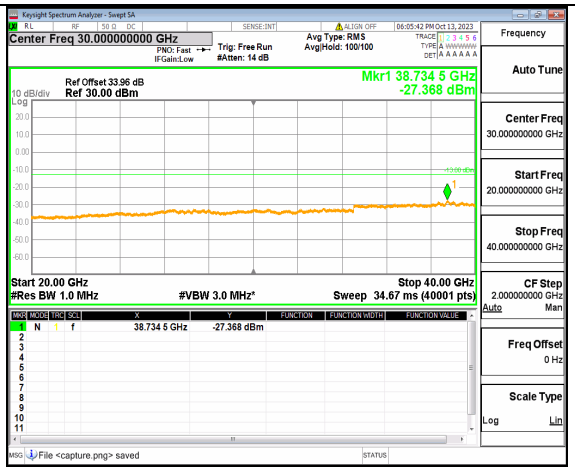
5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Right Low



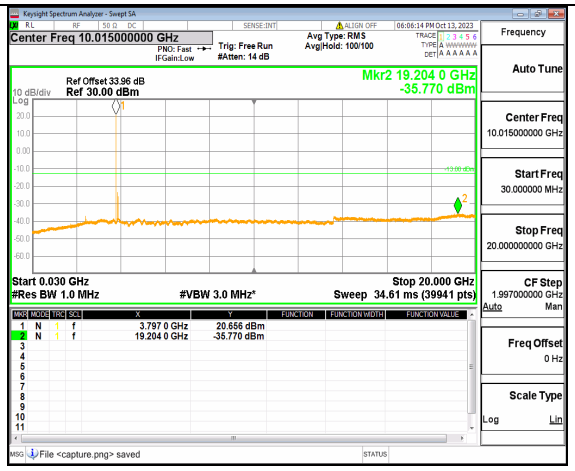
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Right Low



5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Outer_Full Mid

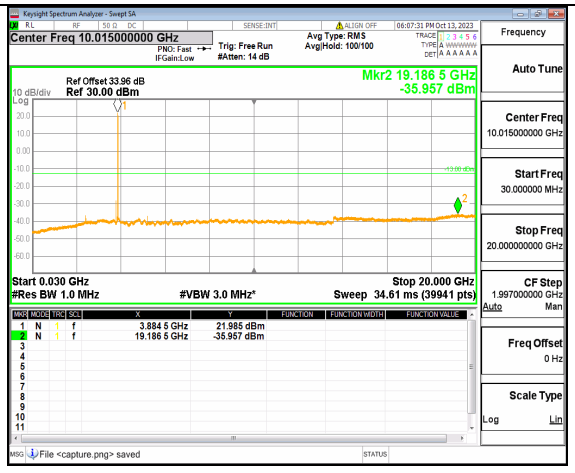


5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Outer_Full Mid

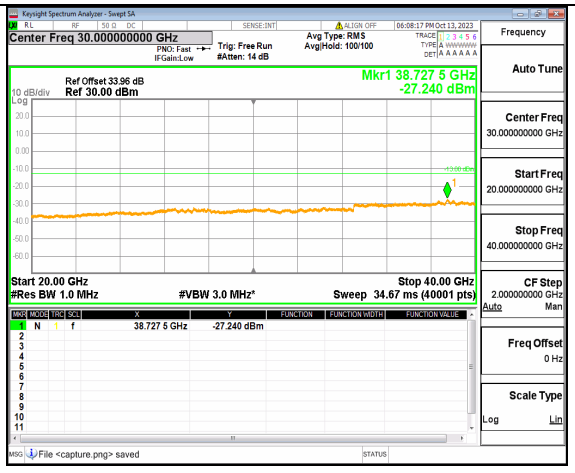


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Left Mid

5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Left Mid

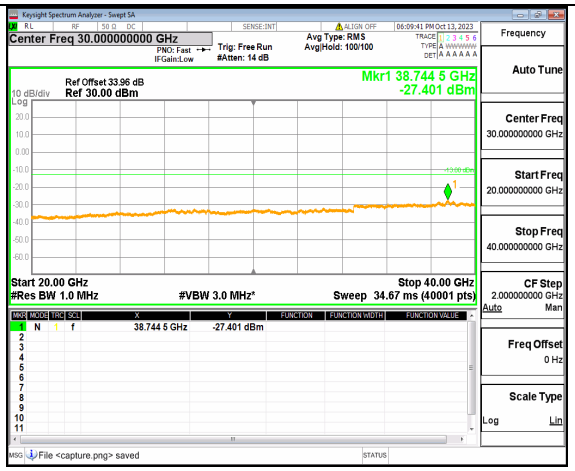


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Right Mid

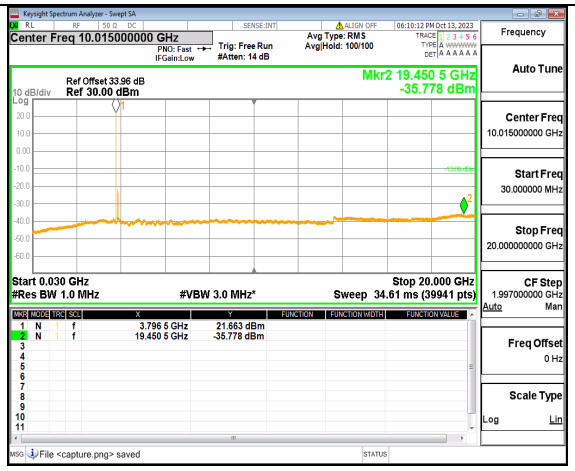


5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Right Mid

5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Outer_Full Mid

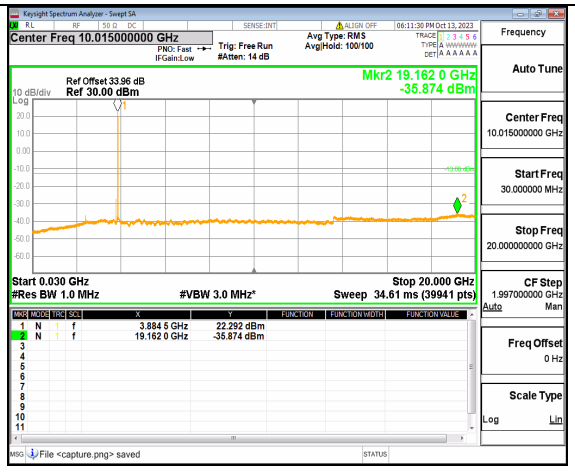


5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Outer_Full Mid

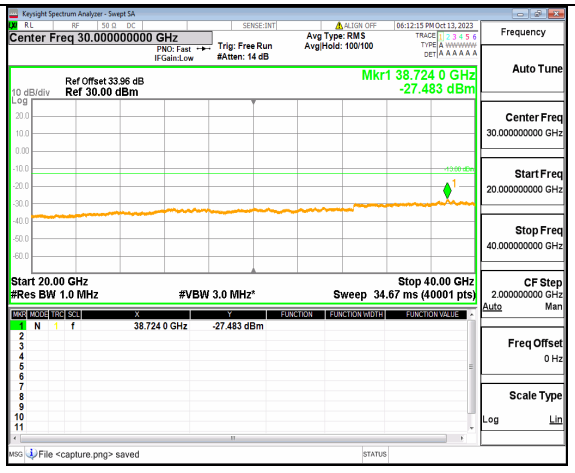


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Left Mid

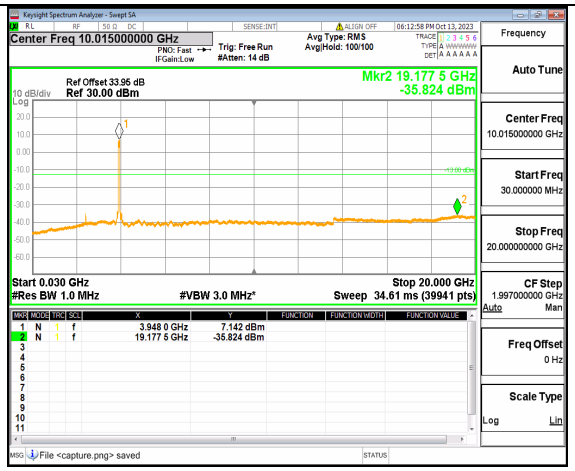
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Left Mid



5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Right Mid



5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Right Mid

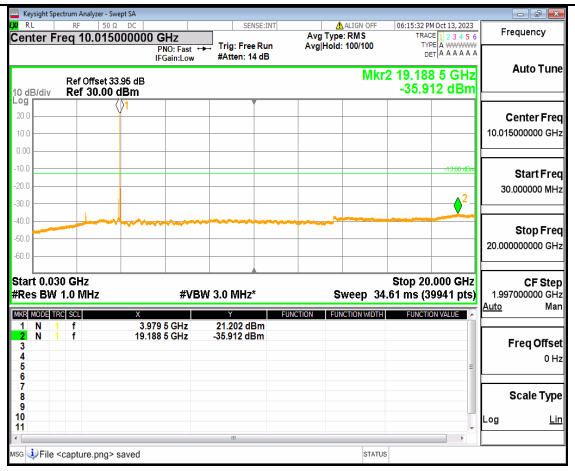


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Outer_Full High

5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Outer_Full High

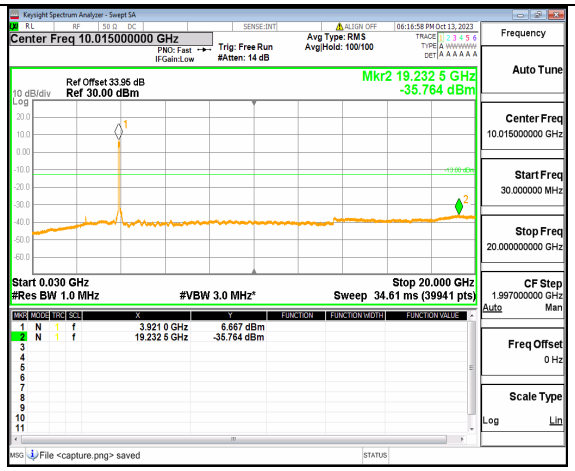
5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Left High

5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Left High

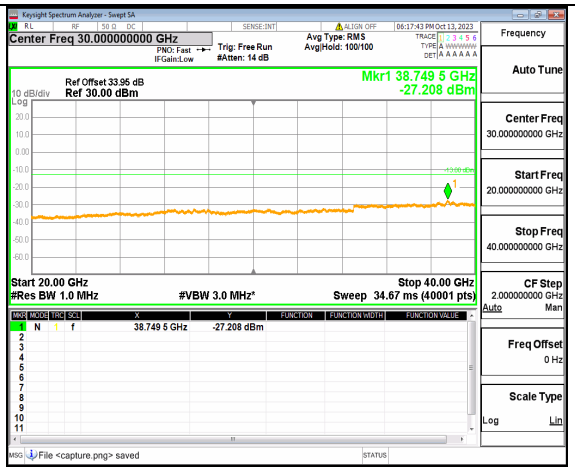


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Right High

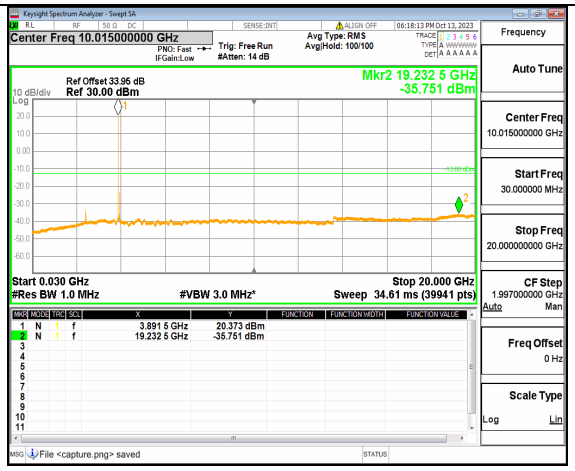
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Edge_1RB_Right High



5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Outer_Full High

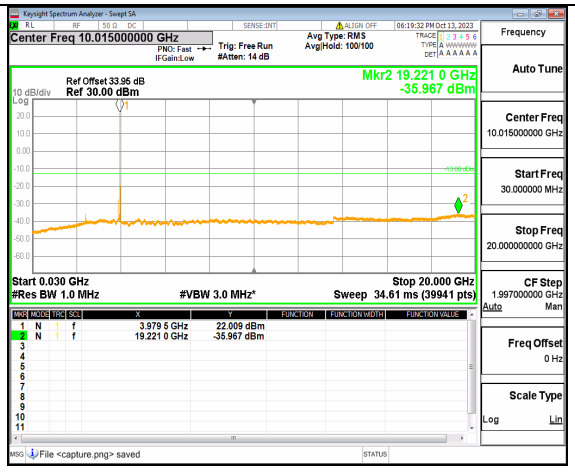


5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Outer_Full High

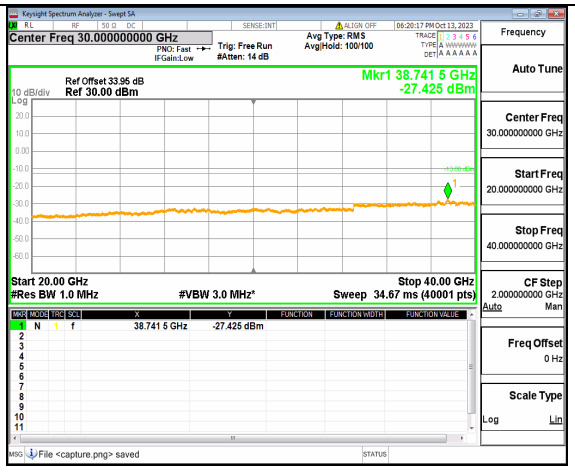


5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Left High

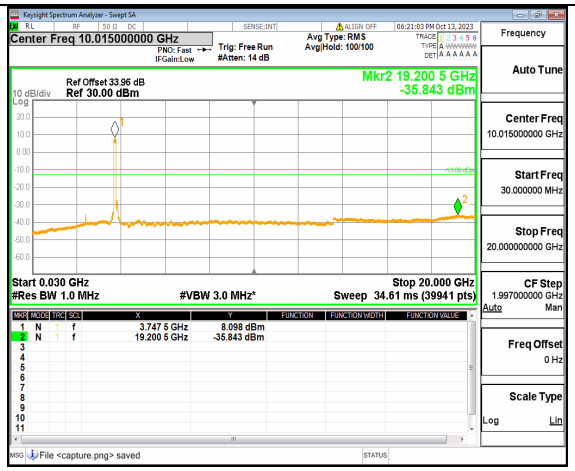
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Left High



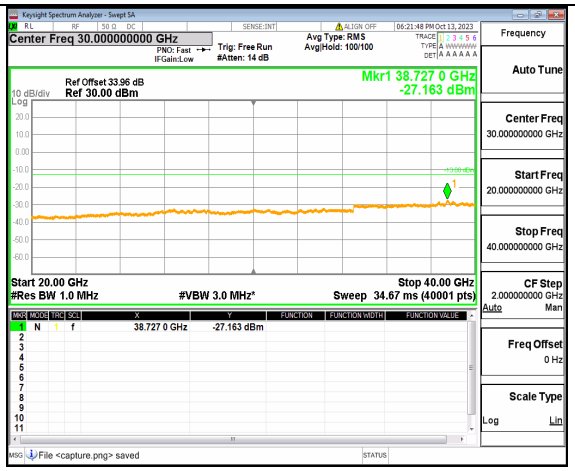
5A_n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Right High



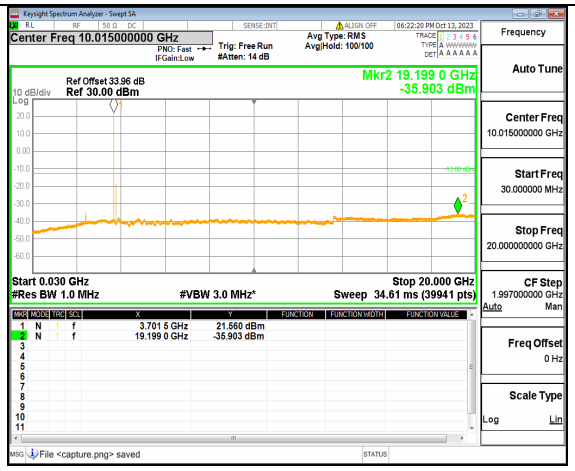
5A_n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM QPSK Edge_1RB_Right High



5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Outer_Full Low

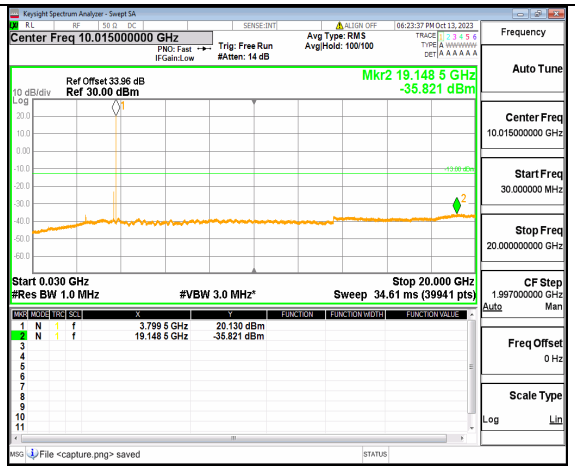


5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Outer_Full Low



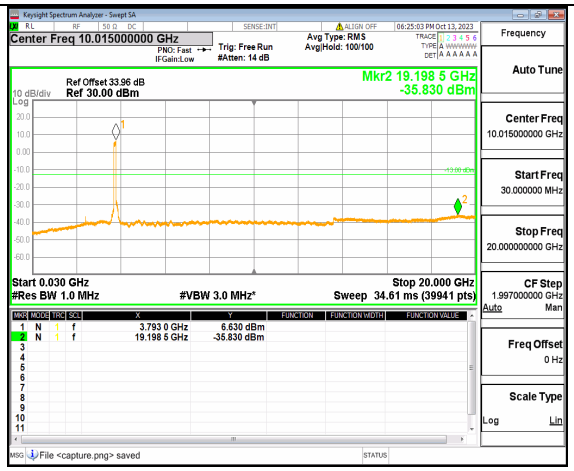
5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Left Low

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Left Low



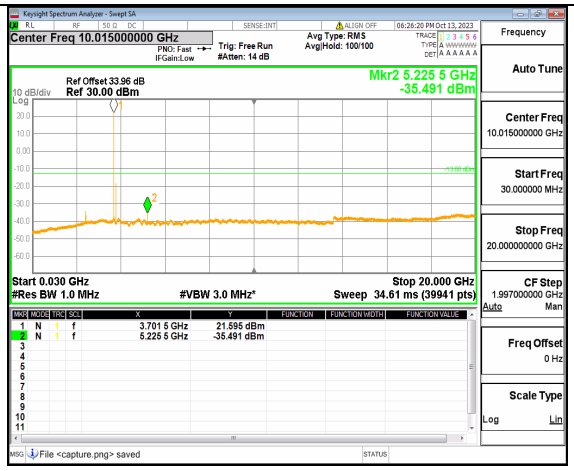
5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Right Low

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Right Low



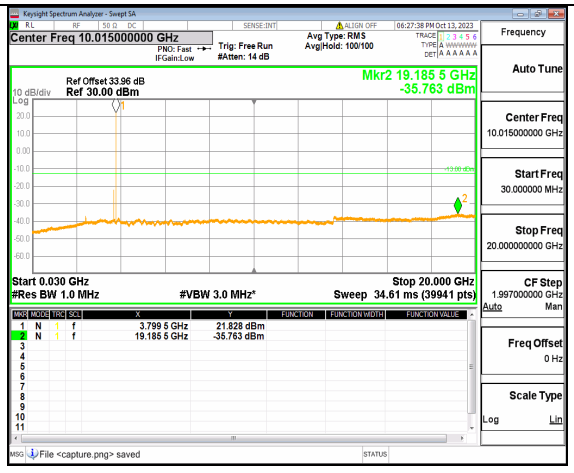
5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Outer_Full Low

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Outer_Full Low



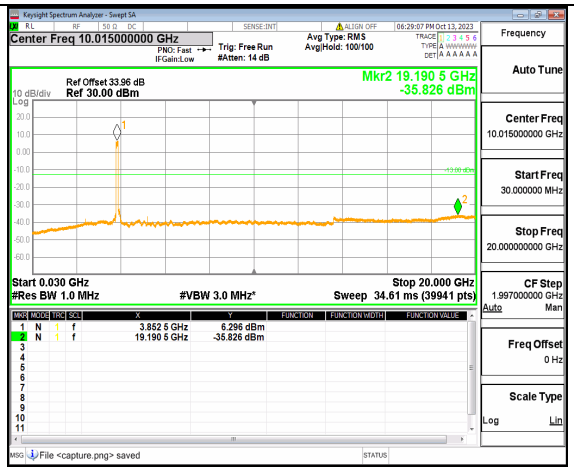
5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Left Low

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Left Low

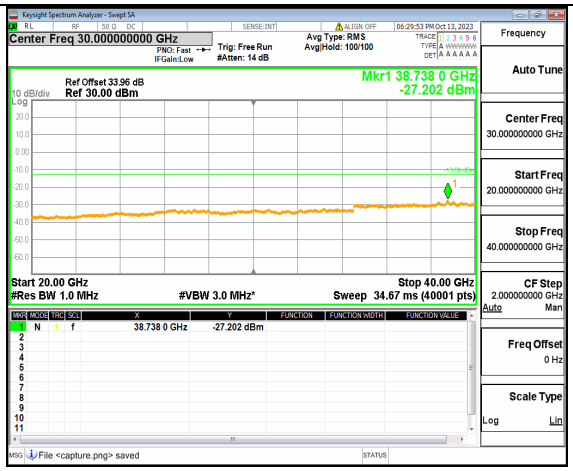


5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Right Low

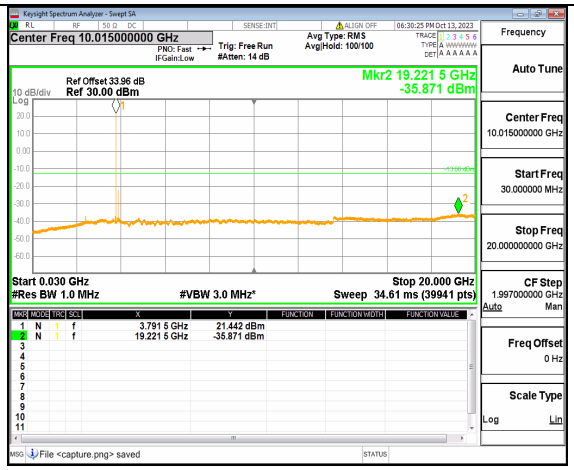
5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Right Low



5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Outer_Full Mid

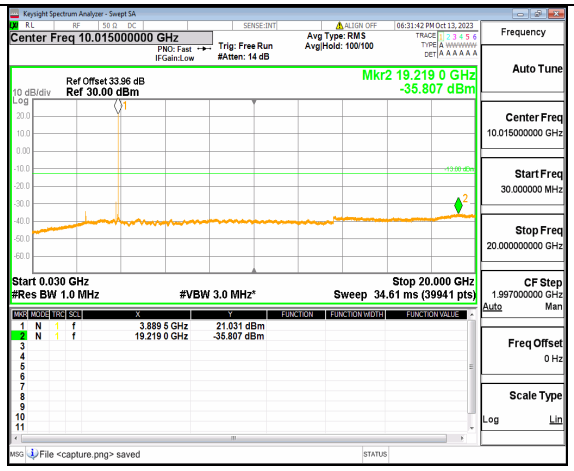


5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Outer_Full Mid



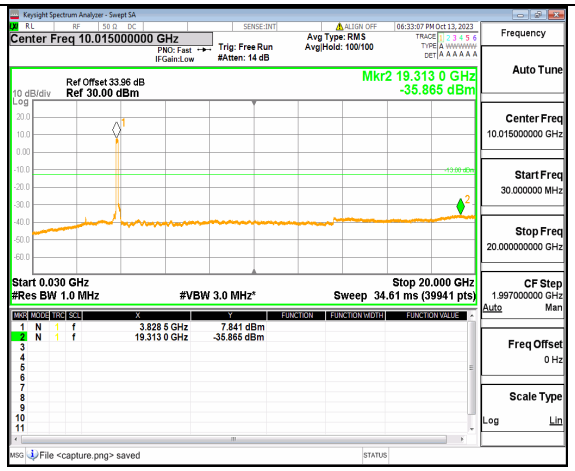
5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Left Mid

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Left Mid

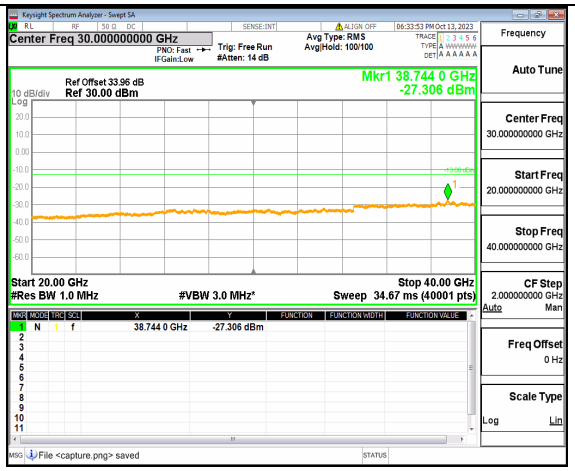


5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Right Mid

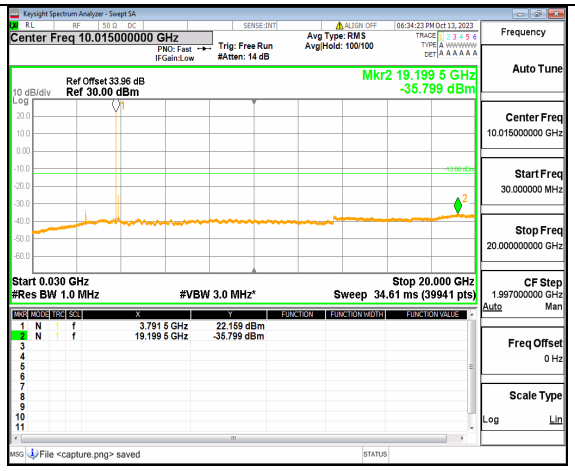
5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Right Mid



5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Outer_Full Mid

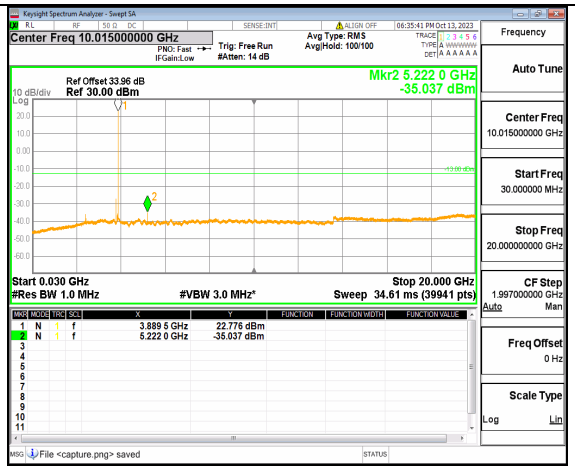


5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Outer_Full Mid

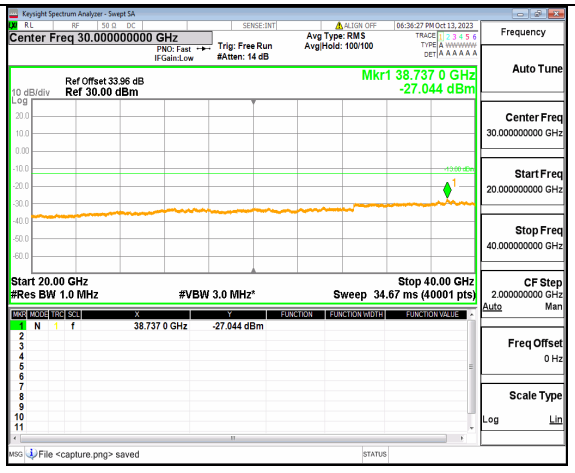


5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Left Mid

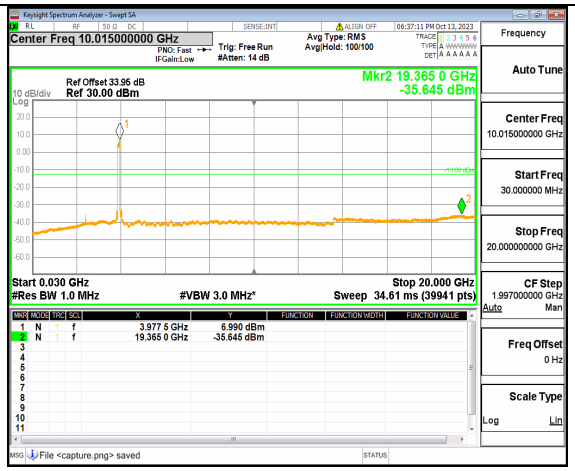
5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Left Mid



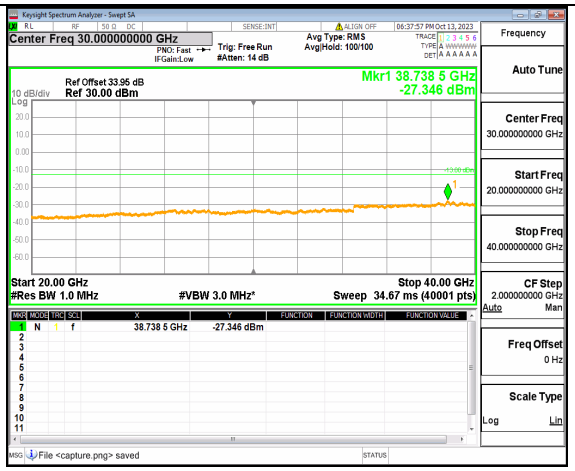
5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Right Mid



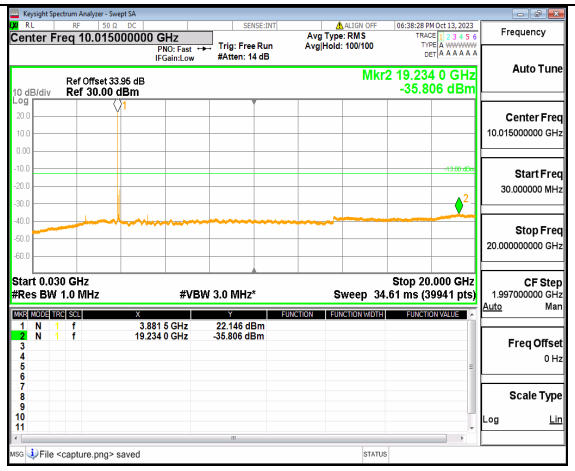
5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Right Mid



5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Outer_Full High

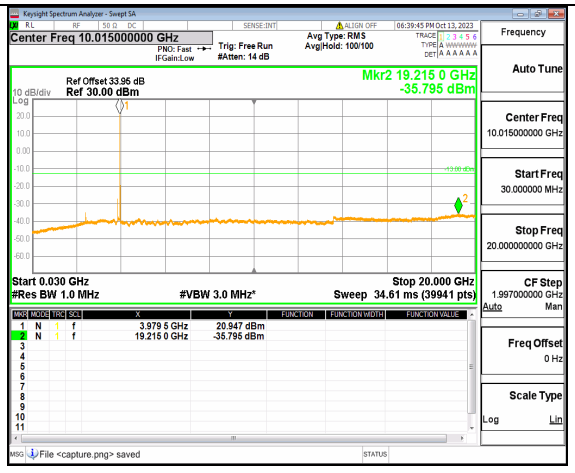


5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Outer_Full High



5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Left High

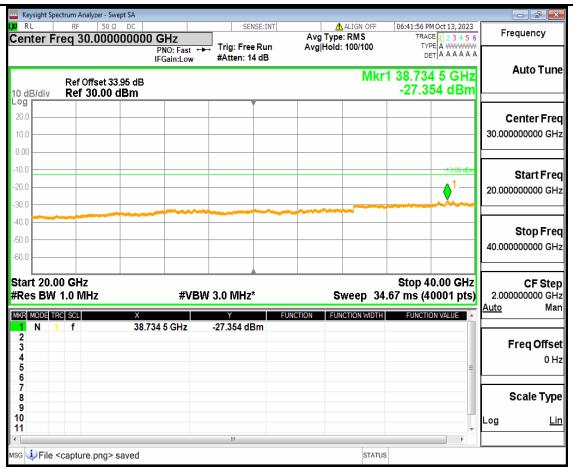
5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Left High



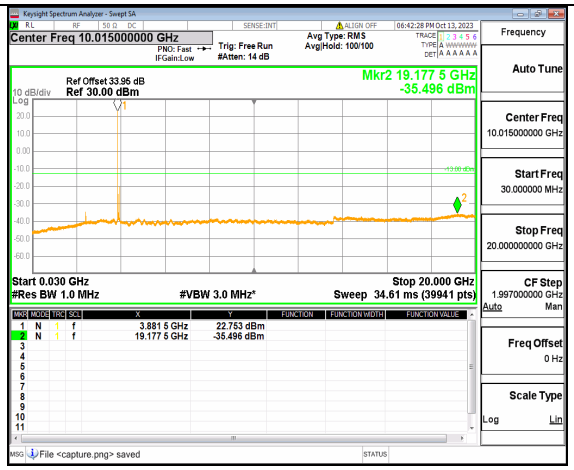
5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM BPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Outer_Full High

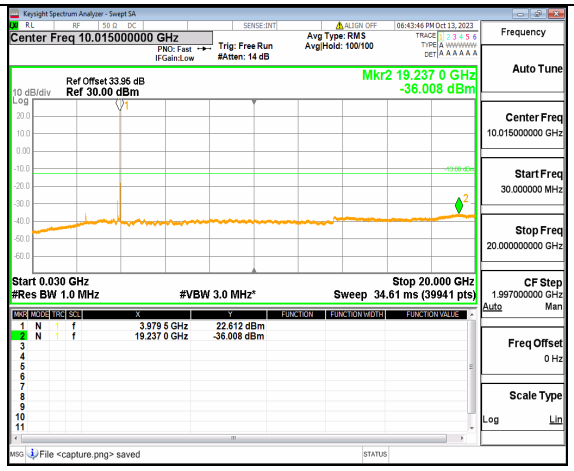


5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Outer_Full High



5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Left High

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Left High



5A_n77(3700-3980MHz) (30MHz-20GHz) 100M DFT-s-OFDM QPSK Edge_1RB_Right High

5A_n77(3700-3980MHz) (20GHz-40GHz) 100M DFT-s-OFDM QPSK Edge_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.

n5,

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.

n66

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 log10(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.

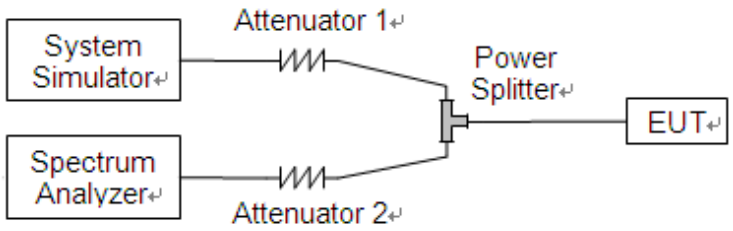
n77 (3700-3980MHz)

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

2.6.3.Test procedure

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