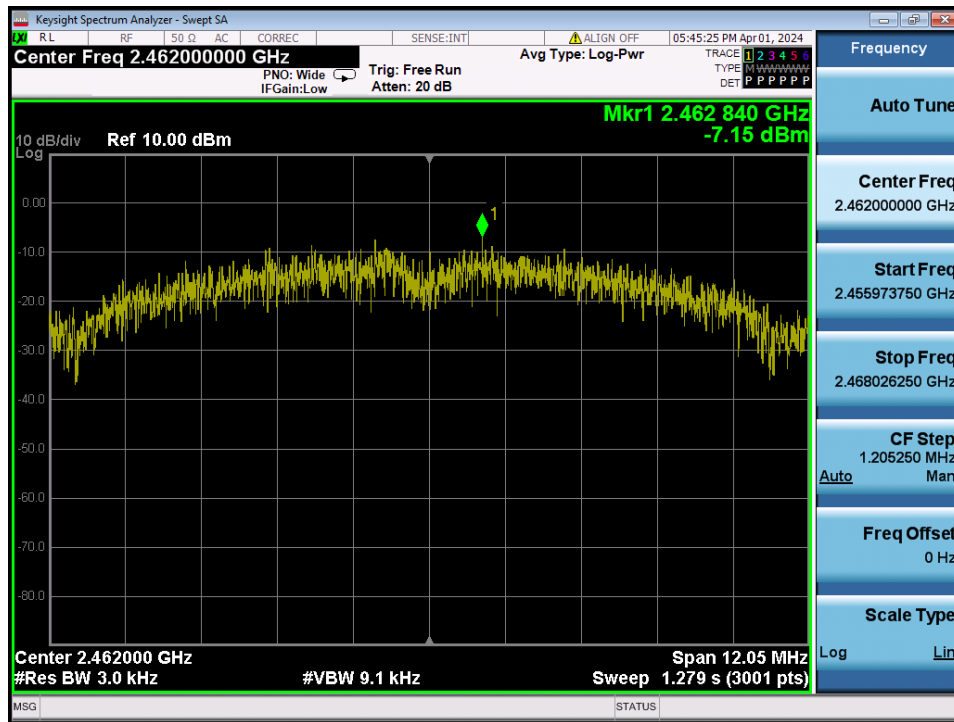


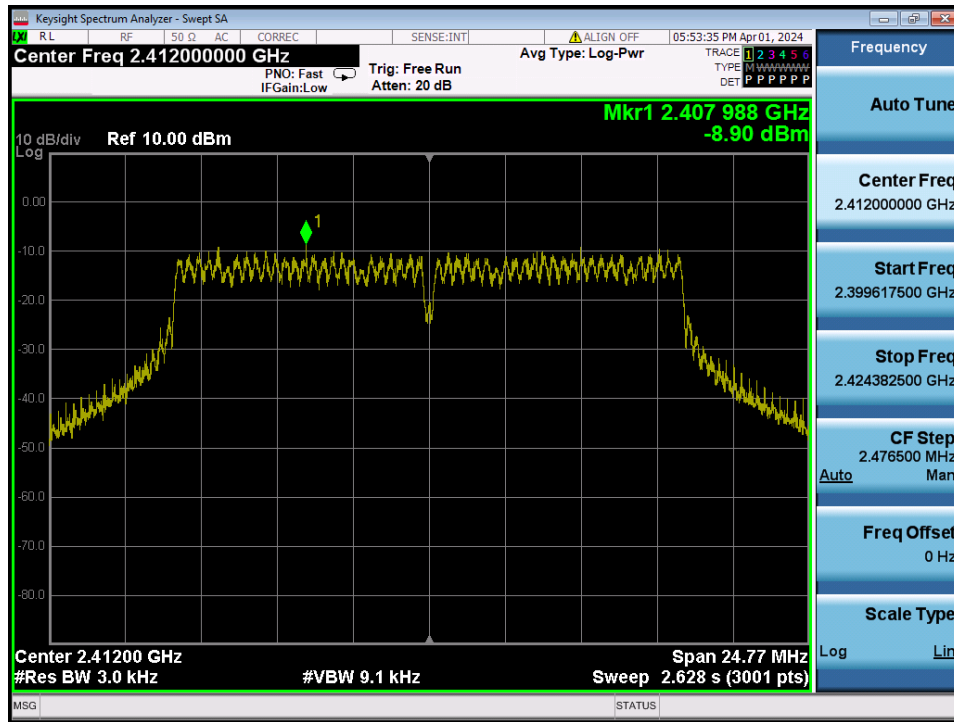
Power Spectral Density

TM 1 & ANT 2 & 2 462



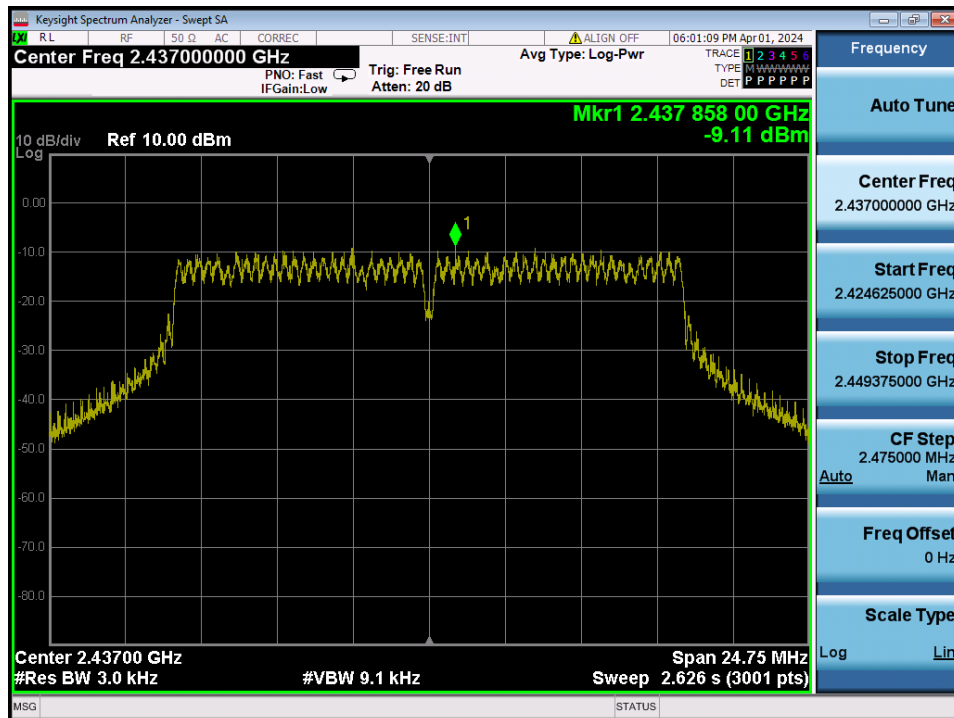
Power Spectral Density

TM 2 & ANT 2 & 2 412



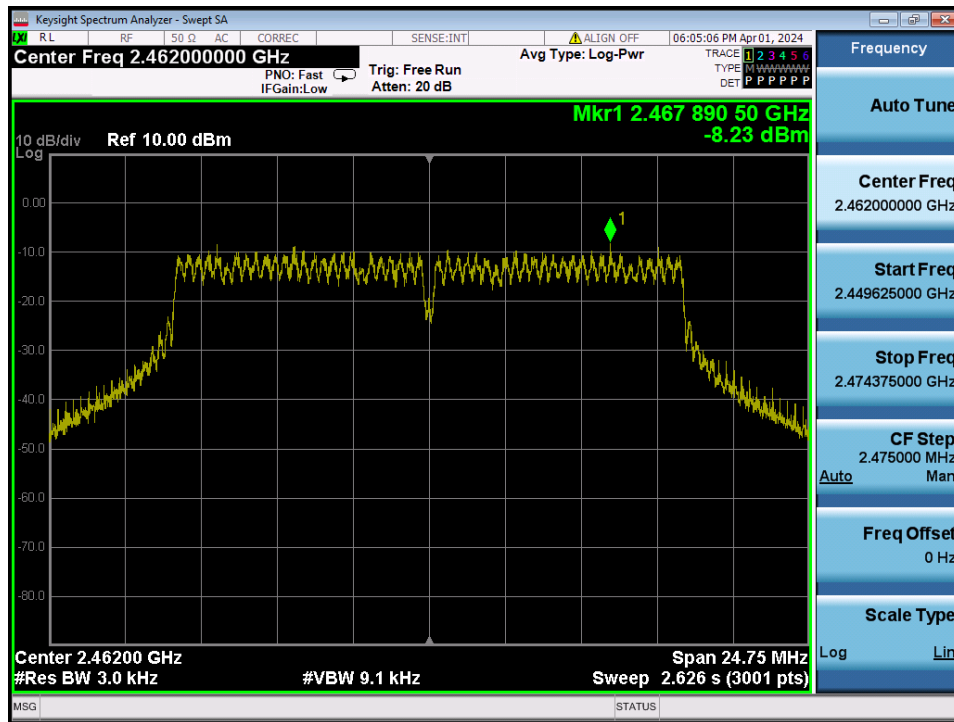
Power Spectral Density

TM 2 & ANT 2 & 2 437



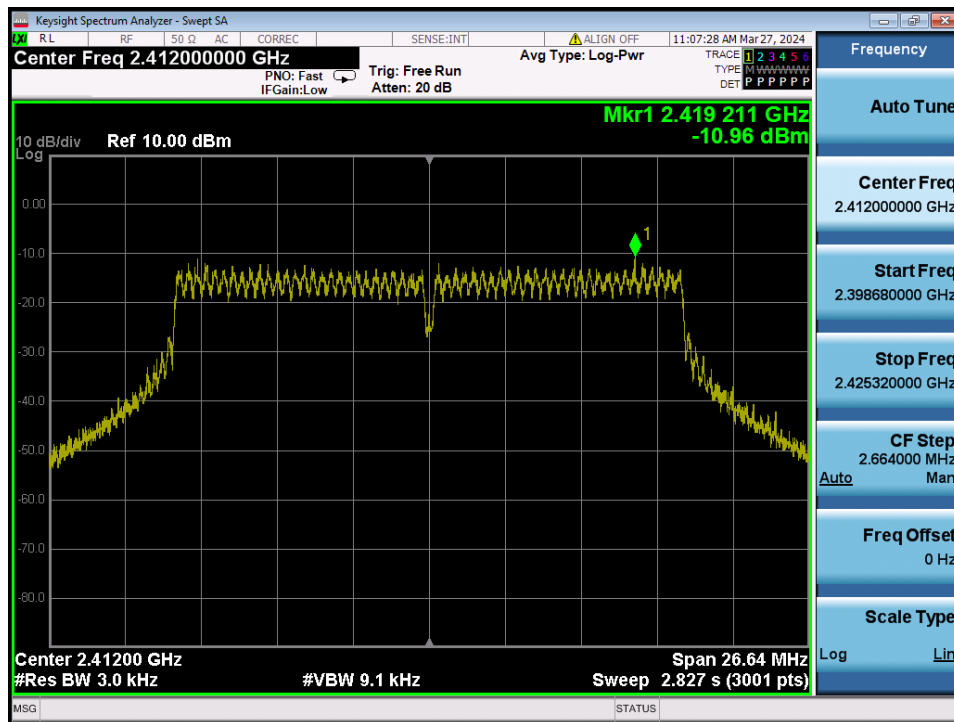
Power Spectral Density

TM 2 & ANT 2 & 2 462



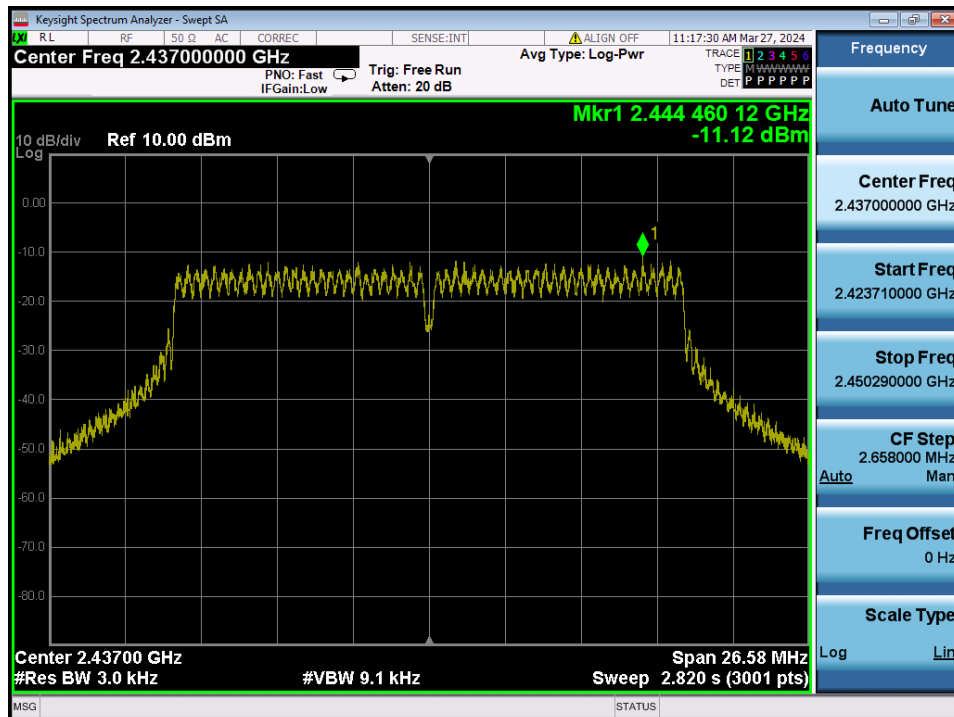
Power Spectral Density

TM 3 & ANT 2 & 2 412



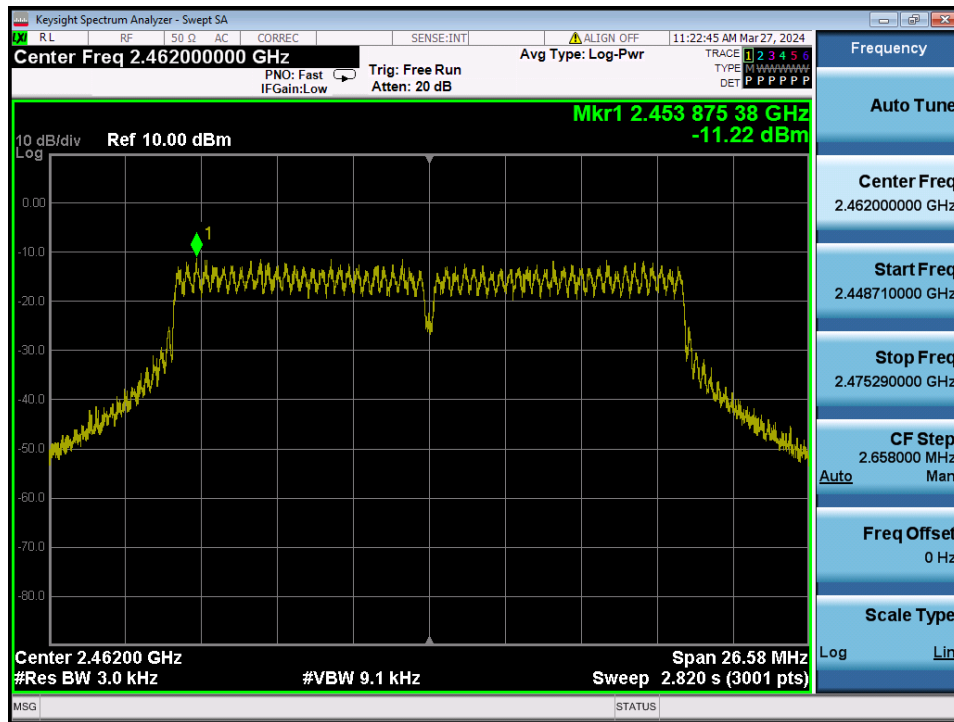
Power Spectral Density

TM 3 & ANT 2 & 2 437



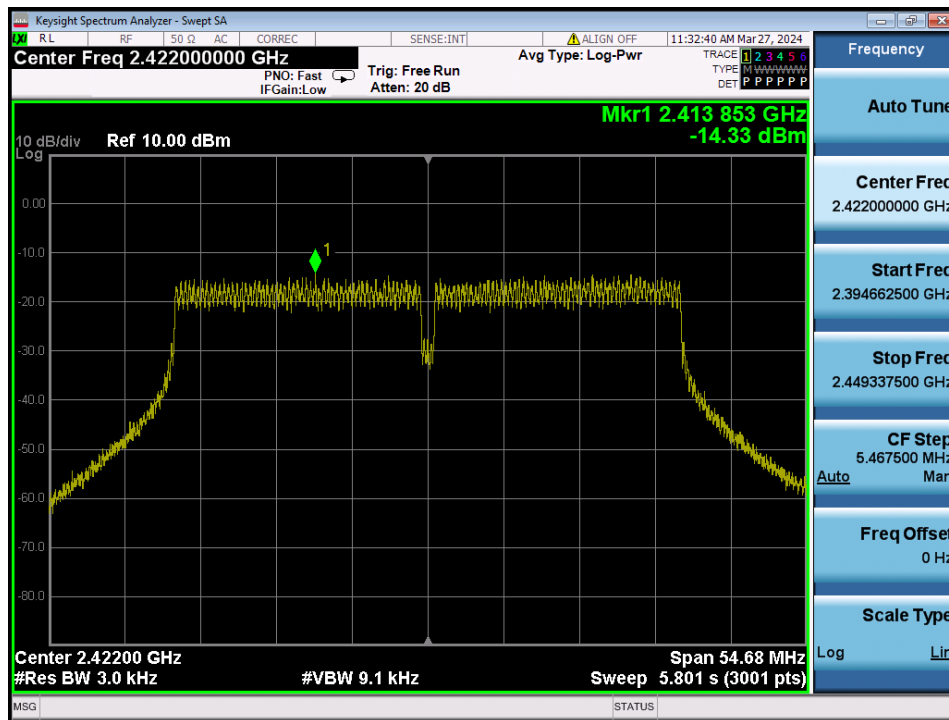
Power Spectral Density

TM 3 & ANT 2 & 2 462



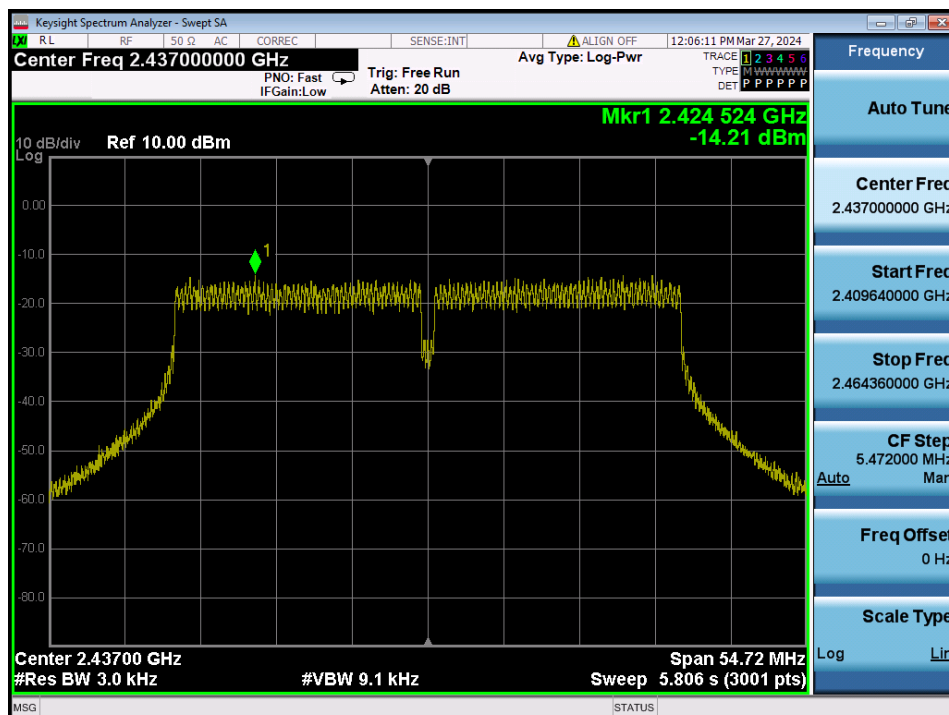
Power Spectral Density

TM 4 & ANT 2 & 2 422



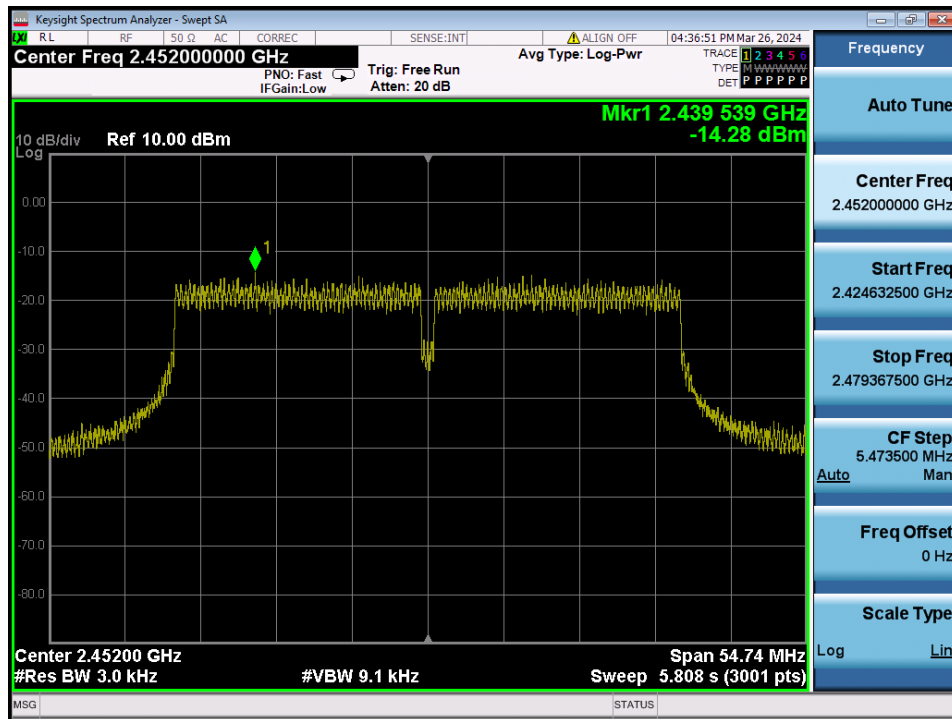
Power Spectral Density

TM 4 & ANT 2 & 2 437



Power Spectral Density

TM 4 & ANT 2 & 2 452



5.4. Unwanted Emissions (Conducted)

■ Test requirements and limit, Part 15.247(d)

In any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions :

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured inband average PSD level.

In either case, attenuation to levels below the general emission limits specified in §15.209(a) is not required.

5.4.1. Test Setup

Refer to the APPENDIX I including path loss

5.4.2. Test Procedures

- KDB558074 D01v05r02 - Section 8.5
- ANSI C63.10-2013 – Section 11.11

Reference level measurement

1. Set instrument center frequency to DTS channel center frequency.
 2. Set the span to ≥ 1.5 times the DTS bandwidth.
 3. Set the RBW = 100 kHz.
 4. Set the VBW $\geq 3 \times$ RBW.
 5. Detector = peak.
 6. Sweep time = auto couple.
 7. Trace mode = max hold.
 8. Allow trace to fully stabilize.
 9. Use the peak marker function to determine the maximum PSD level
- LIMIT LINE = 20 dB below of the reference level.**

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.(Actual 1 MHz , See below note)
3. Set the VBW $\geq 3 \times$ RBW.(Actual 3 MHz, See below note)
4. Detector = peak.
5. Ensure that the number of measurement points \geq span / RBW
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use the peak marker function to determine the maximum amplitude level.

Note: The unwanted emission(conducted) was tested with below settings.

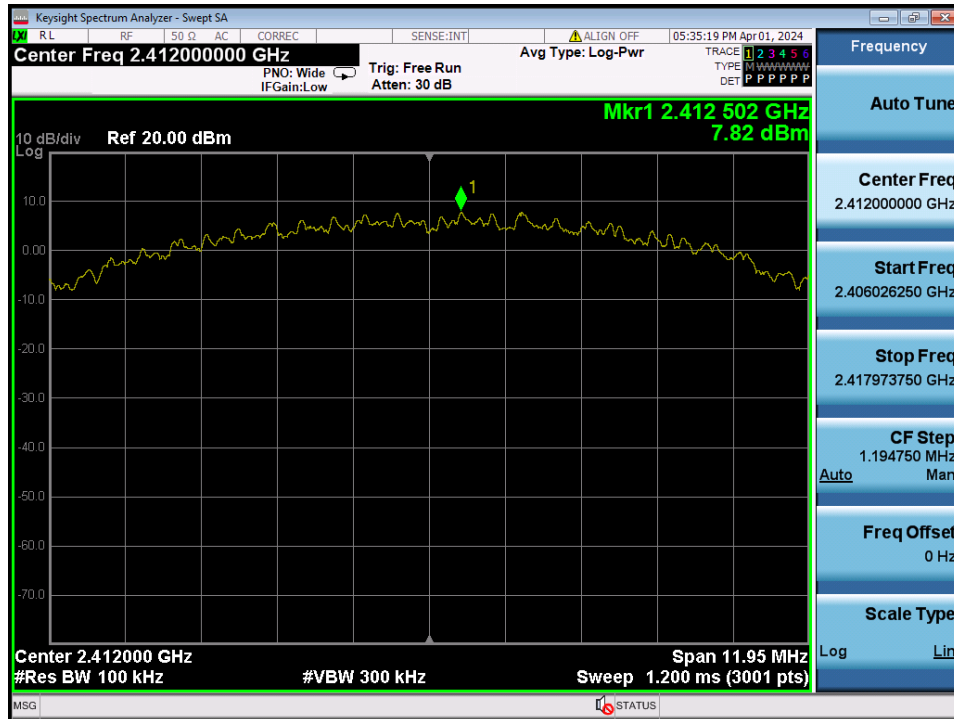
Frequency range	RBW	VBW	Detector	Trace	Sweep Point
9 kHz ~ 30 MHz	100 kHz	300 kHz	Peak	Max Hold	40 001
30 MHz ~ 10 GHz	1 MHz	3 MHz			
10 GHz ~ 25 GHz	1 MHz	3 MHz			

If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2 001 to get accurate emission level within 100 kHz BW.

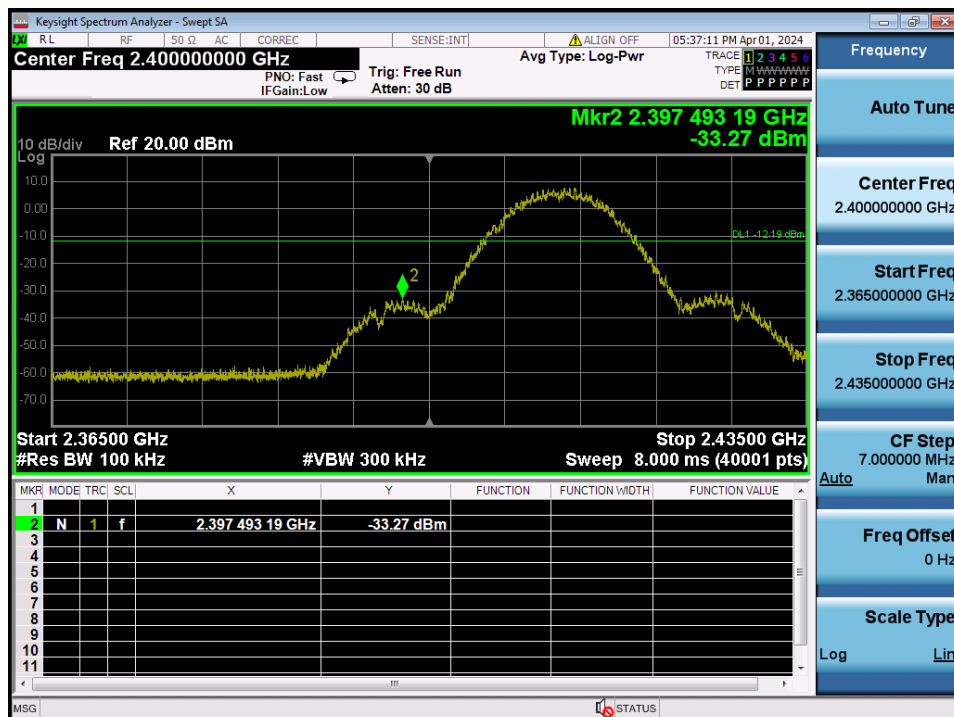
5.4.3. Test Results

TM 1 & ANT 1 & 2 412

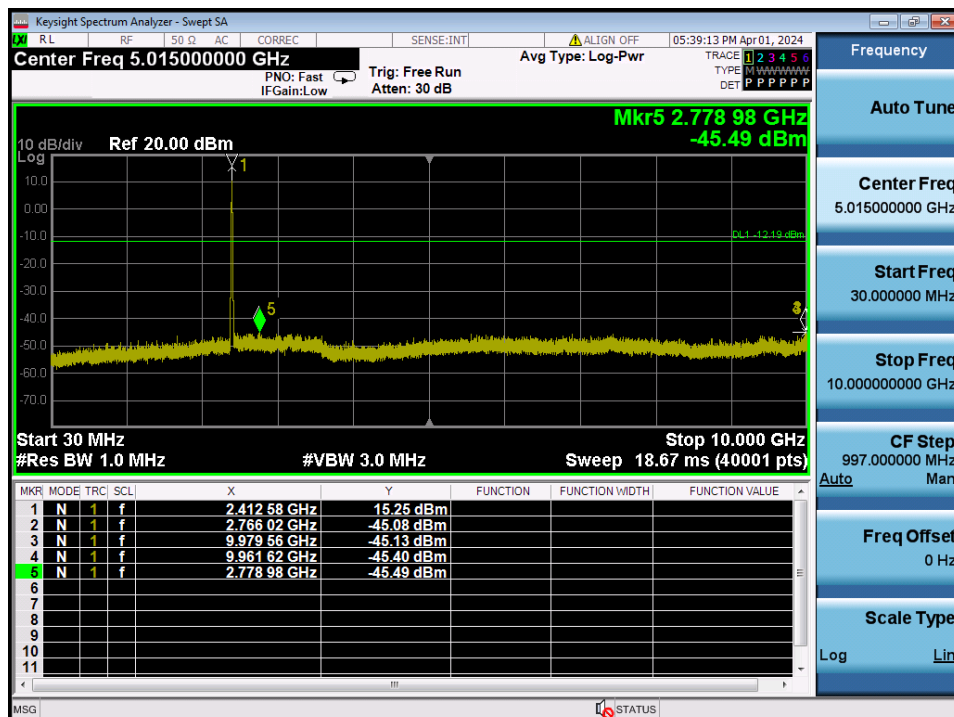
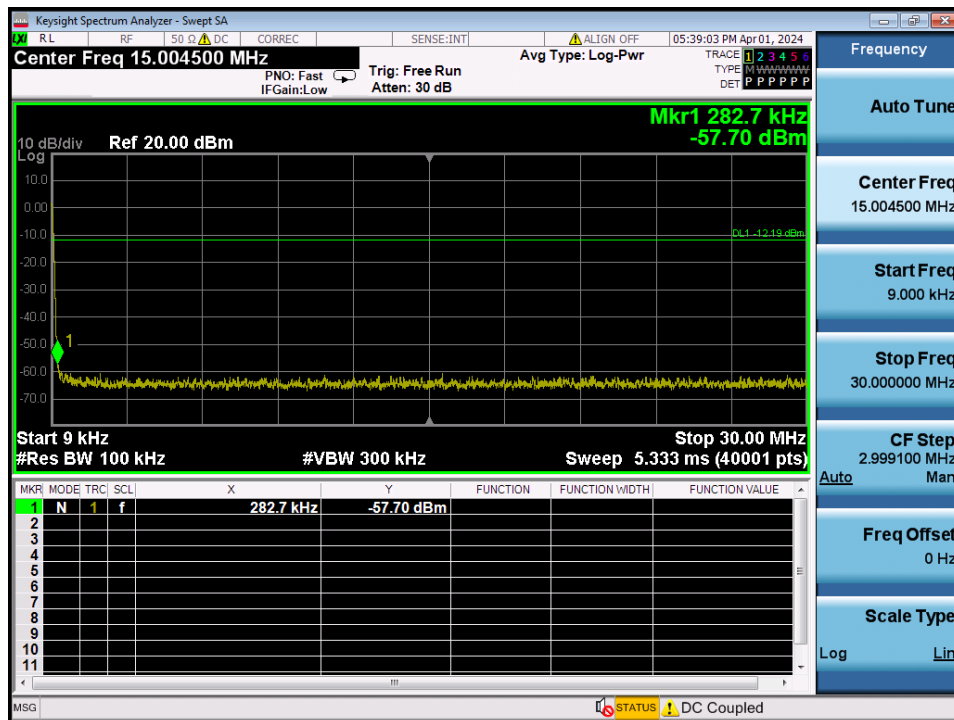
Reference



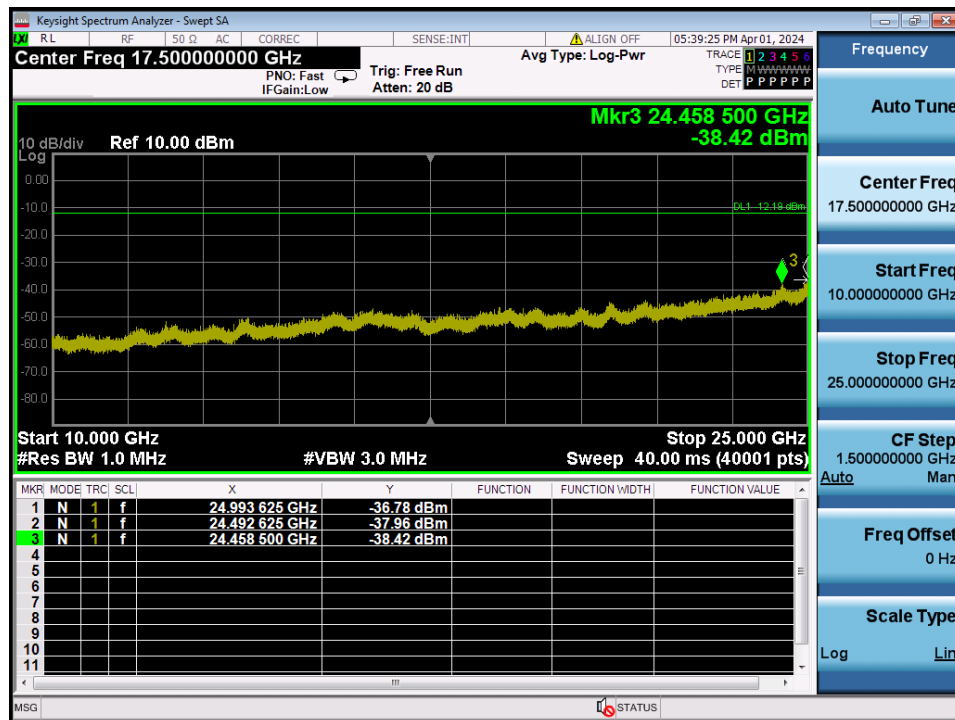
Low Band-edge



Conducted Spurious Emissions

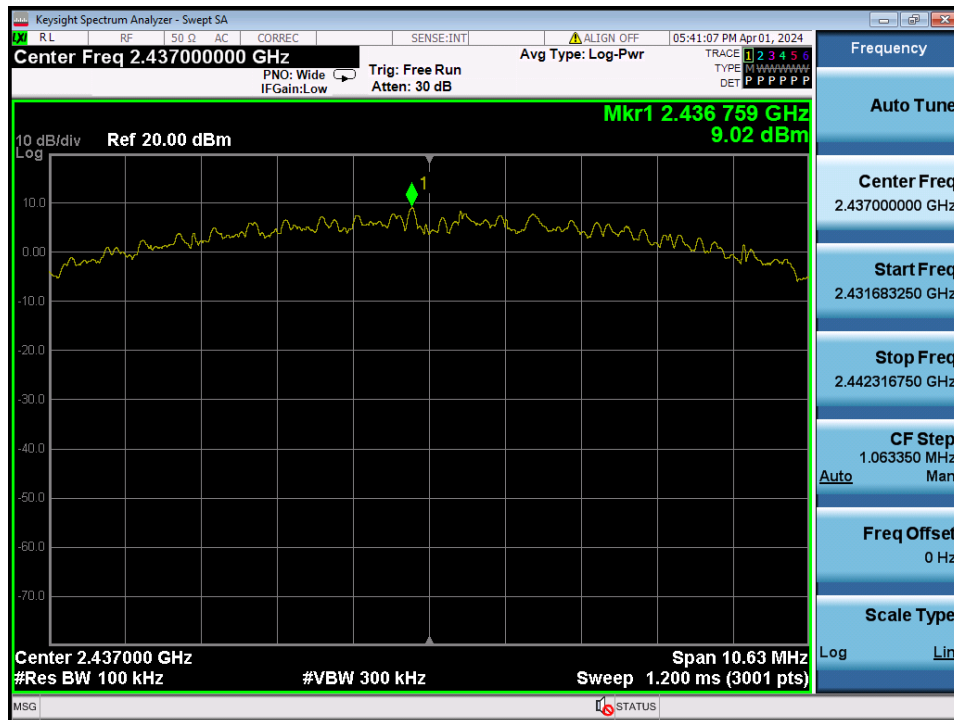


Conducted Spurious Emissions

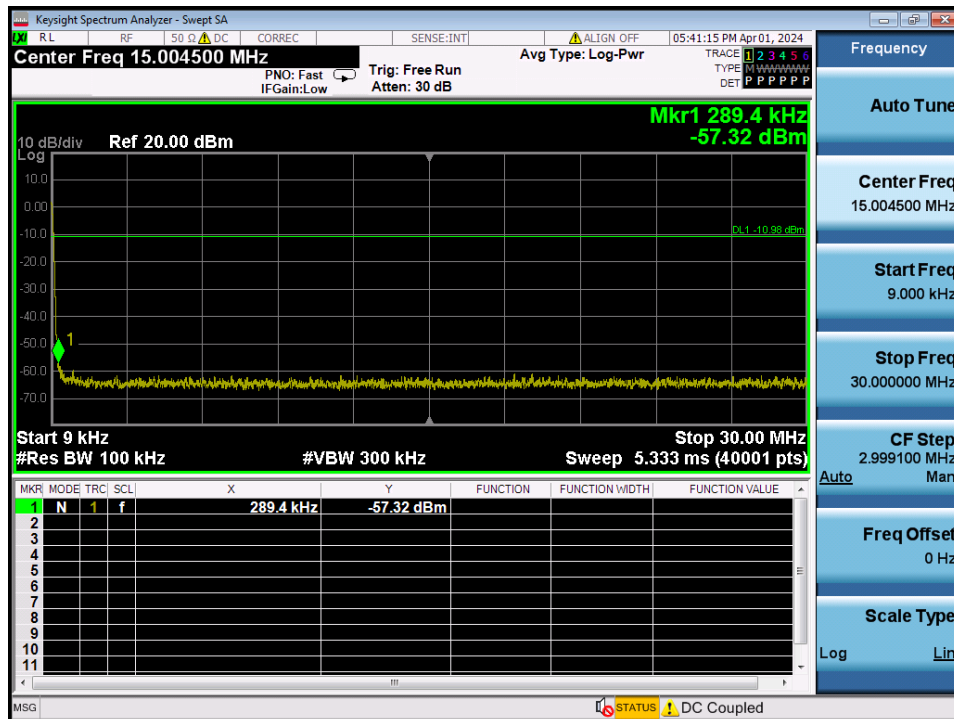


TM 1 & ANT 1 & 2 437

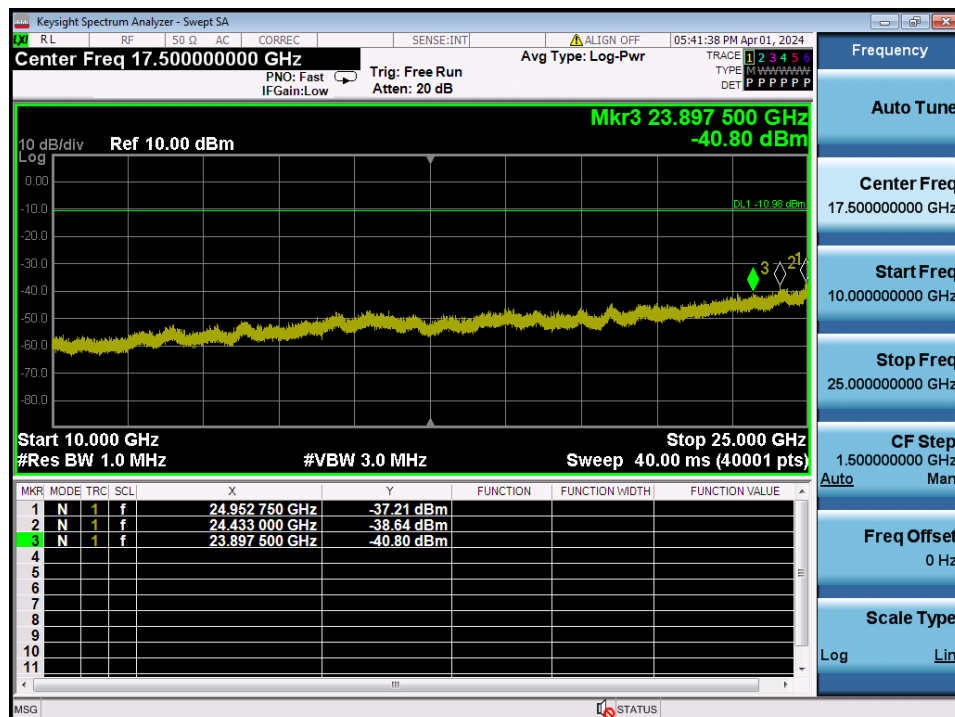
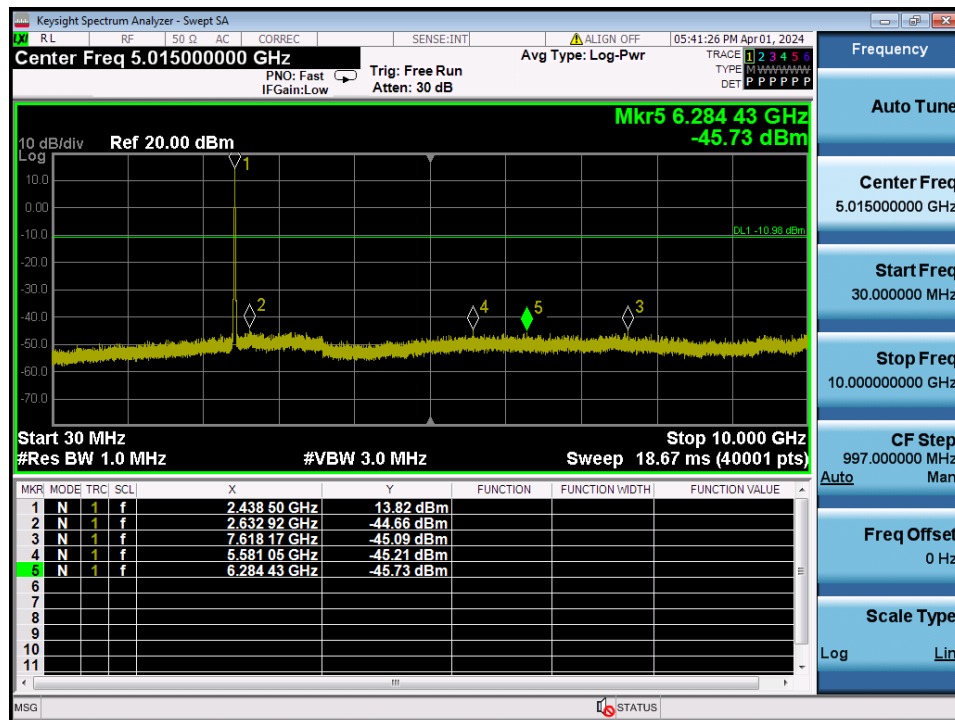
Reference



Conducted Spurious Emissions

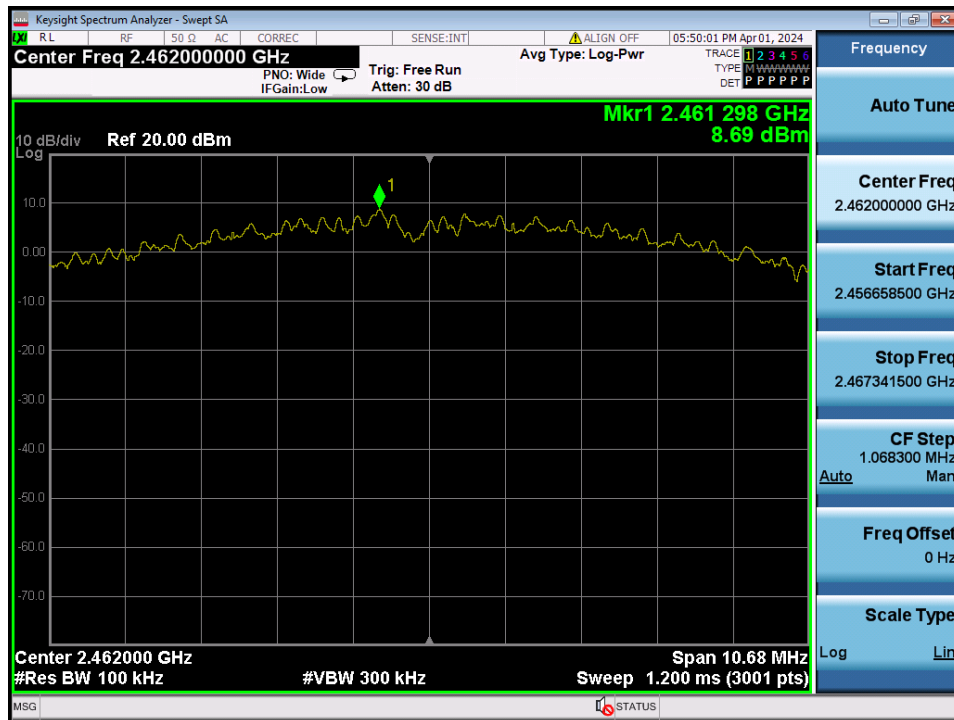


Conducted Spurious Emissions

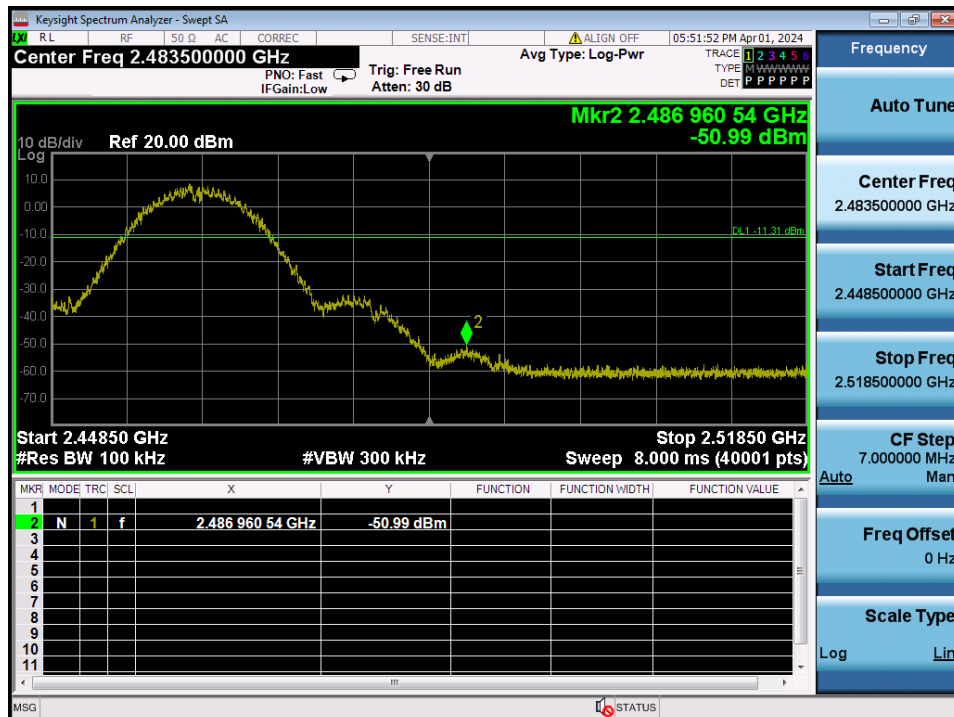


TM 1 & ANT 1 & 2 462

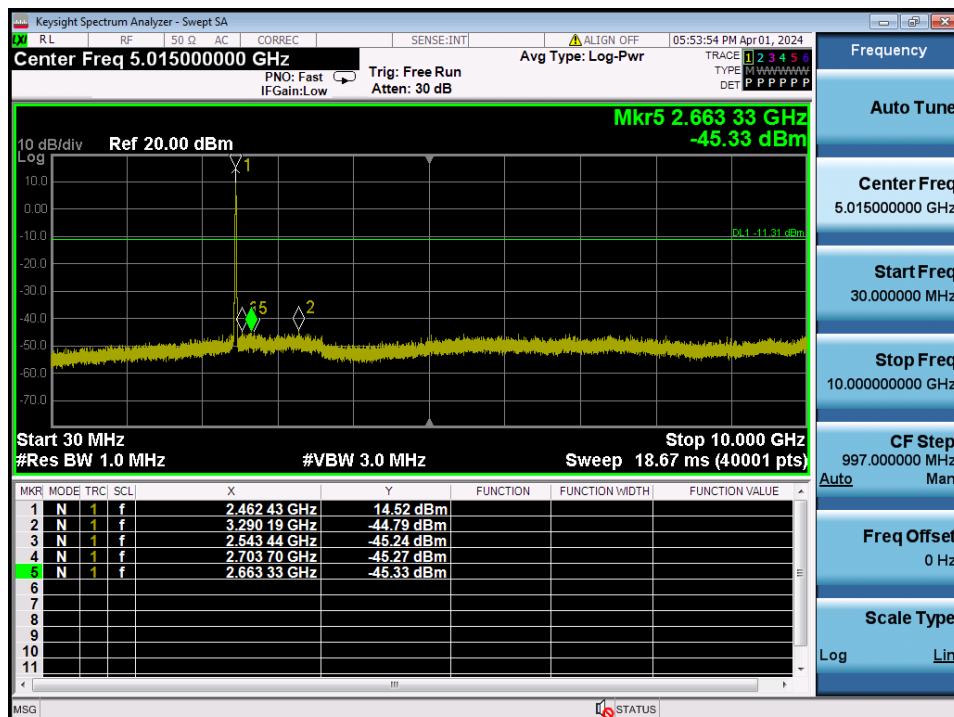
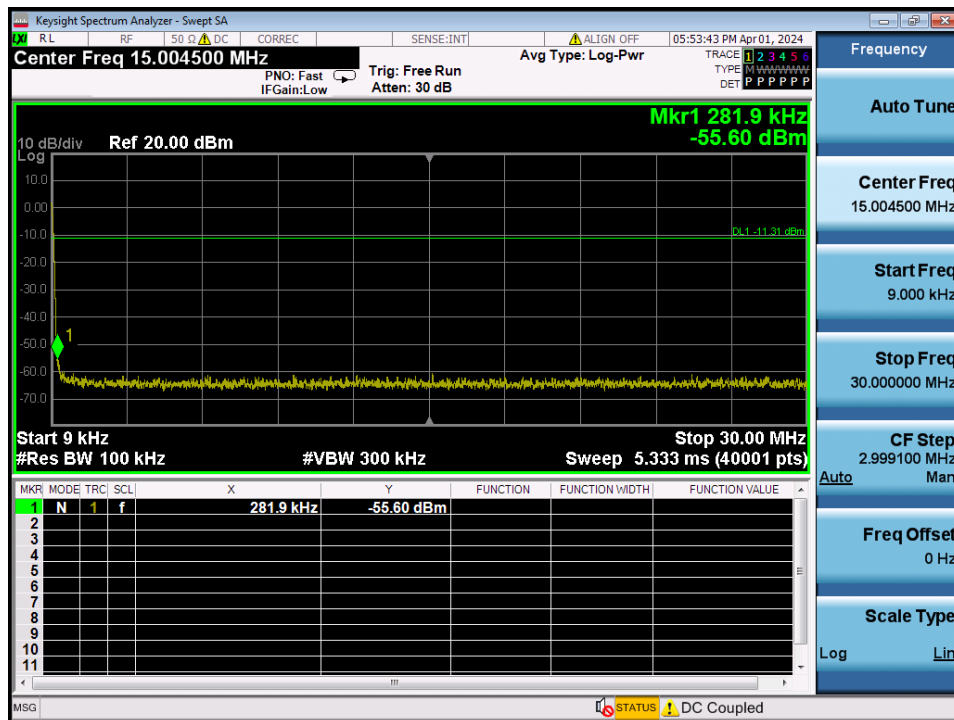
Reference



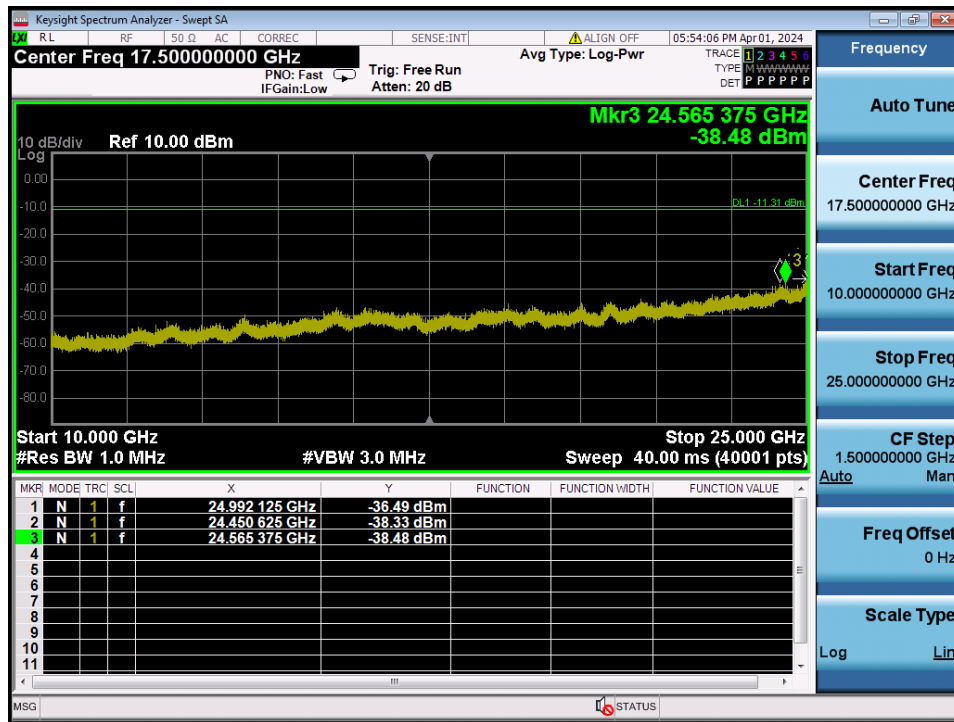
High Band-edge



Conducted Spurious Emissions

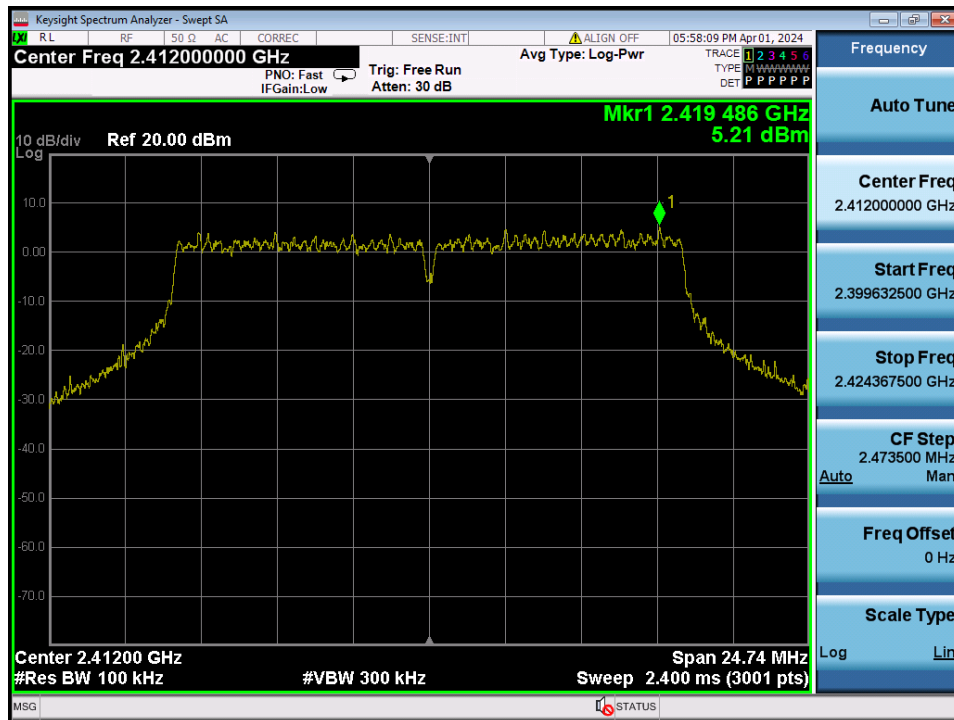


Conducted Spurious Emissions

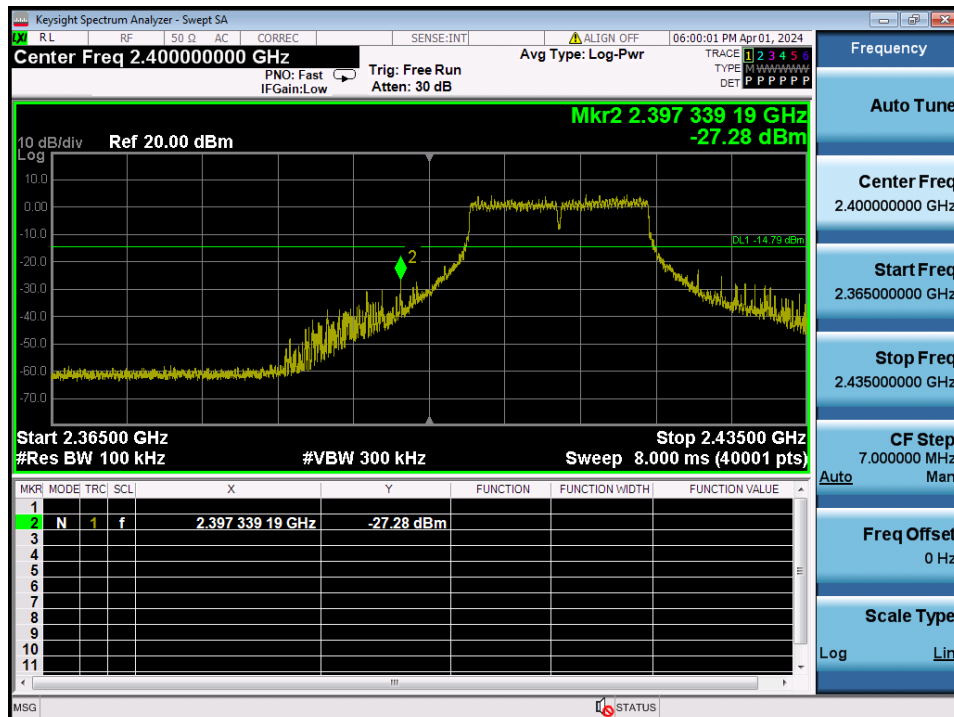


TM 2 & ANT 1 & 2 412

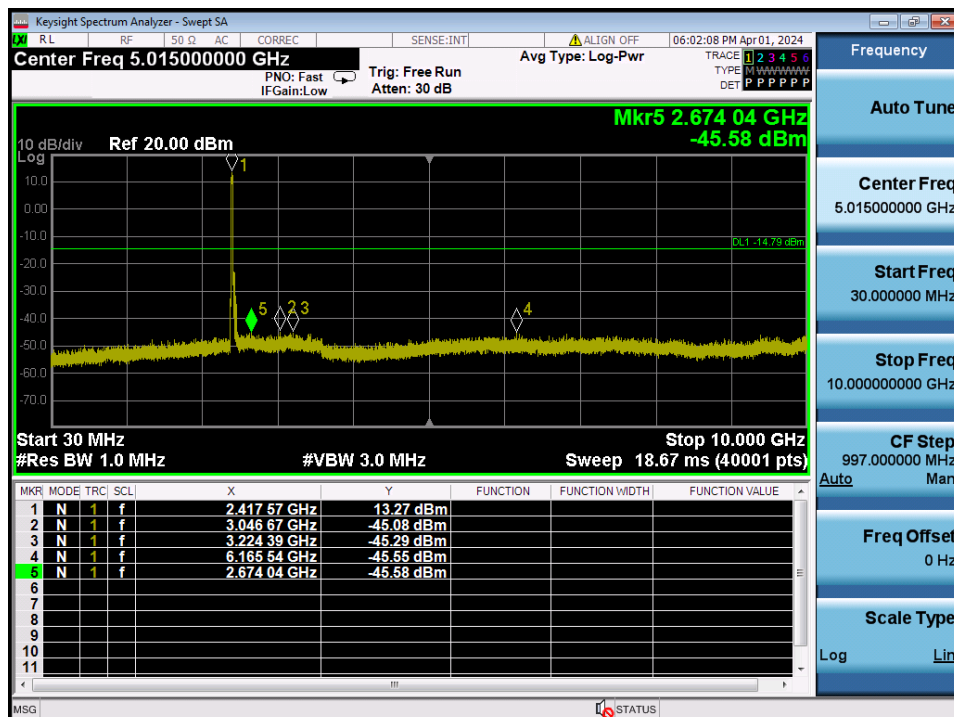
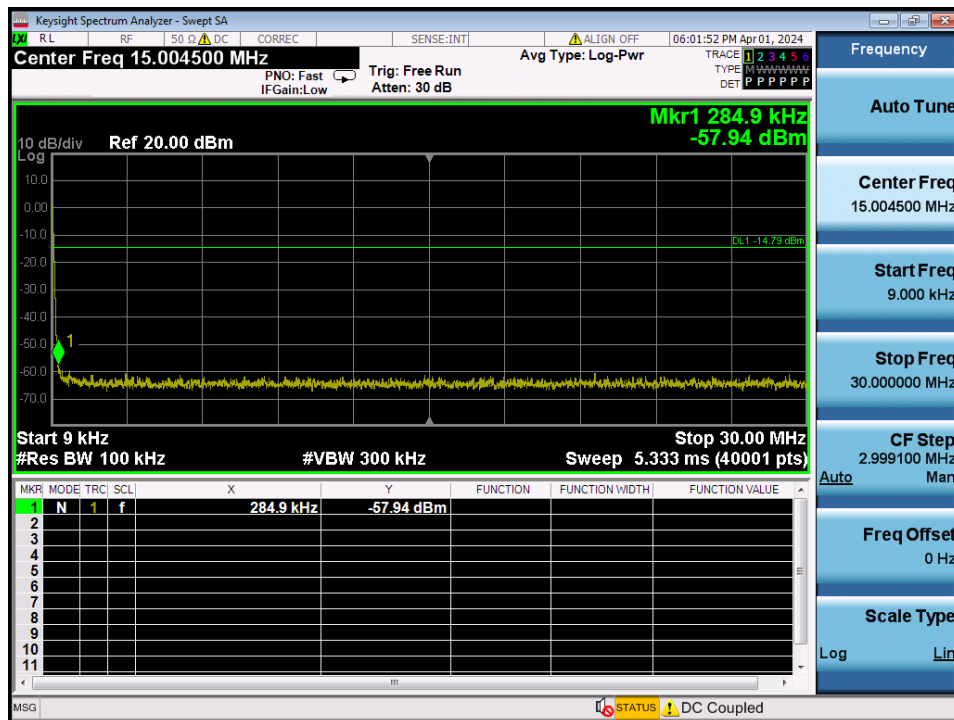
Reference



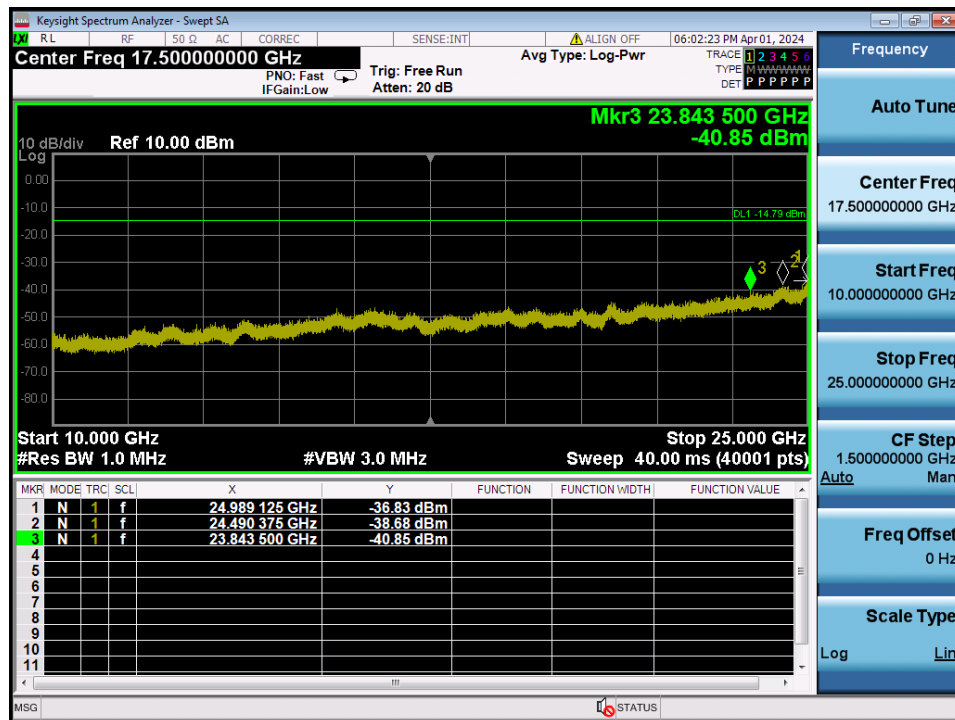
Low Band-edge



Conducted Spurious Emissions

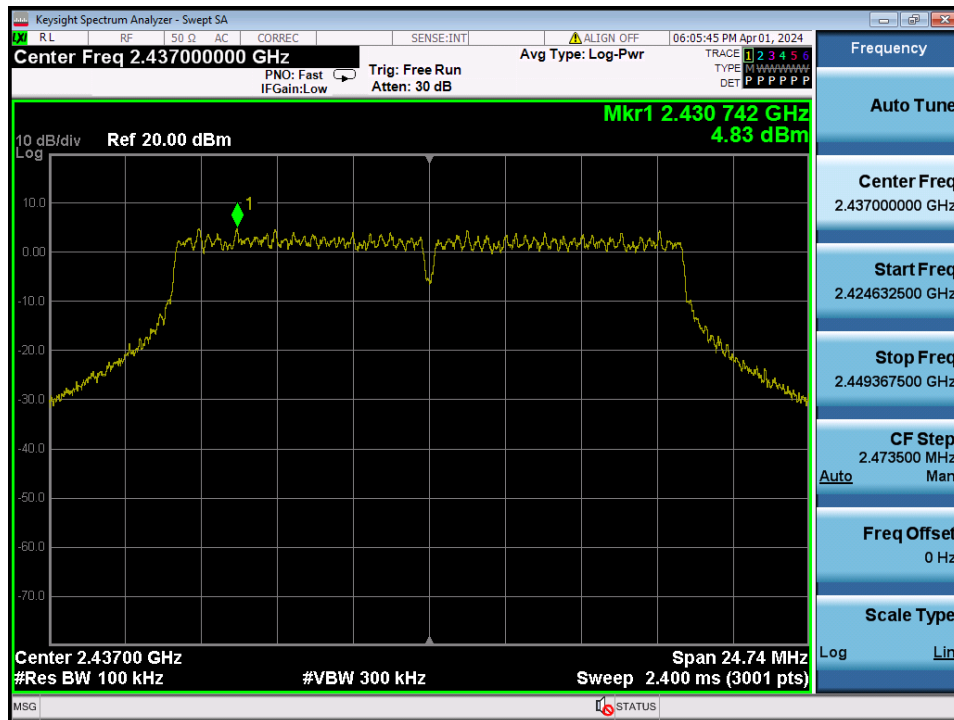


Conducted Spurious Emissions

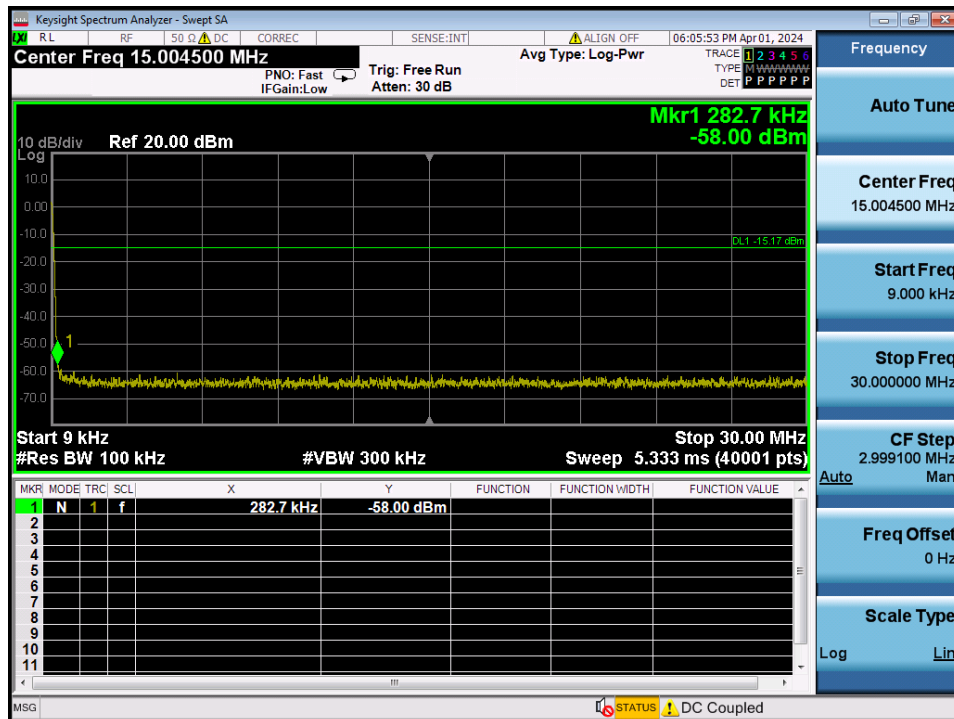


TM 2 & ANT 1 & 2 437

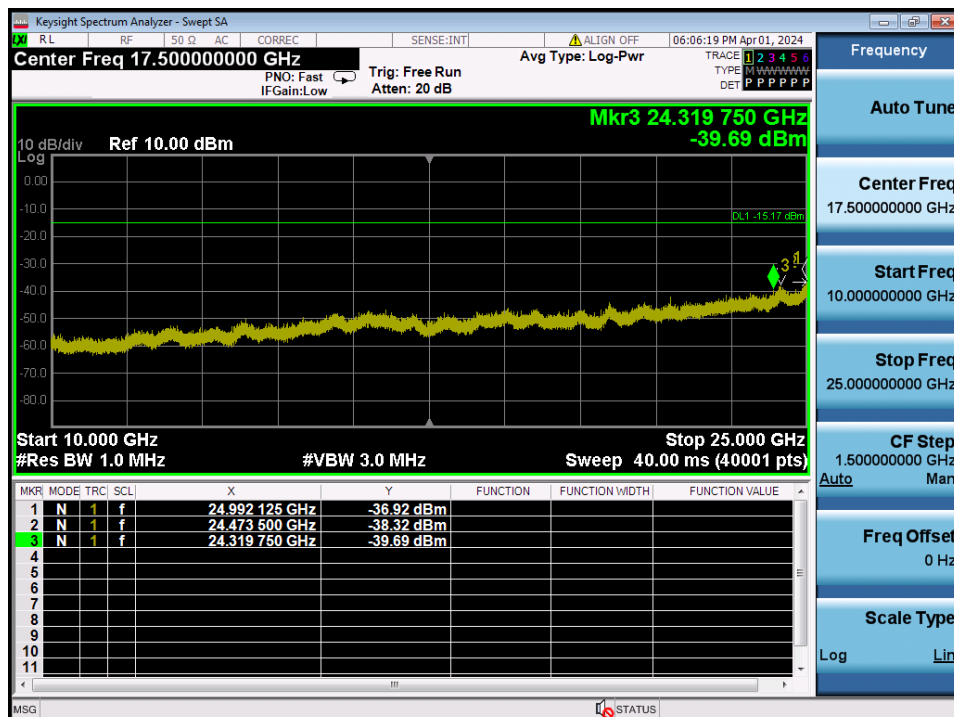
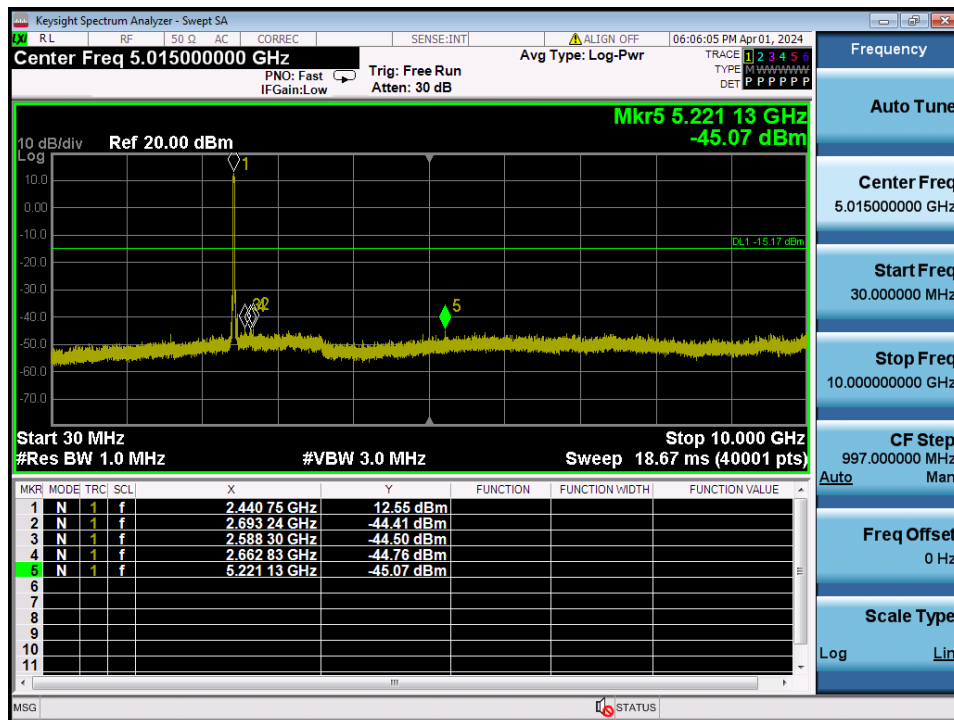
Reference



Conducted Spurious Emissions

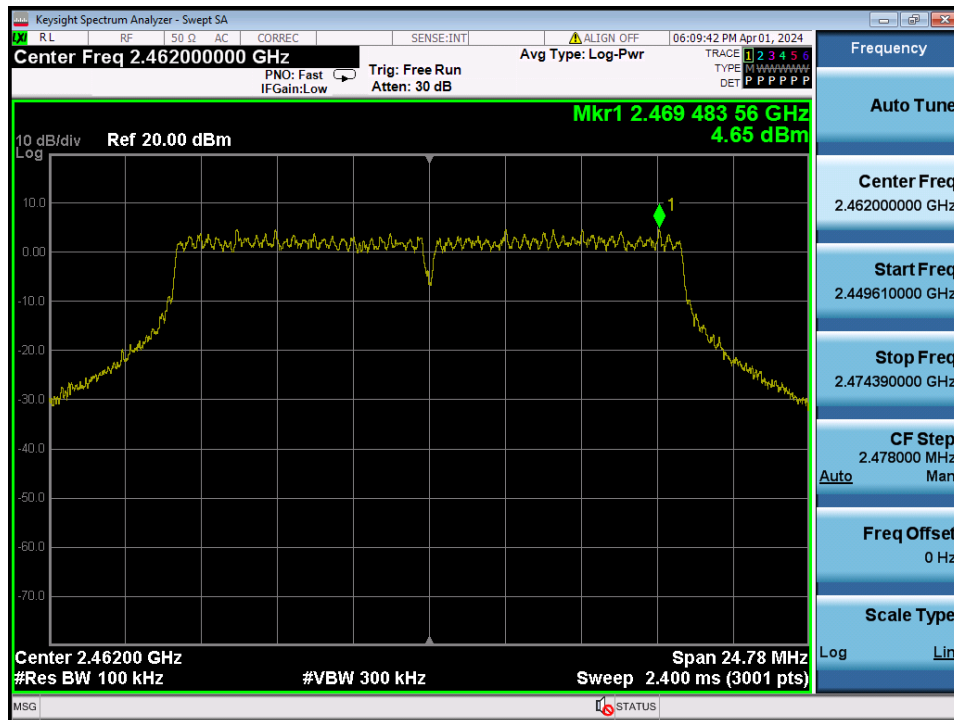


Conducted Spurious Emissions

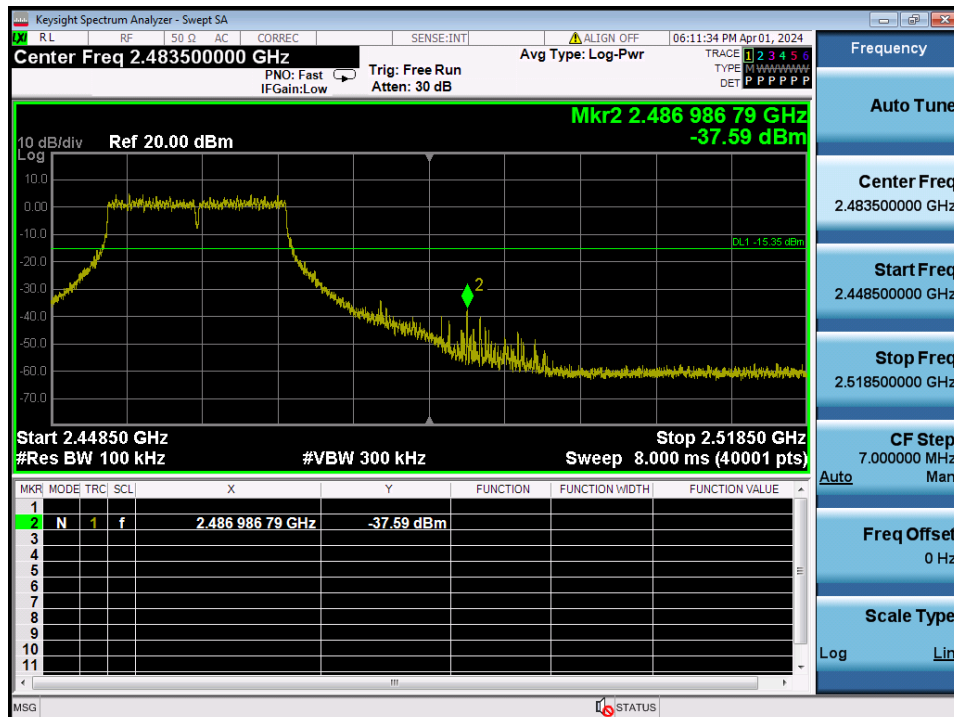


TM 2 & ANT 1 & 2 462

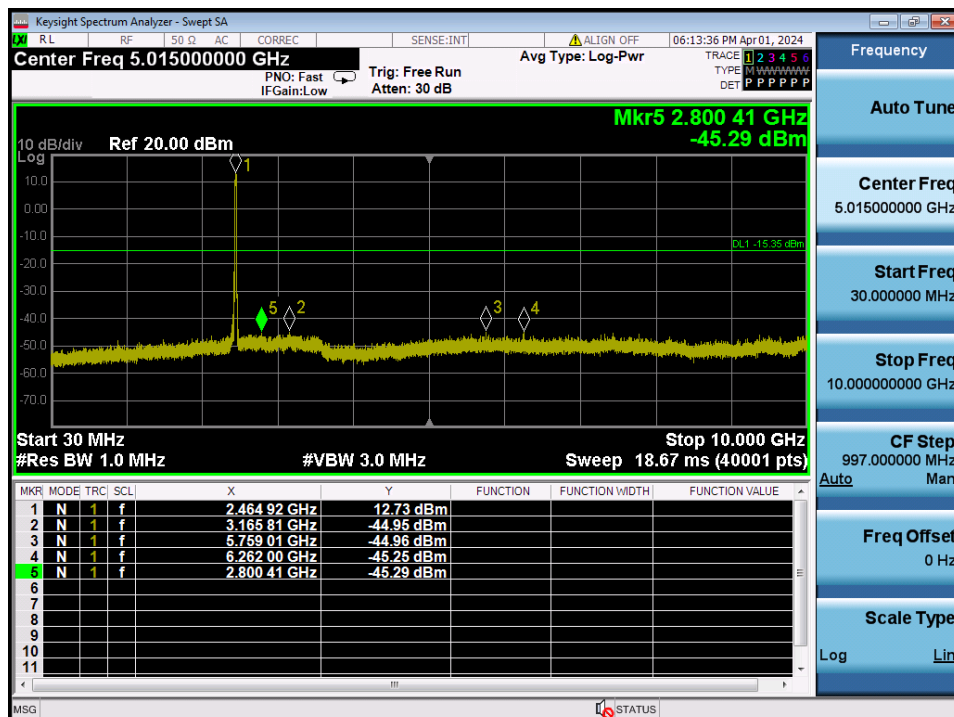
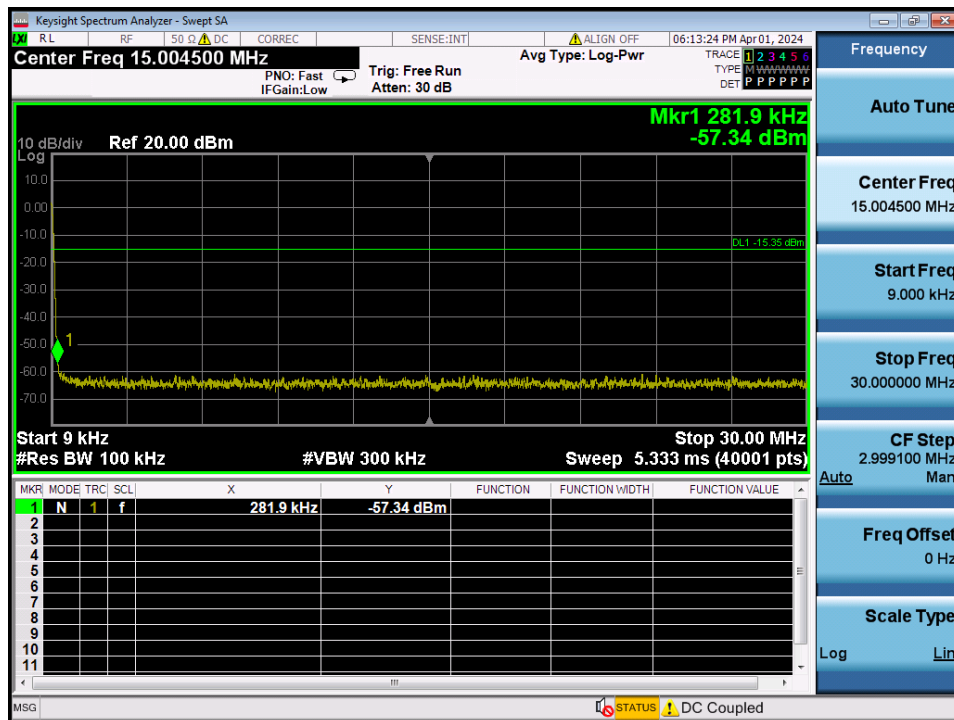
Reference



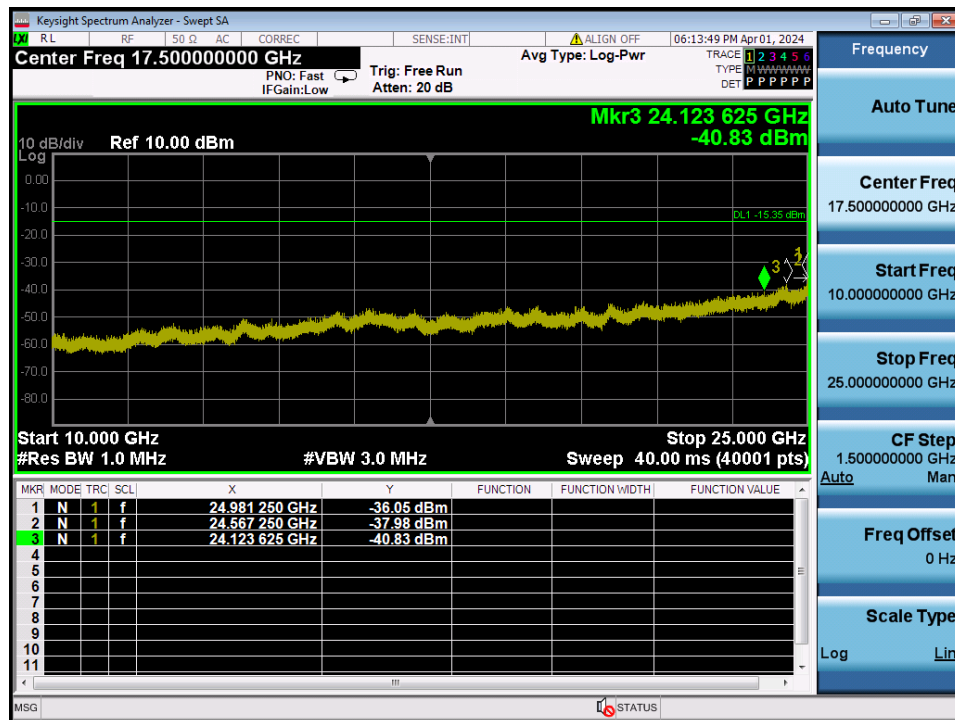
High Band-edge



Conducted Spurious Emissions

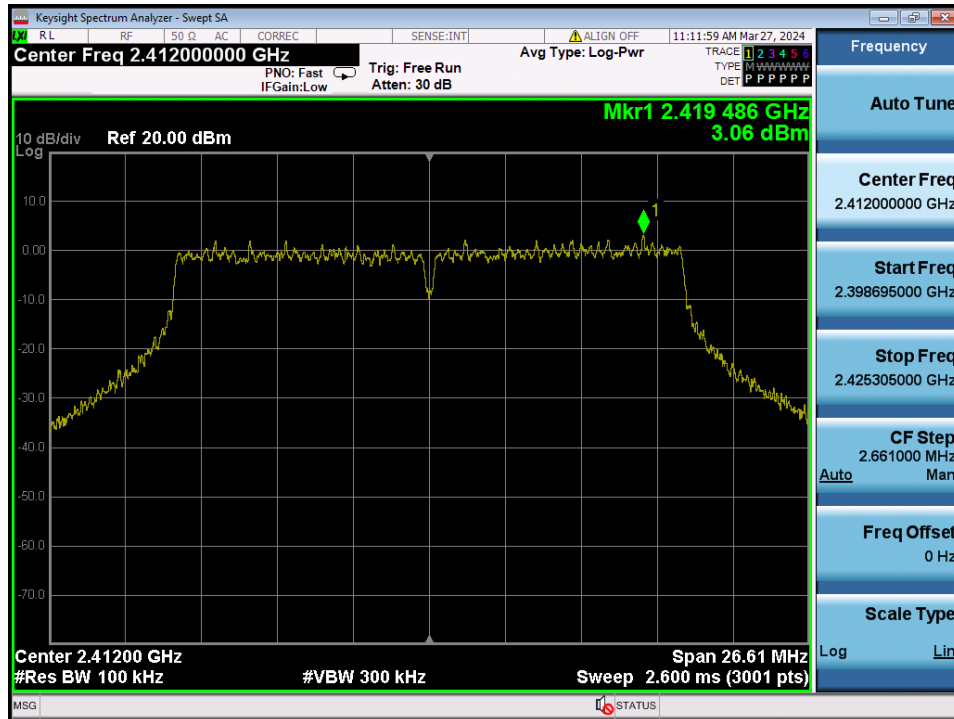


Conducted Spurious Emissions

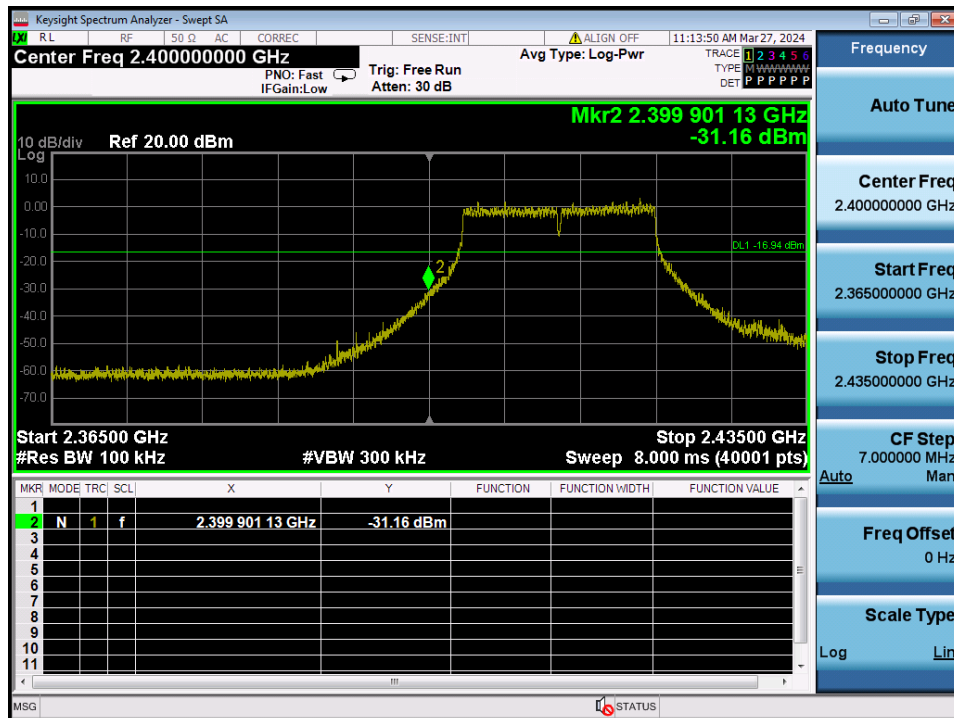


TM 3 & ANT 1 & 2 412

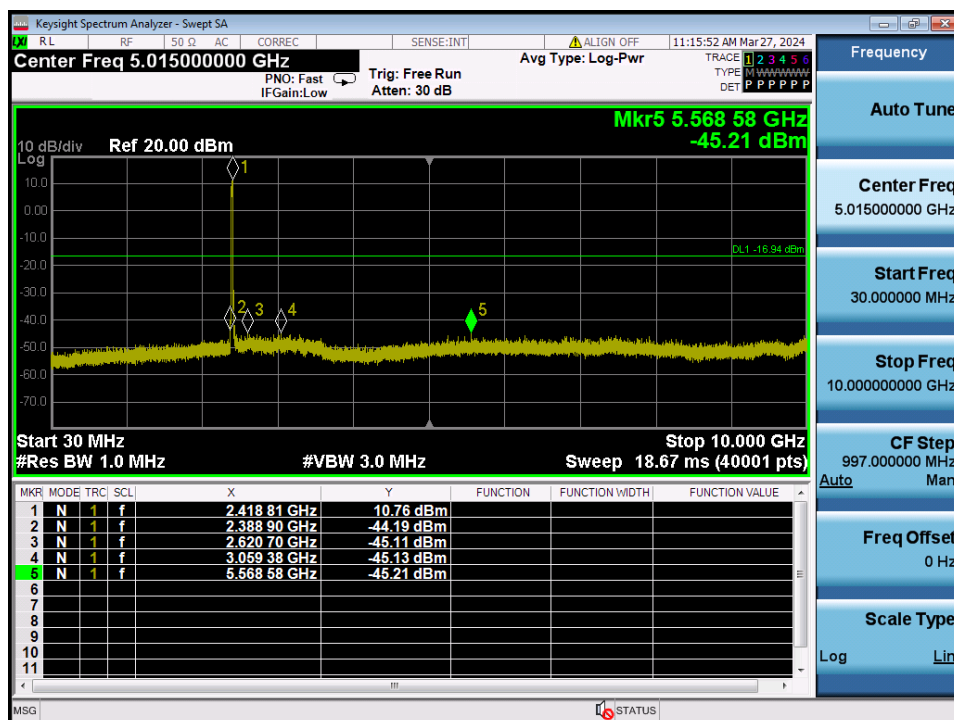
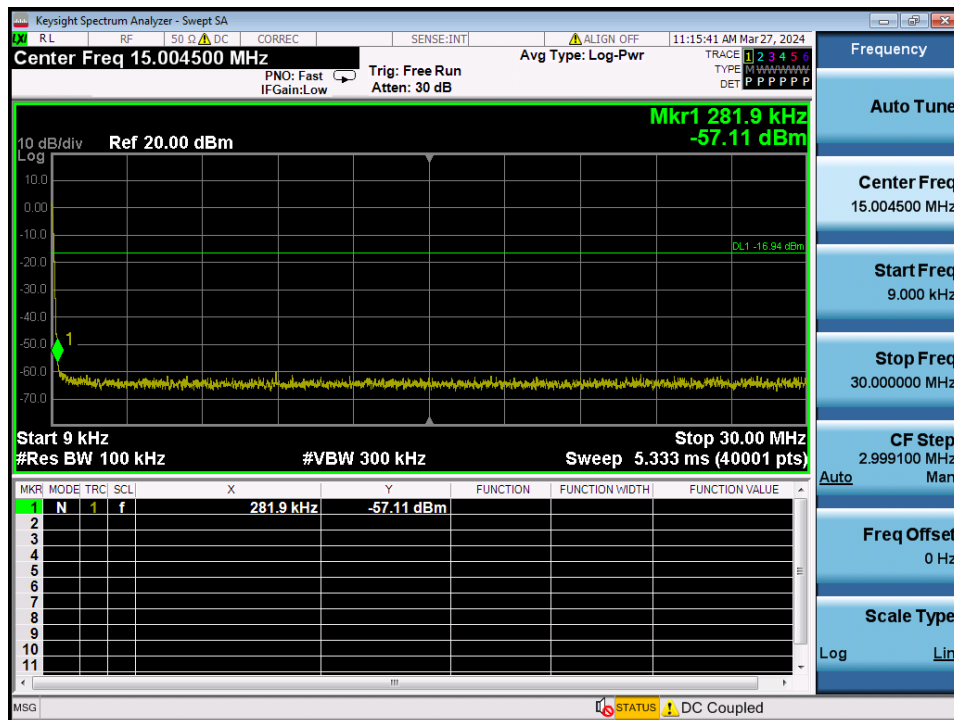
Reference



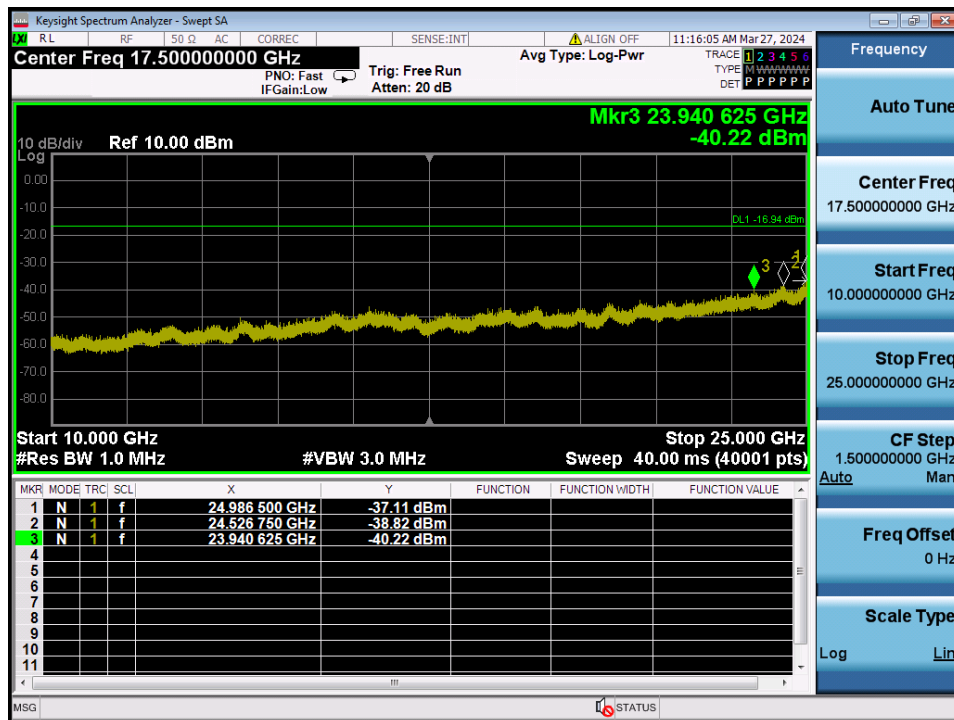
Low Band-edge



Conducted Spurious Emissions

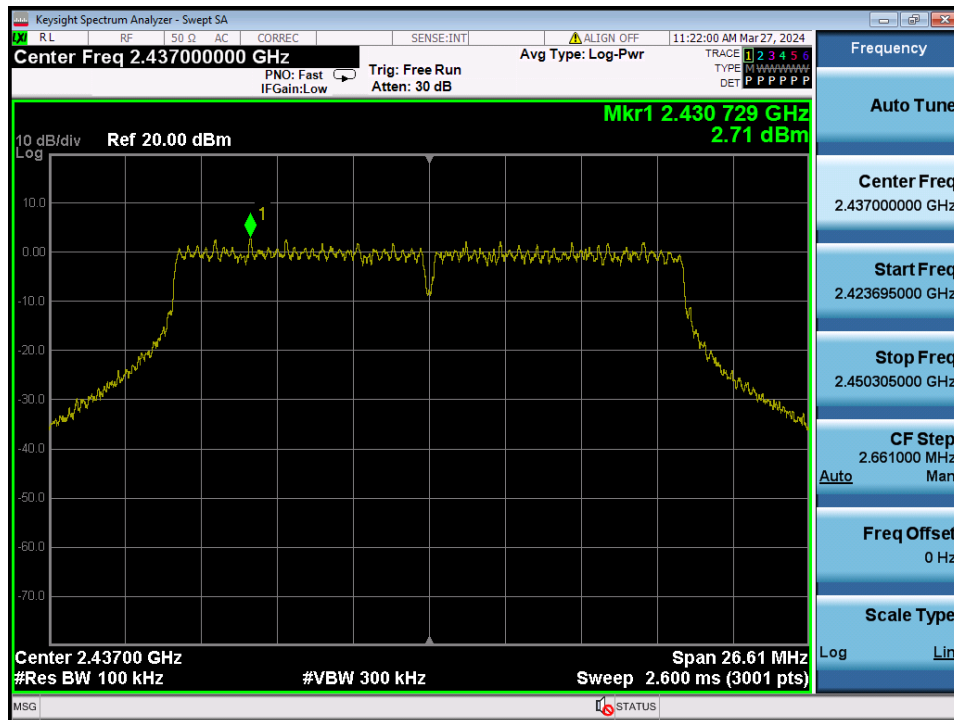


Conducted Spurious Emissions

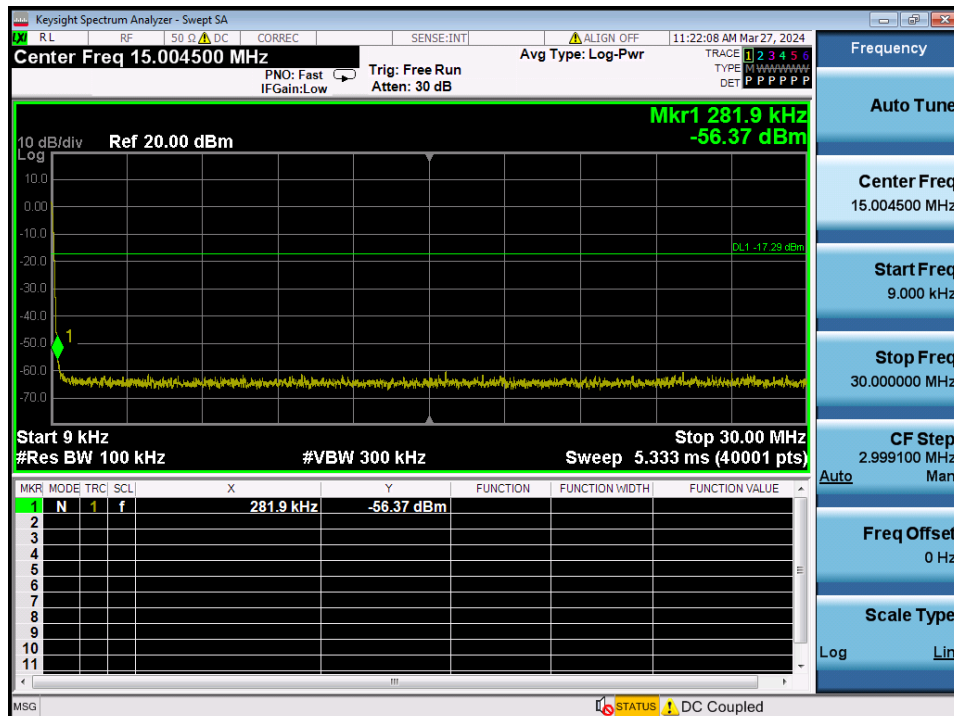


TM 3 & ANT 1 & 2 437

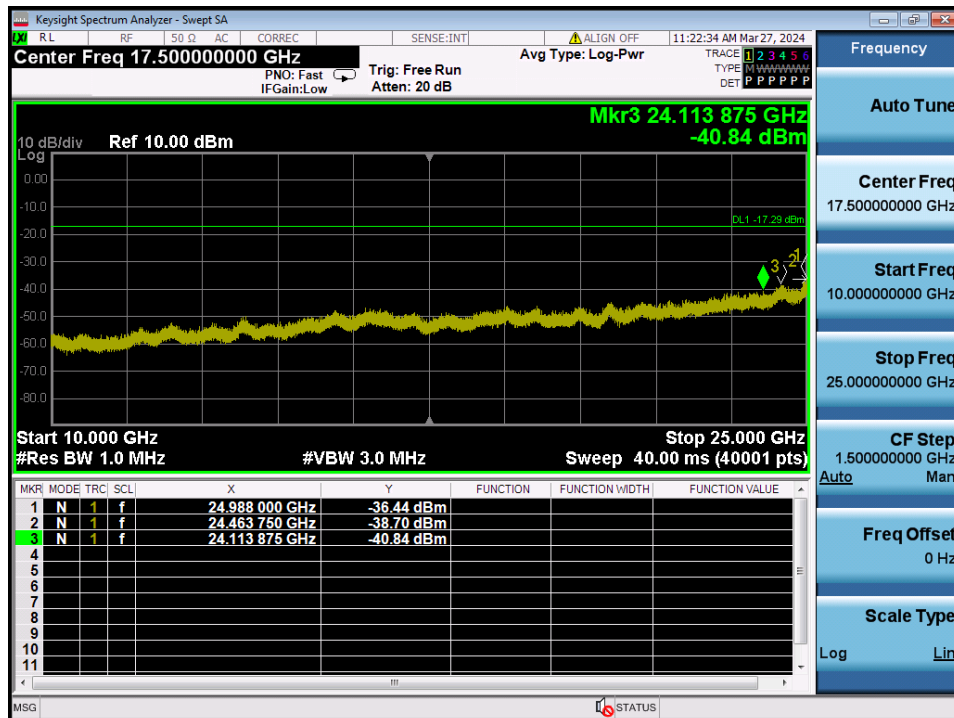
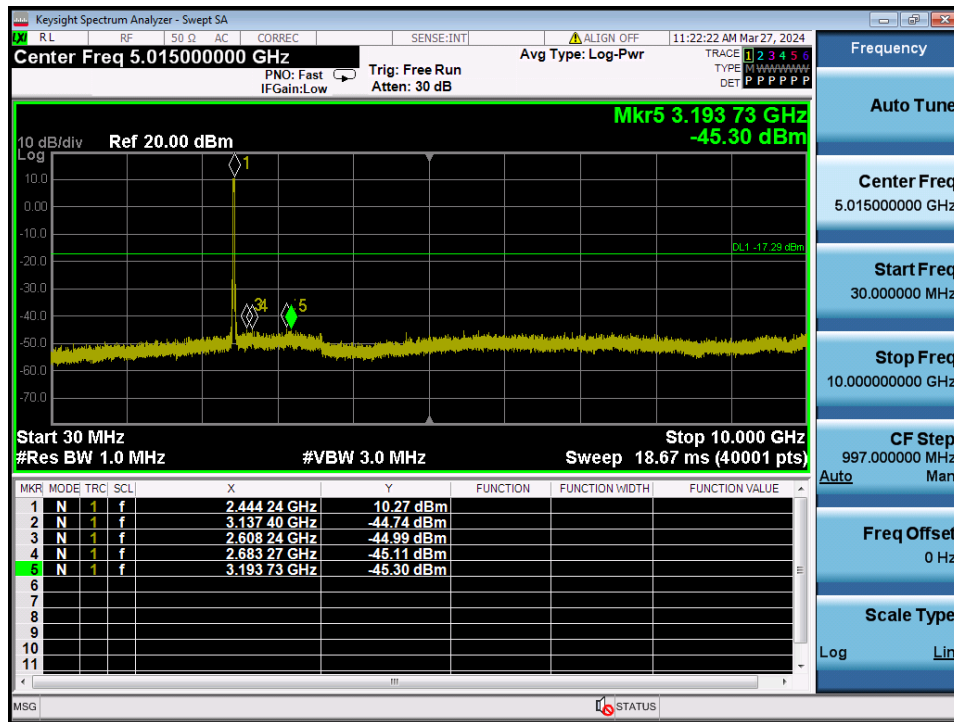
Reference



Conducted Spurious Emissions

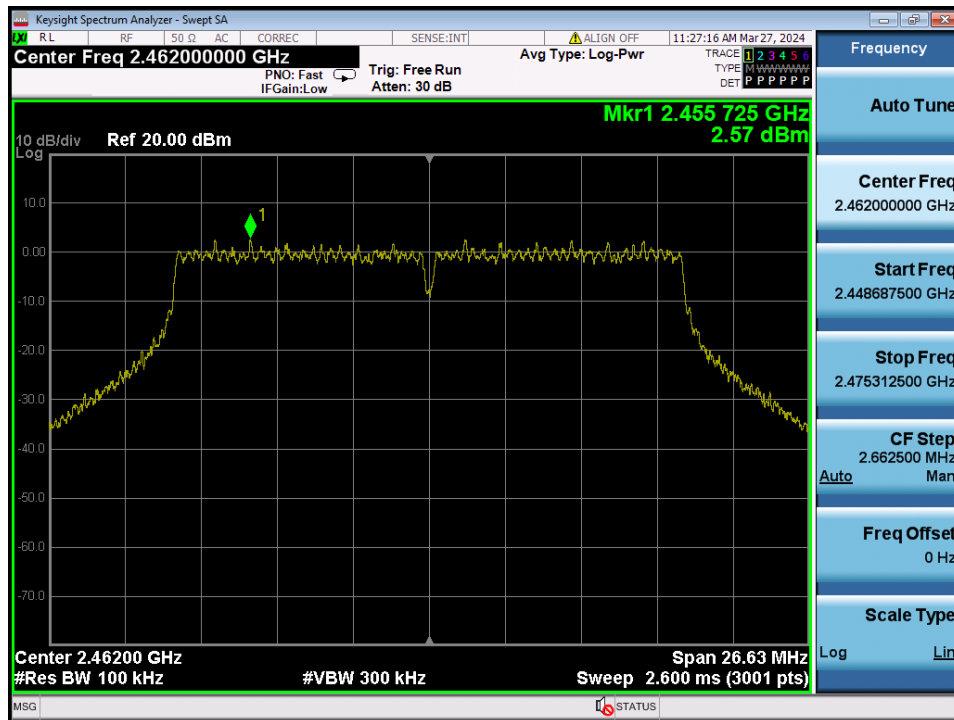


Conducted Spurious Emissions

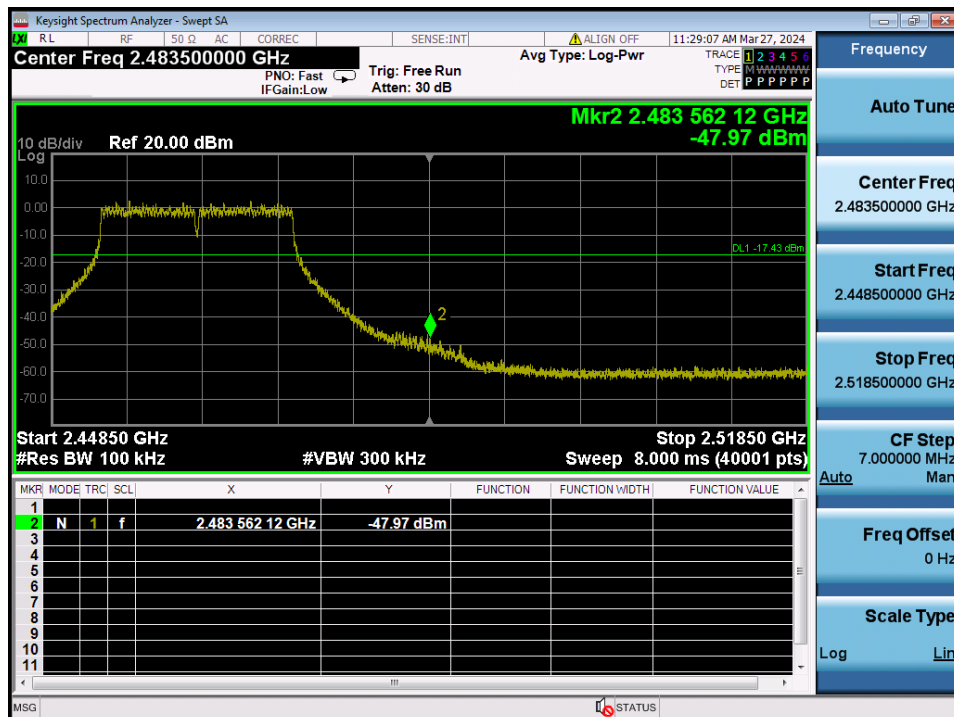


TM 3 & ANT 1 & 2 462

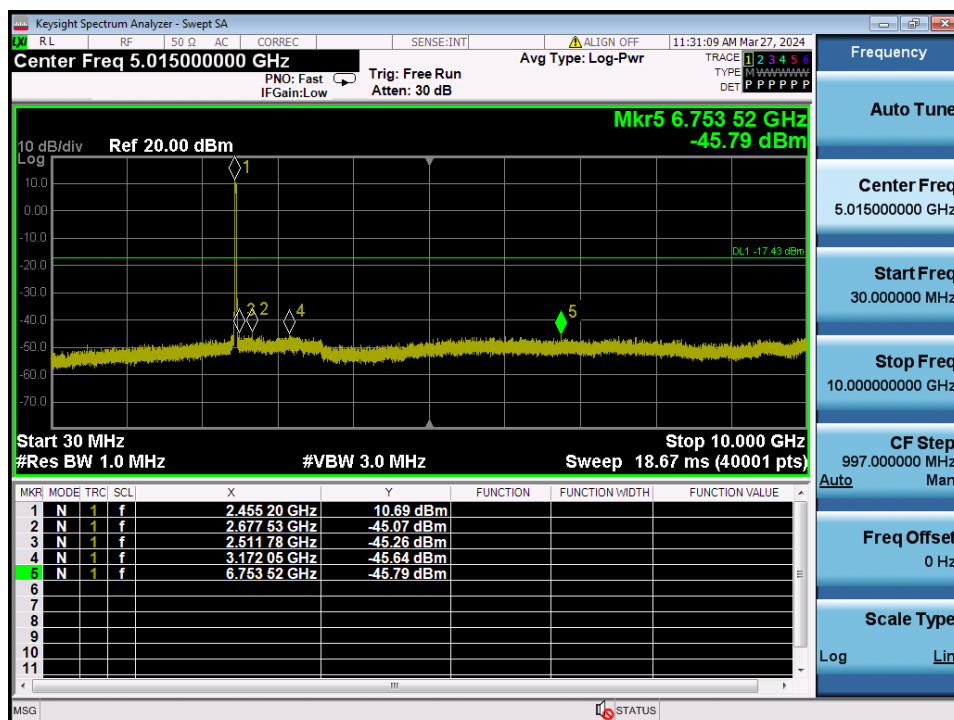
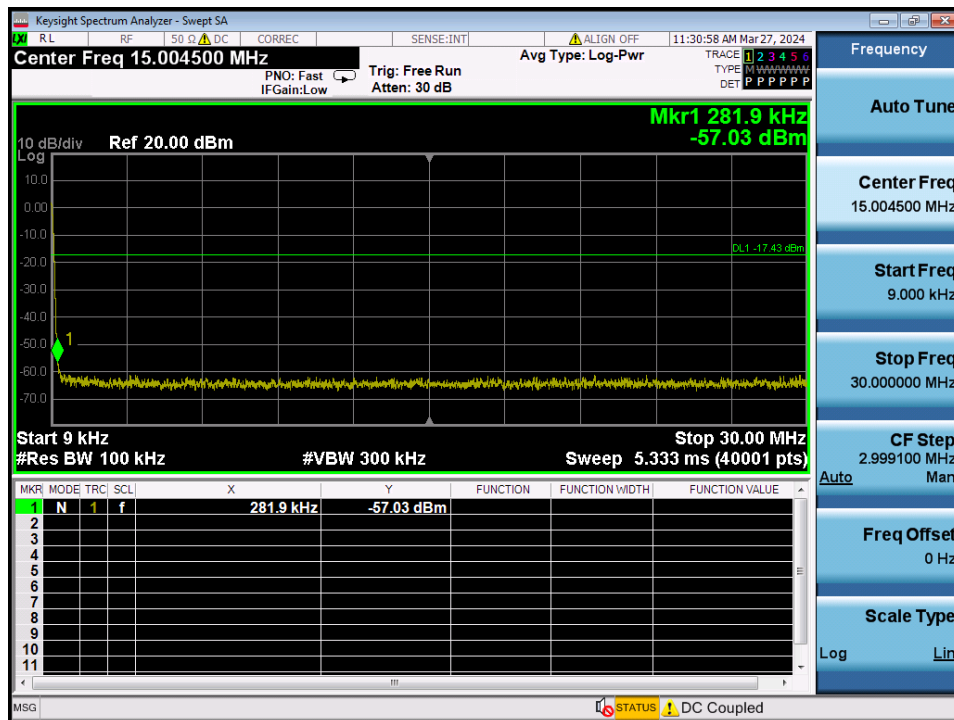
Reference



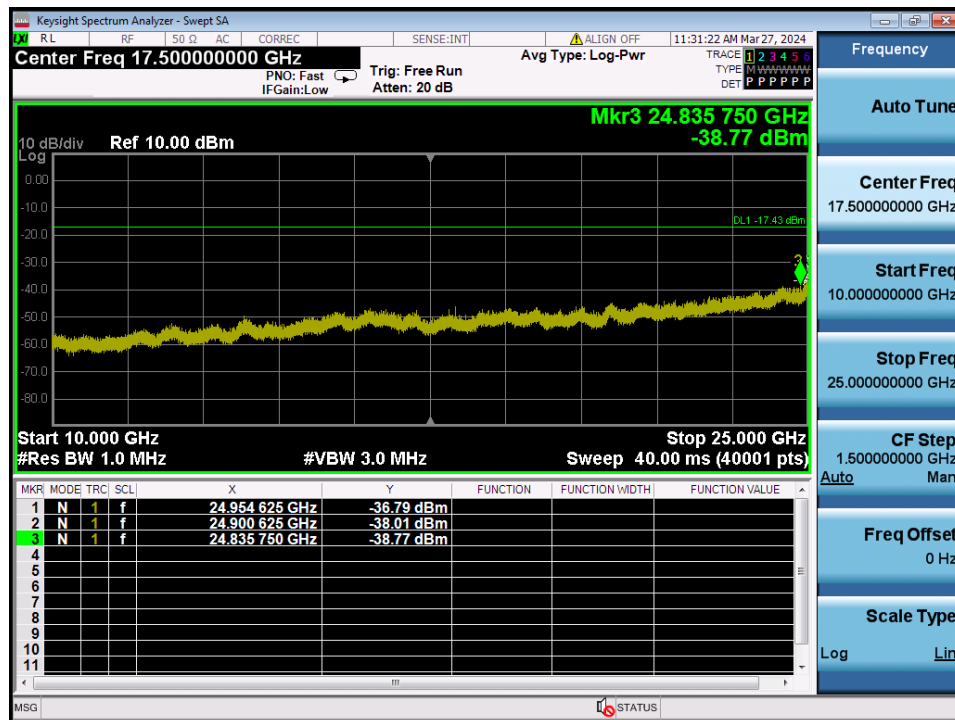
High Band-edge



Conducted Spurious Emissions

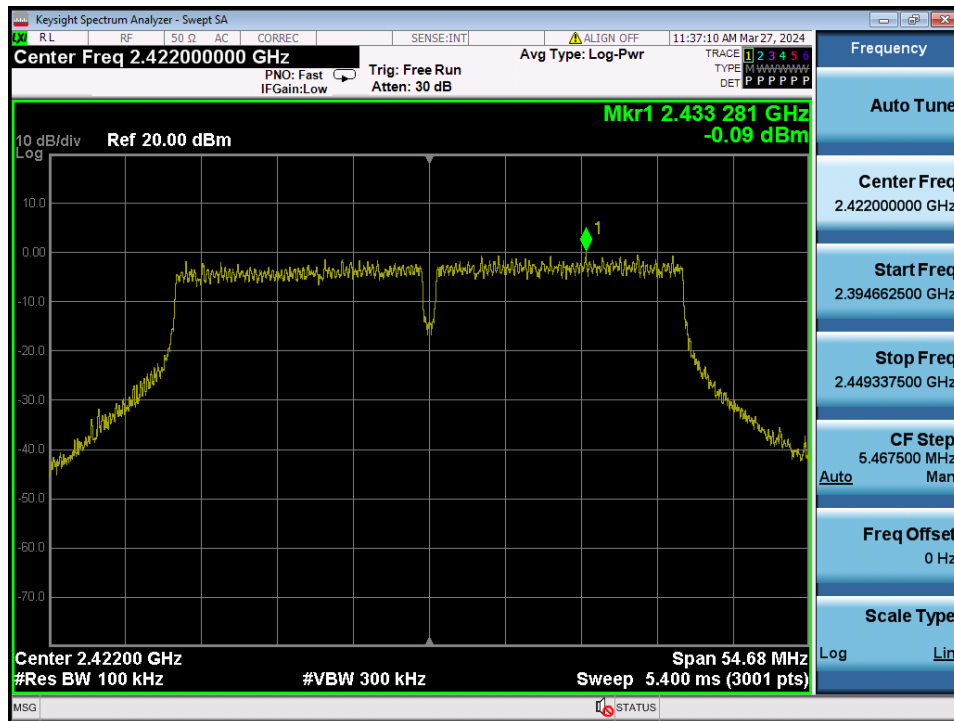


Conducted Spurious Emissions

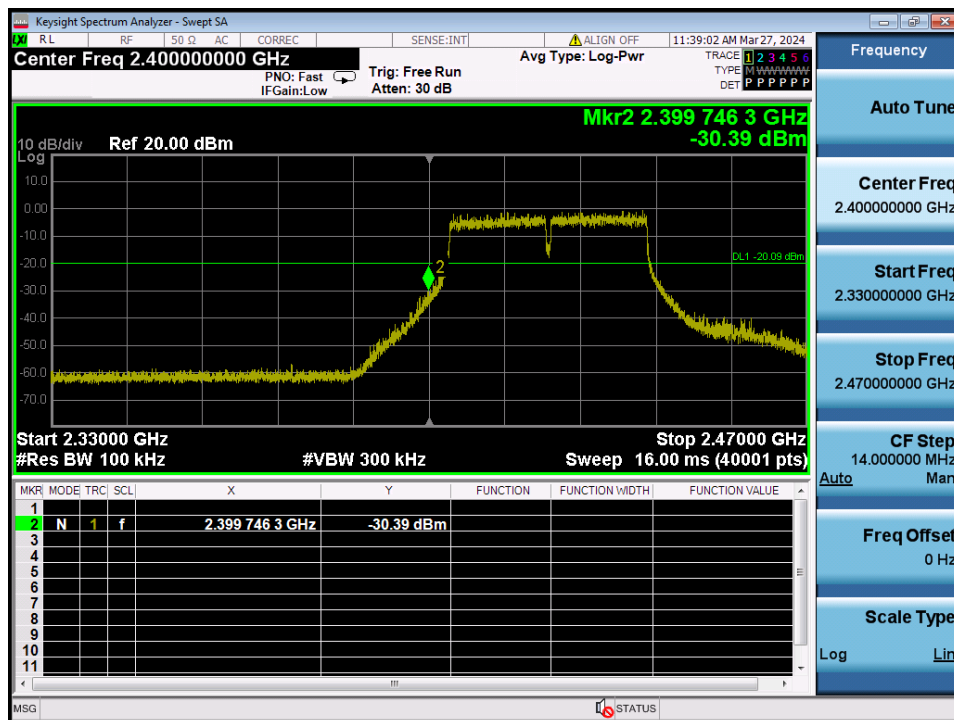


TM 4 & ANT 1 & 2 422

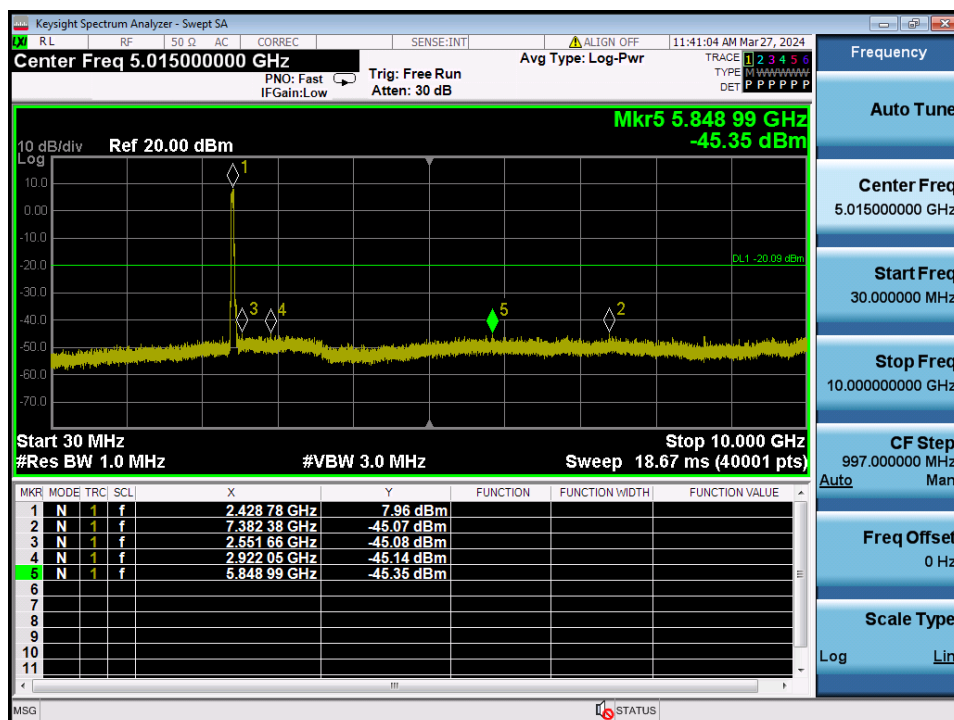
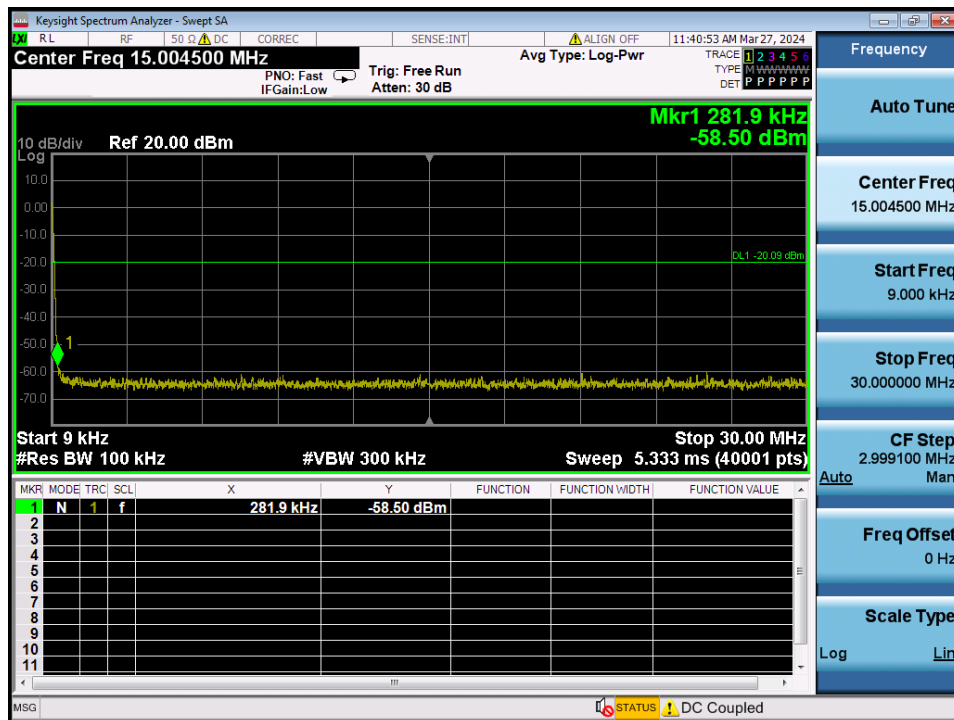
Reference



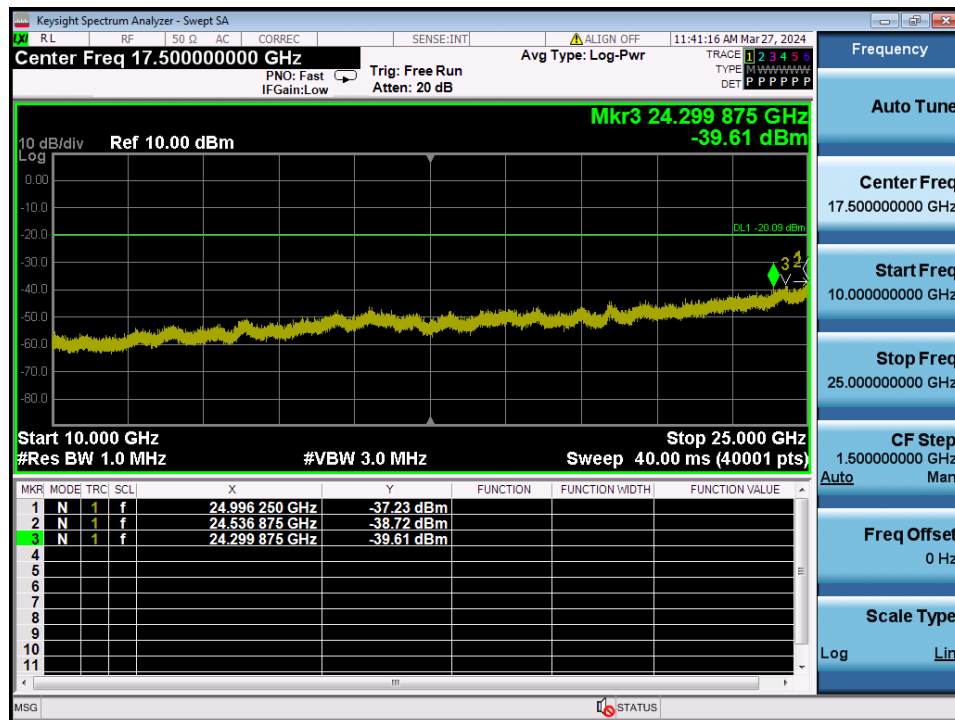
Low Band-edge



Conducted Spurious Emissions

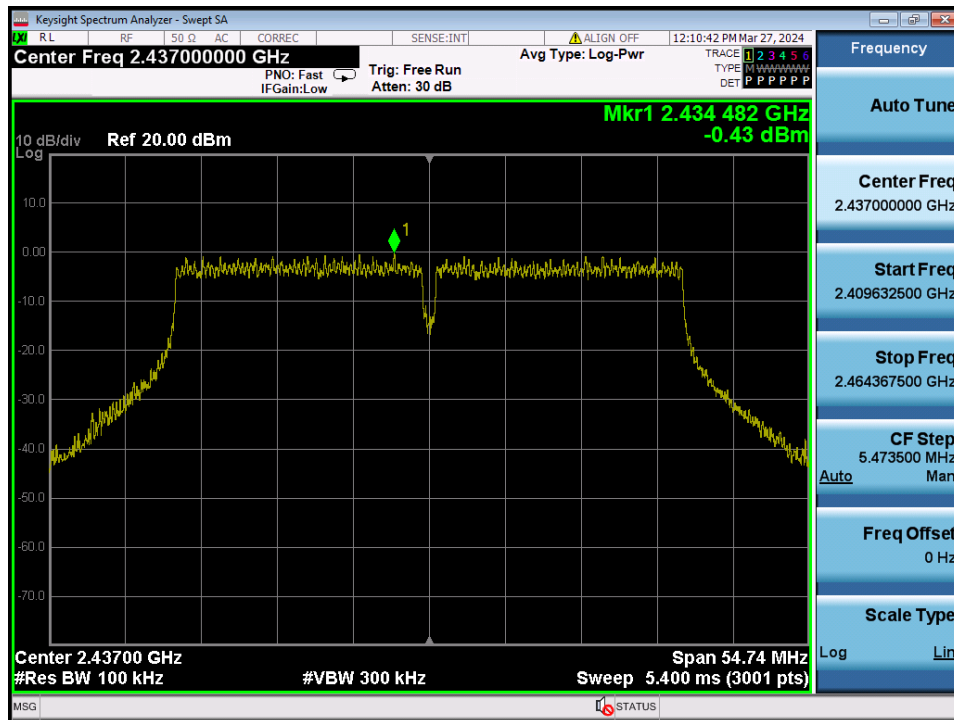


Conducted Spurious Emissions

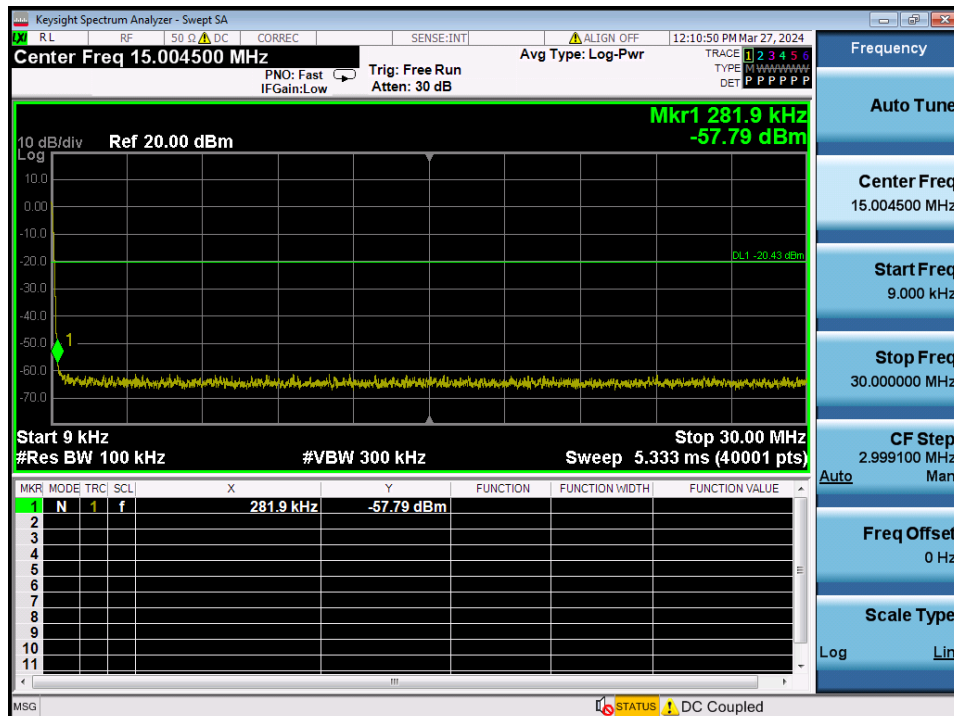


TM 4 & ANT 1 & 2 437

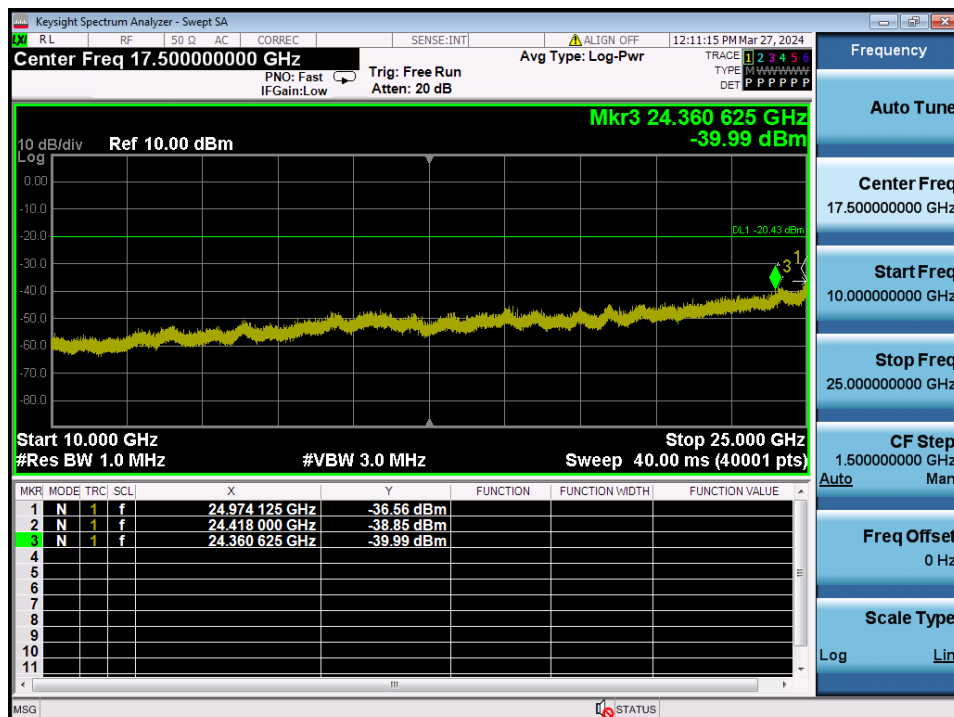
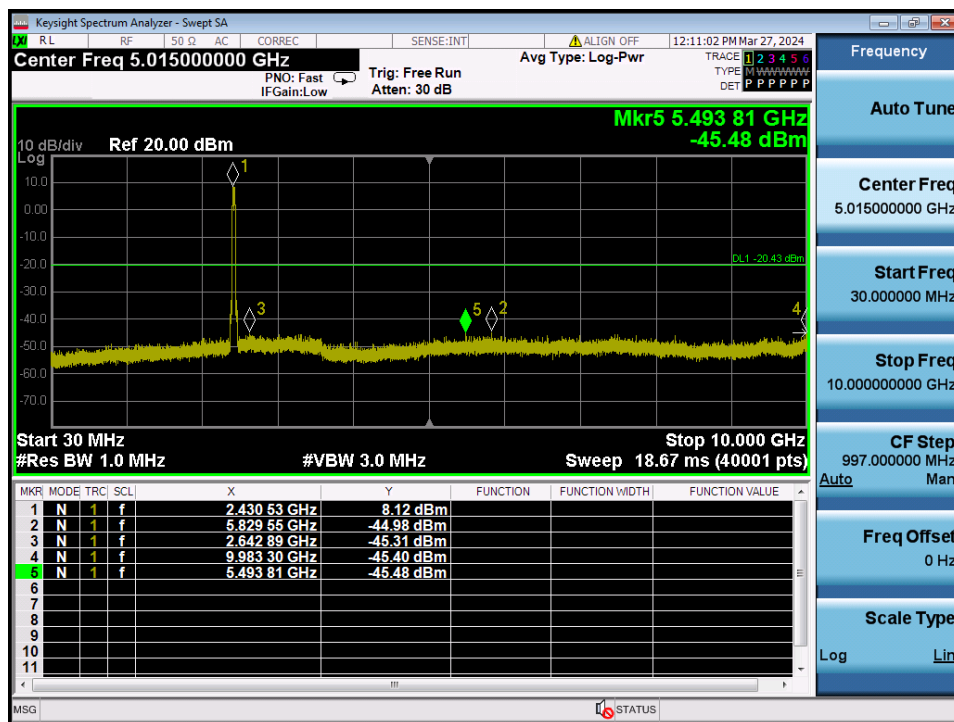
Reference



Conducted Spurious Emissions

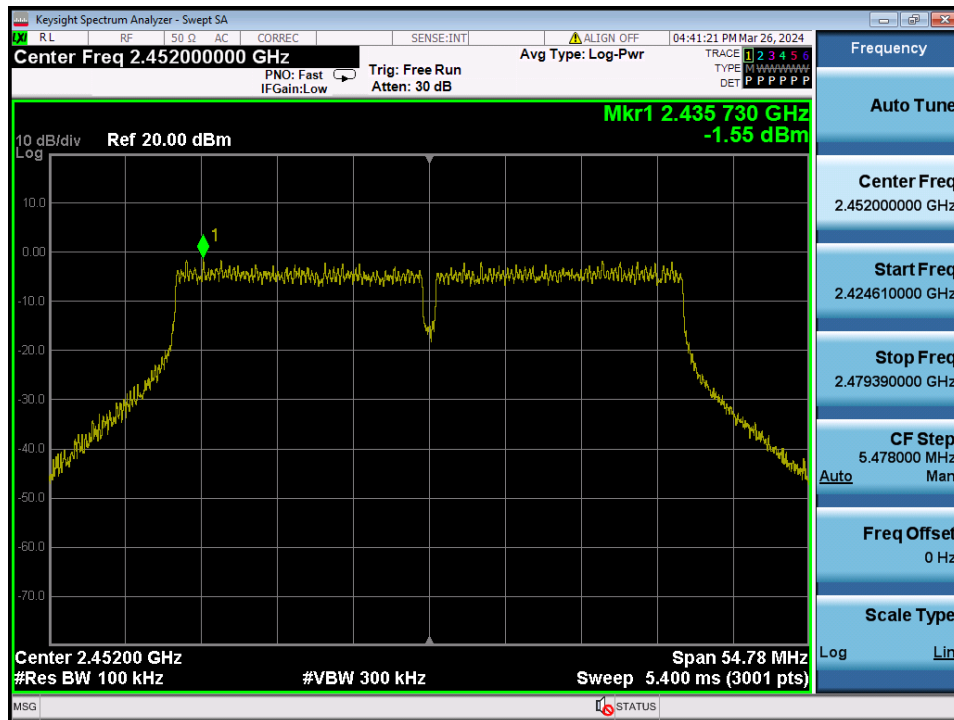


Conducted Spurious Emissions

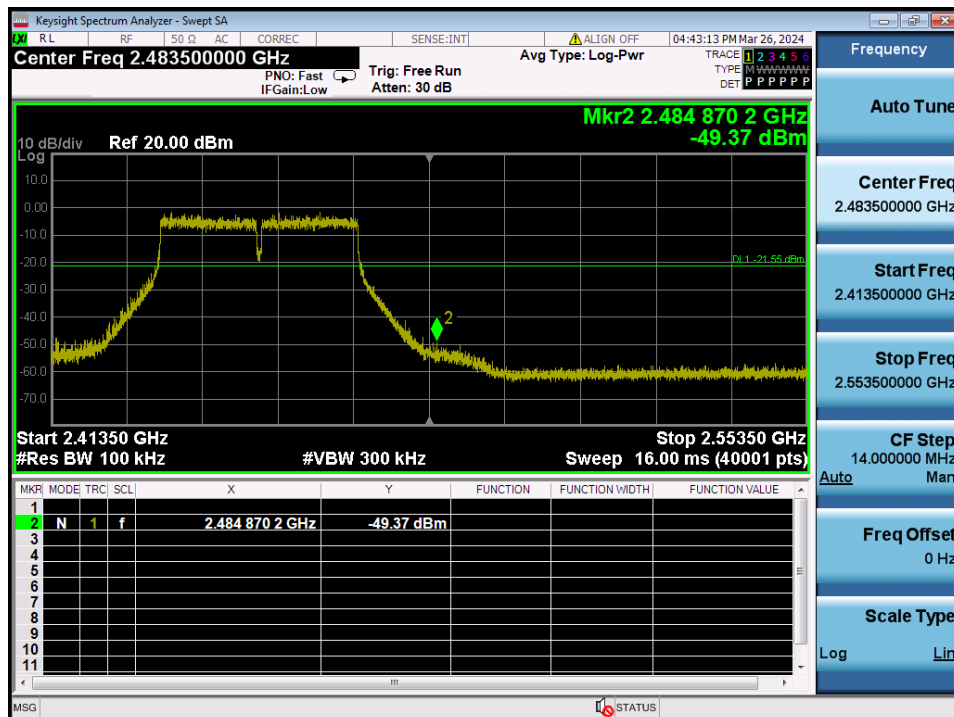


TM 4 & ANT 1 & 2 452

Reference



High Band-edge



Conducted Spurious Emissions

