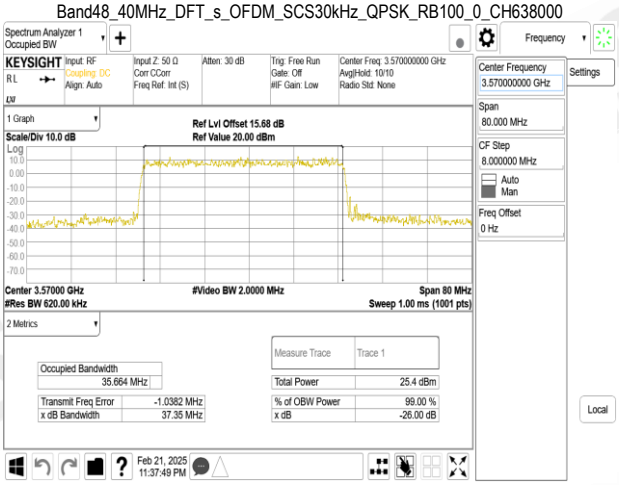
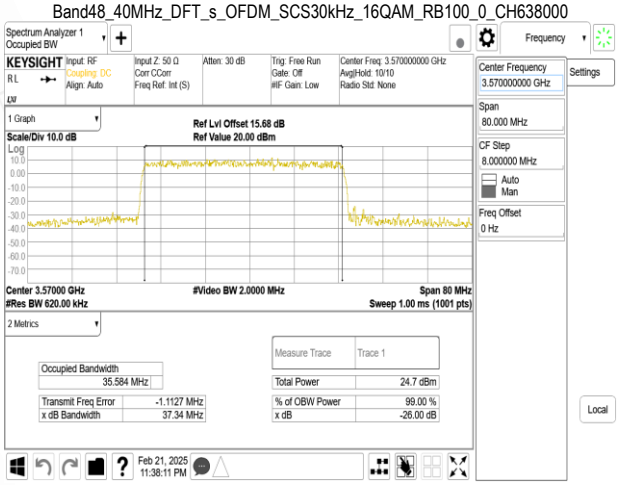
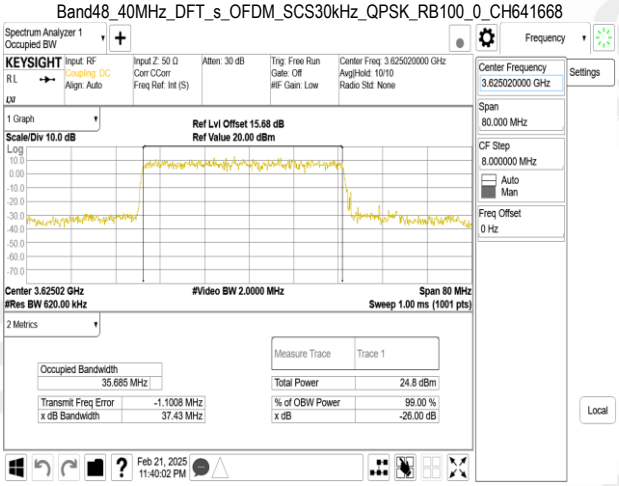
Band48_40MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB100_0_CH638000



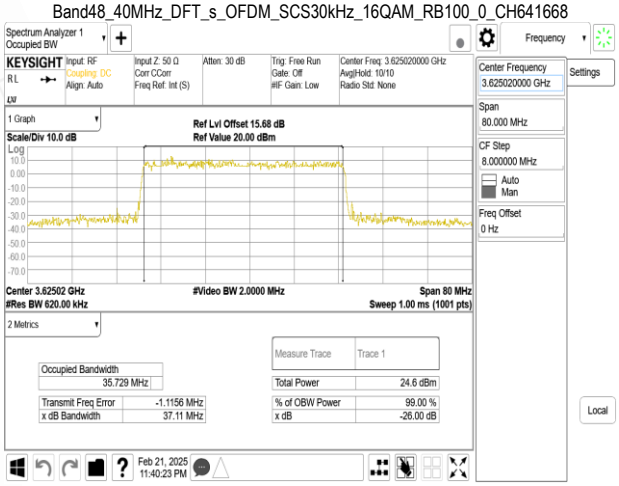
Band48_40MHz_DFT_s_OFDM_SCS30kHz_16QAM_RB100_0_CH638000



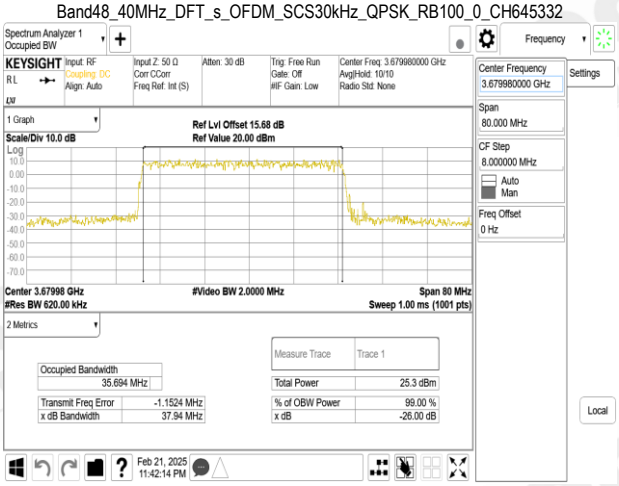
Band48_40MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB100_0_CH641668



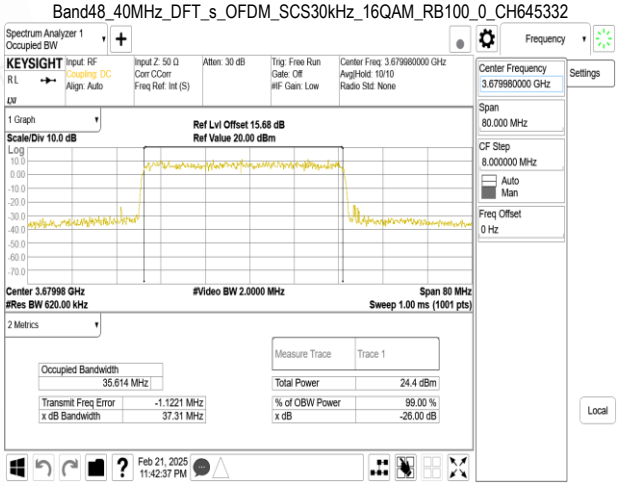
Band48_40MHz_DFT_s_OFDM_SCS30kHz_16QAM_RB100_0_CH641668



Band48_40MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB100_0_CH645332



Band48_40MHz_DFT_s_OFDM_SCS30kHz_16QAM_RB100_0_CH645332



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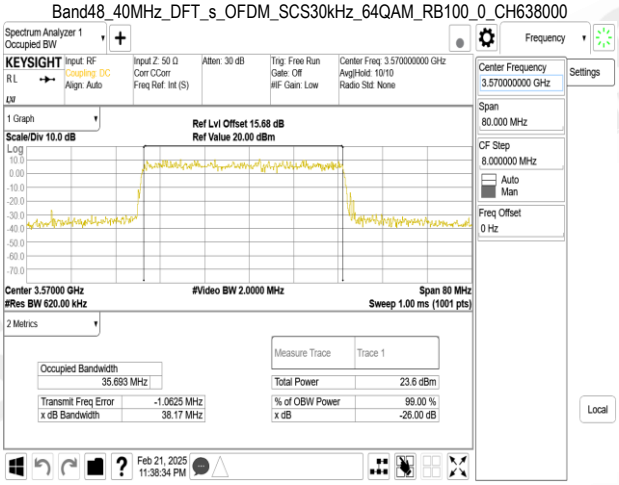
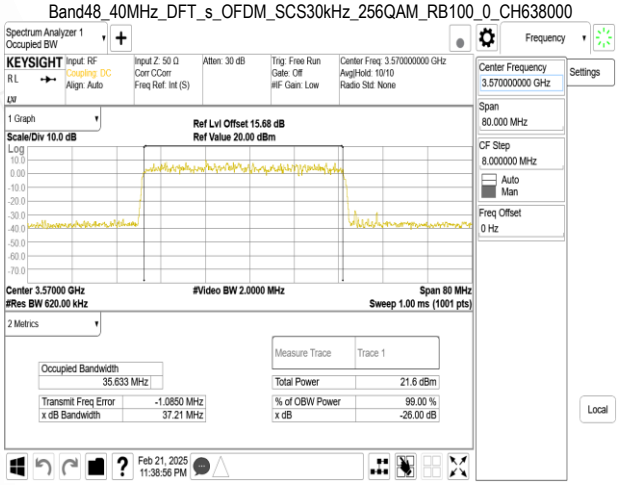
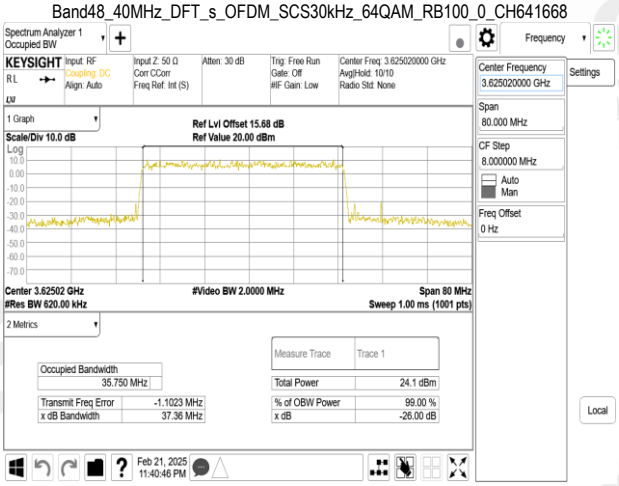
Band48_40MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB100_0_CH638000



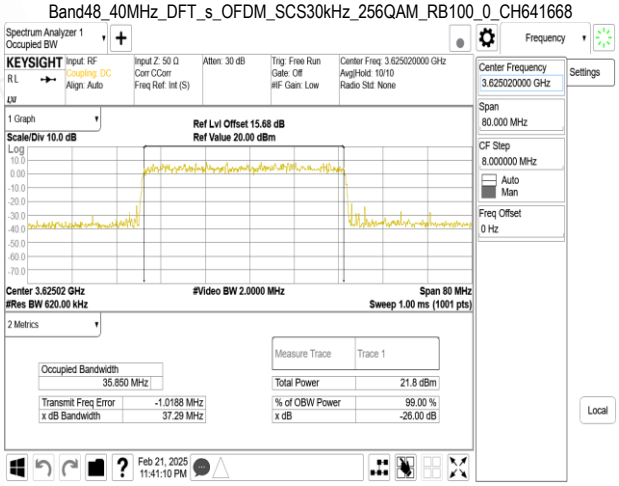
Band48_40MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB100_0_CH638000



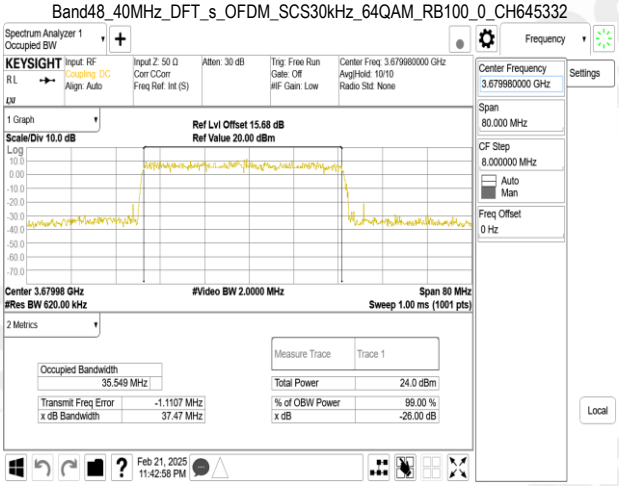
Band48_40MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB100_0_CH641668



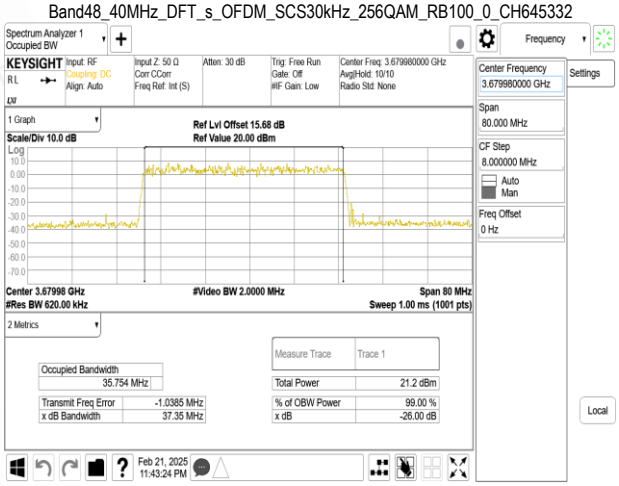
Band48_40MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB100_0_CH641668



Band48_40MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB100_0_CH645332



Band48_40MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB100_0_CH645332



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10 OUT OF BAND EMISSION AT ANTENNA TERMINALS

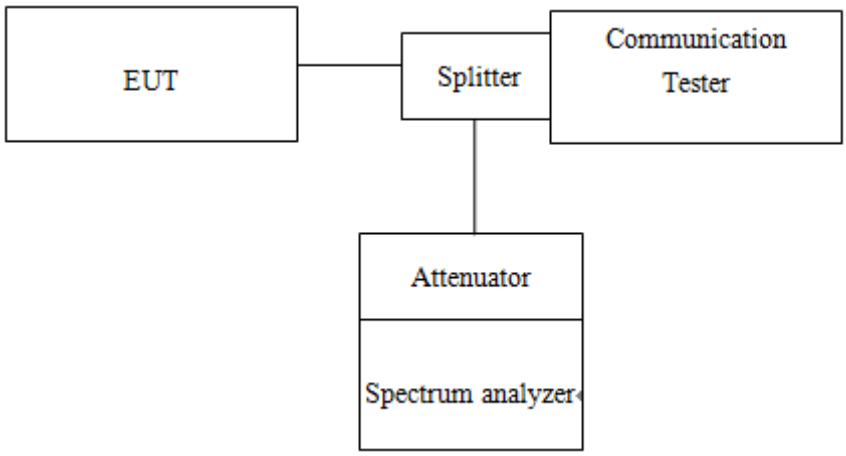
10.1 Standard Applicable

FCC Part 2.1051, Part 96.41 , C63.26 Clause 5.7.

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

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

10.2 Test SET-UP



10.3 Measurement Procedure

10.3.1 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.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

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10.3.2 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 ≥ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

10.4 Test Results:

Refer to next page for test plots.

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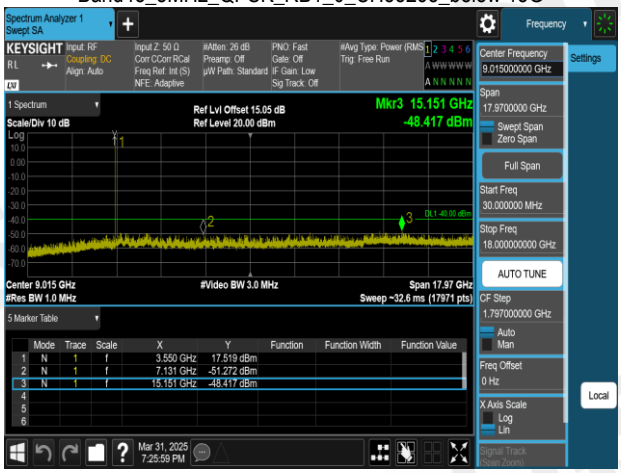
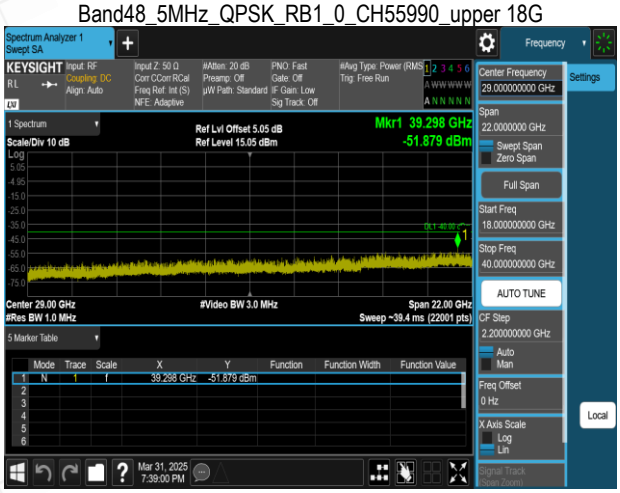
10.4.1 Unwanted Emission

Mode: LTE

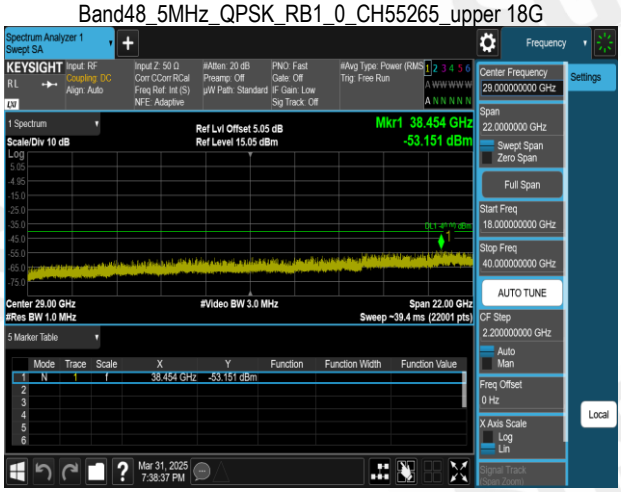
Band48_5MHz_QPSK_RB1_0_CH55265_below 18G



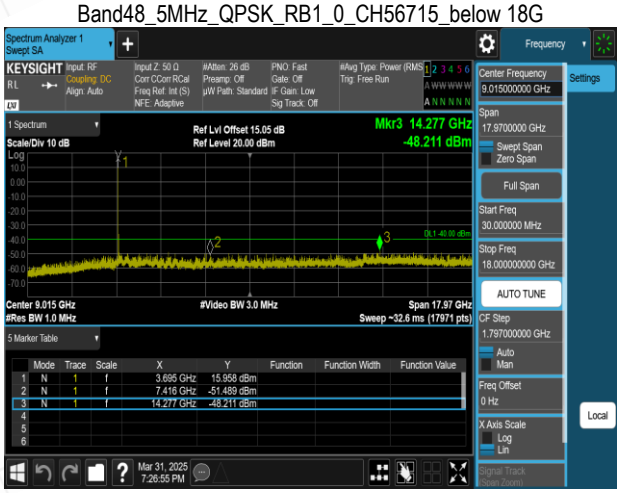
Band48_5MHz_QPSK_RB1_0_CH55990_upper 18G



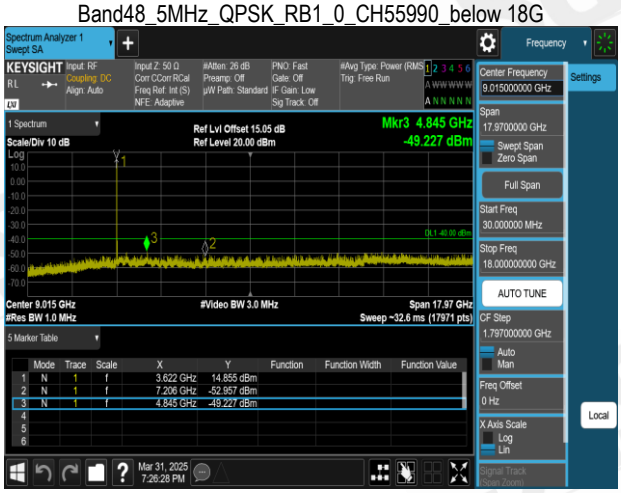
Band48_5MHz_QPSK_RB1_0_CH55265_upper 18G



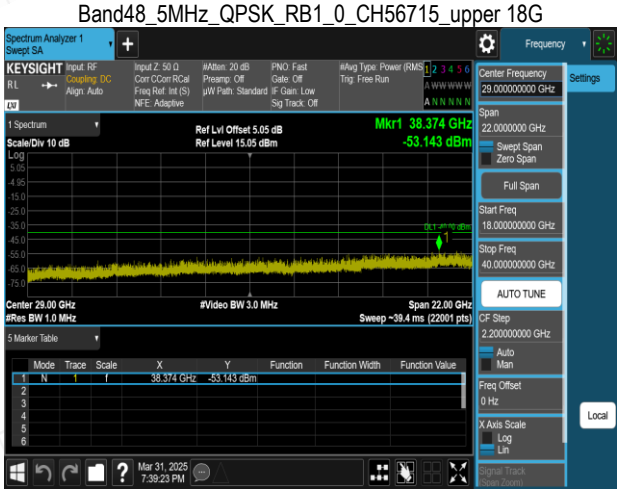
Band48_5MHz_QPSK_RB1_0_CH56715_below 18G



Band48_5MHz_QPSK_RB1_0_CH55990_below 18G



Band48_5MHz_QPSK_RB1_0_CH56715_upper 18G



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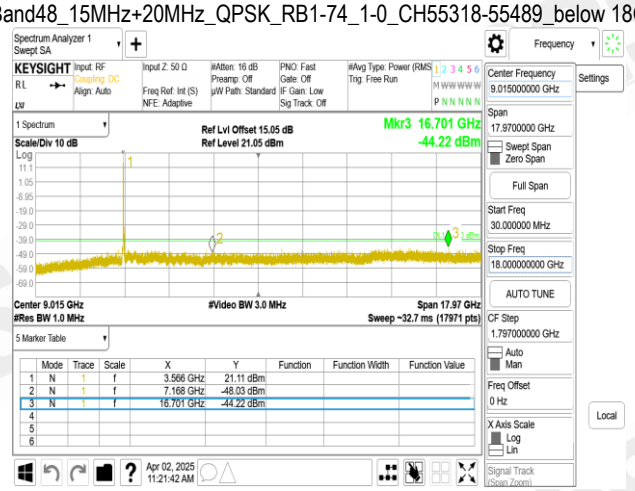
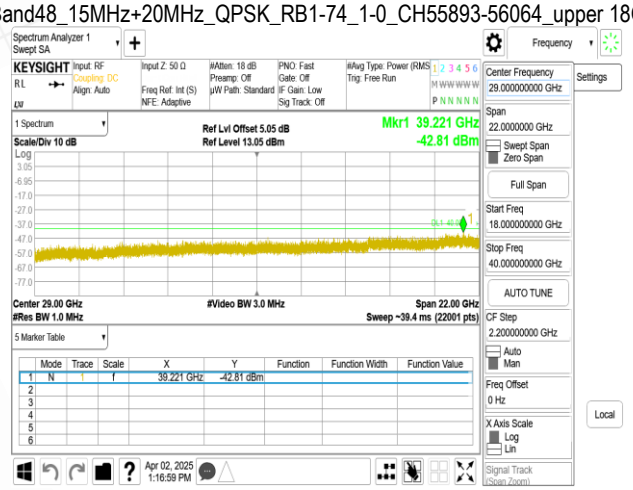
Mode: ULCA

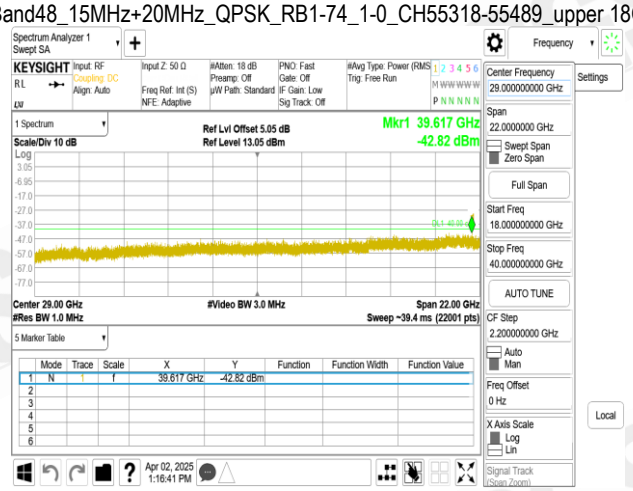
Band48_15MHz+20MHz_QPSK_RB1-74_1-0_CH55318-55489_below 18G



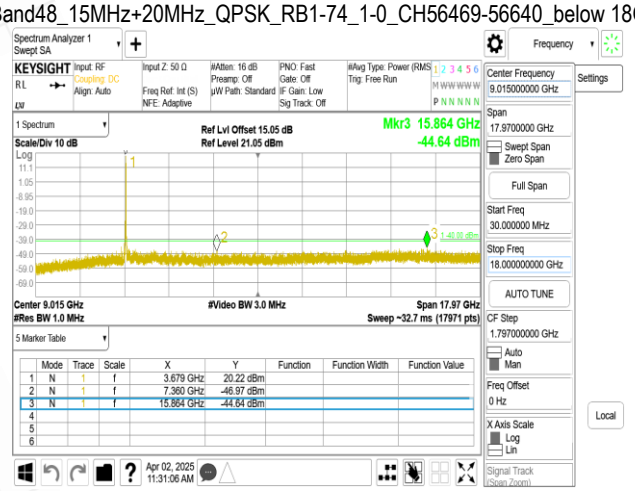
Band48_15MHz+20MHz_QPSK_RB1-74_1-0_CH55893-56064_upper 18G



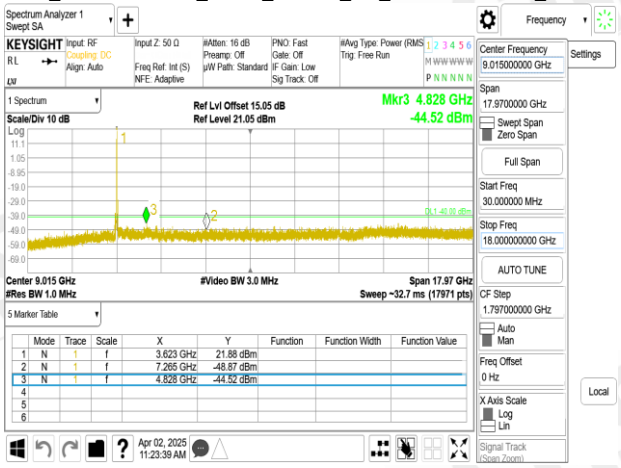
Band48_15MHz+20MHz_QPSK_RB1-74_1-0_CH55318-55489_upper 18G



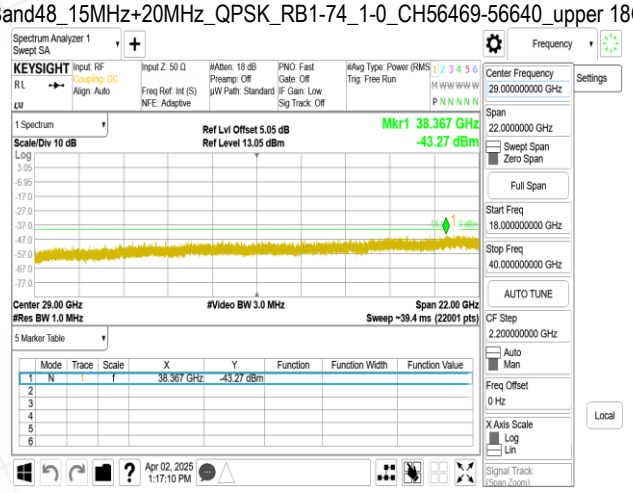
Band48_15MHz+20MHz_QPSK_RB1-74_1-0_CH56469-56640_below 18G



Band48_15MHz+20MHz_QPSK_RB1-74_1-0_CH55893-56064_below 18G



Band48_15MHz+20MHz_QPSK_RB1-74_1-0_CH56469-56640_upper 18G



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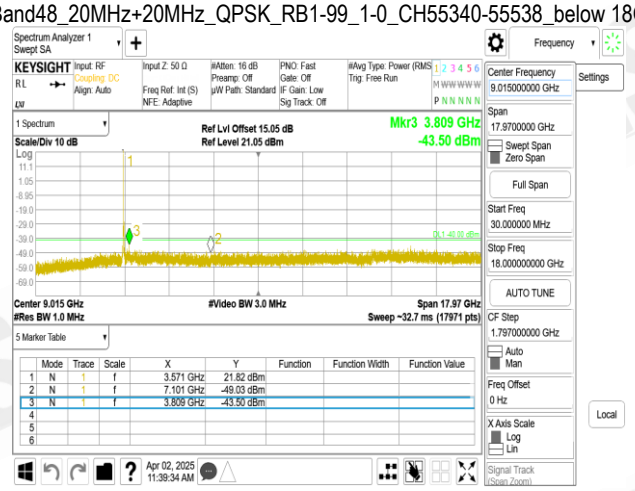
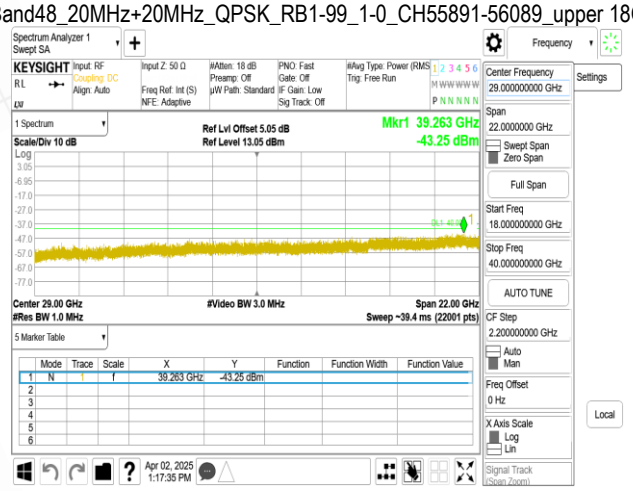
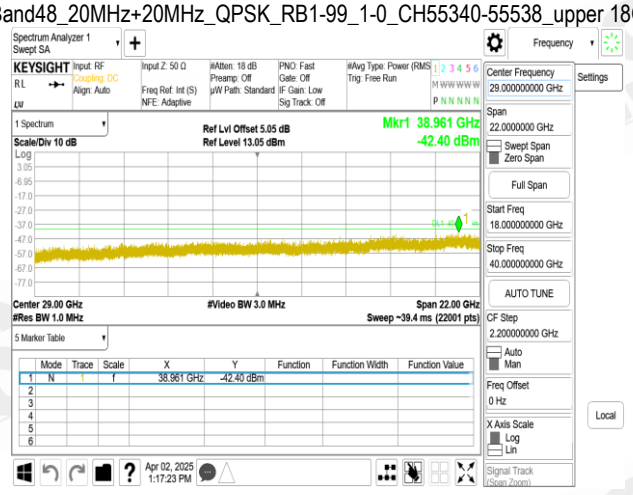
Band48_20MHz+20MHz_QPSK_RB1-99_1-0_CH55340-55538_below 18G



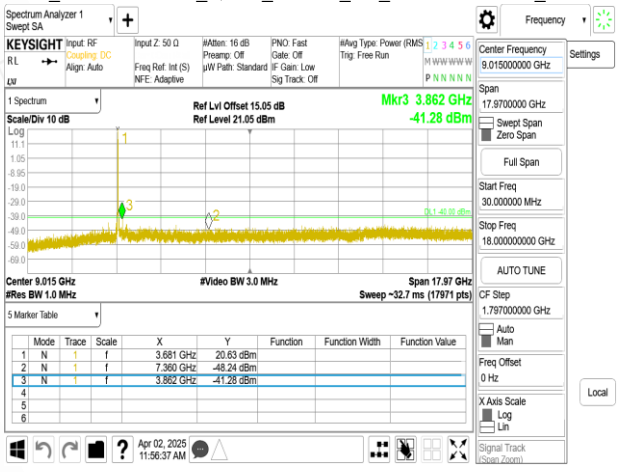
Band48_20MHz+20MHz_QPSK_RB1-99_1-0_CH55891-56089_upper 18G



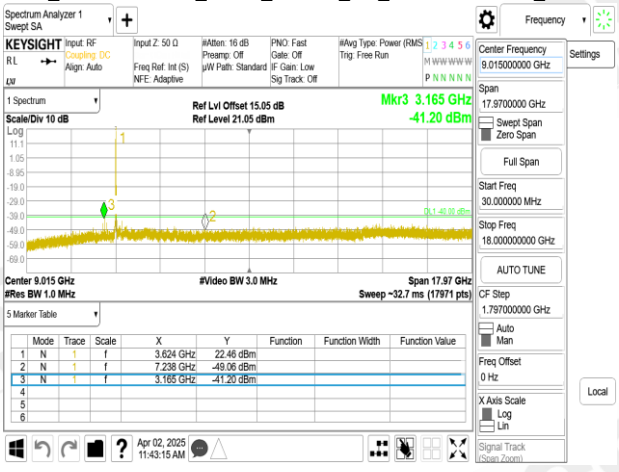
Band48_20MHz+20MHz_QPSK_RB1-99_1-0_CH55340-55538_upper 18G



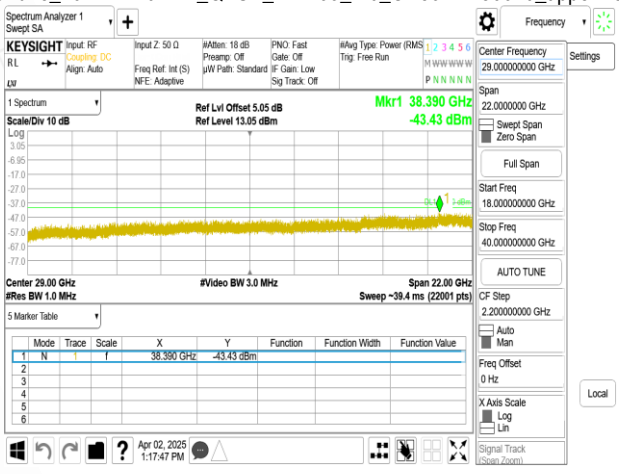
Band48_20MHz+20MHz_QPSK_RB1-99_1-0_CH56442-56640_below 18G



Band48_20MHz+20MHz_QPSK_RB1-99_1-0_CH55891-56089_below 18G



Band48_20MHz+20MHz_QPSK_RB1-99_1-0_CH56442-56640_upper 18G



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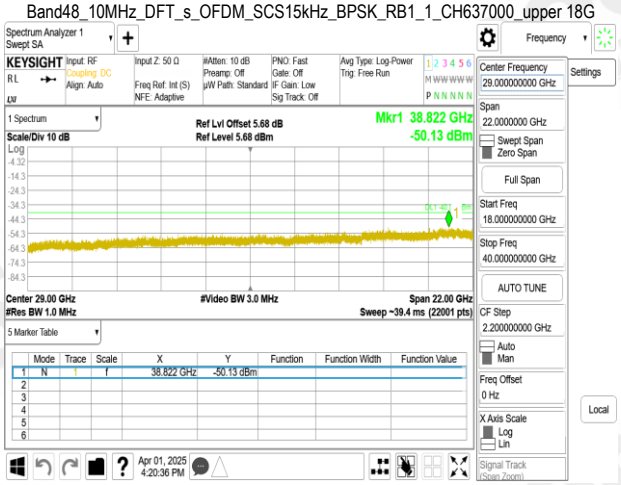
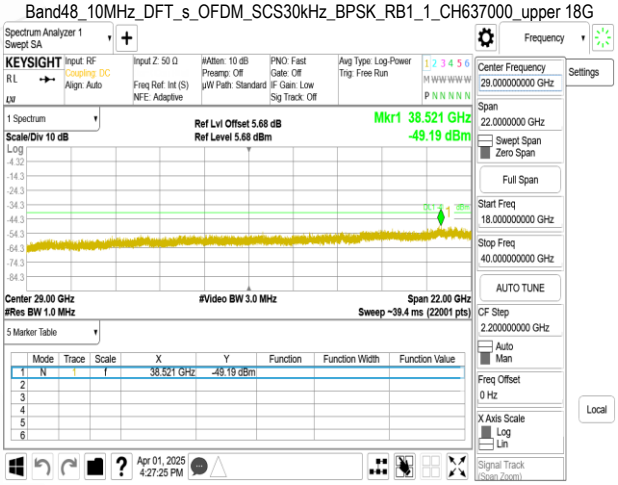
Mode: NR

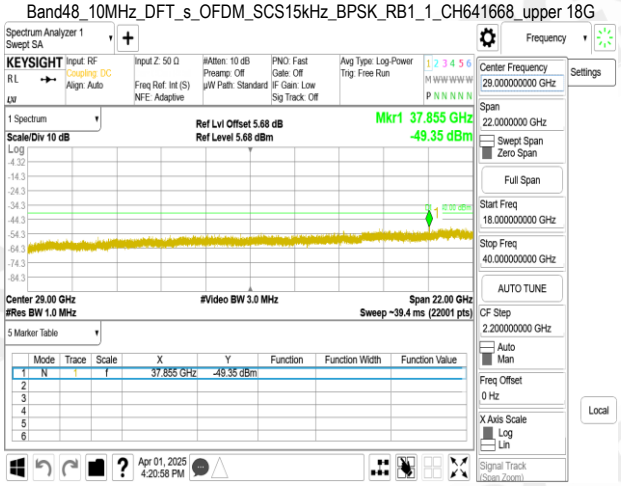
Band48_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH637000_upper 18G



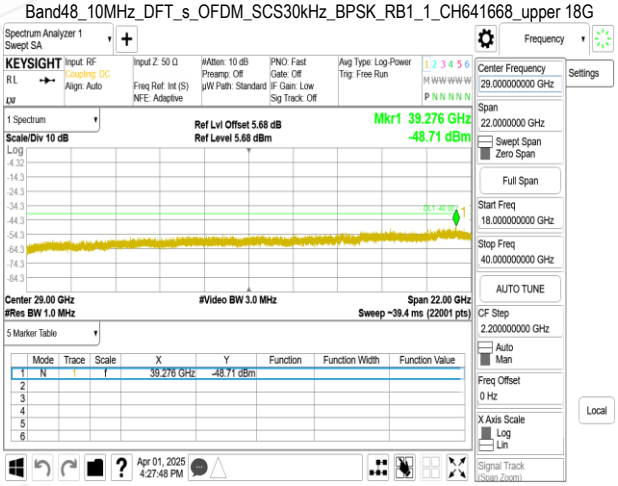
Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637000_upper 18G



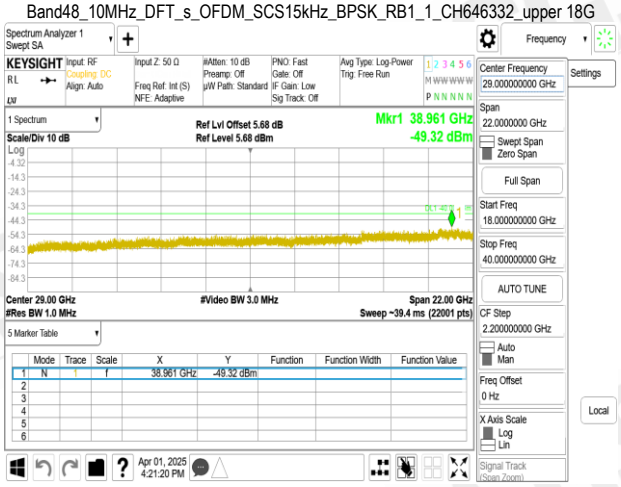
Band48_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH641668_upper 18G



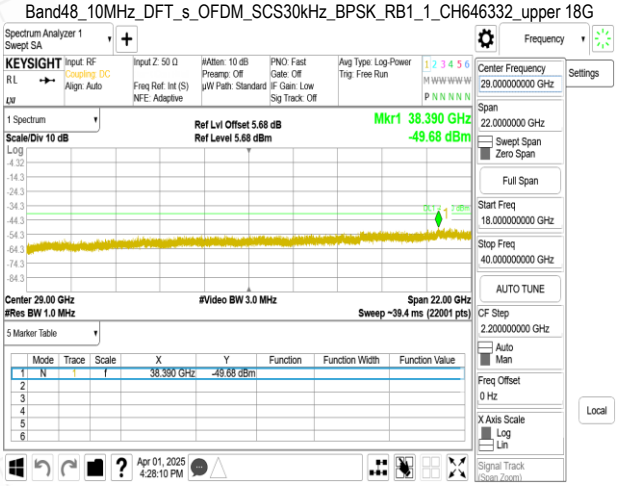
Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668_upper 18G



Band48_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH646332_upper 18G



Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646332_upper 18G



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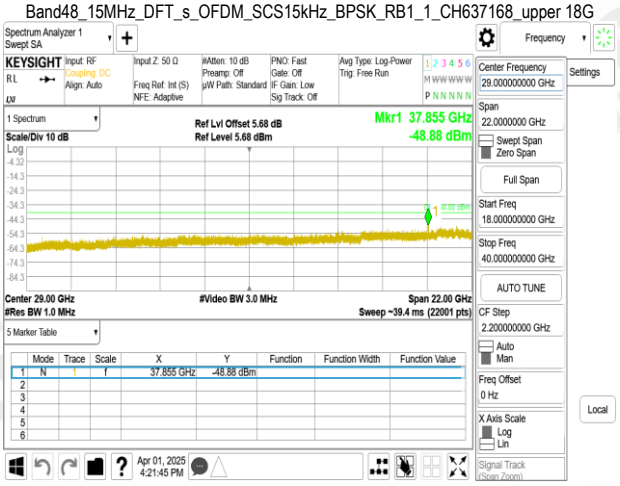
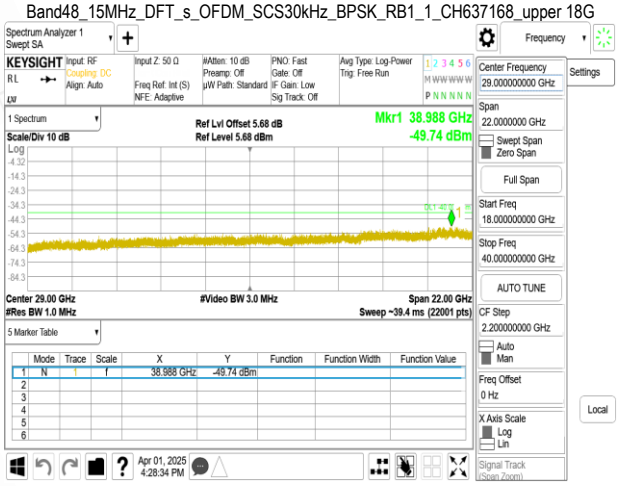
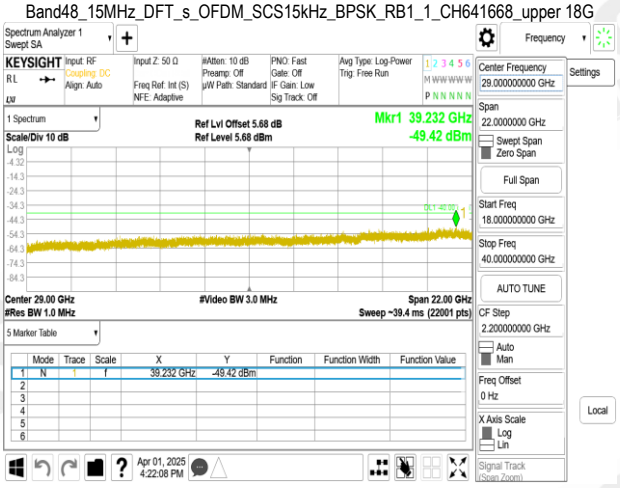
Band48_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH637168_upper 18G



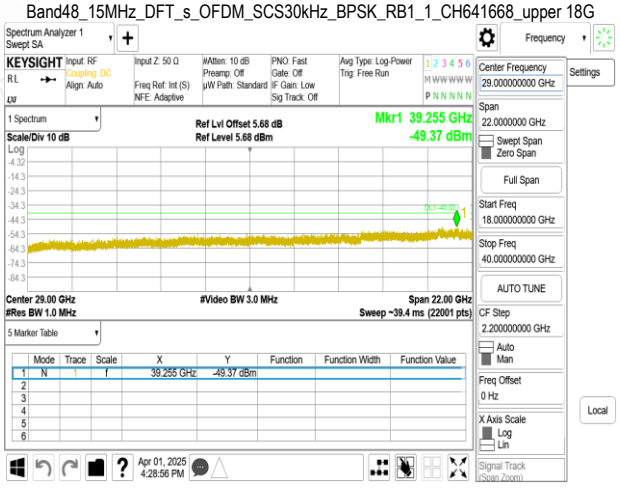
Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637168_upper 18G



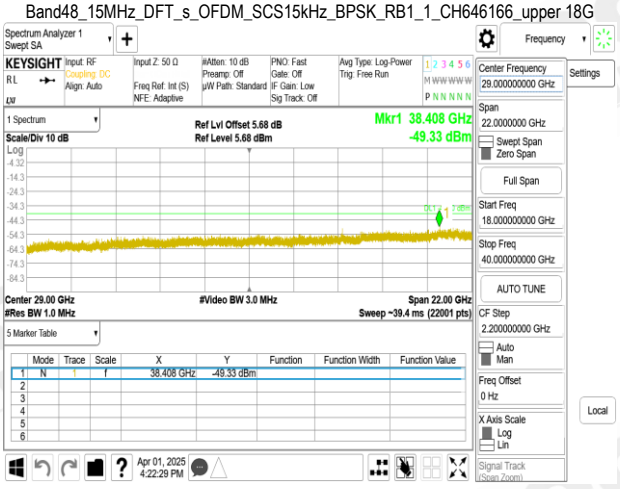
Band48_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH641668_upper 18G



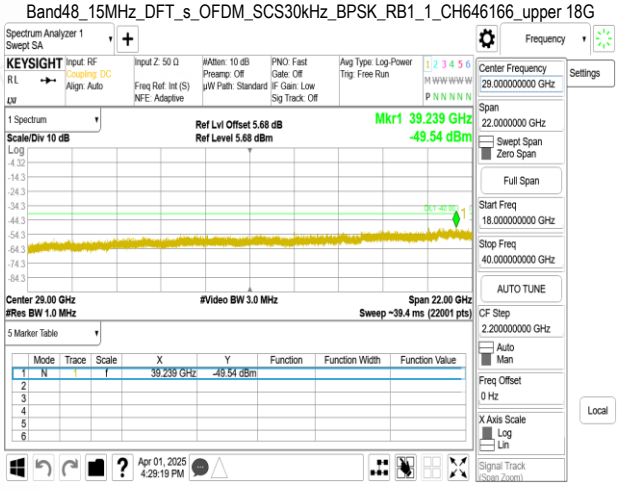
Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668_upper 18G



Band48_15MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH646166_upper 18G



Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646166_upper 18G



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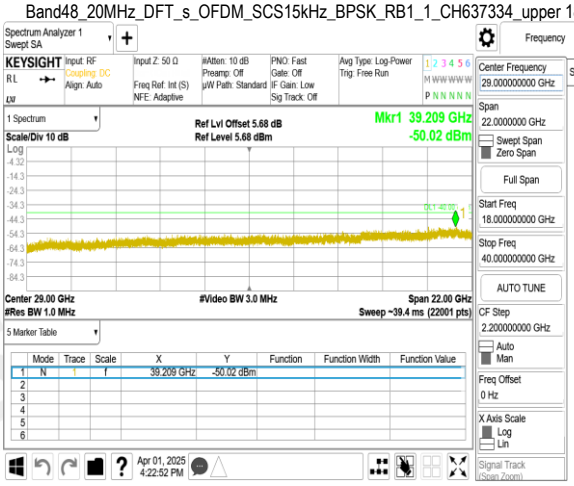
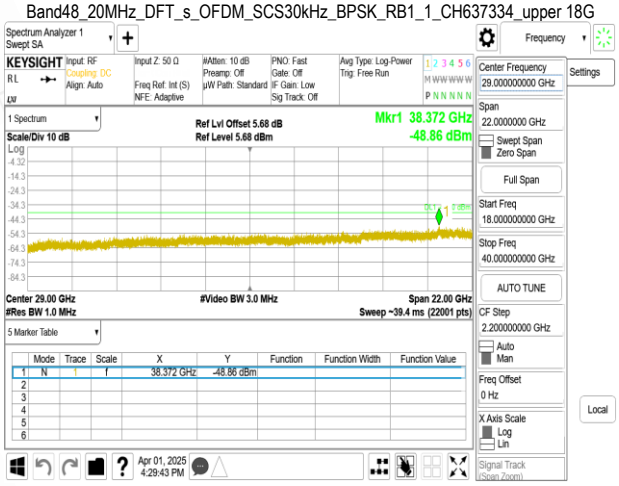
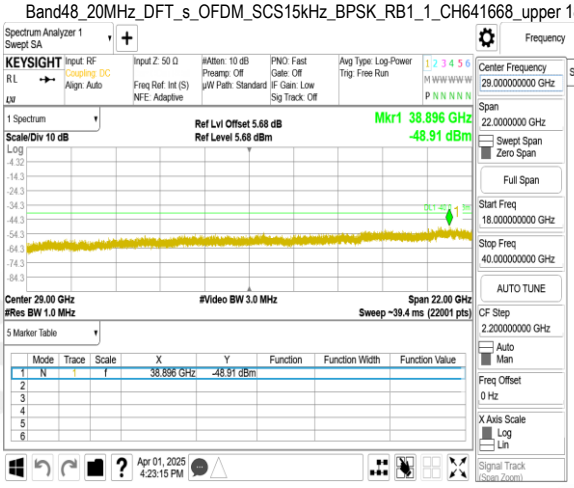
Band48_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH637334_upper 18G



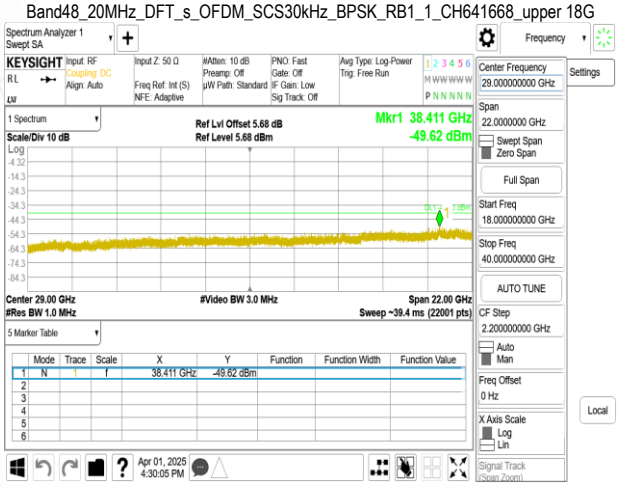
Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637334_upper 18G



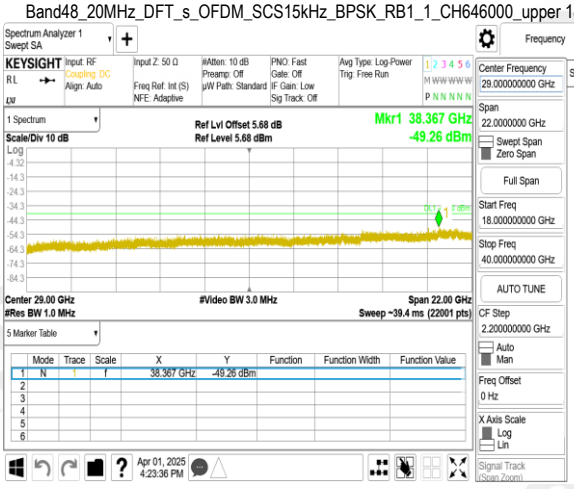
Band48_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH641668_upper 18G



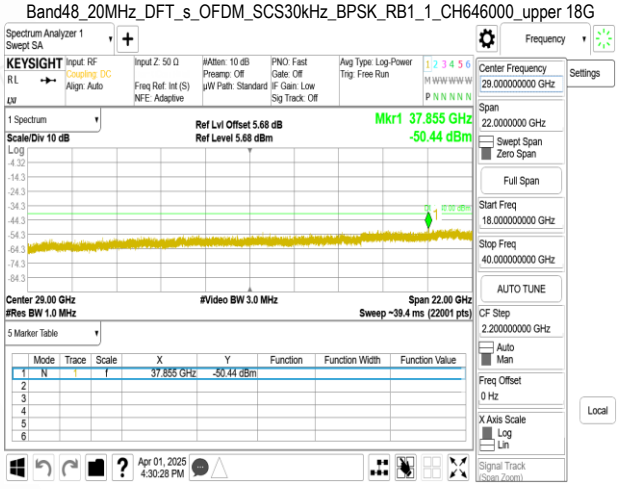
Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668_upper 18G



Band48_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH646000_upper 18G



Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646000_upper 18G



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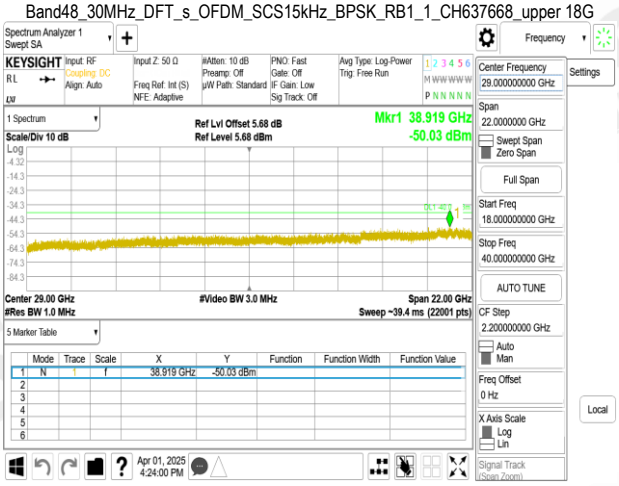
Band48_30MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH637668_upper 18G



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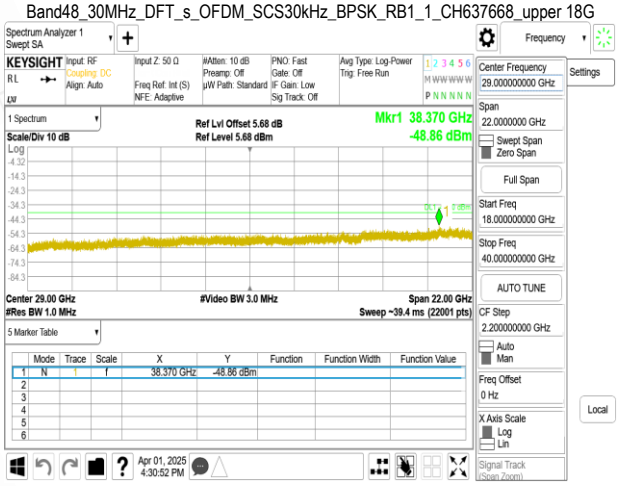
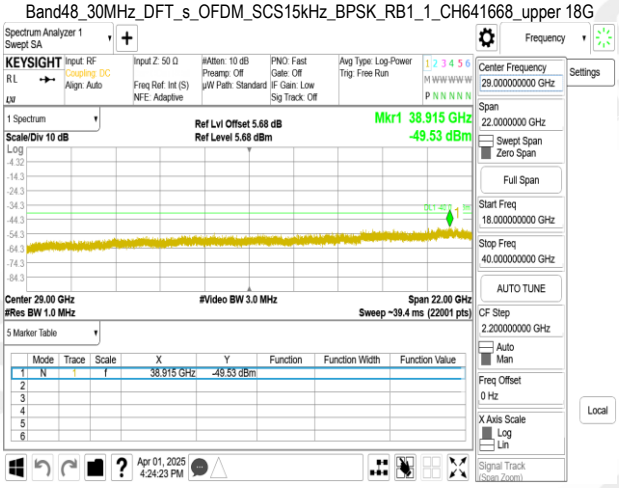


Band48_30MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH641668_upper 18G



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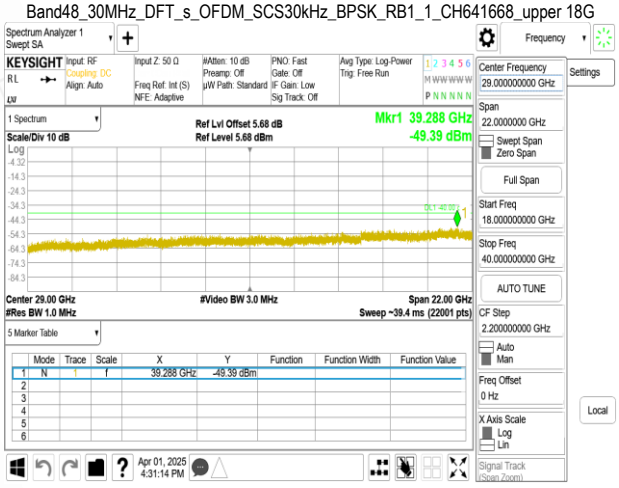
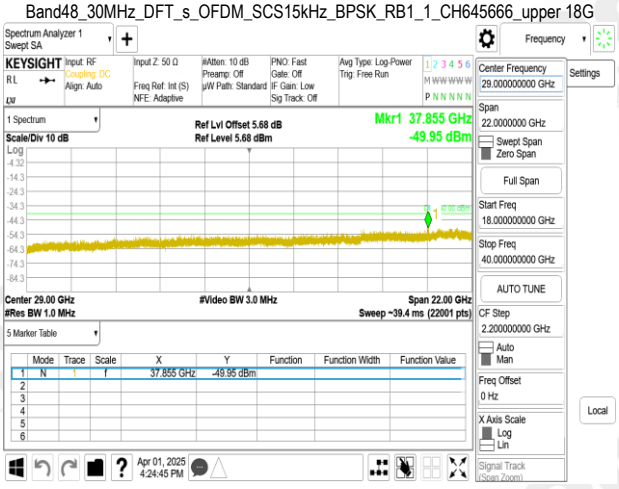


Band48_30MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH645666_upper 18G



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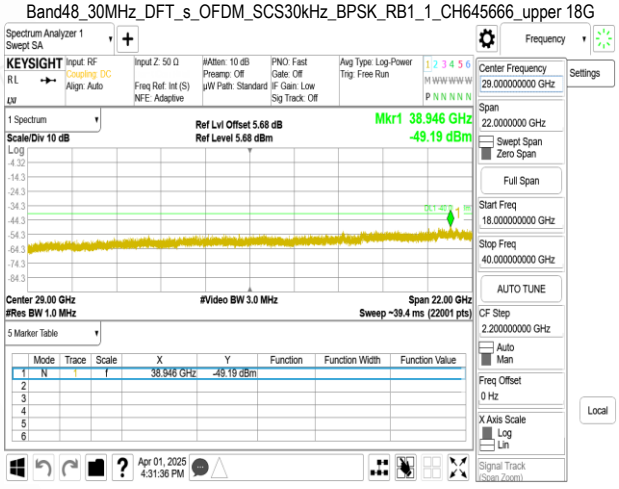

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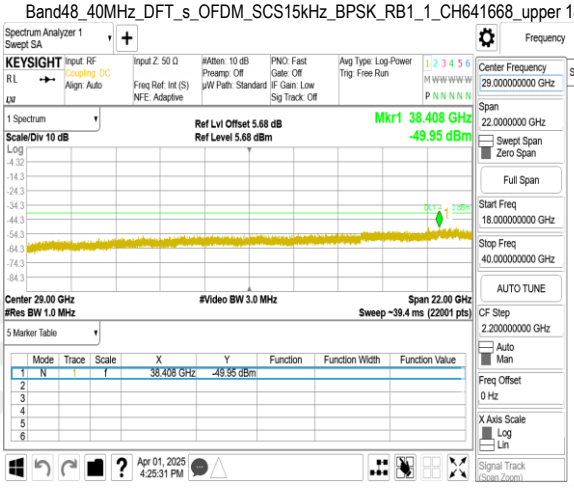
Band48_40MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH638000_upper 18G

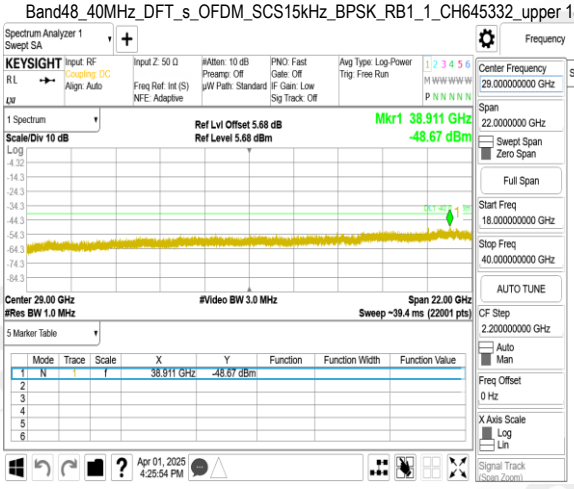
Band48_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH638000_upper 18G

Band48_40MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH641668_upper 18G

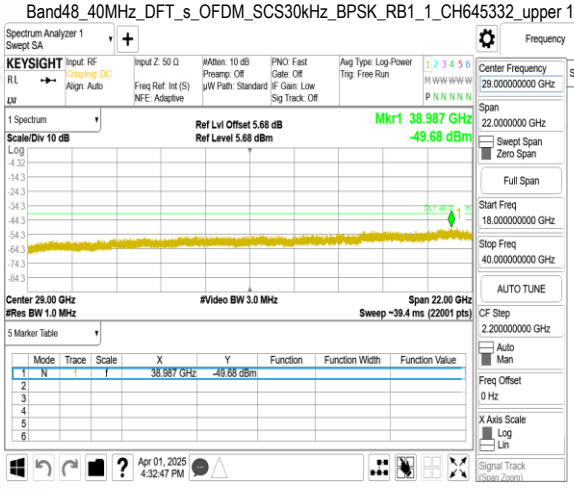


Band48_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668_upper 18G

Band48_40MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH645332_upper 18G



Band48_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH645332_upper 18G



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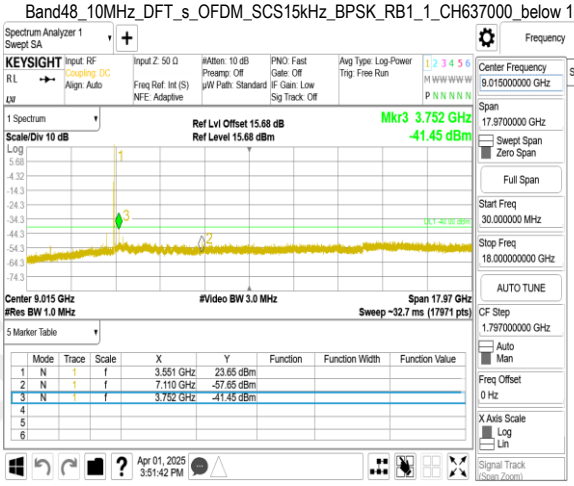
Band48_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH637000_below 18G



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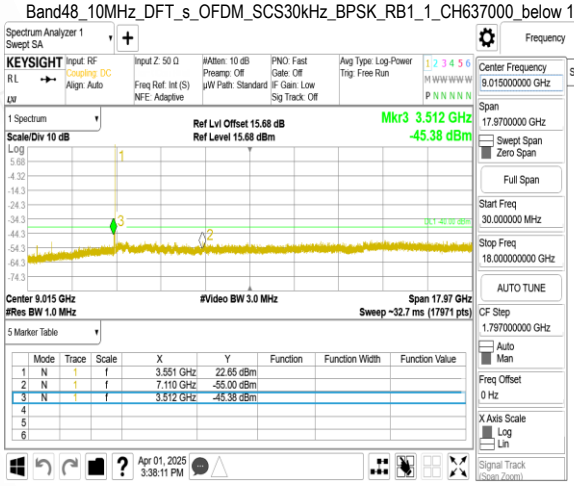

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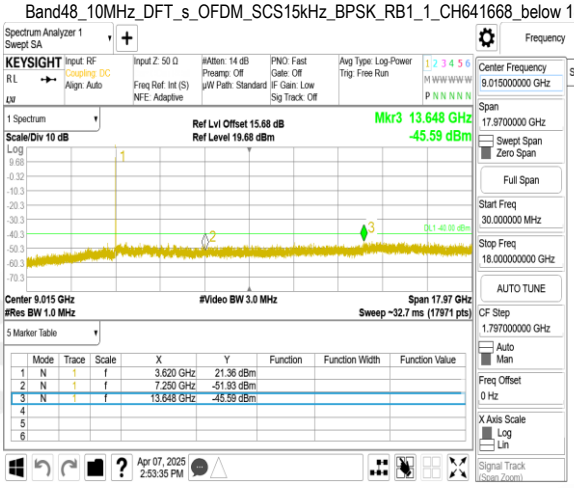
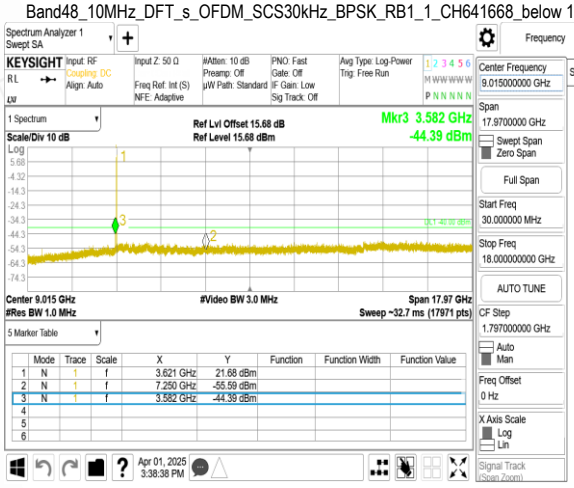
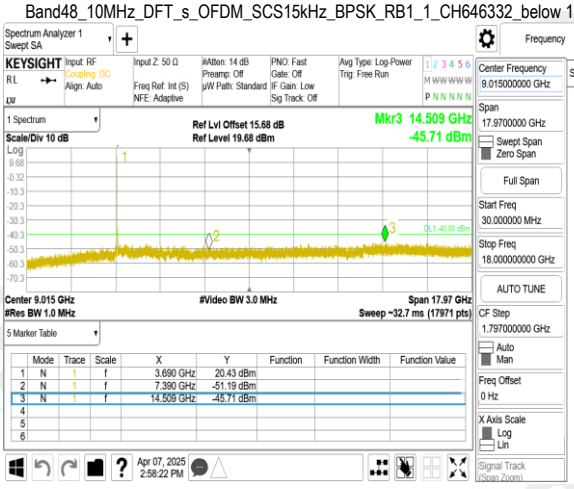


Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668_below 18G



Band48_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH646332_below 18G



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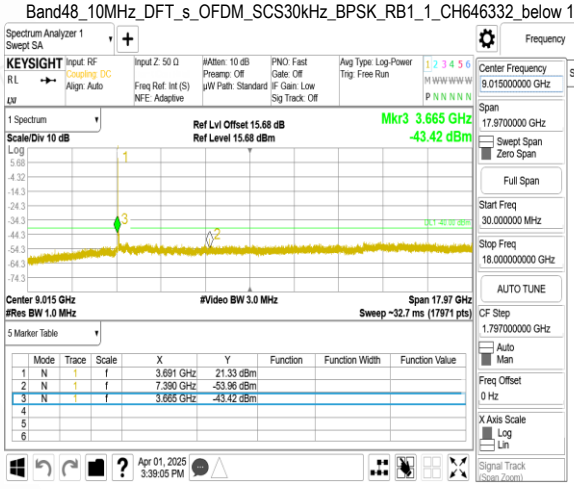

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