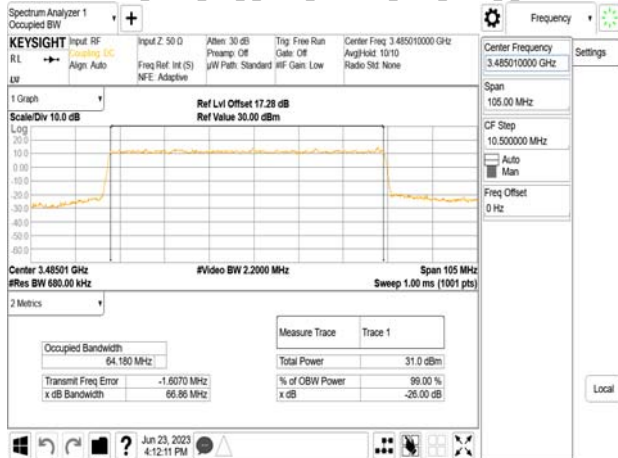
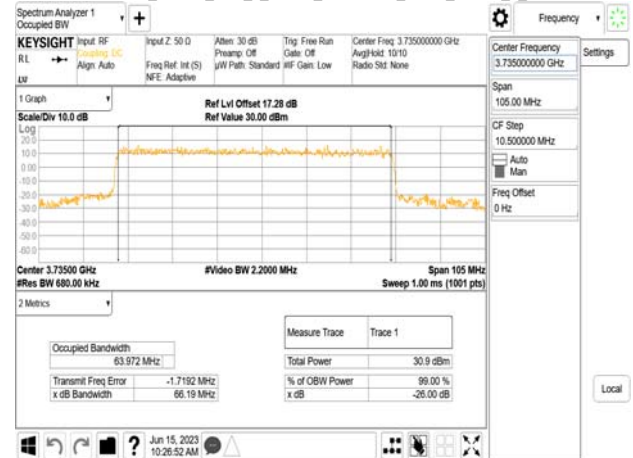


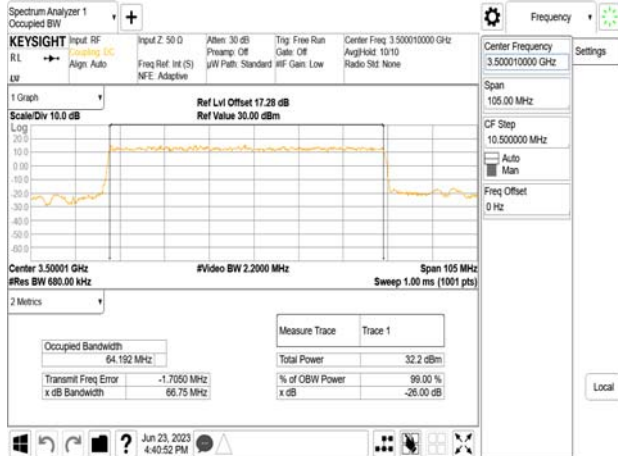
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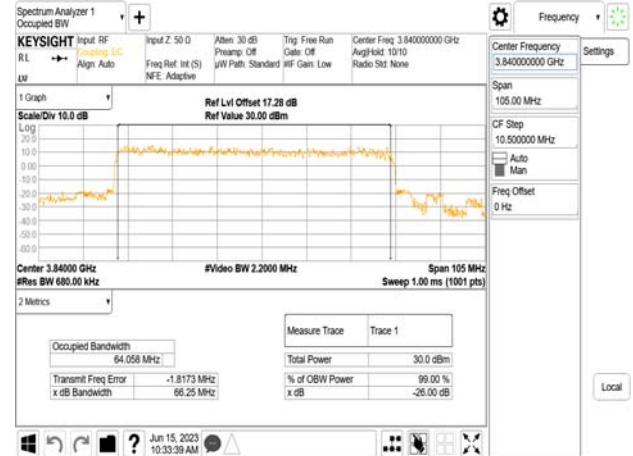
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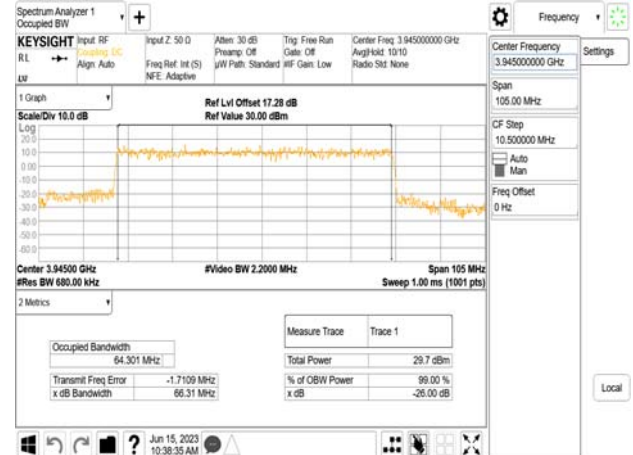
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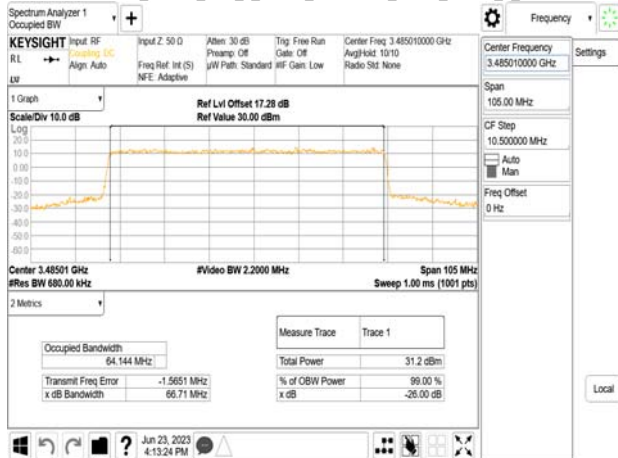


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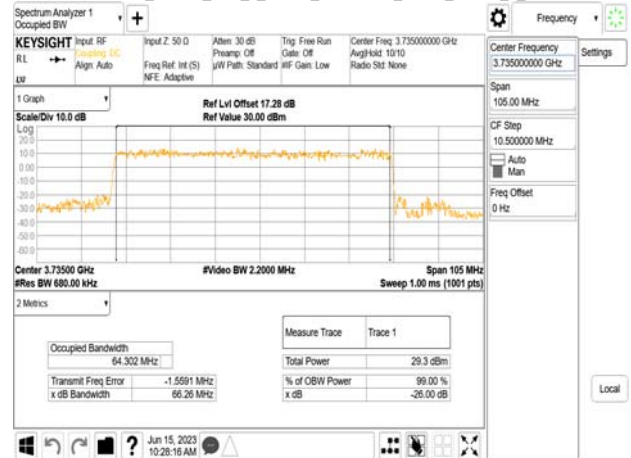
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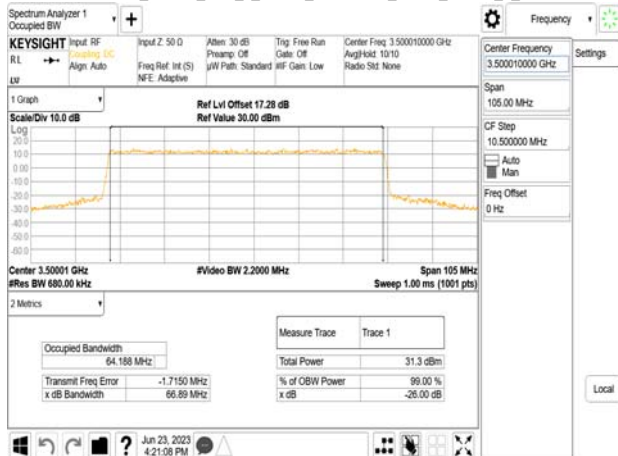
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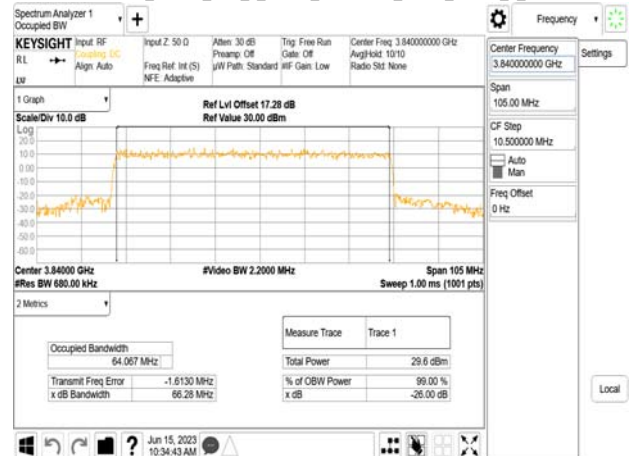
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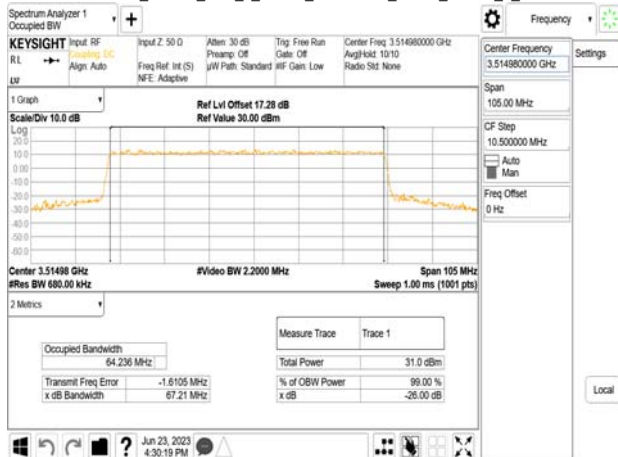
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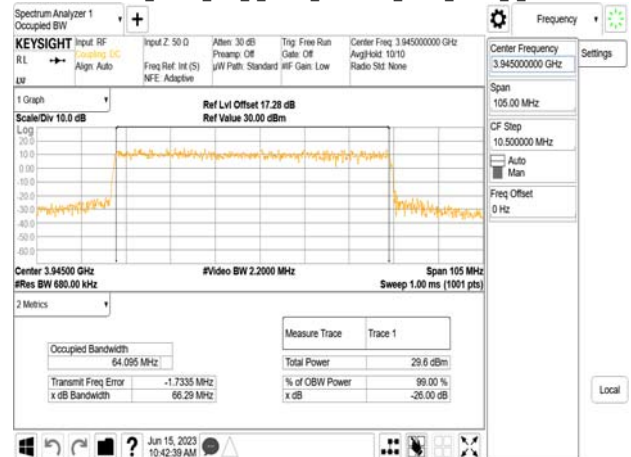
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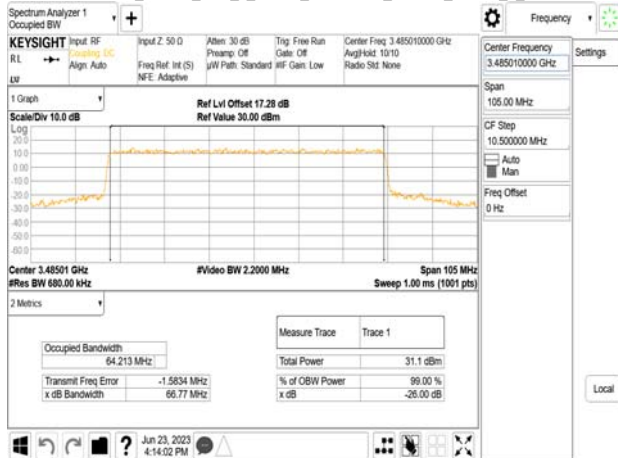


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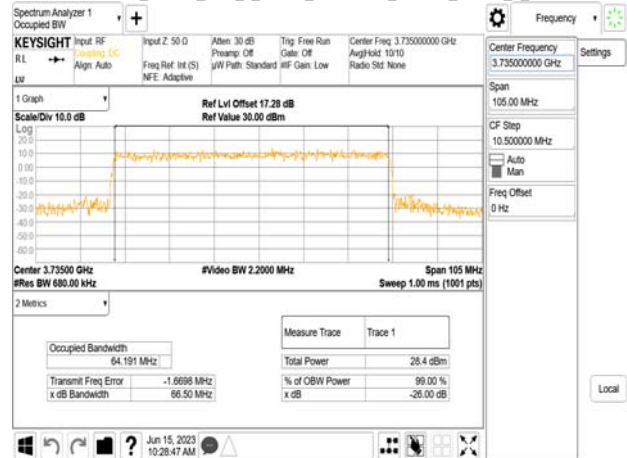
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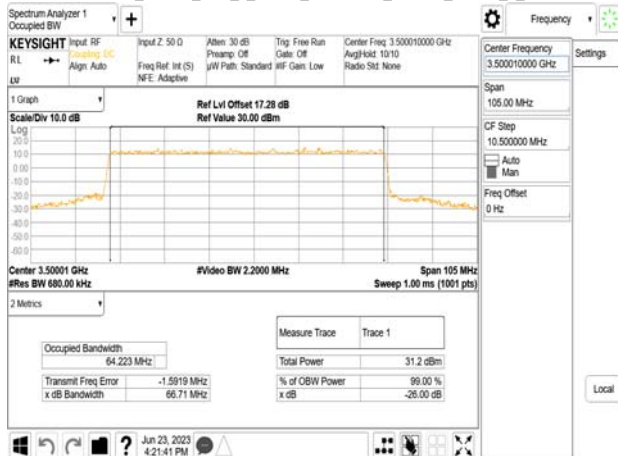
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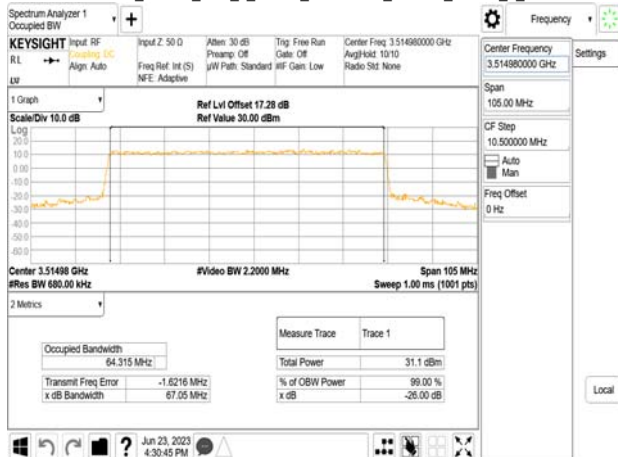
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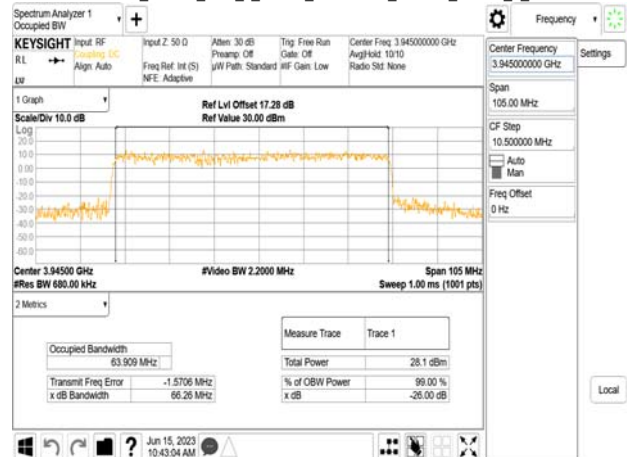
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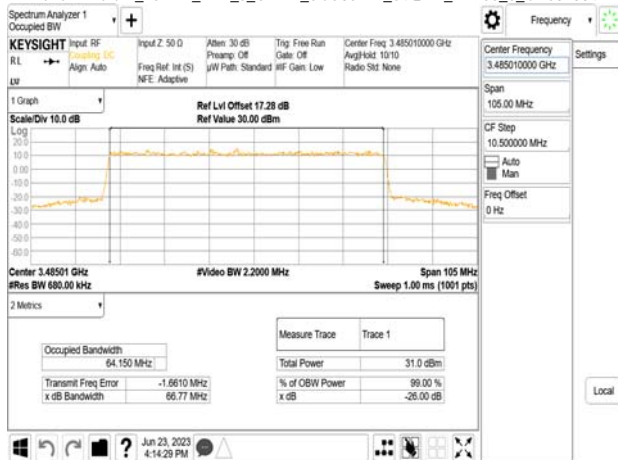


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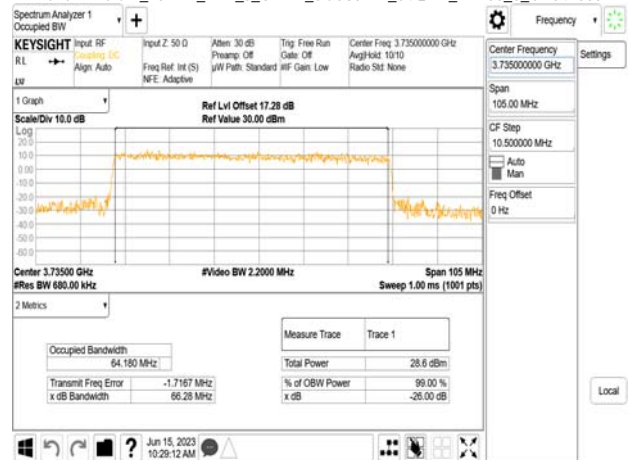
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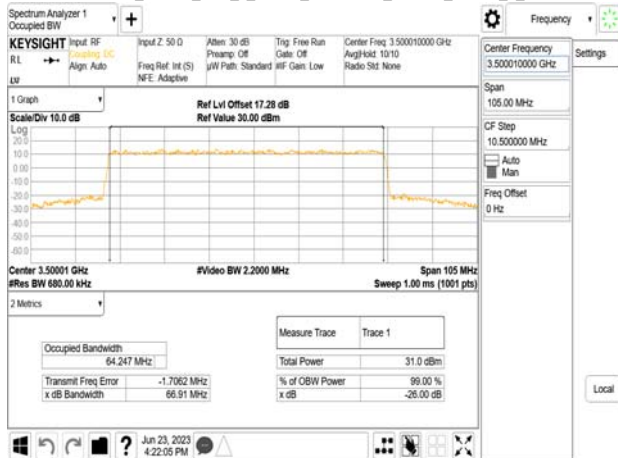
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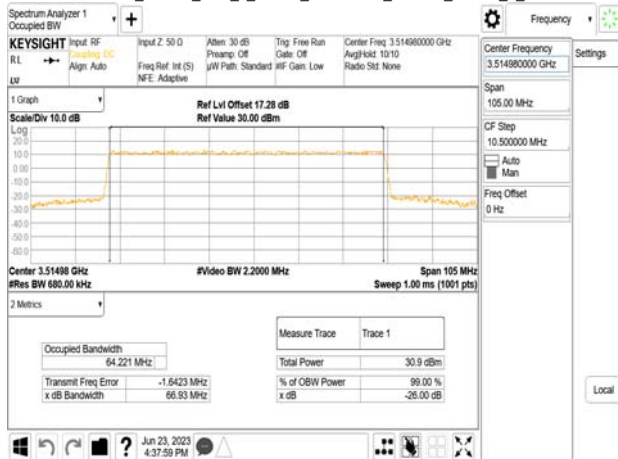
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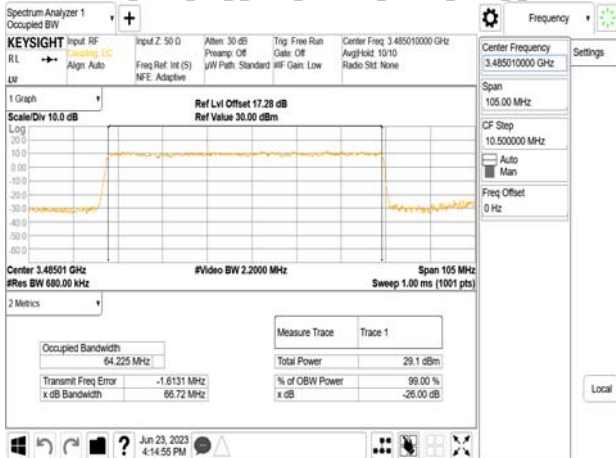


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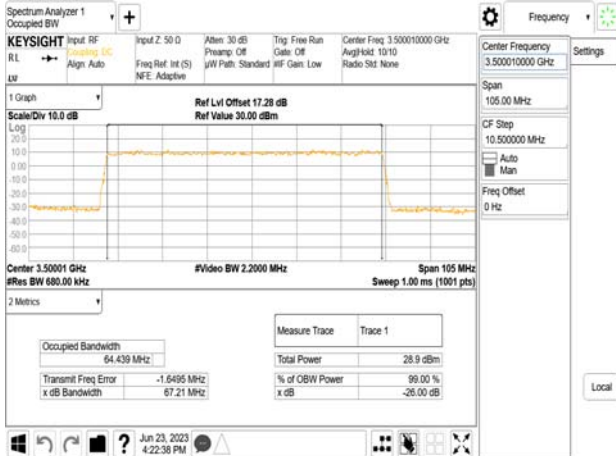
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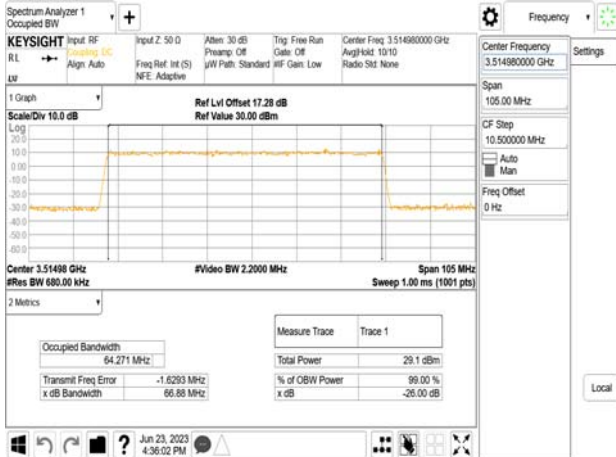
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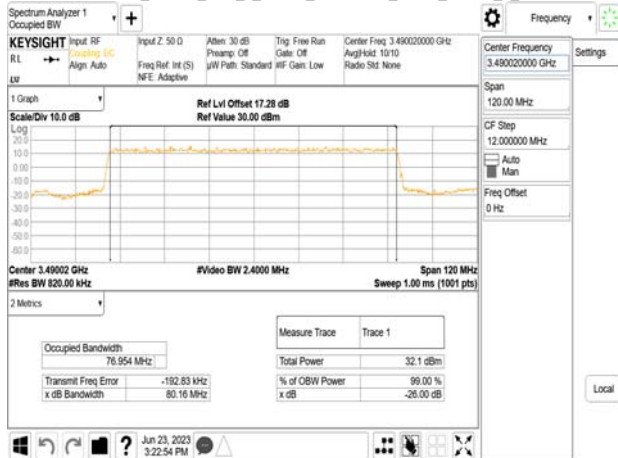


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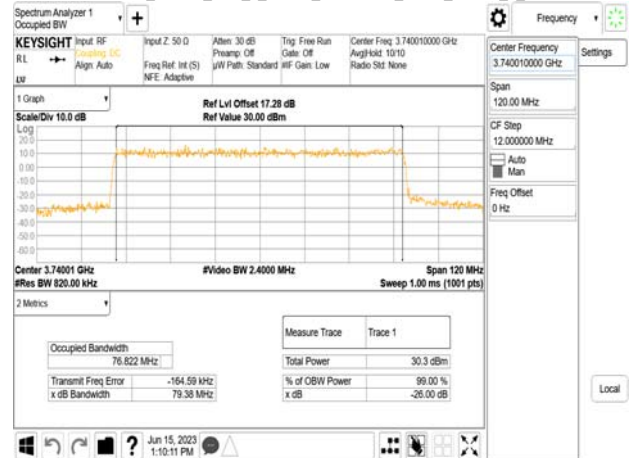
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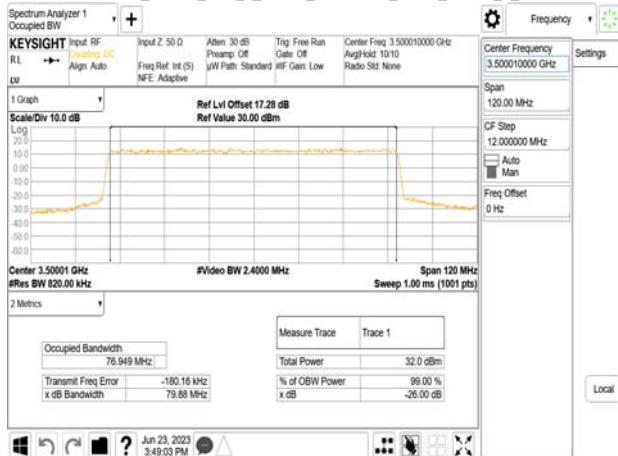
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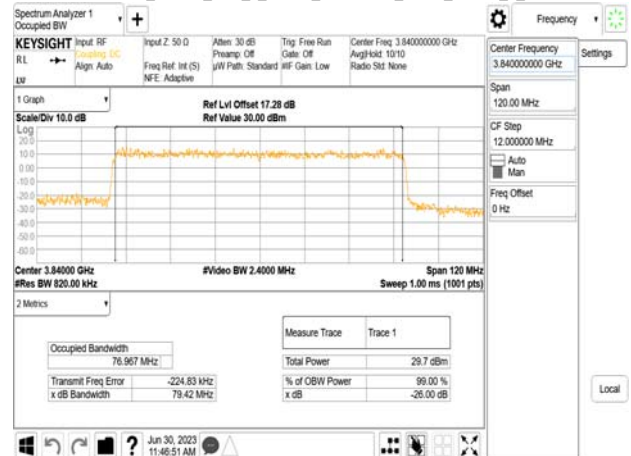
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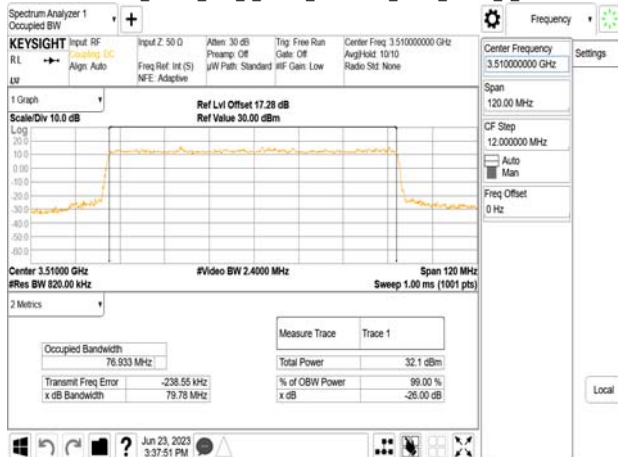
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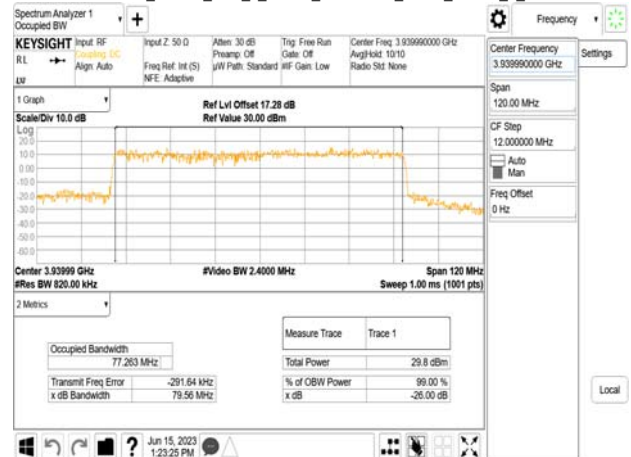
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Band77-Part27_80MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB216_0_CH634000



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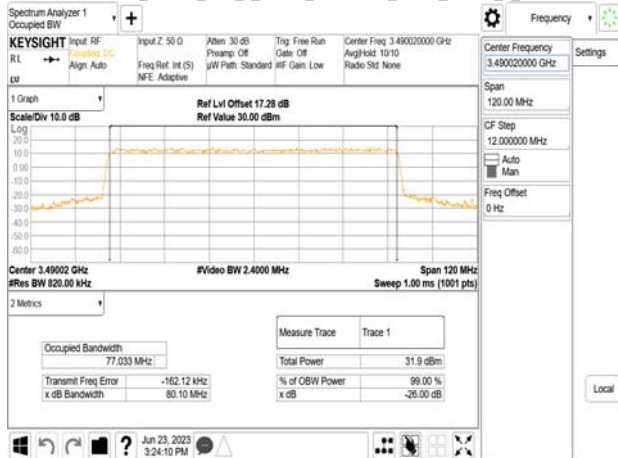


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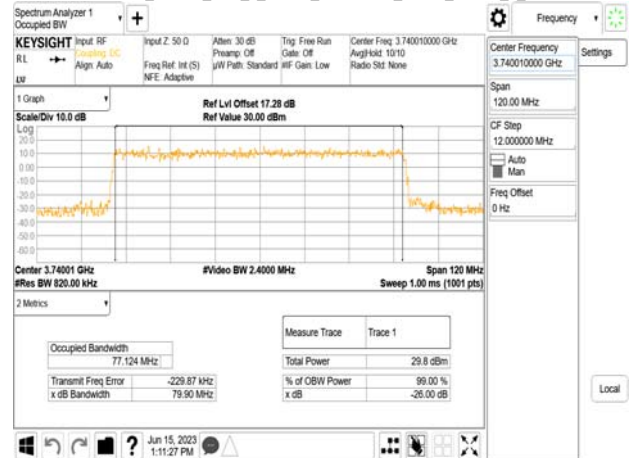
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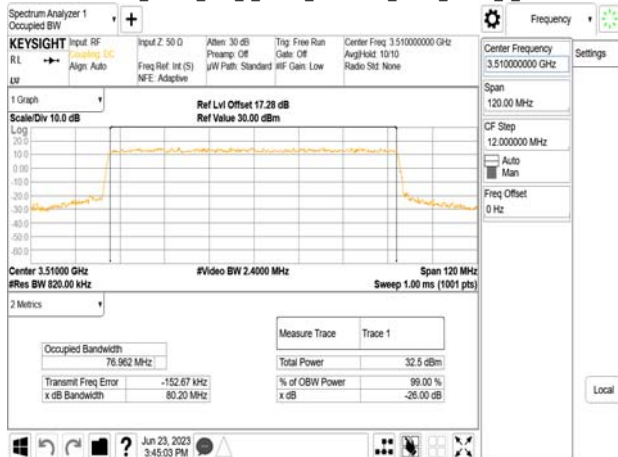
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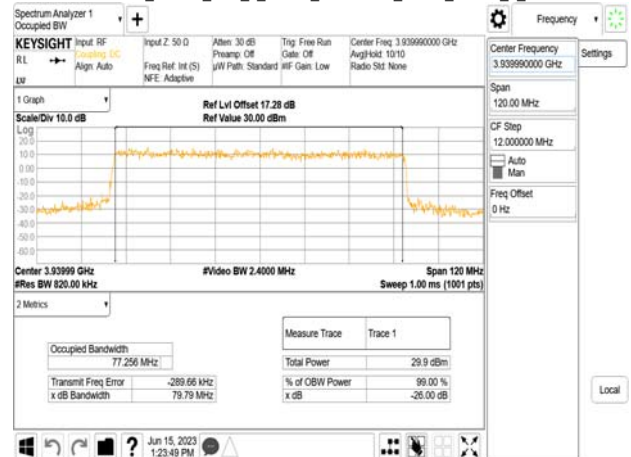
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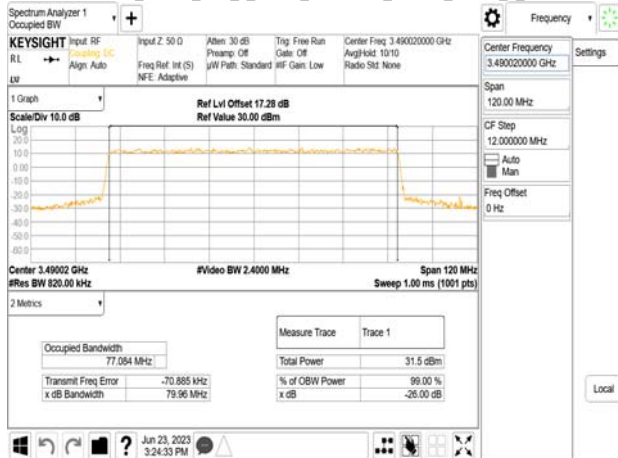


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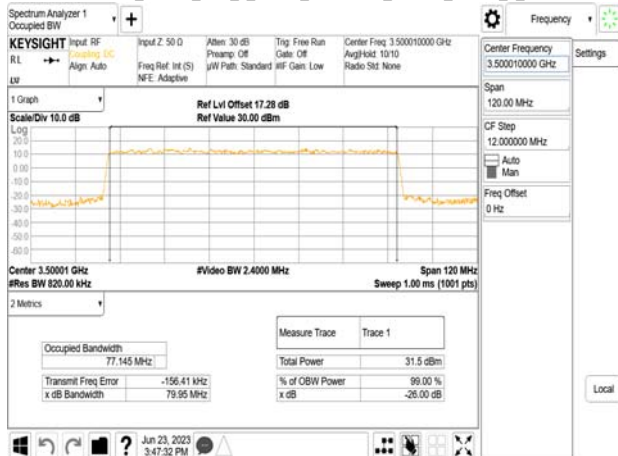
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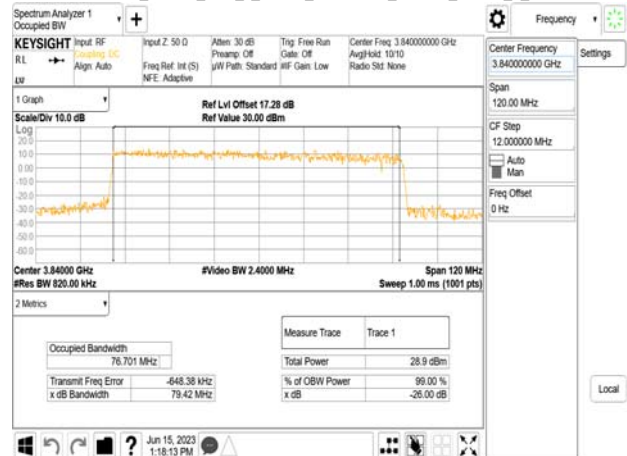
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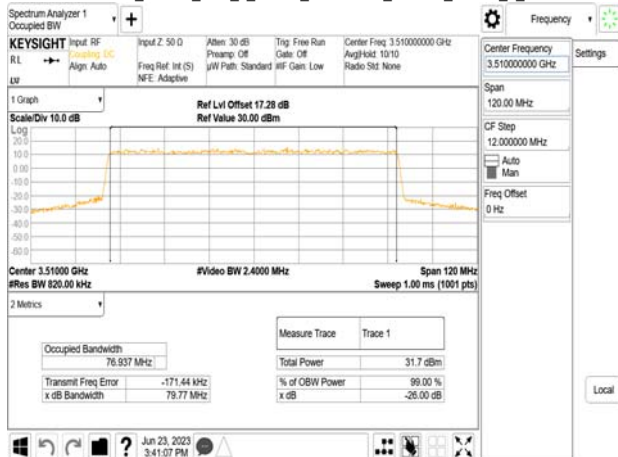
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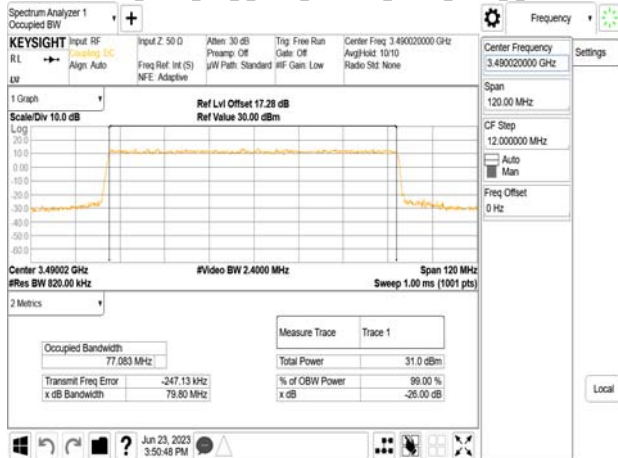


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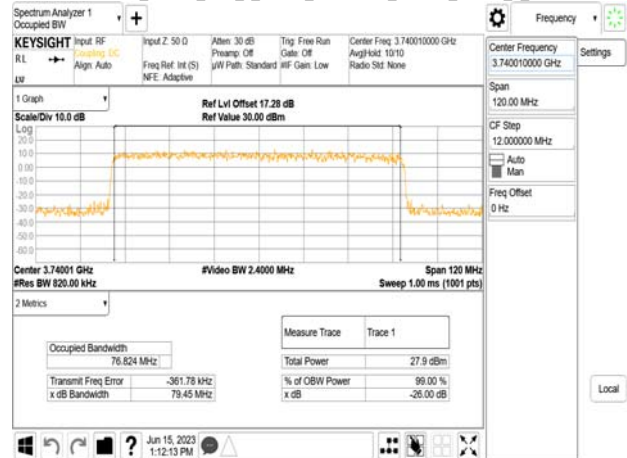
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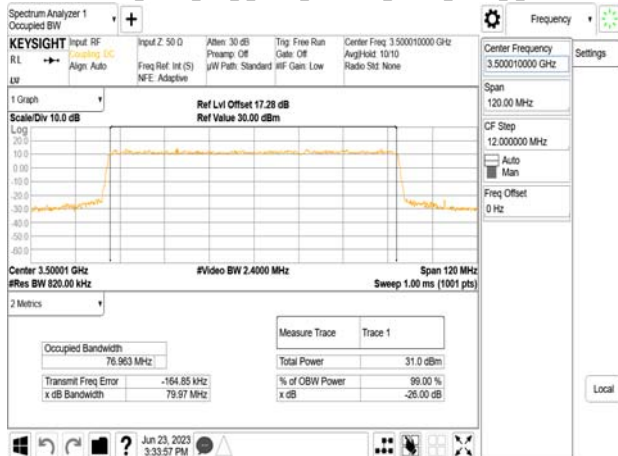
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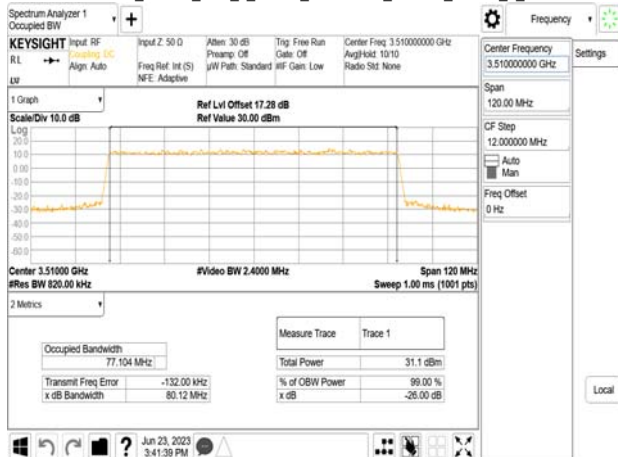
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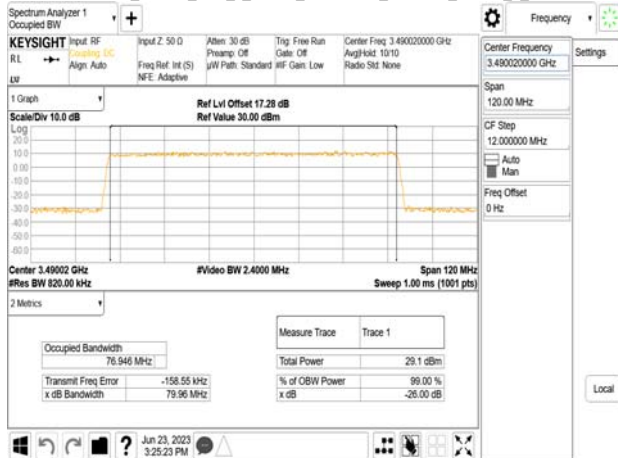


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Band77-Part27_80MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB216_0_CH632668



Band77-Part27_80MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB216_0_CH649334



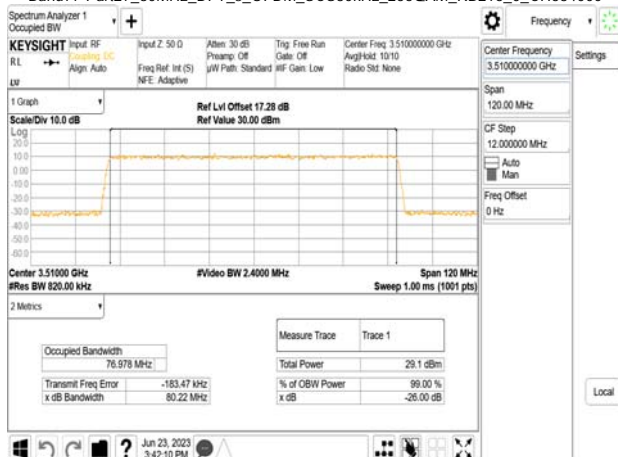
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Band77-Part27_80MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB216_0_CH634000



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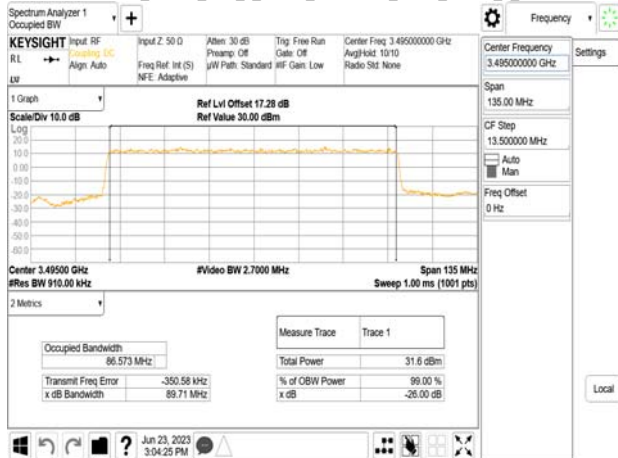


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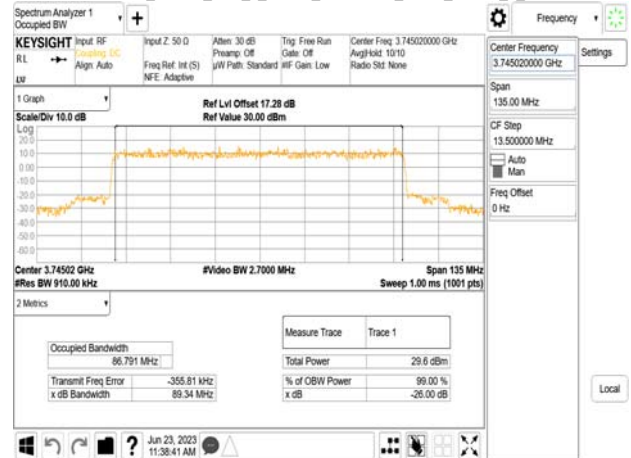
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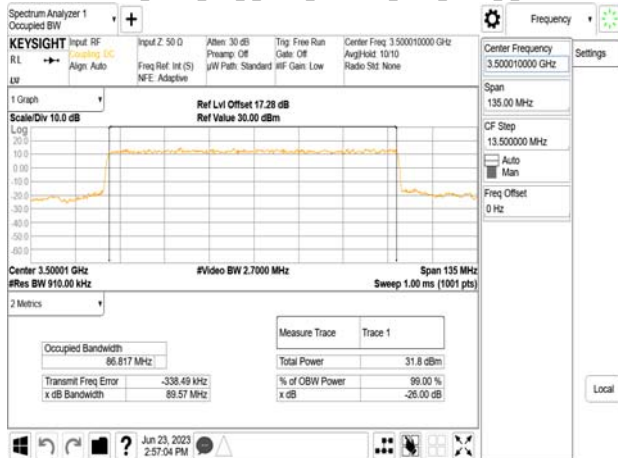
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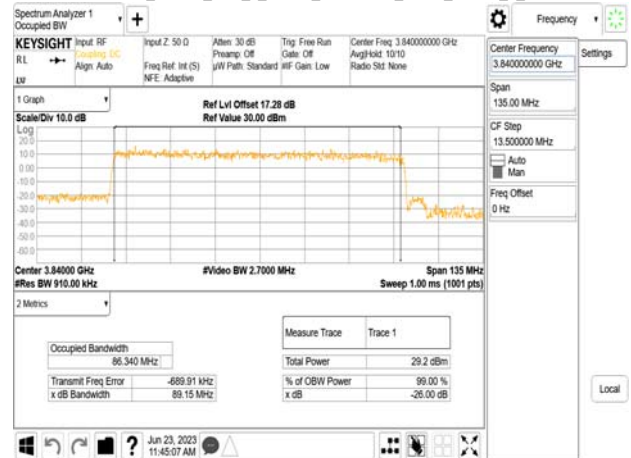
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Band77-Part27_90MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB243_0_CH656000



Band77-Part27_90MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB243_0_CH633666



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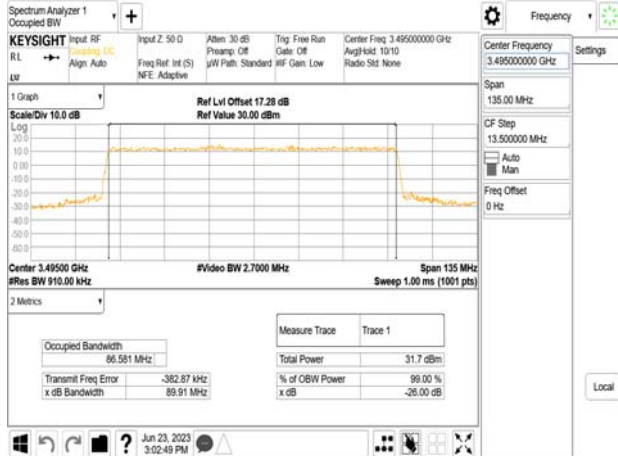


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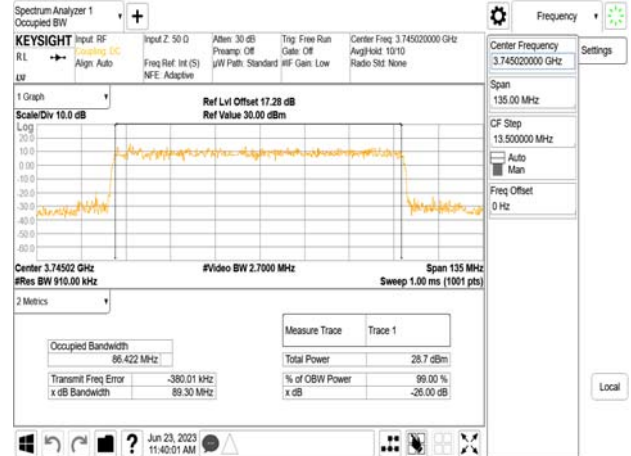
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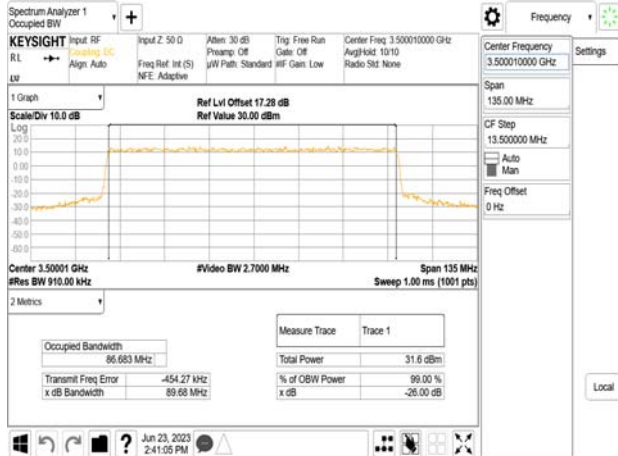
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Band77-Part27_90MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB243_0_CH633666



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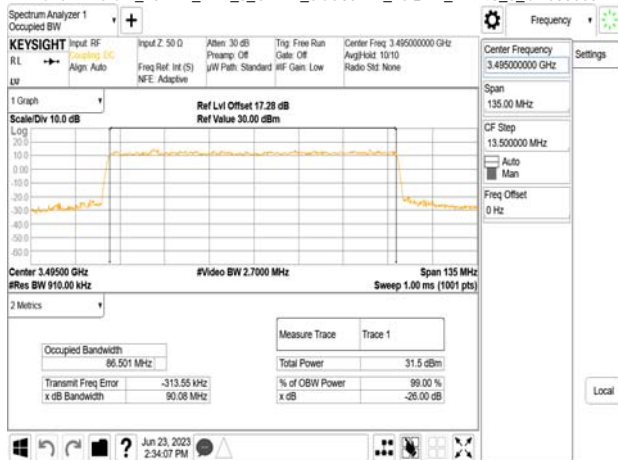


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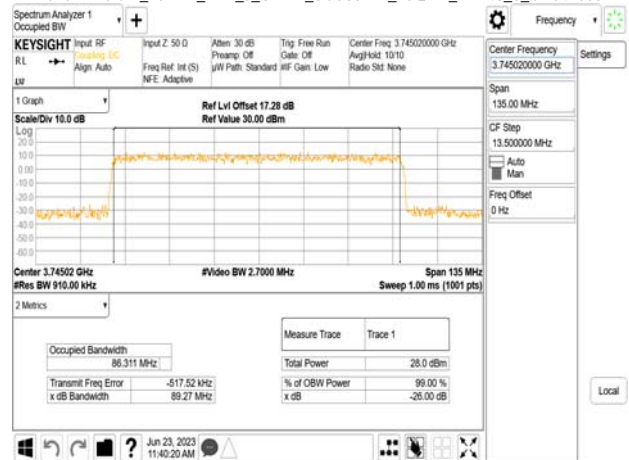
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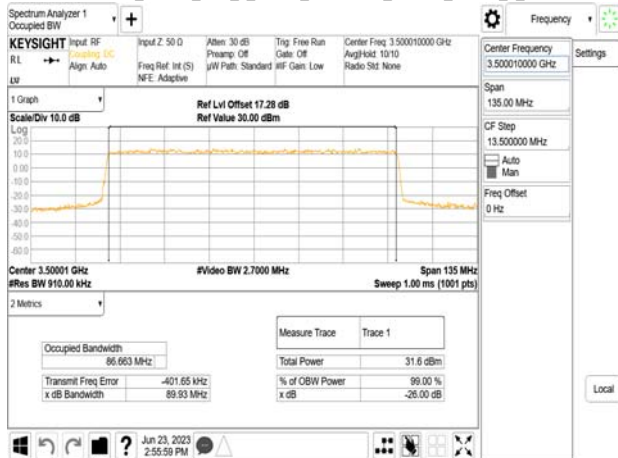
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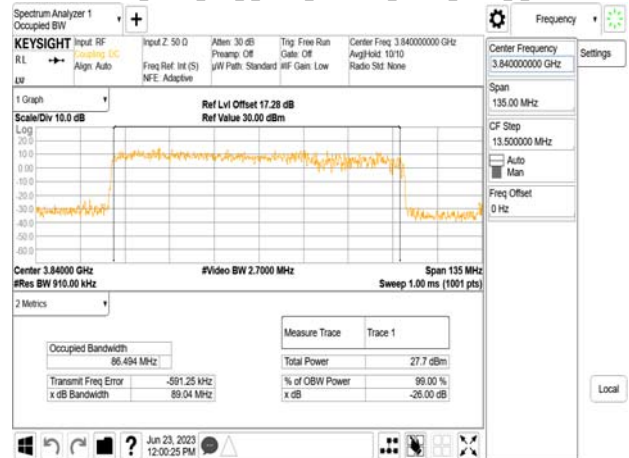
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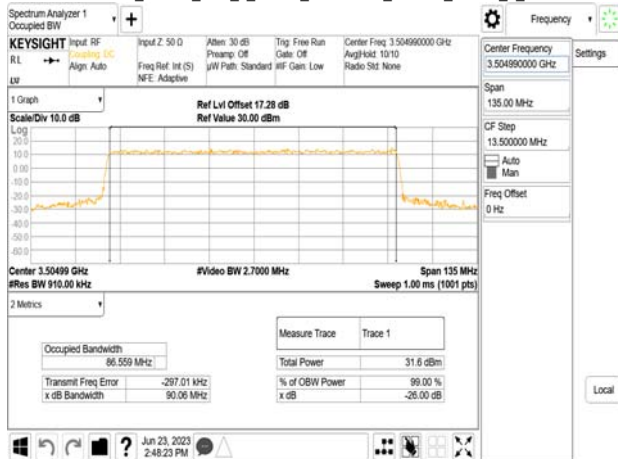
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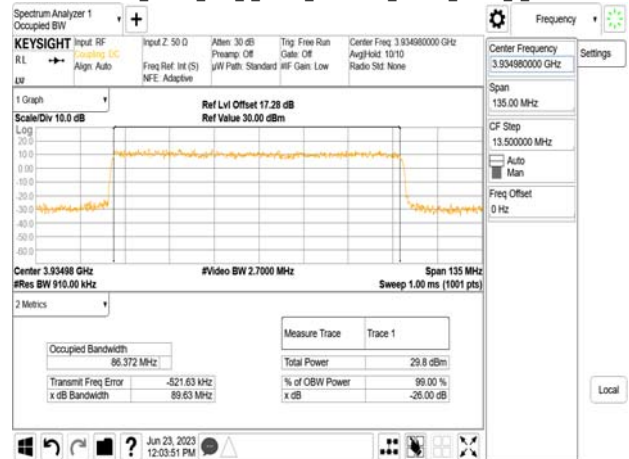
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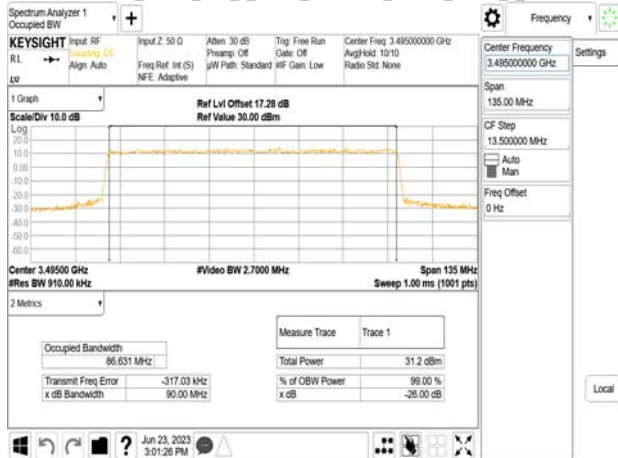


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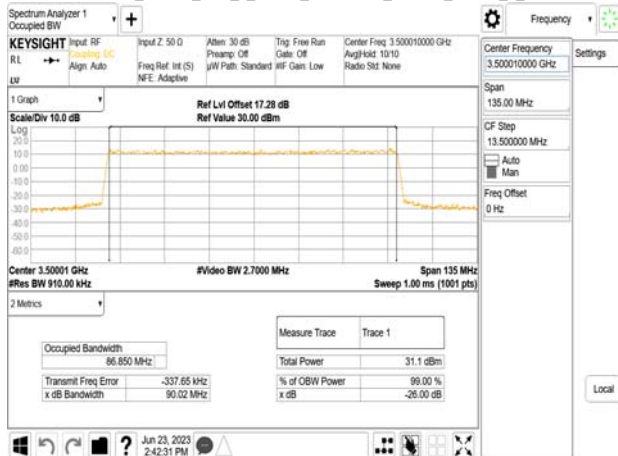
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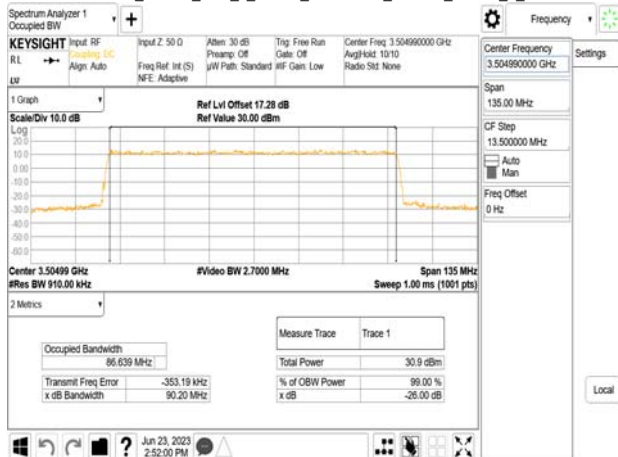
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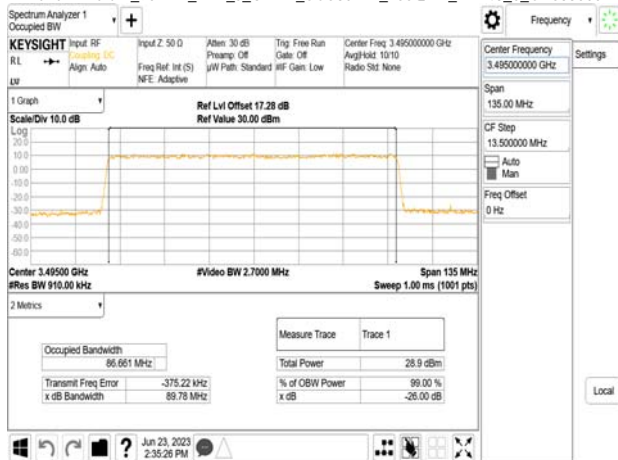


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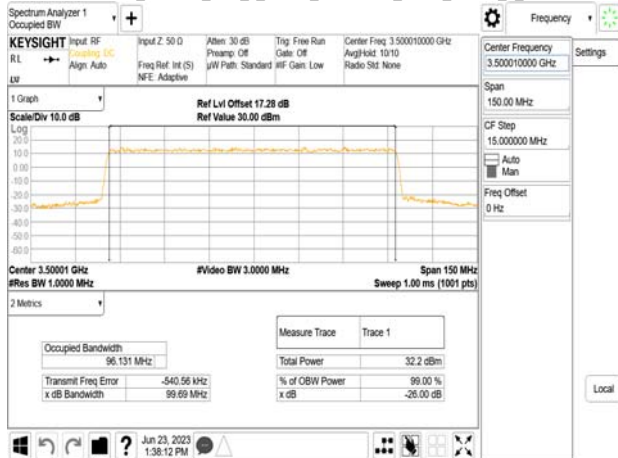


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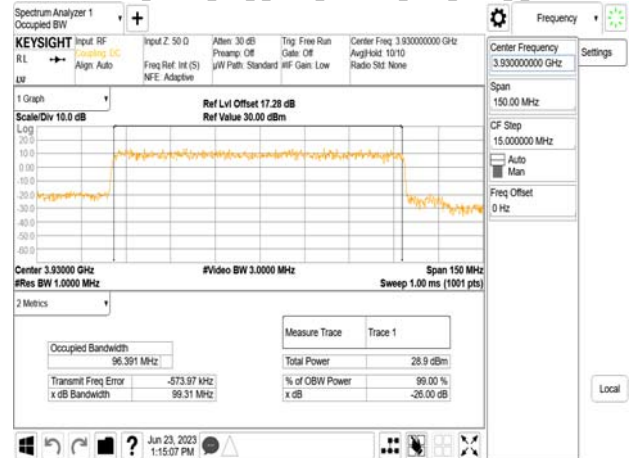
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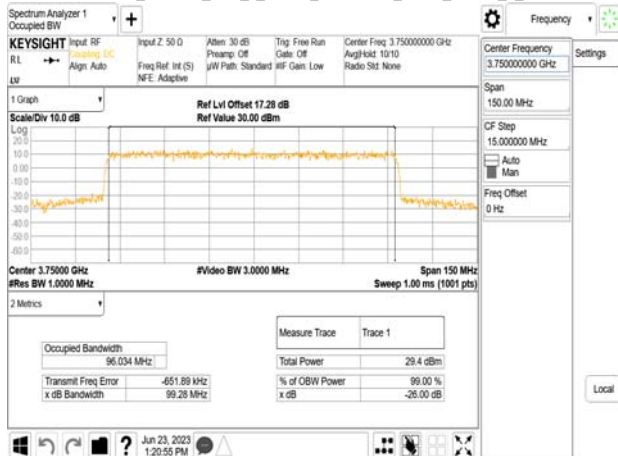
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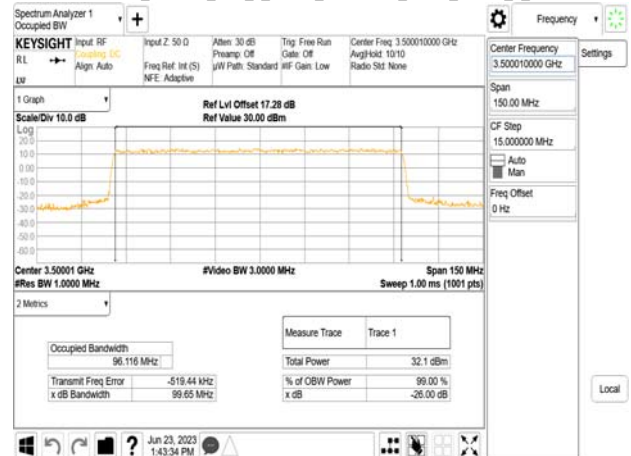
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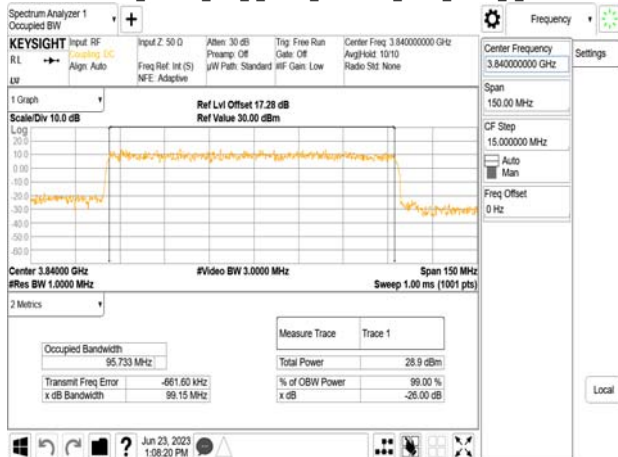
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Band77-Part27_100MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB270_0_CH656000



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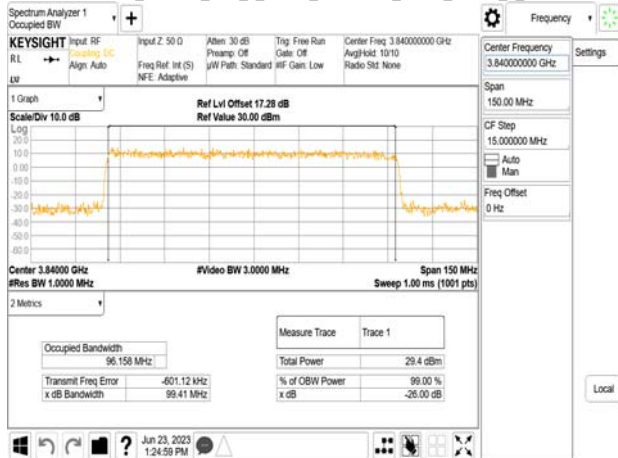


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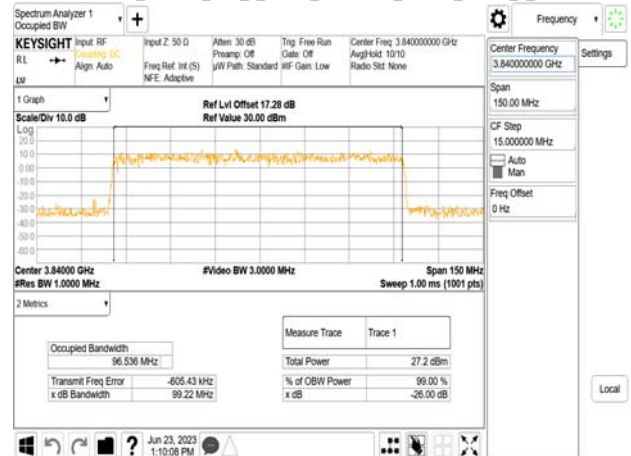
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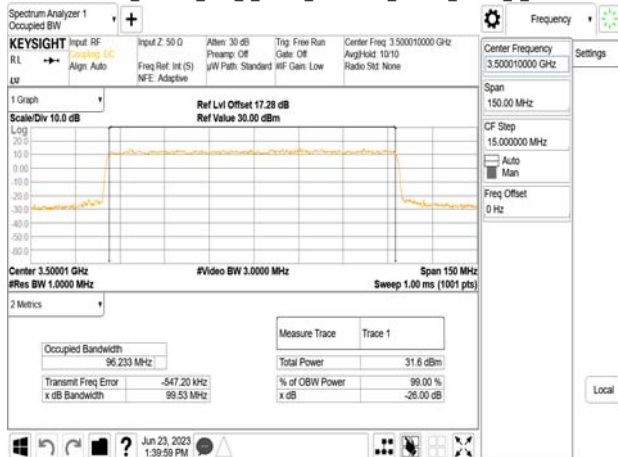
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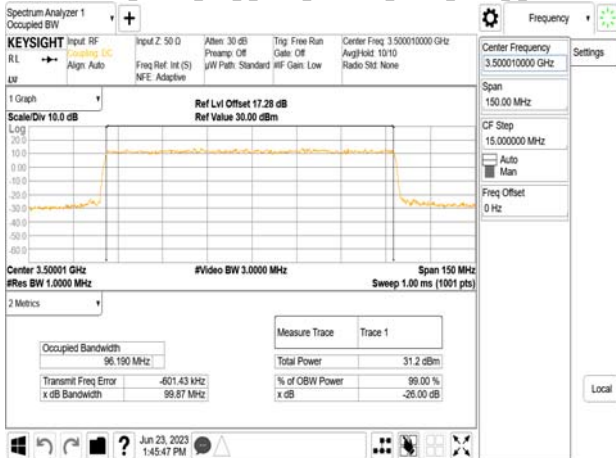


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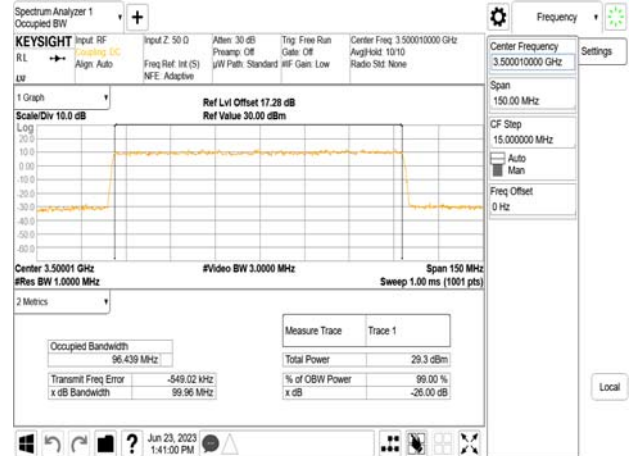
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Band77-Part27_100MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB270_0_CH650000



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Band77-Part27_100MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB270_0_CH656000



Band77-Part27_100MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB270_0_CH662000



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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC §27.53(m) (4) (6)

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.

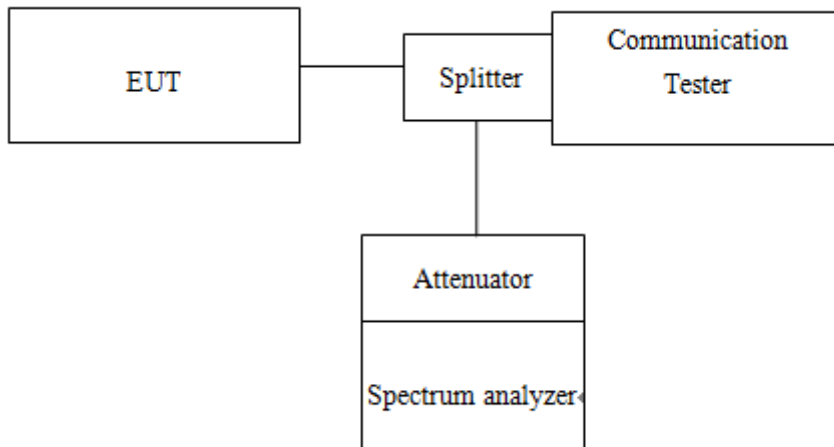
Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and

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one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

9.2 Test SET-UP



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9.3 Measurement Procedure

9.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Correction factor $10\log [(reference\ bandwidth) / (resolution\ bandwidth)]$ is applied and compensate to the test results.

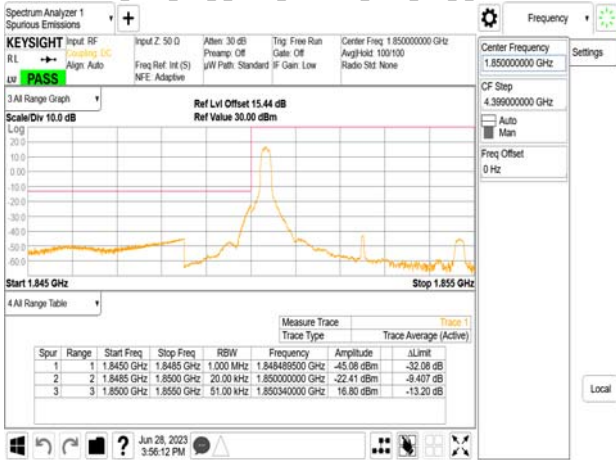
9.4 Band Edge Measurement Result:

Refer to next pages.

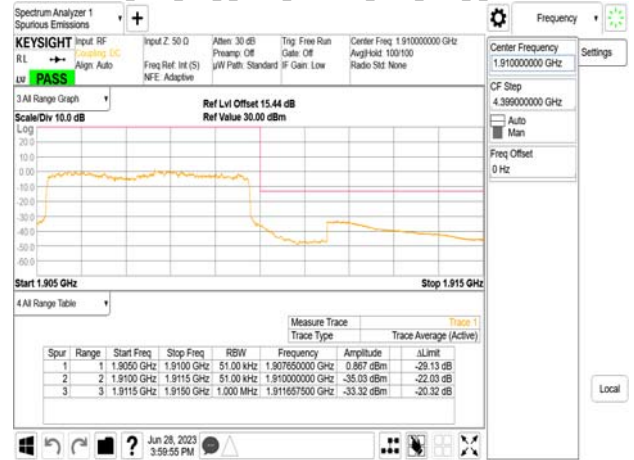
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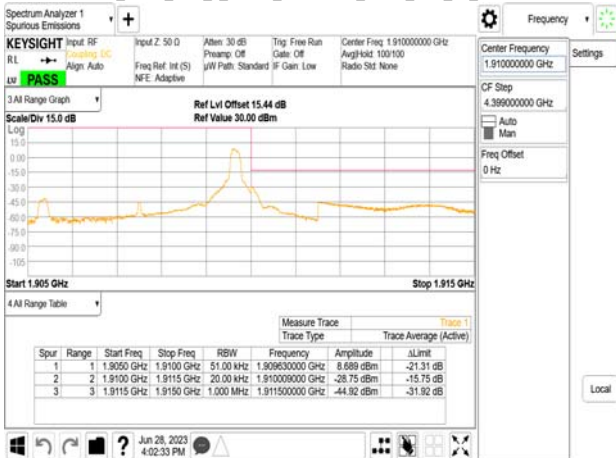
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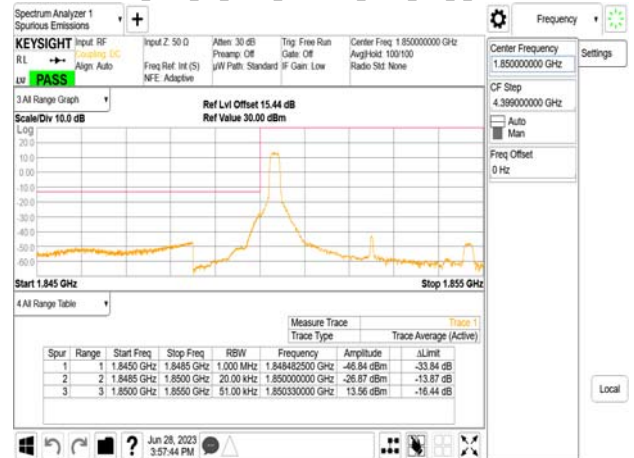
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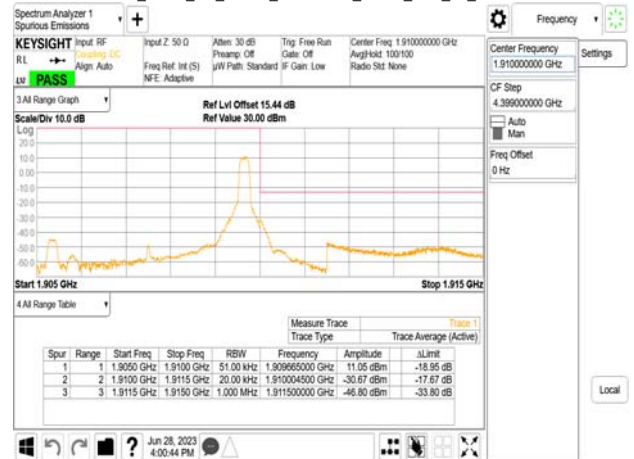
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Band2_5MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB25_0_CH370500



Band2_5MHz_CP_OFDM_SCS15kHz_QPSK_RB1_24_CH381500



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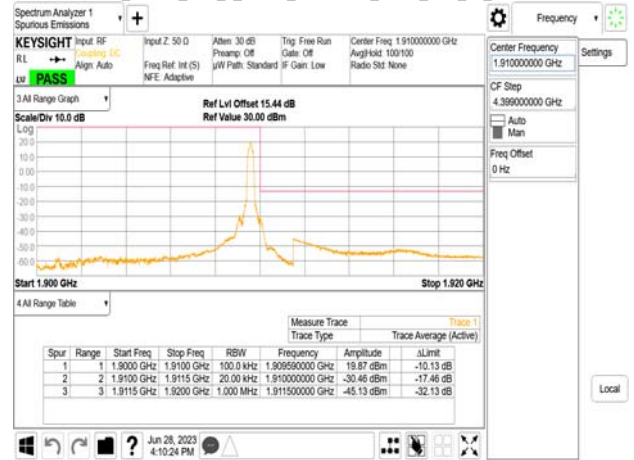
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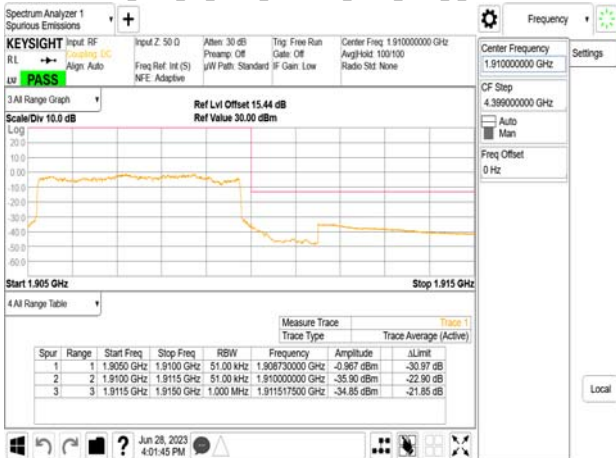
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Band2_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_51_CH381000



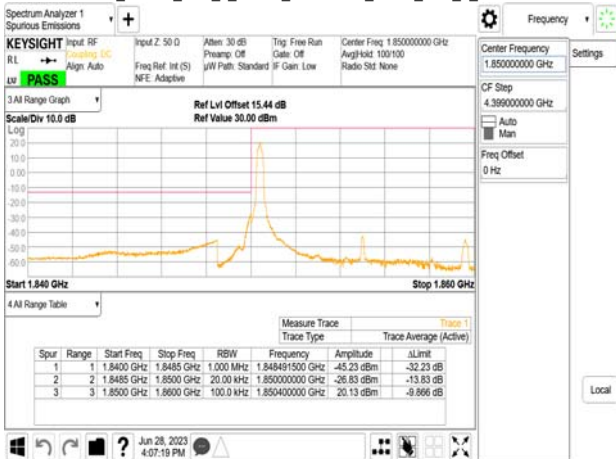
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Band2_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB50_0_CH371000



Band2_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_0_CH371000



Band2_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB50_0_CH381000

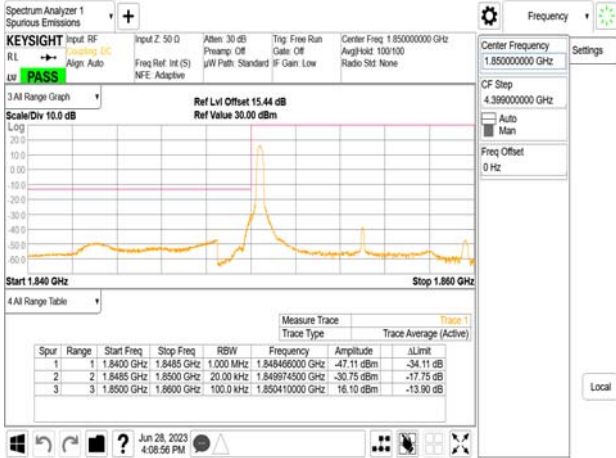


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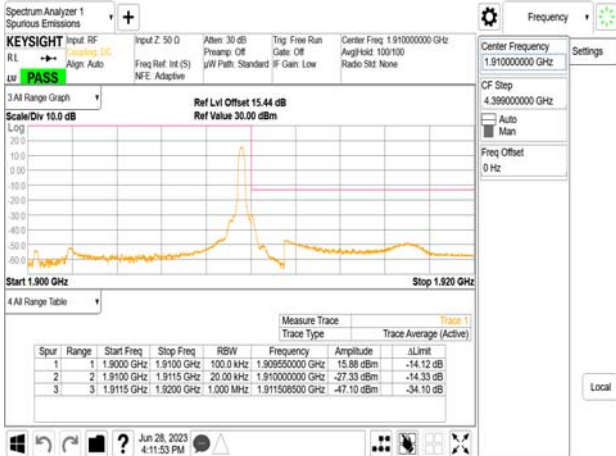
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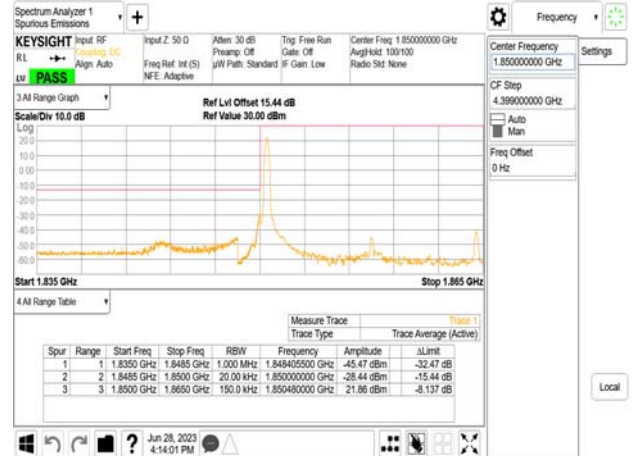
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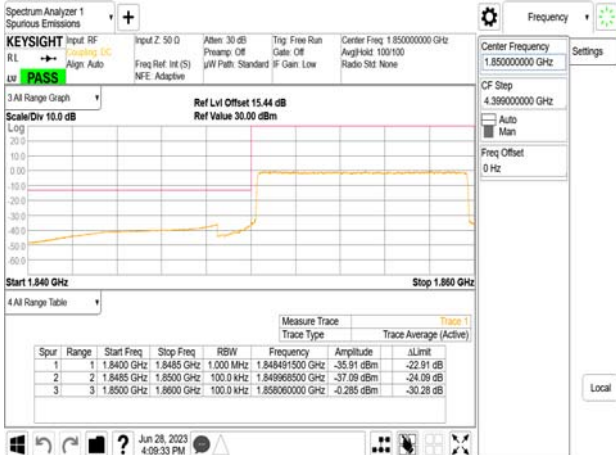
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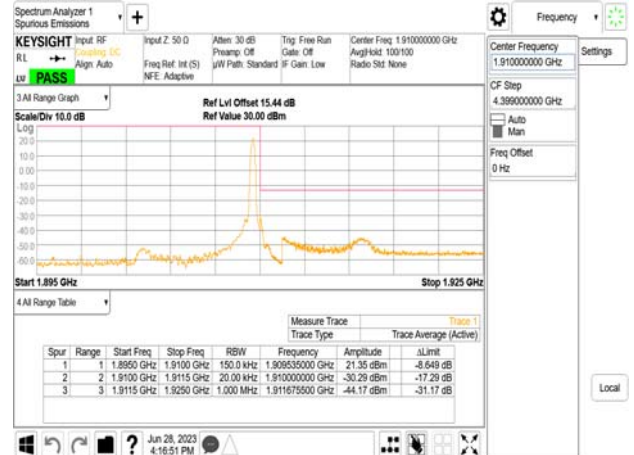
Band2_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_0_CH371500



Band2_10MHz_CP_OFDM_SCS15kHz_QPSK_RB52_0_CH371000



Band2_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_78_CH380500



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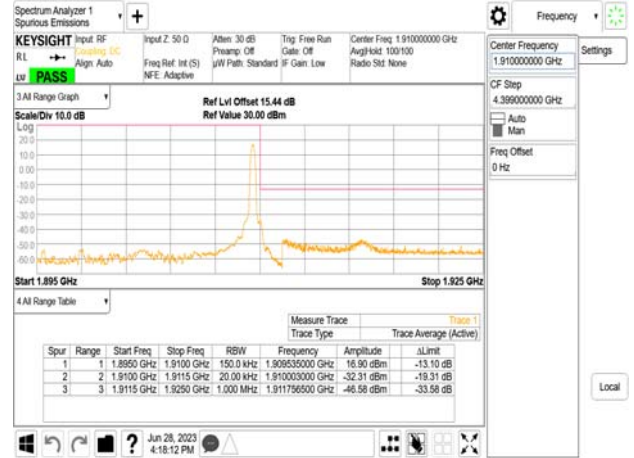
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Band2_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB75_0_CH371500



Band2_15MHz_CP_OFDM_SCS15kHz_QPSK_RB1_78_CH380500



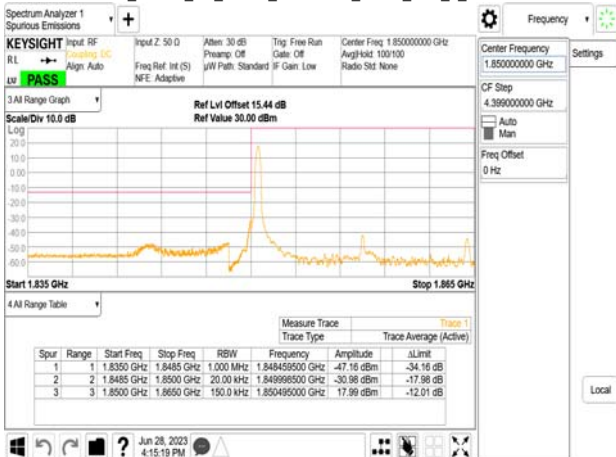
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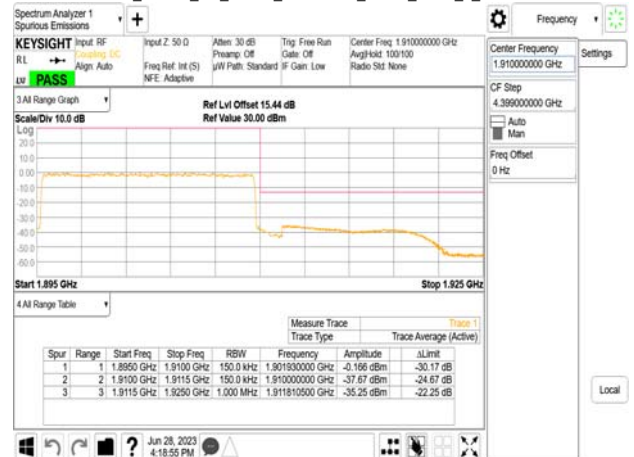
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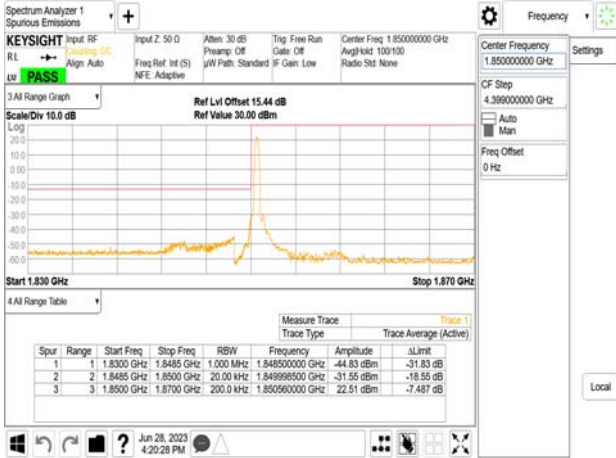


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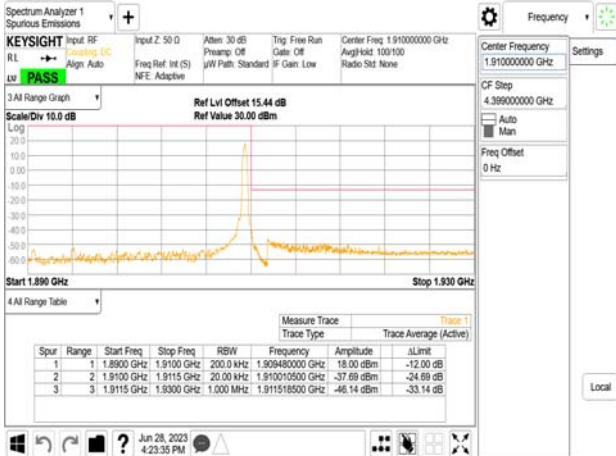
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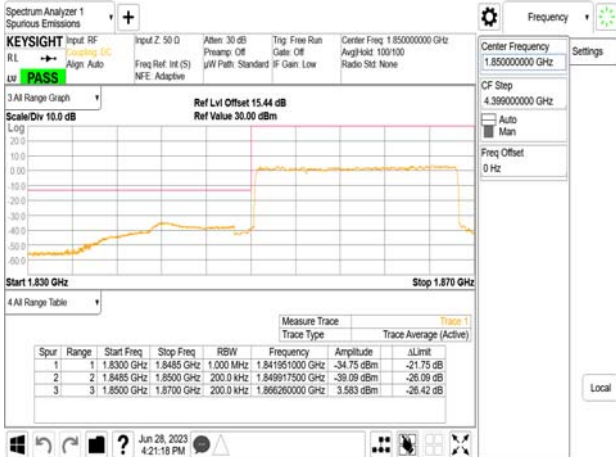
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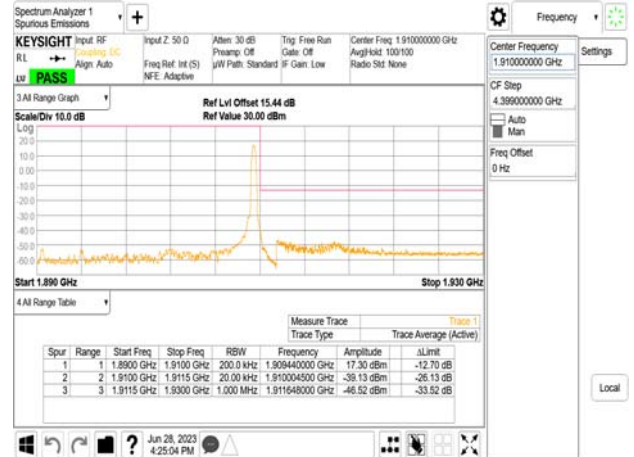
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Band2_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB100_0_CH372000



Band2_20MHz_CP_OFDM_SCS15kHz_QPSK_RB1_105_CH380000



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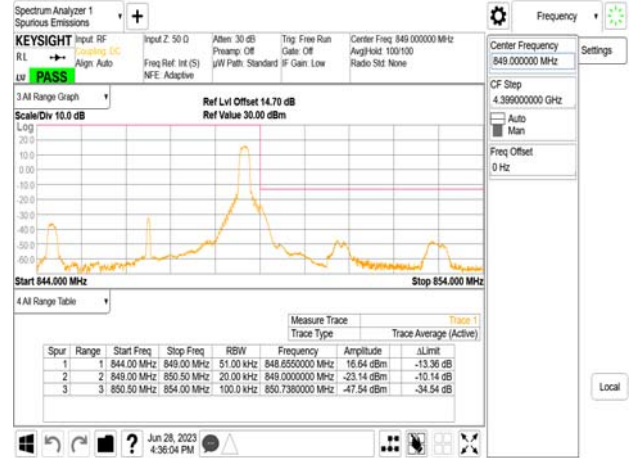
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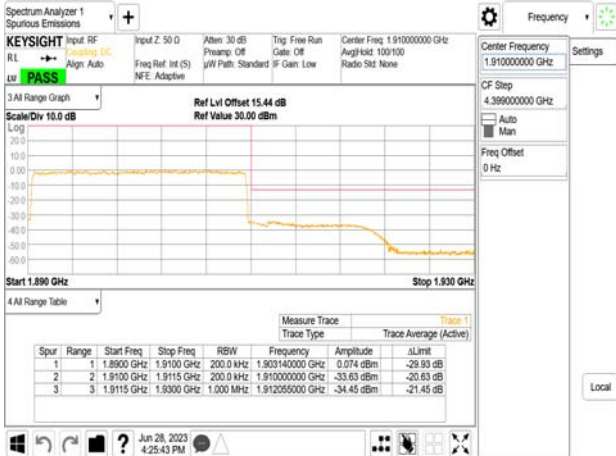
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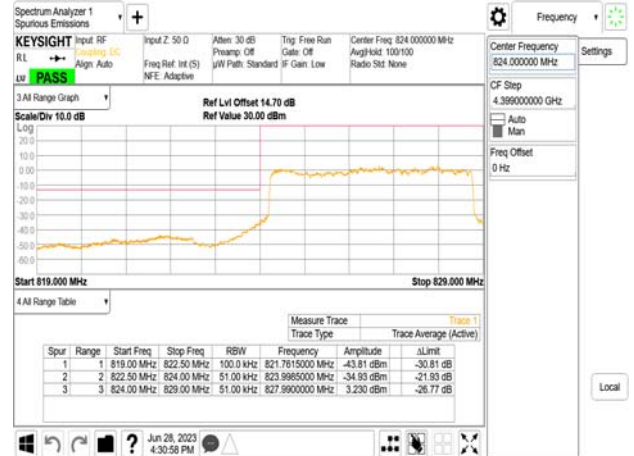
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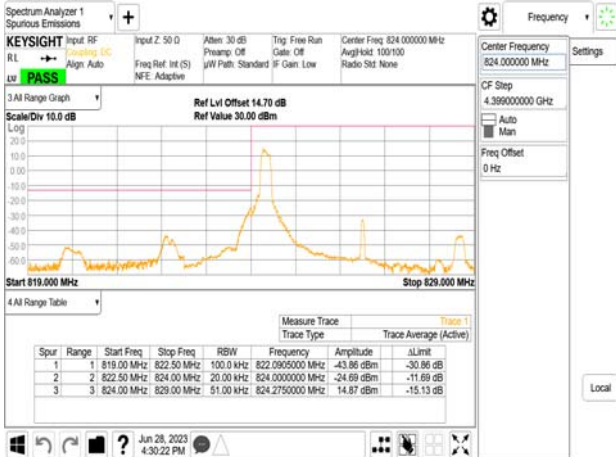
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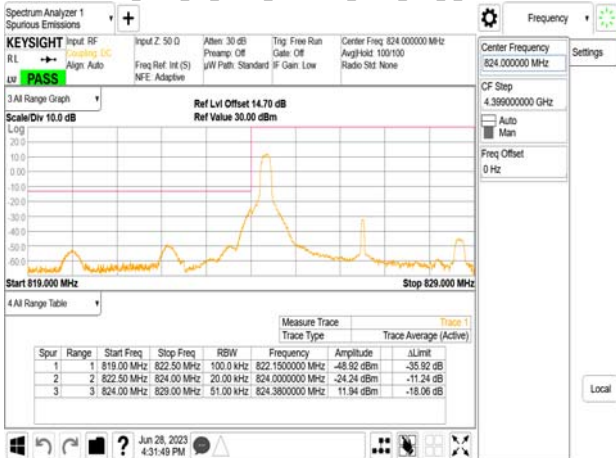


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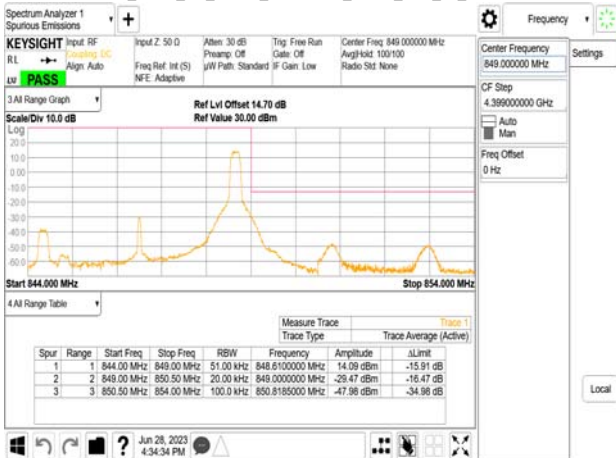
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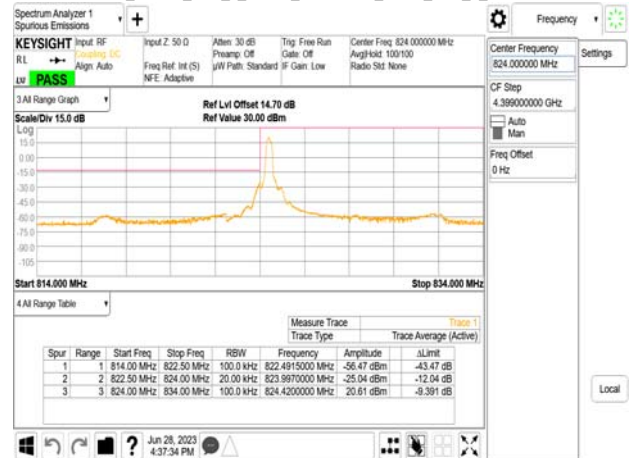
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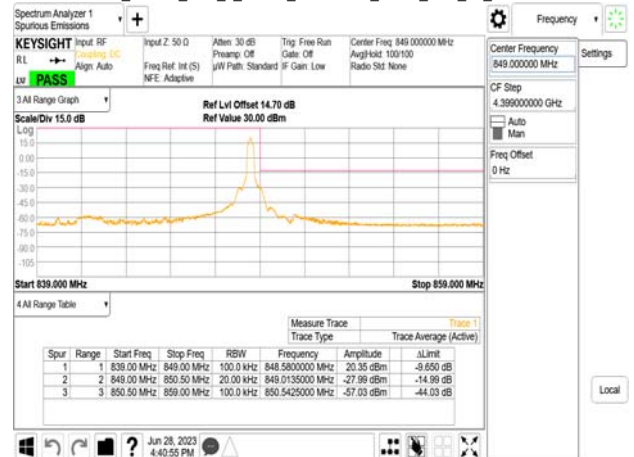
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Band5_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_51_CH168800



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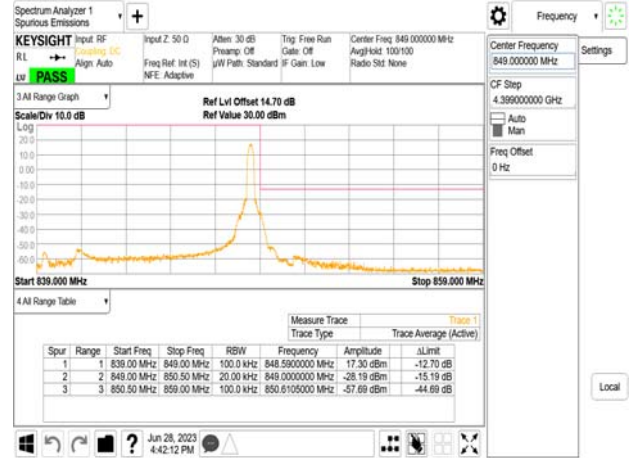
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Band5_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB50_0_CH165800



Band5_10MHz_CP_OFDM_SCS15kHz_QPSK_RB1_51_CH168800



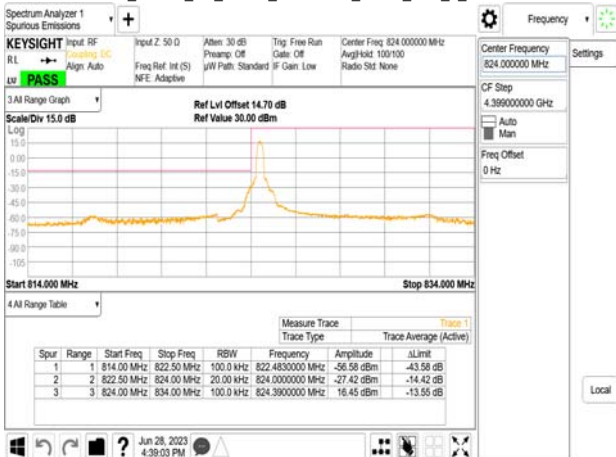
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Band5_10MHz_CP_OFDM_SCS15kHz_QPSK_RB52_0_CH165800



Band5_10MHz_CP_OFDM_SCS15kHz_QPSK_RB1_0_CH165800



Band5_10MHz_CP_OFDM_SCS15kHz_QPSK_RB52_0_CH168800

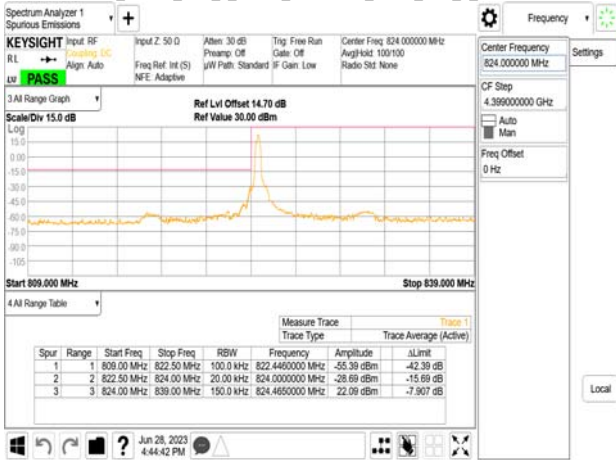


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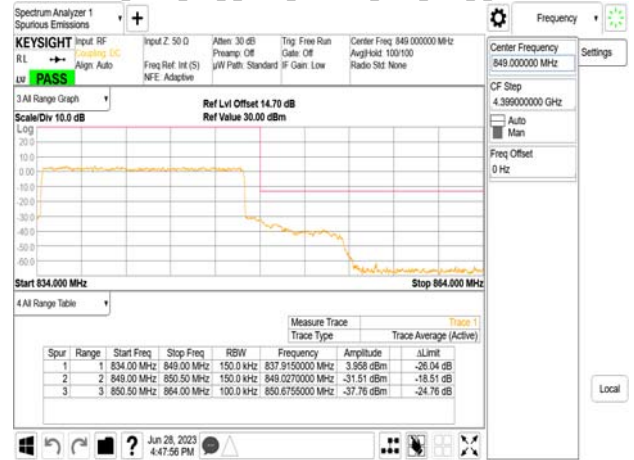
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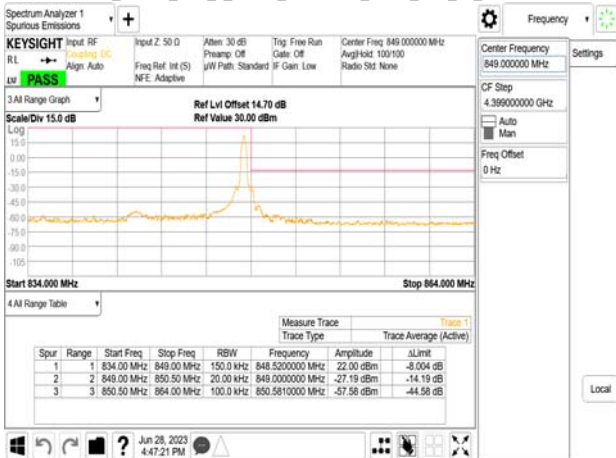
Band5_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_0_CH166300



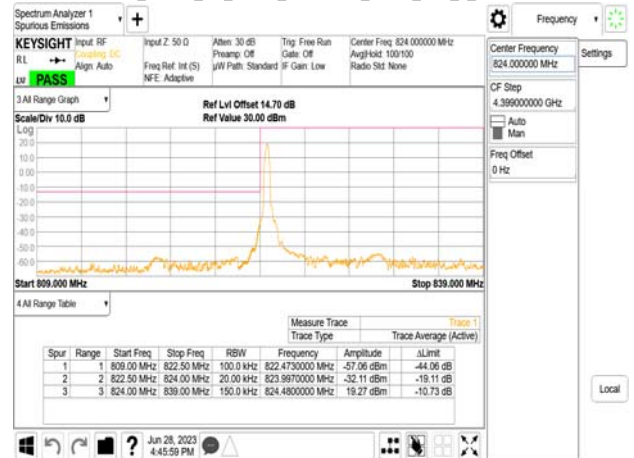
Band5_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB75_0_CH168300



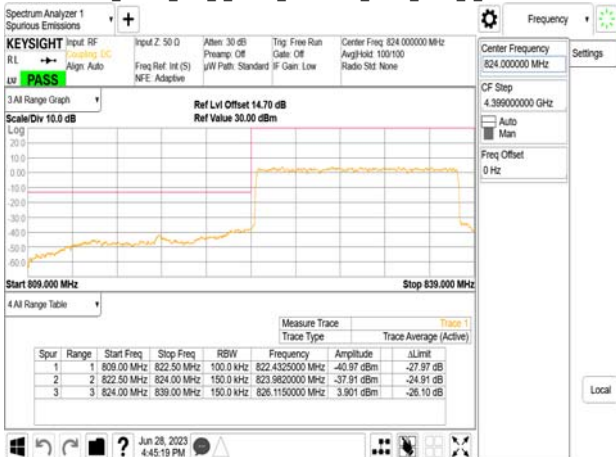
Band5_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_78_CH168300



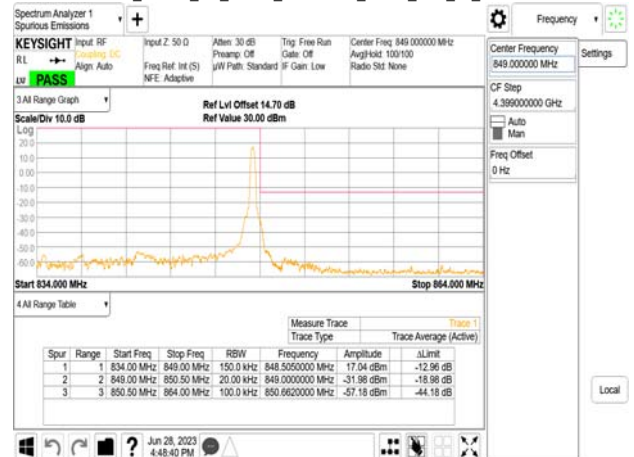
Band5_15MHz_CP_OFDM_SCS15kHz_QPSK_RB1_0_CH166300



Band5_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB75_0_CH168300



Band5_15MHz_CP_OFDM_SCS15kHz_QPSK_RB1_78_CH168300



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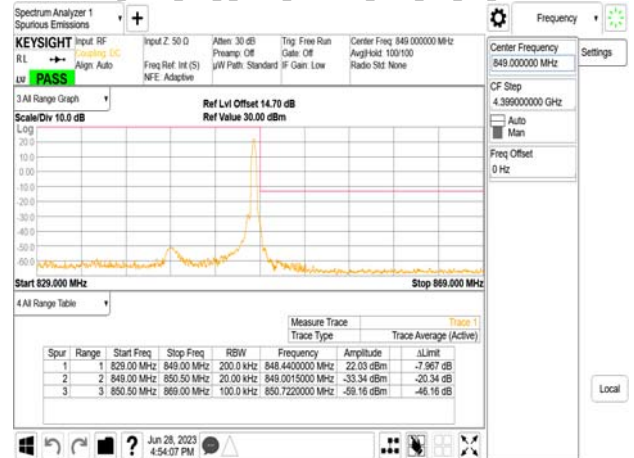
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Band5_15MHz_CP_OFDM_SCS15kHz_OPSK_RB79_0_CH166300



Band5_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_105_CH167800



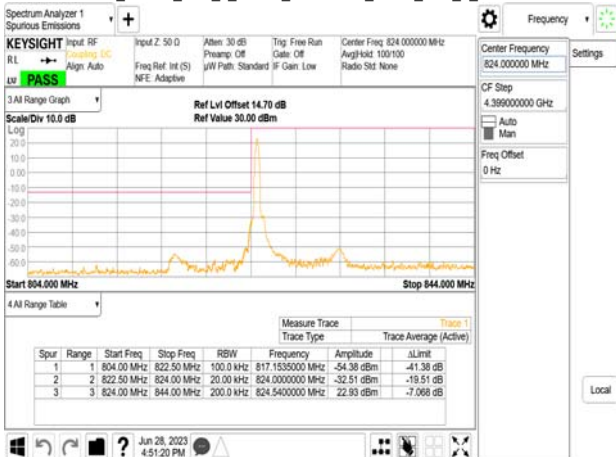
Band5_15MHz_CP_OFDM_SCS15kHz_OPSK_RB79_0_CH168300



Band5_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB100_0_CH166800



Band5_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_0_CH166800



Band5_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB100_0_CH167800



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