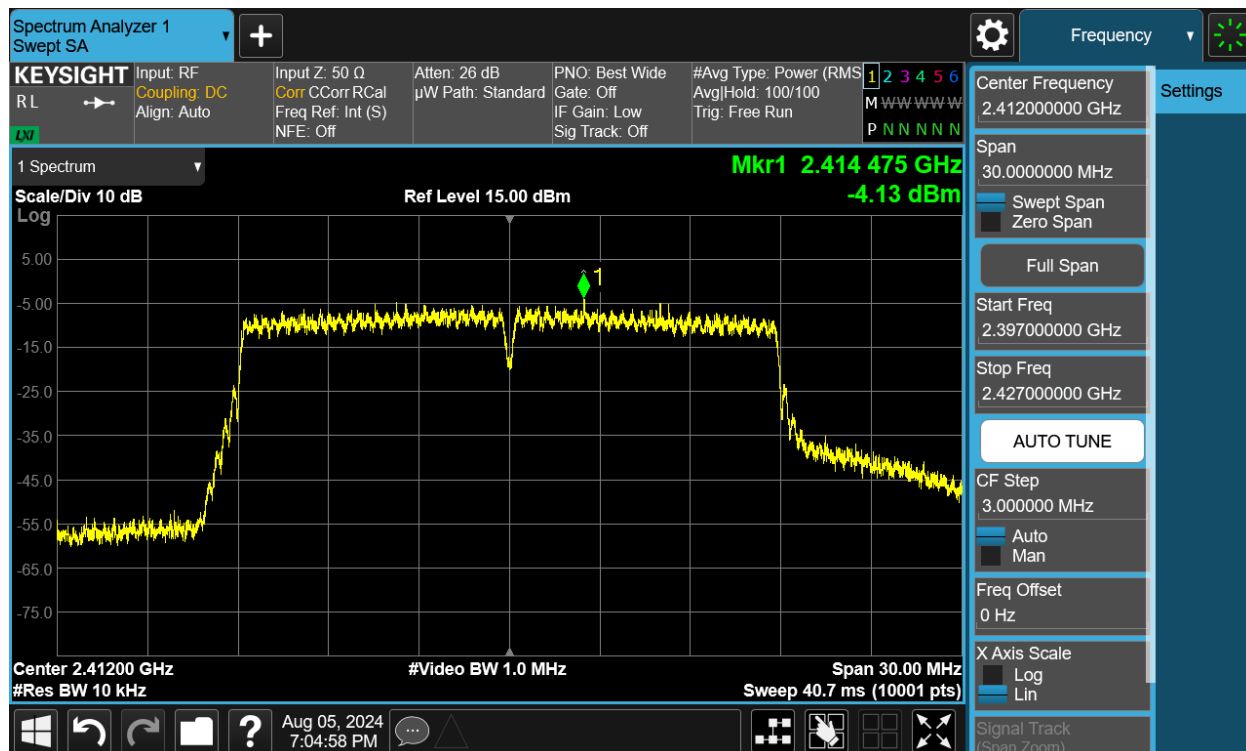
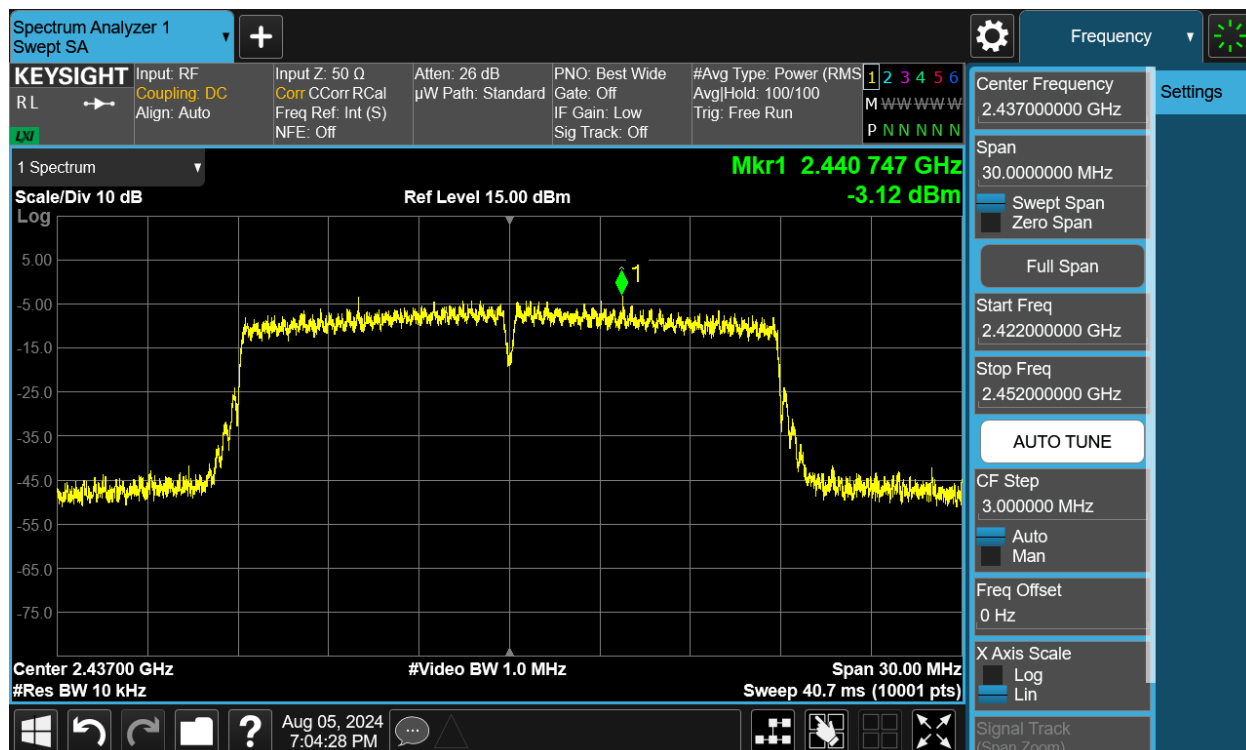


FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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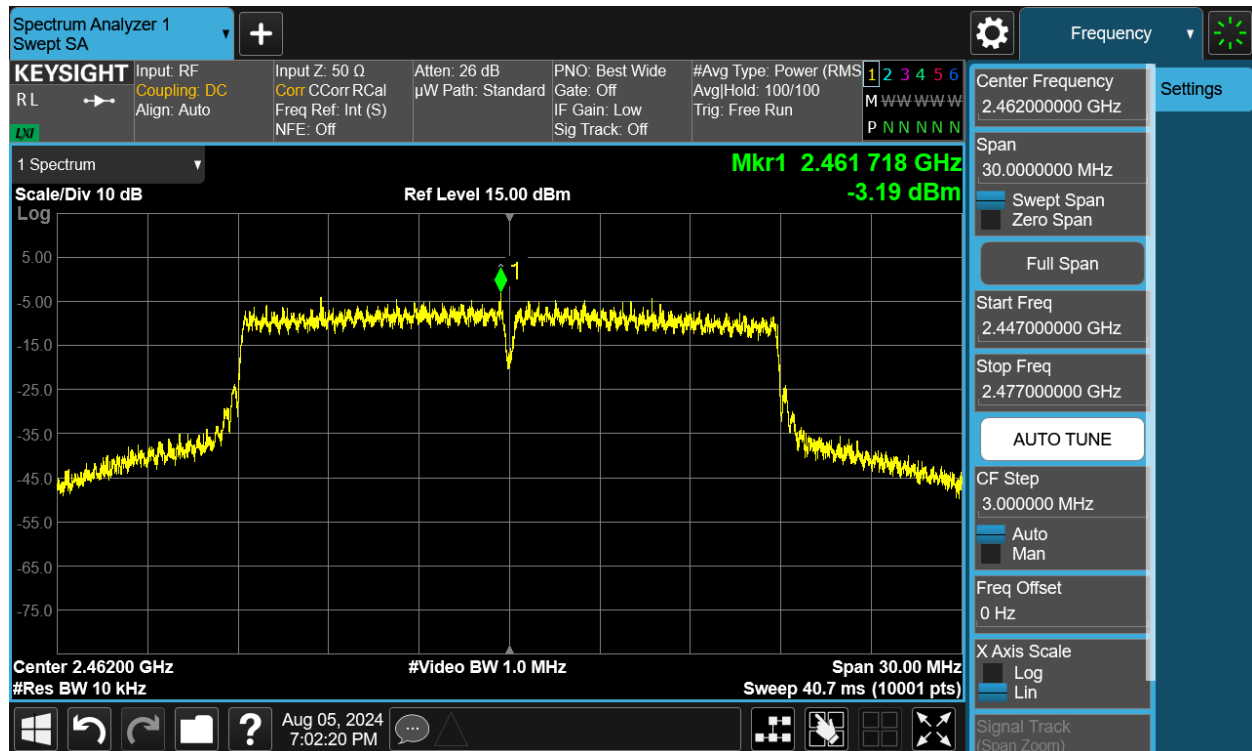


Plot 7-91. Power Spectral Density Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 1)

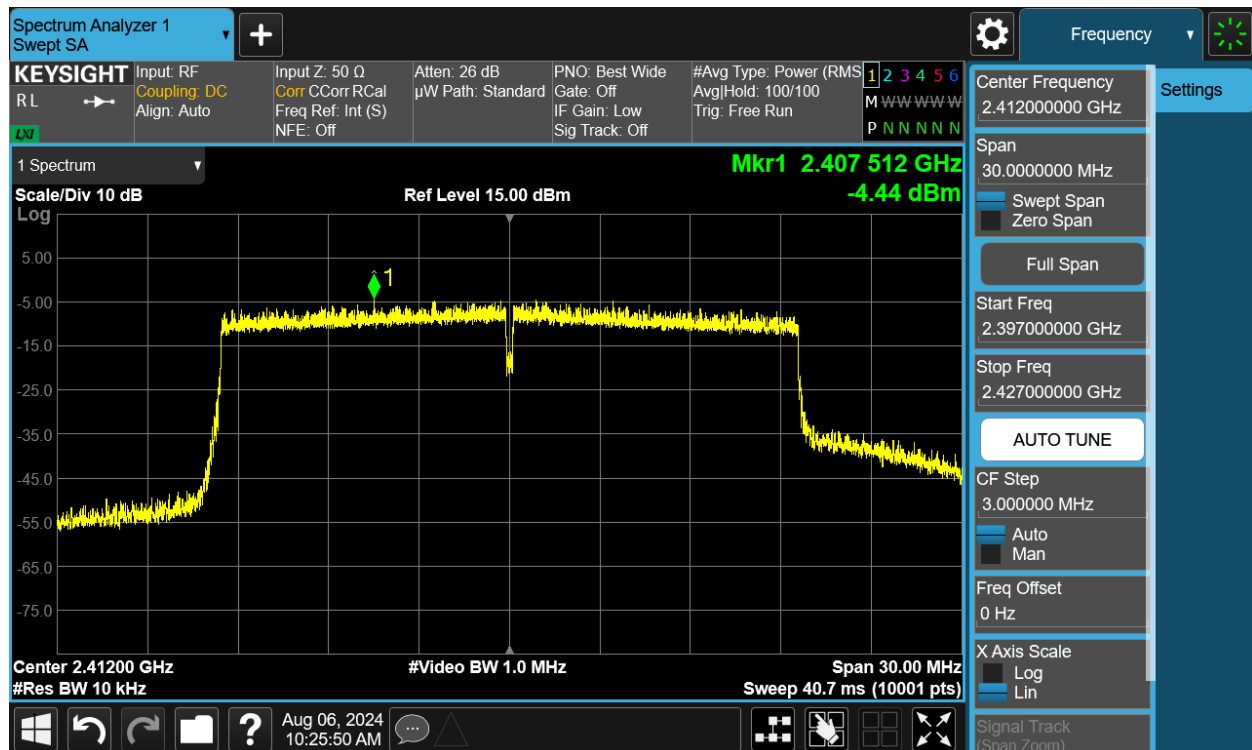


Plot 7-92. Power Spectral Density Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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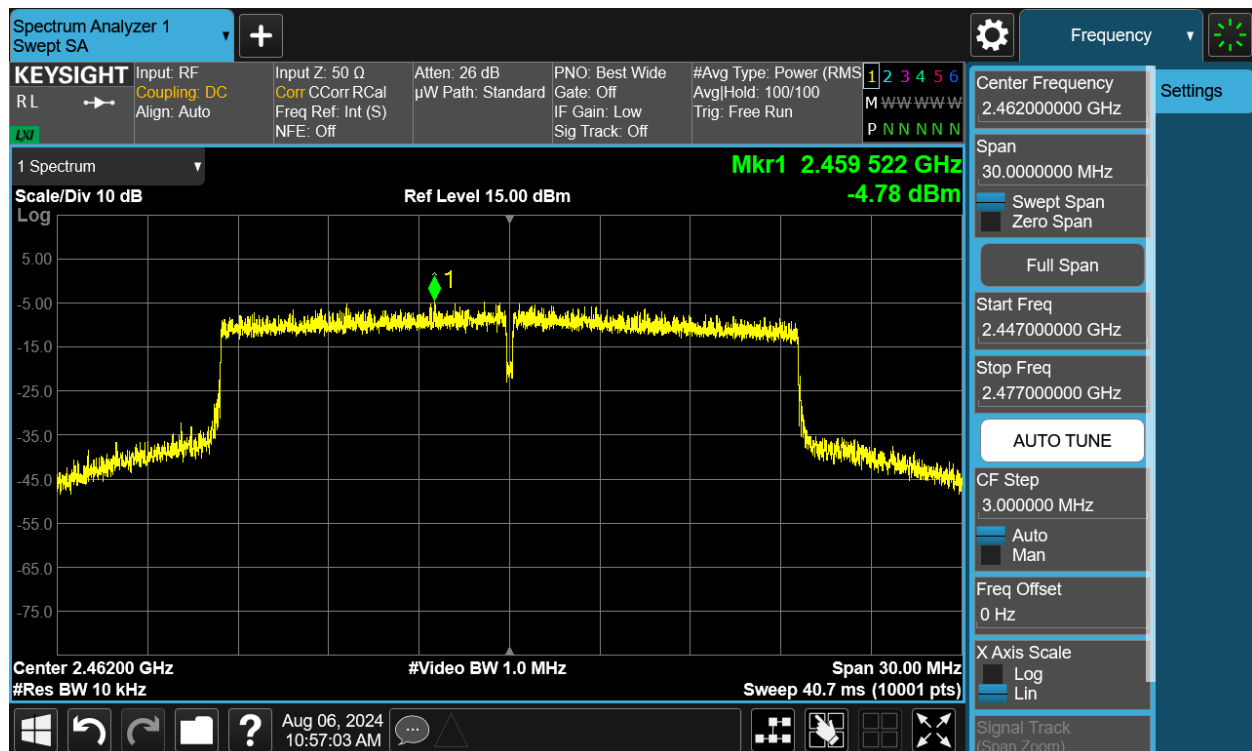


Plot 7-93. Power Spectral Density Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 11)



Plot 7-94. Power Spectral Density Plot MIMO ANT2 (802.11be (2.4GHz) – Ch. 1)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Note:

Per ANSI C63.10-2013 Section 14.3.1, the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted power spectral density was measured to be -3.30 dBm for Antenna 1 and -4.80 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(-3.30 \text{ dBm} + (-4.80) \text{ dBm}) = (0.47 \text{ mW} + 0.33 \text{ mW}) = 0.80 \text{ mW} = -0.98 \text{ dBm}$$

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7.5 Conducted Band Edge Emissions

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, 6.5\7.2Mbps for “n” mode, and 8.6Mbps for “be” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span} \backslash \text{RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



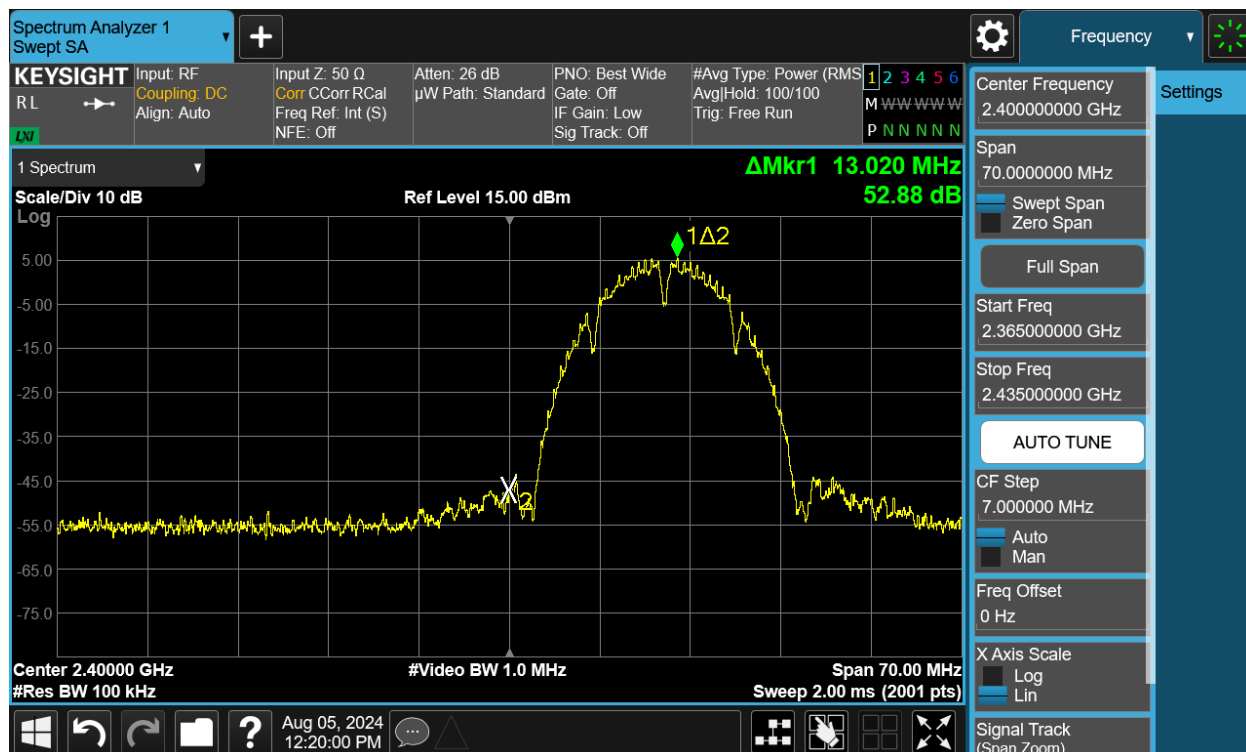
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

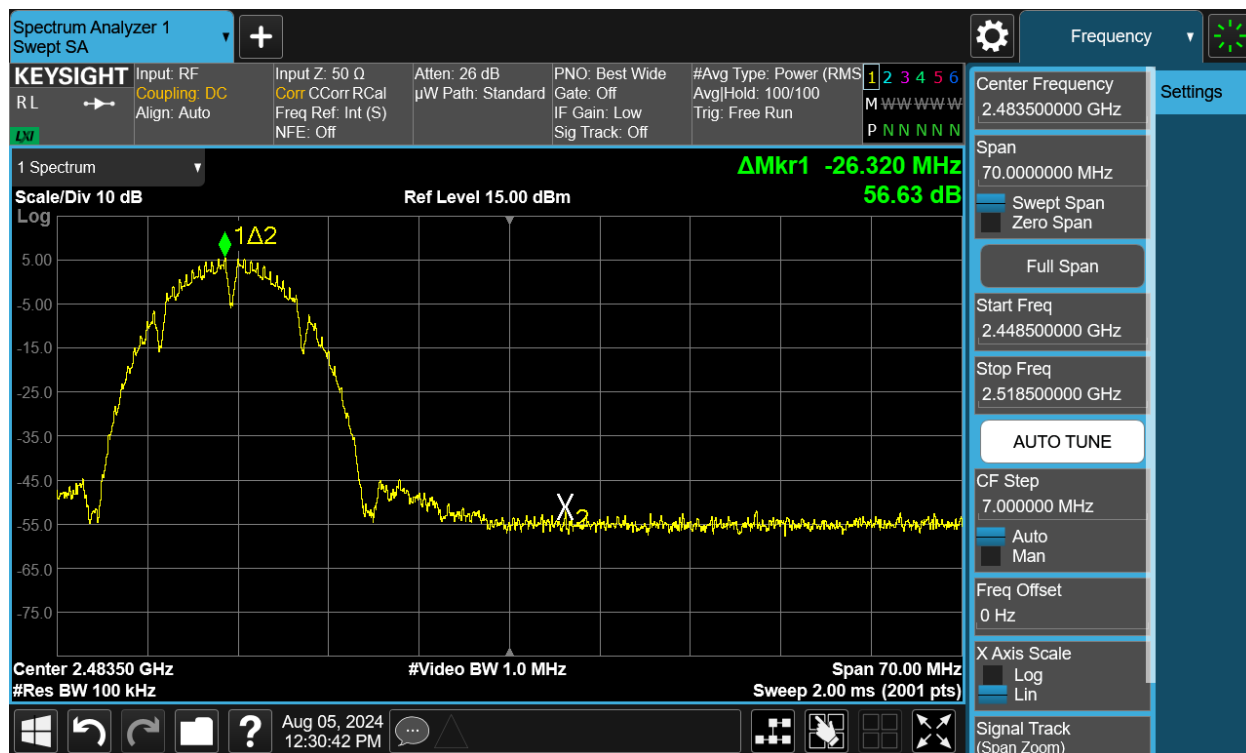
None.

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7.5.1 SISO Antenna-1 Conducted Band Edge Emissions

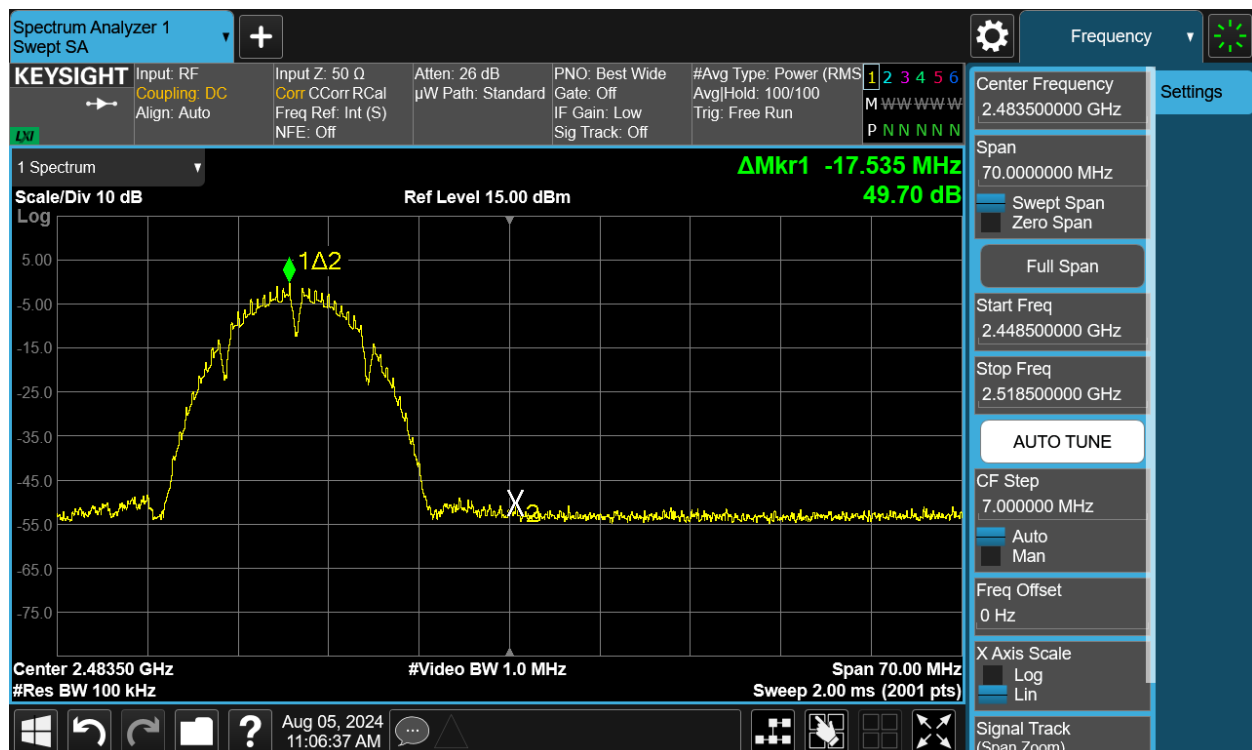


Plot 7-97. Band Edge Plot SISO ANT1 (802.11b – Ch. 1)

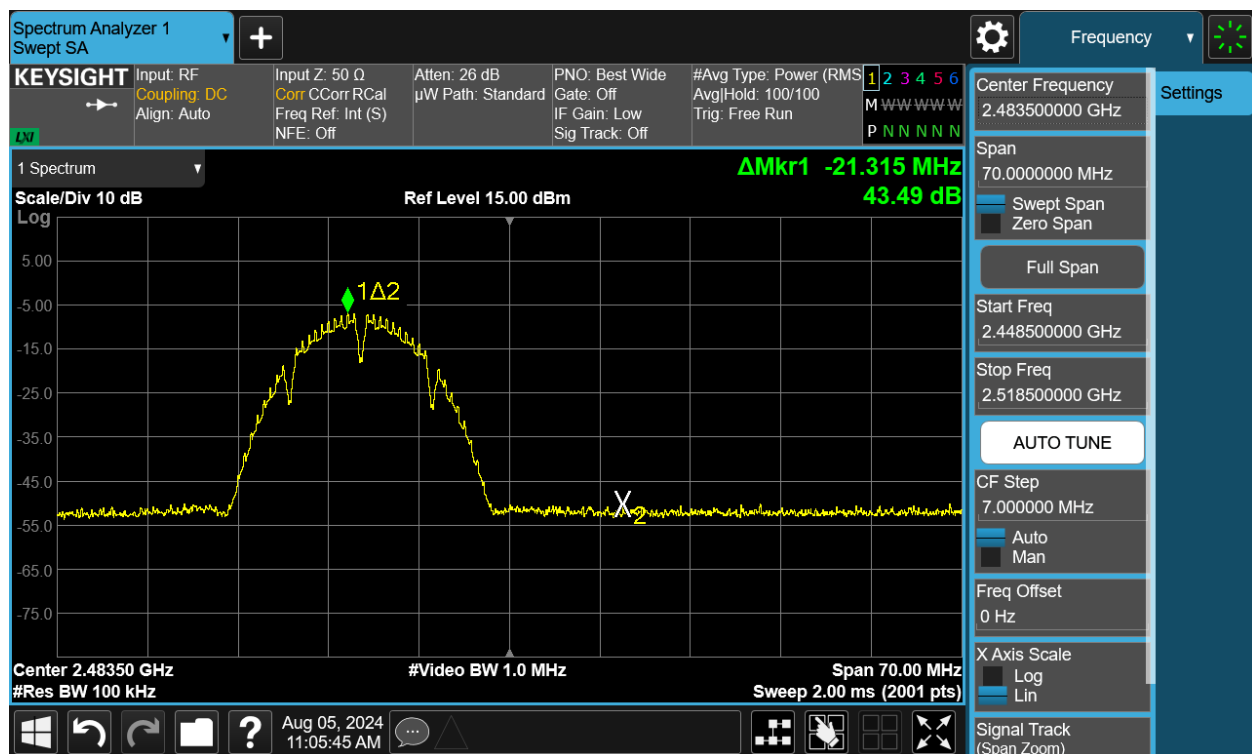


Plot 7-98. Band Edge Plot SISO ANT1 (802.11b – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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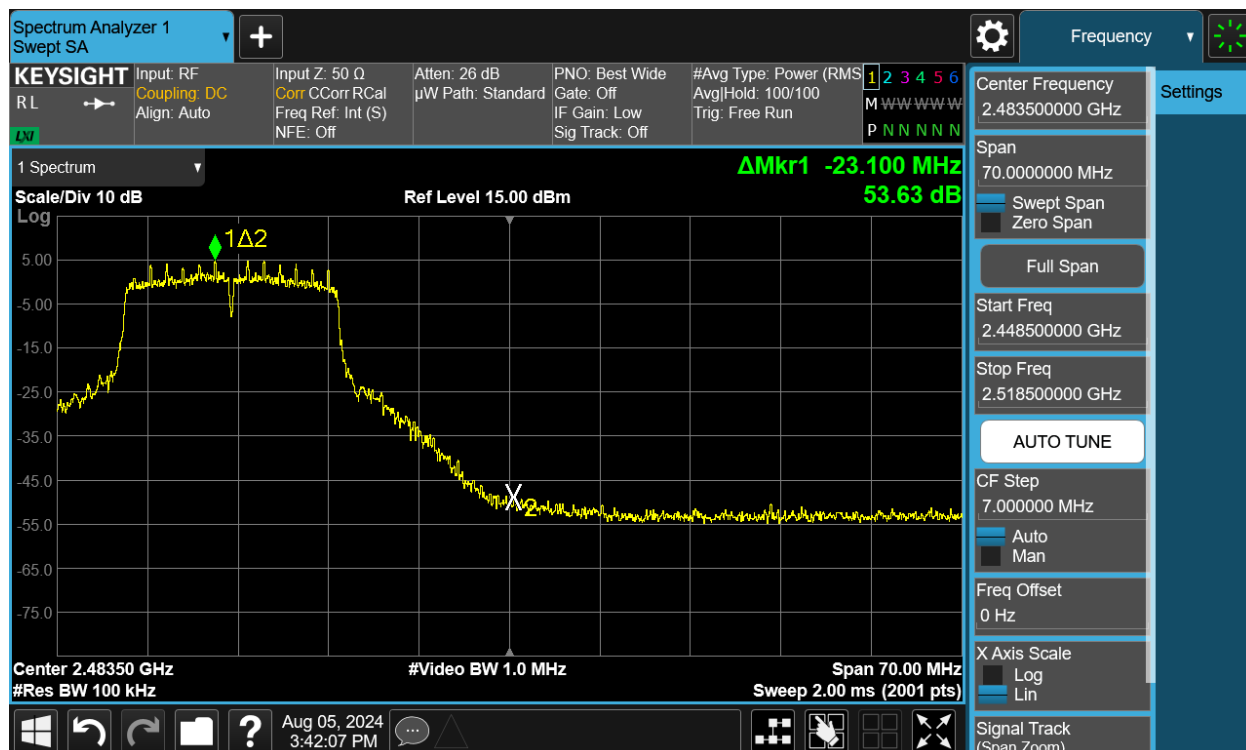


Plot 7-99. Band Edge Plot SISO ANT1 (802.11b – Ch. 12)

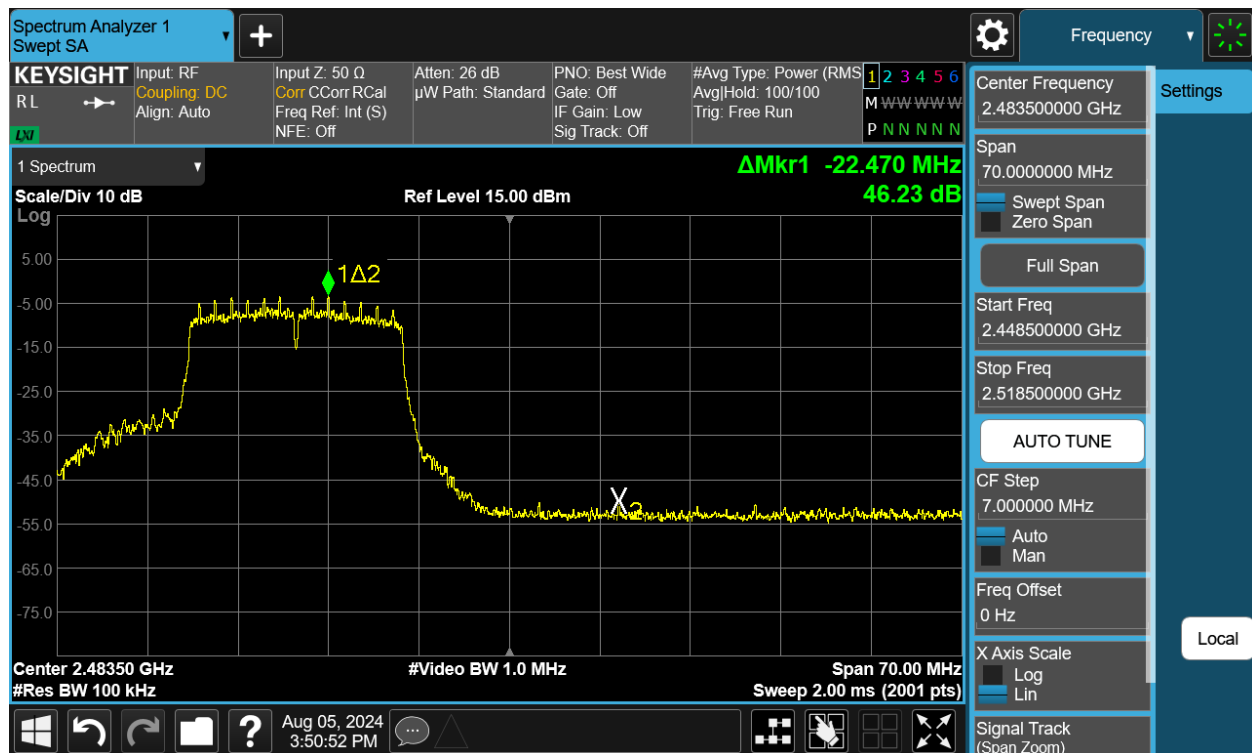


Plot 7-100. Band Edge Plot SISO ANT1 (802.11b – Ch. 13)

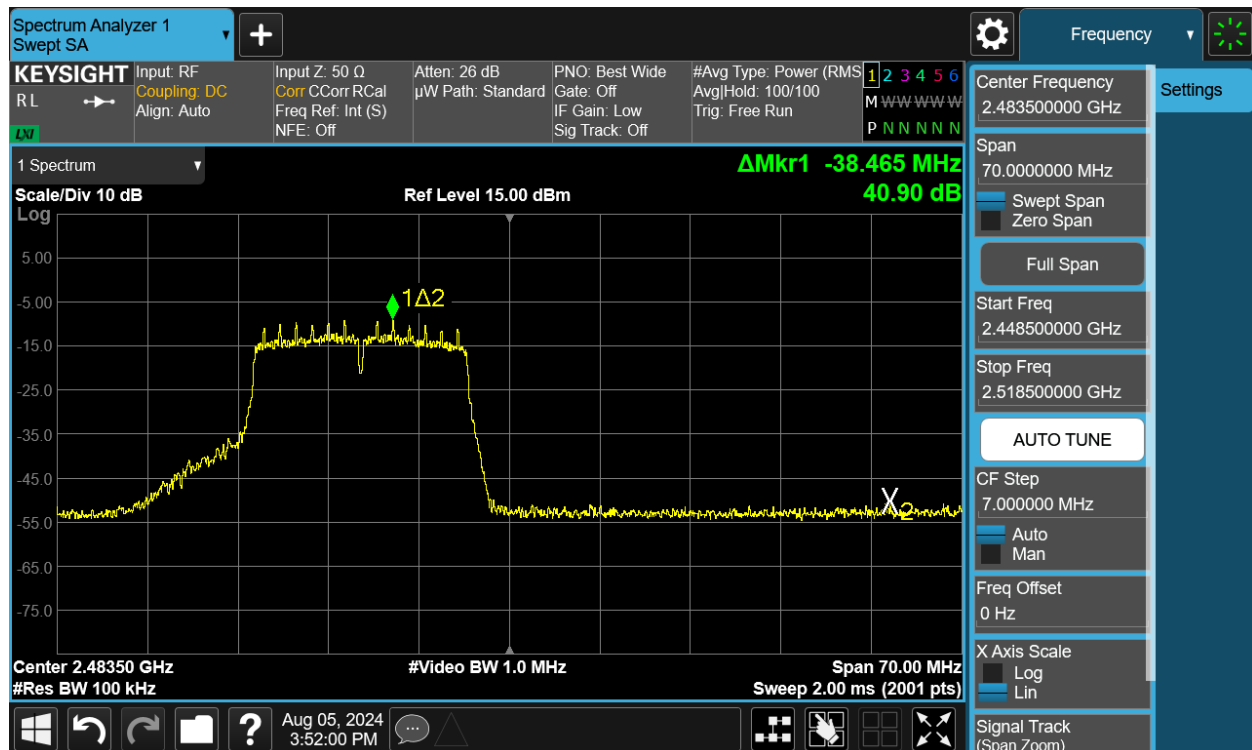
FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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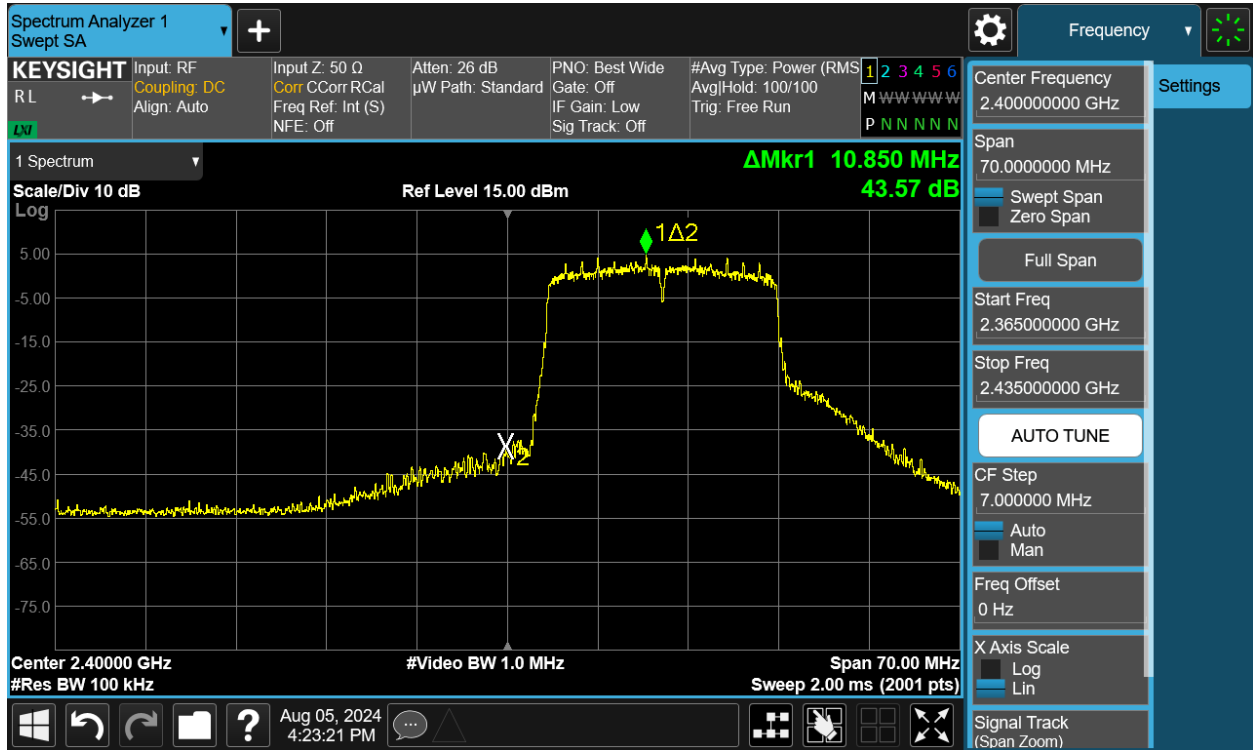


Plot 7-103. Band Edge Plot SISO ANT1 (802.11g– Ch. 12)

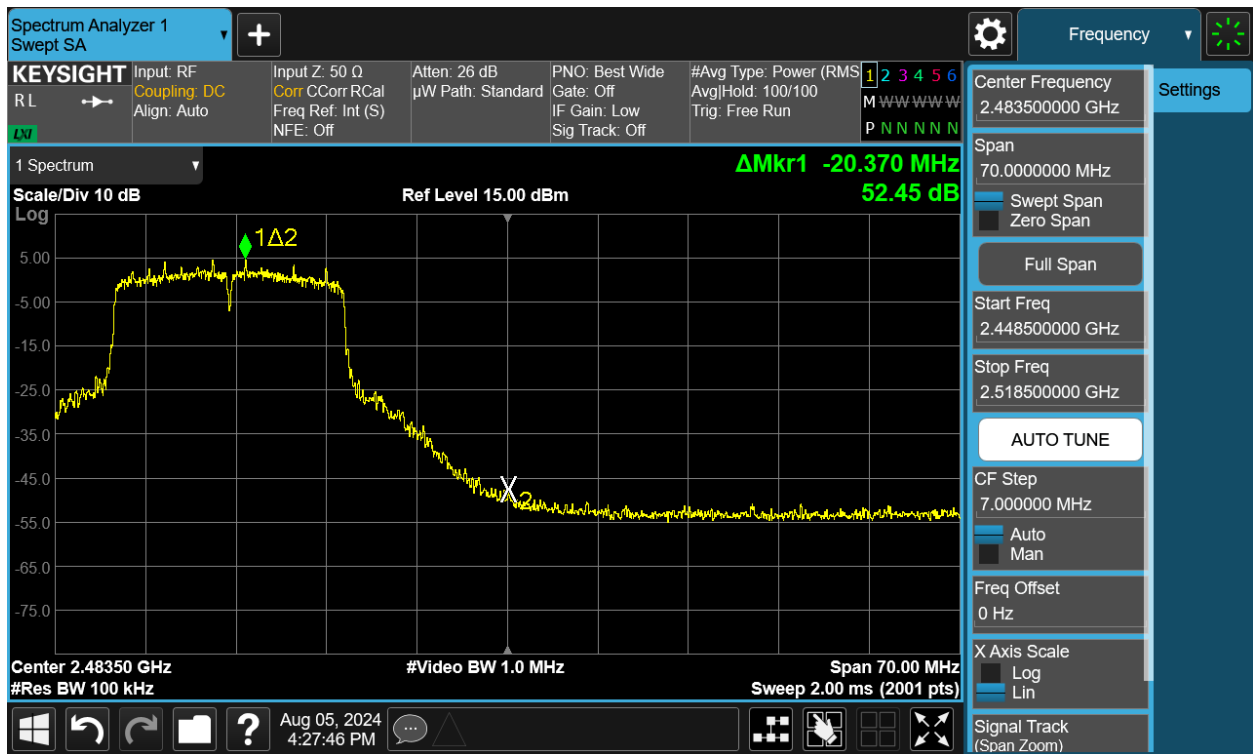


Plot 7-104. Band Edge Plot SISO ANT1 (802.11g – Ch. 13)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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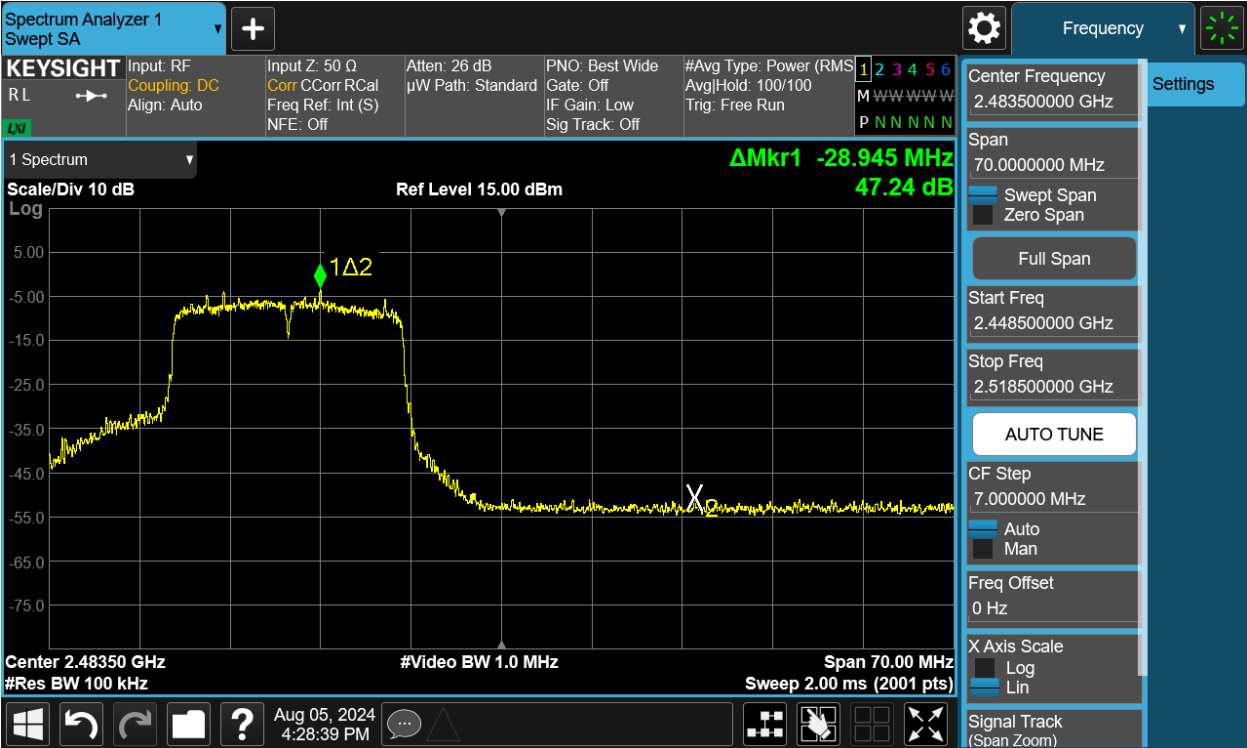


Plot 7-105. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)

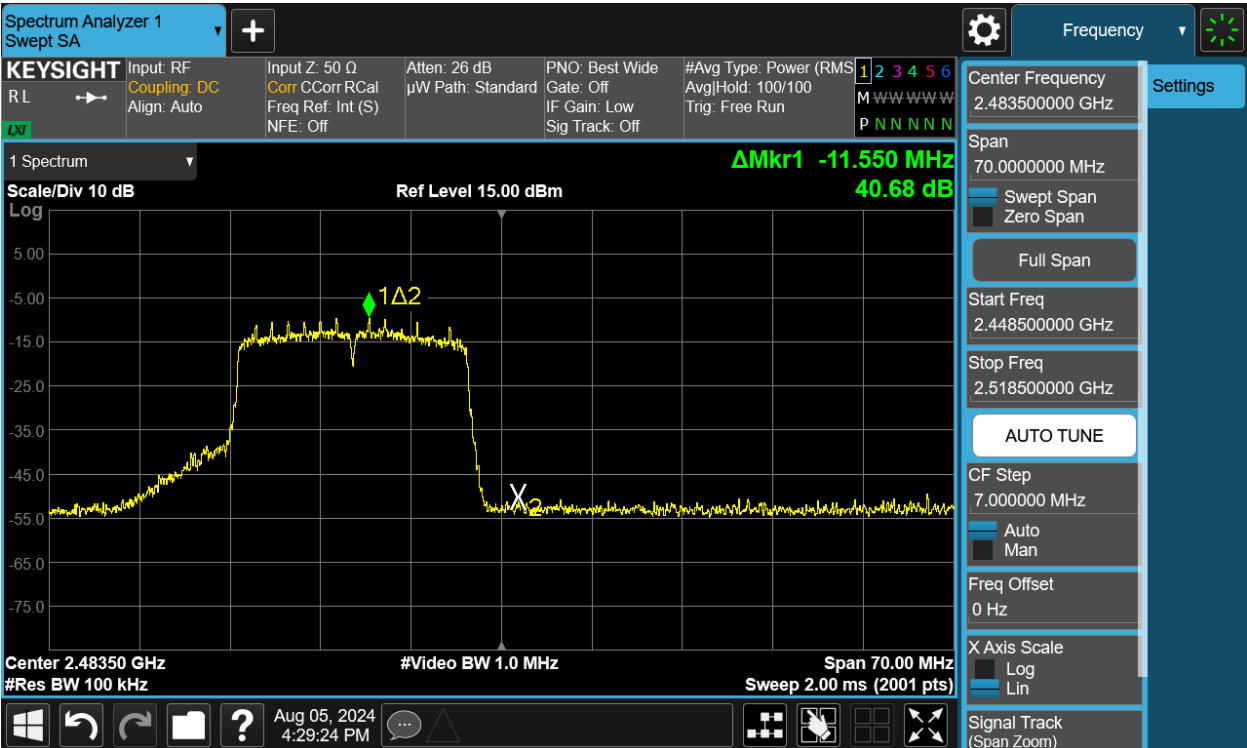


Plot 7-106. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-107. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 12)



Plot 7-108. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 13)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 83 of 150

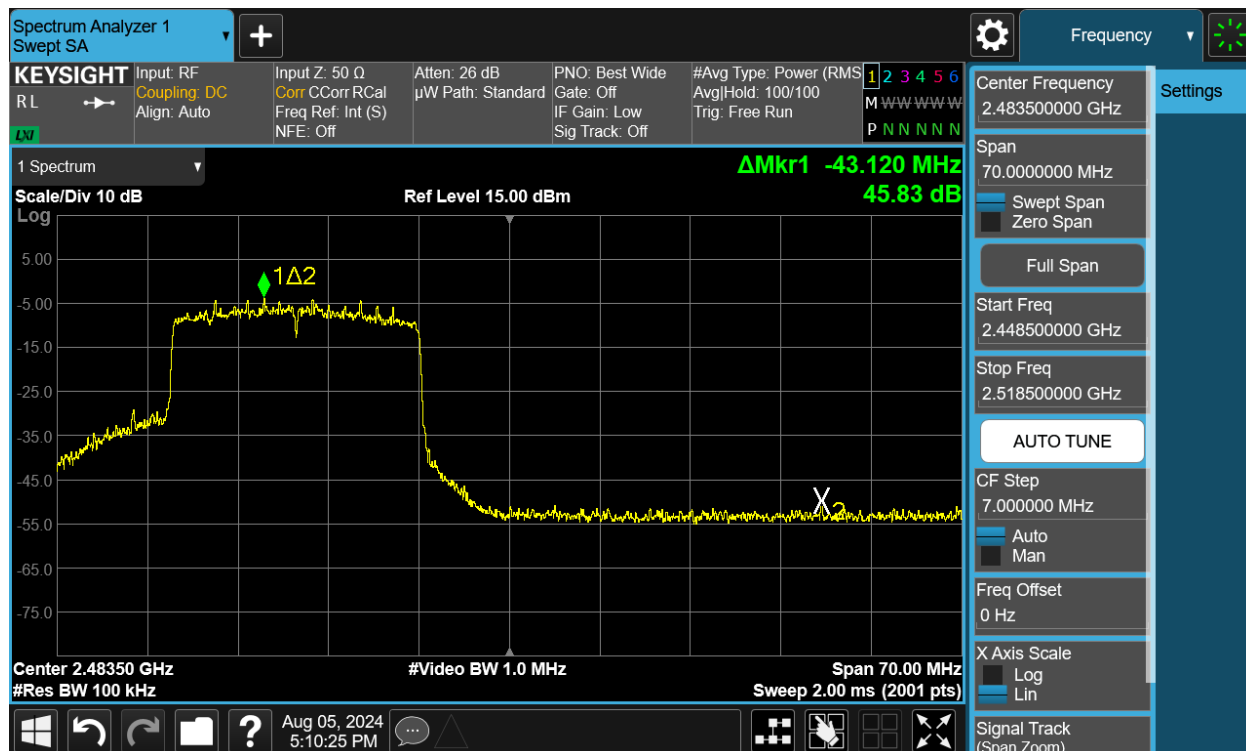


Plot 7-109. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) – Ch. 1)

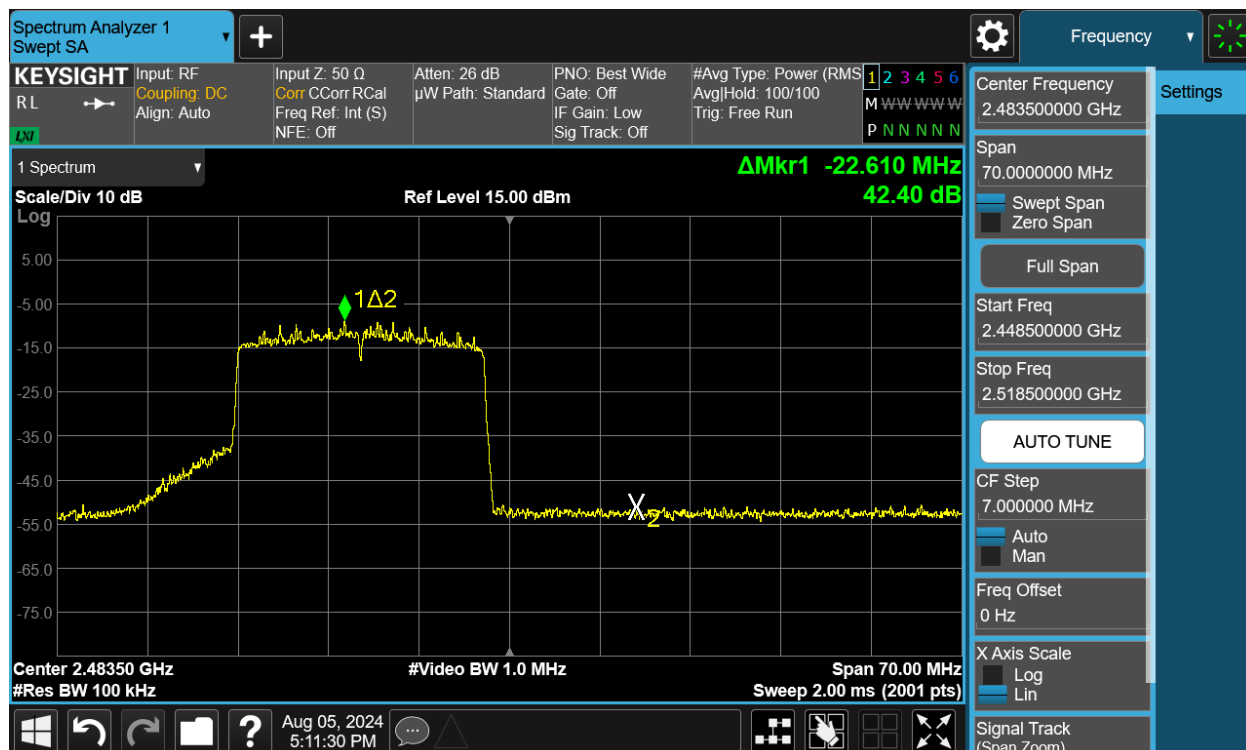


Plot 7-110. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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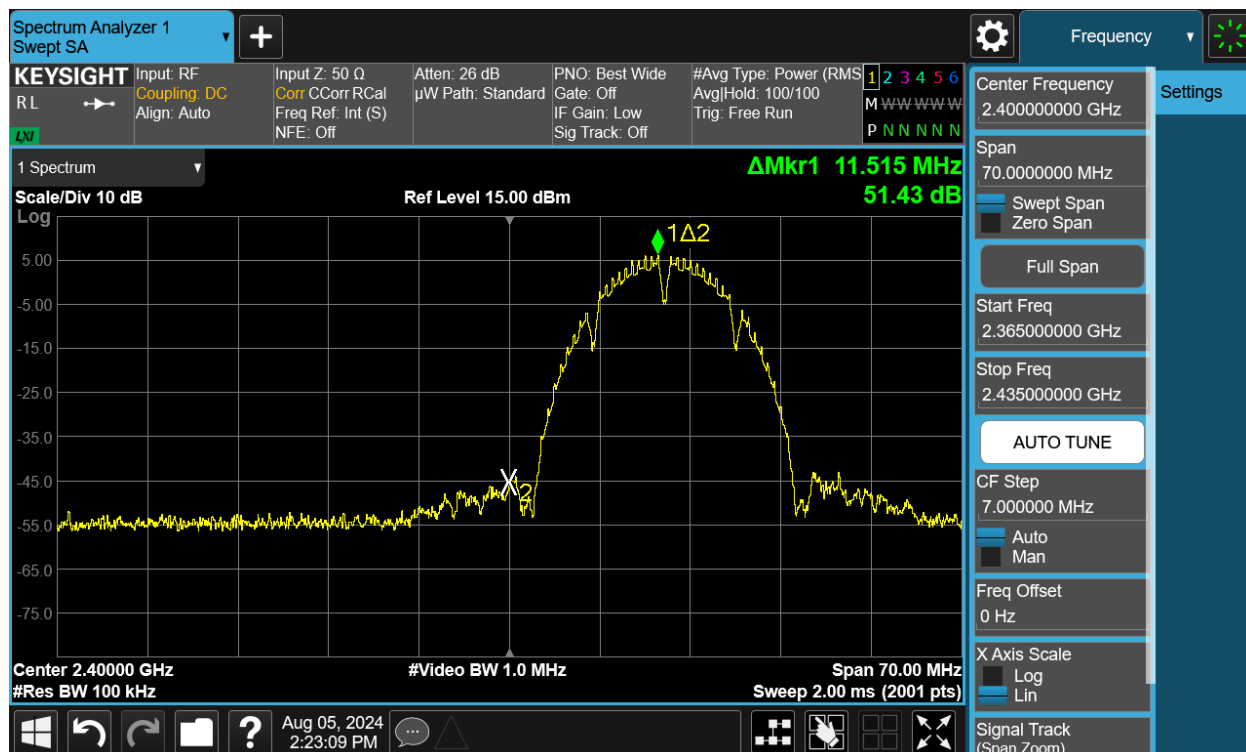
Plot 7-111. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) – Ch. 12)



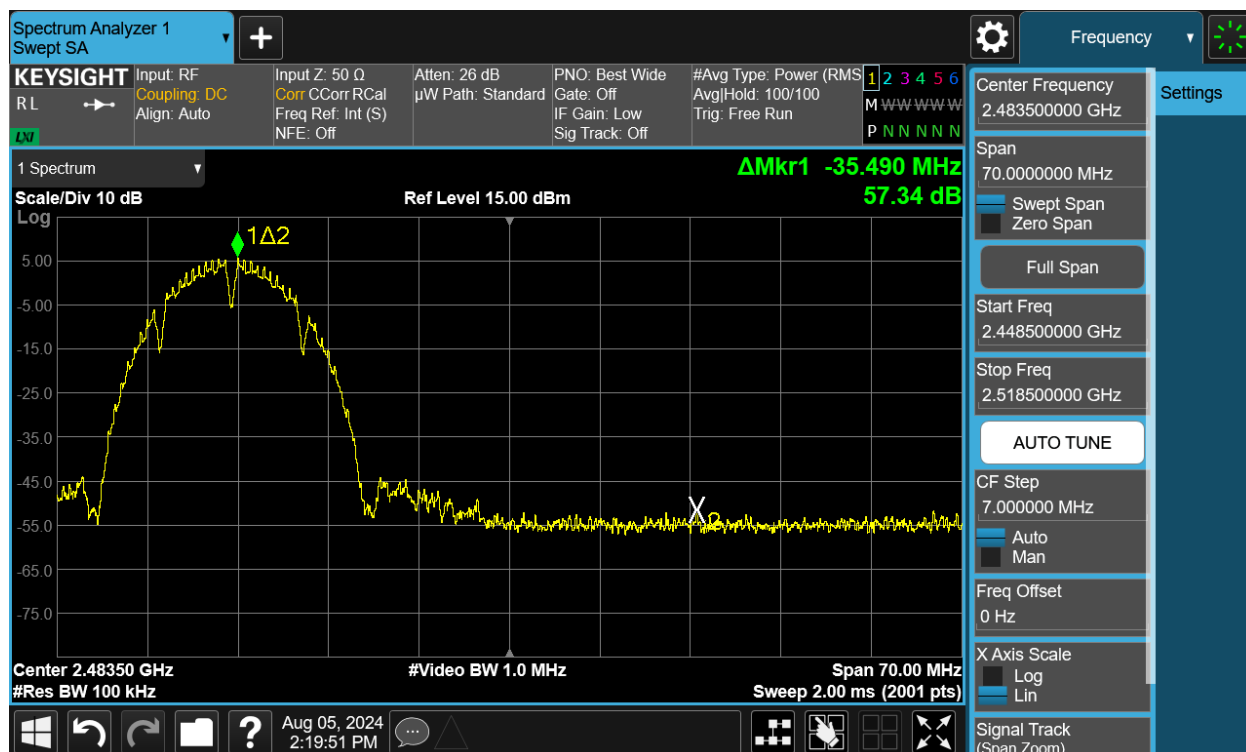
Plot 7-112. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) – Ch. 13)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.5.2 SISO Antenna-2 Conducted Band Edge Emissions

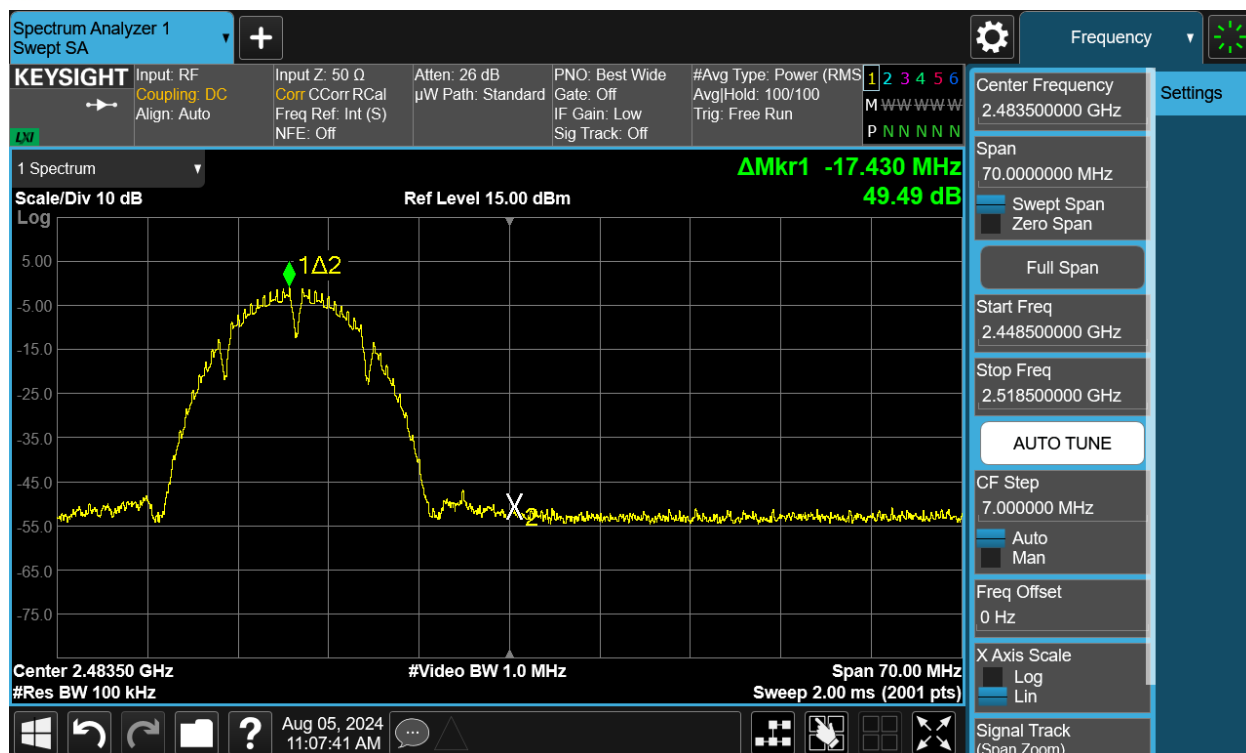


Plot 7-113. Band Edge Plot SISO ANT2 (802.11b – Ch. 1)

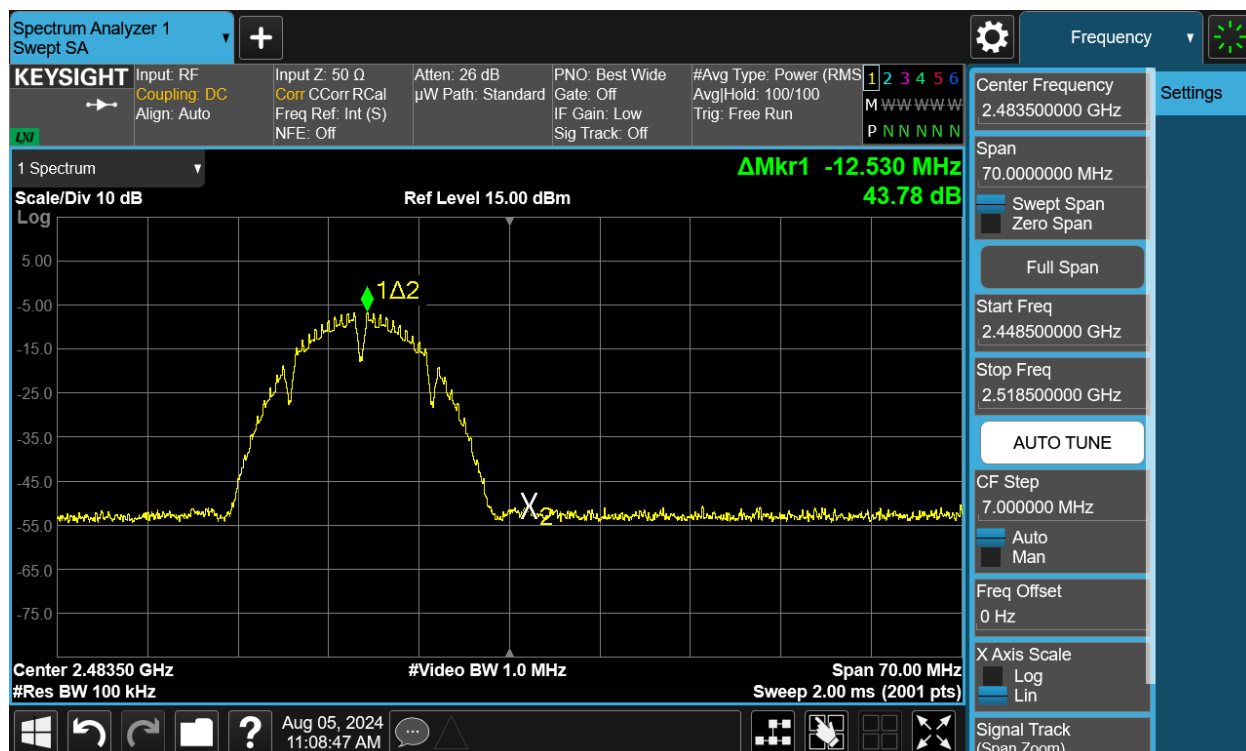


Plot 7-114. Band Edge Plot SISO ANT2 (802.11b – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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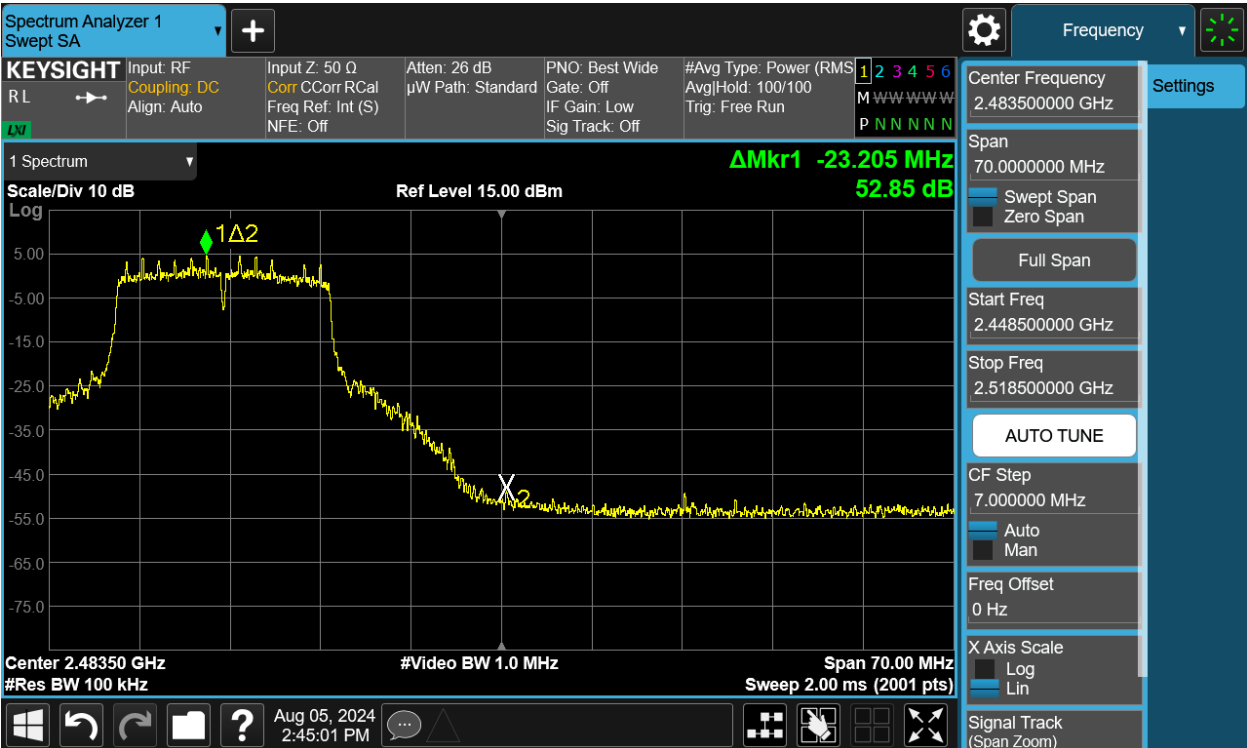
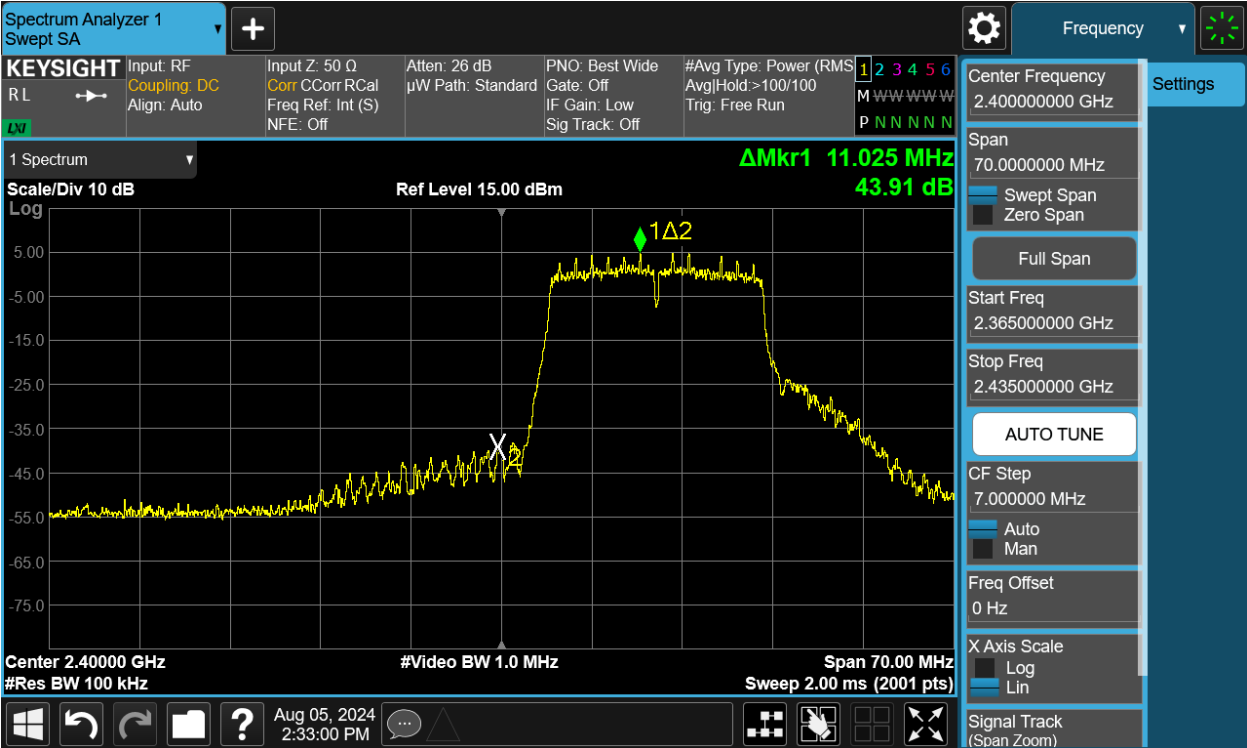


Plot 7-115. Band Edge Plot SISO ANT2 (802.11b – Ch. 12)

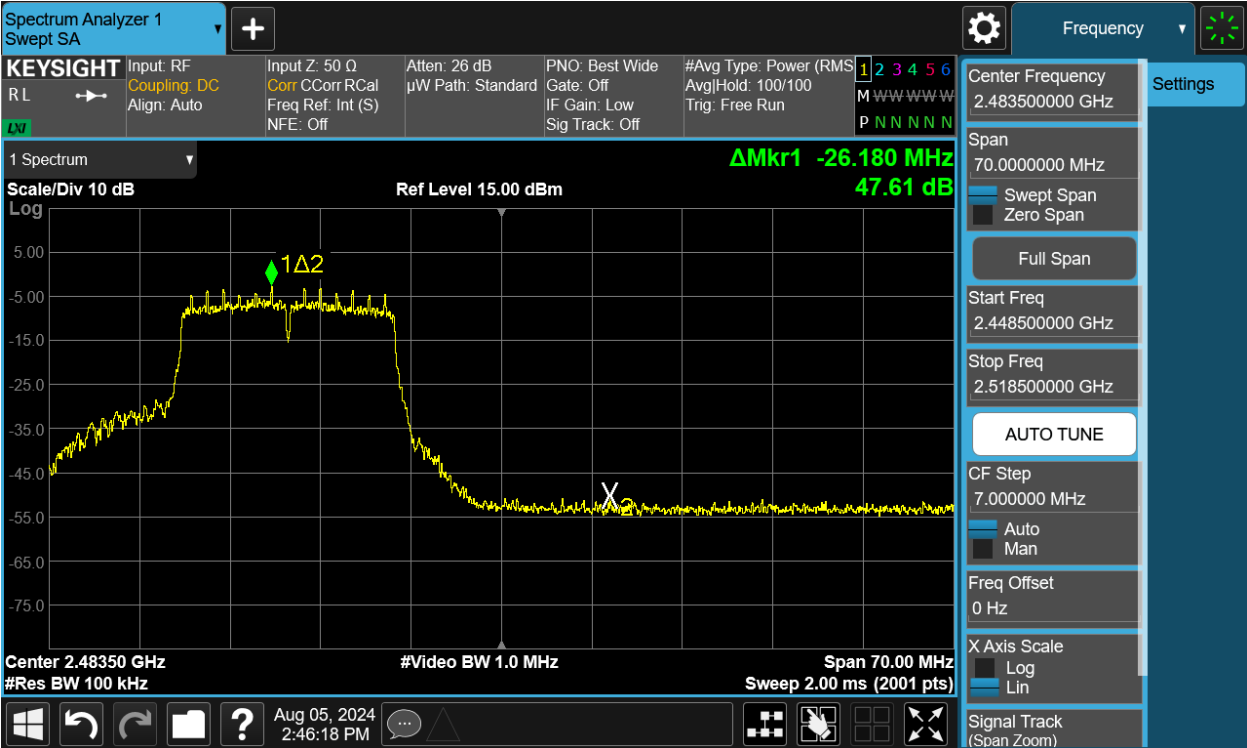


Plot 7-116. Band Edge Plot SISO ANT2 (802.11b – Ch. 13)

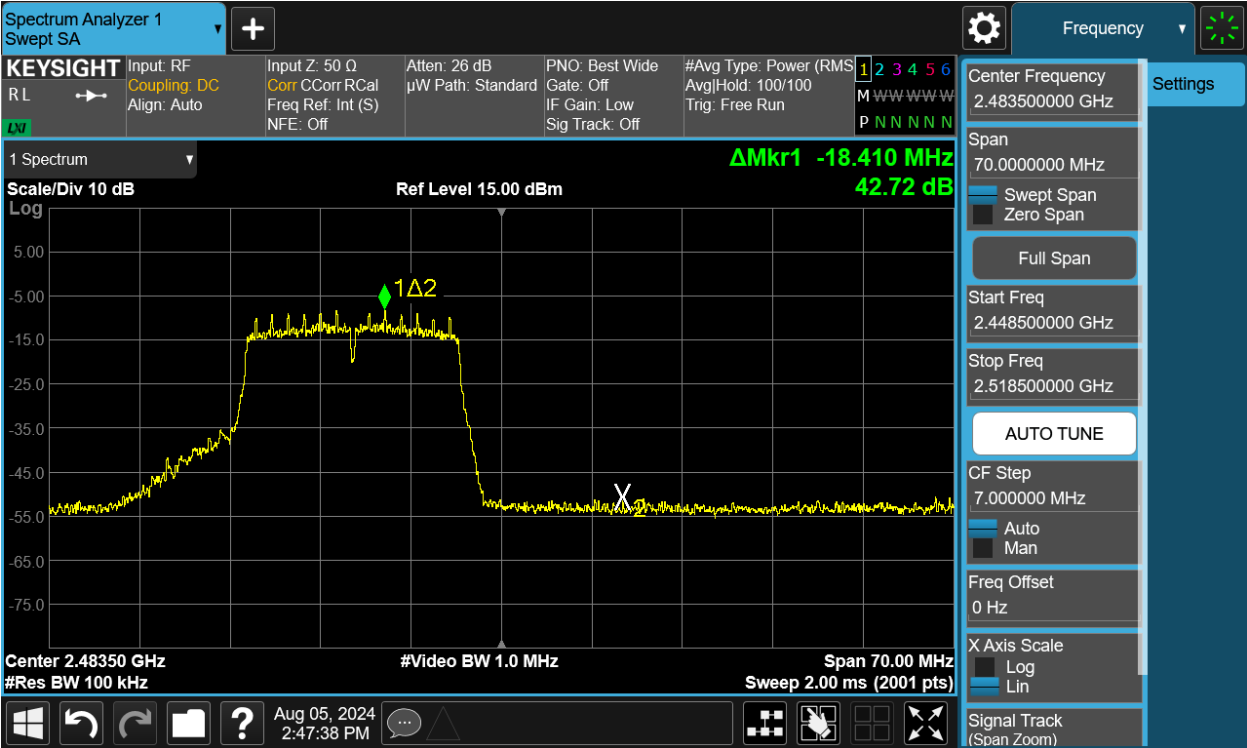
FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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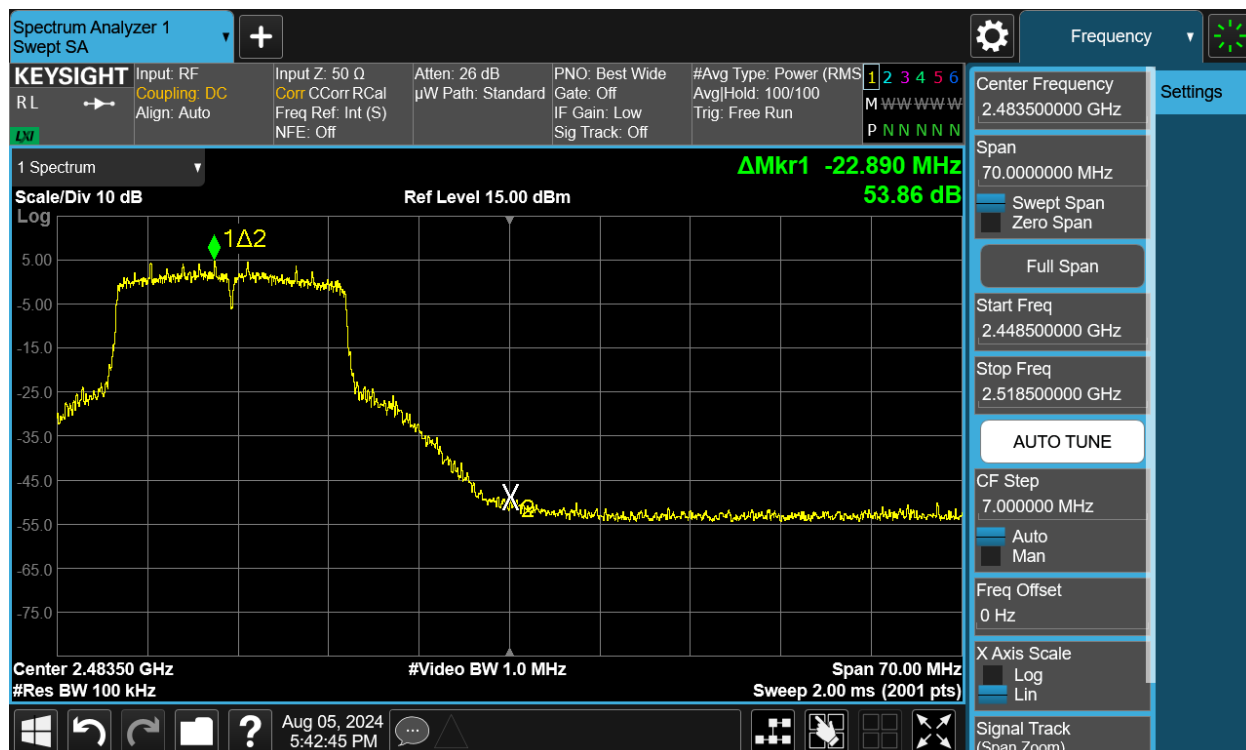
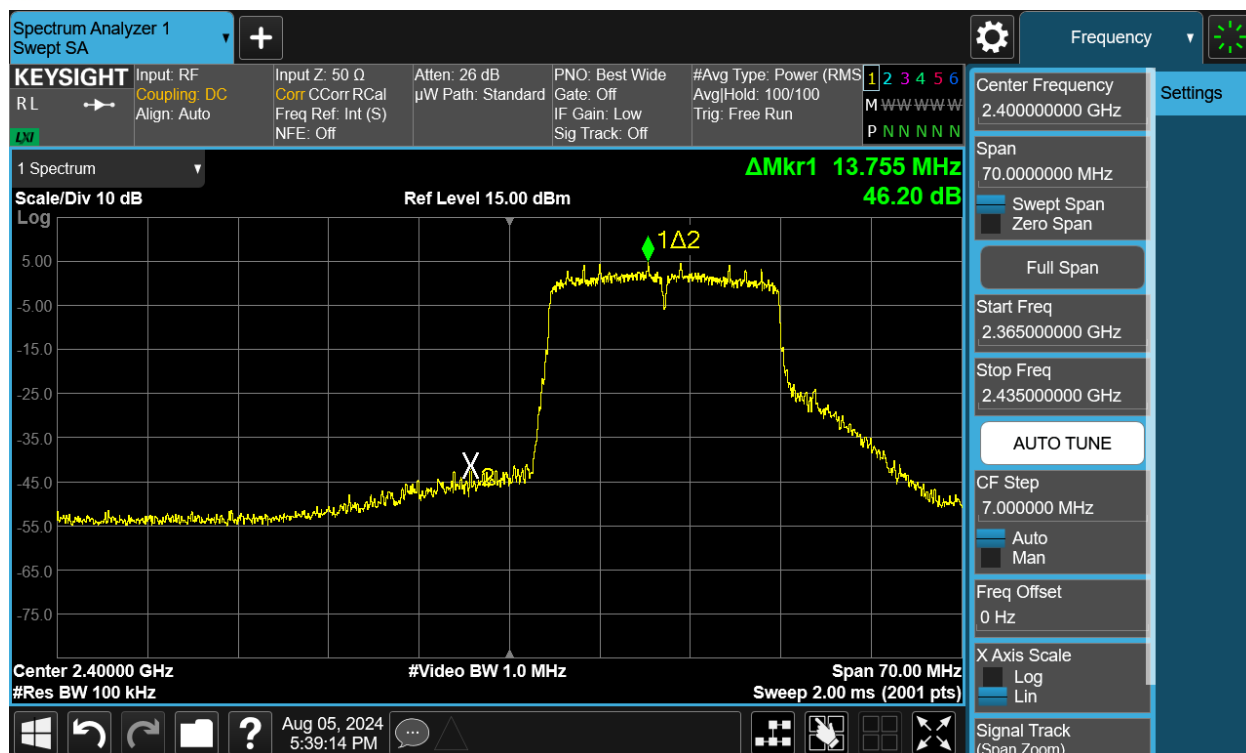


Plot 7-119. Band Edge Plot SISO ANT2 (802.11g– Ch. 12)

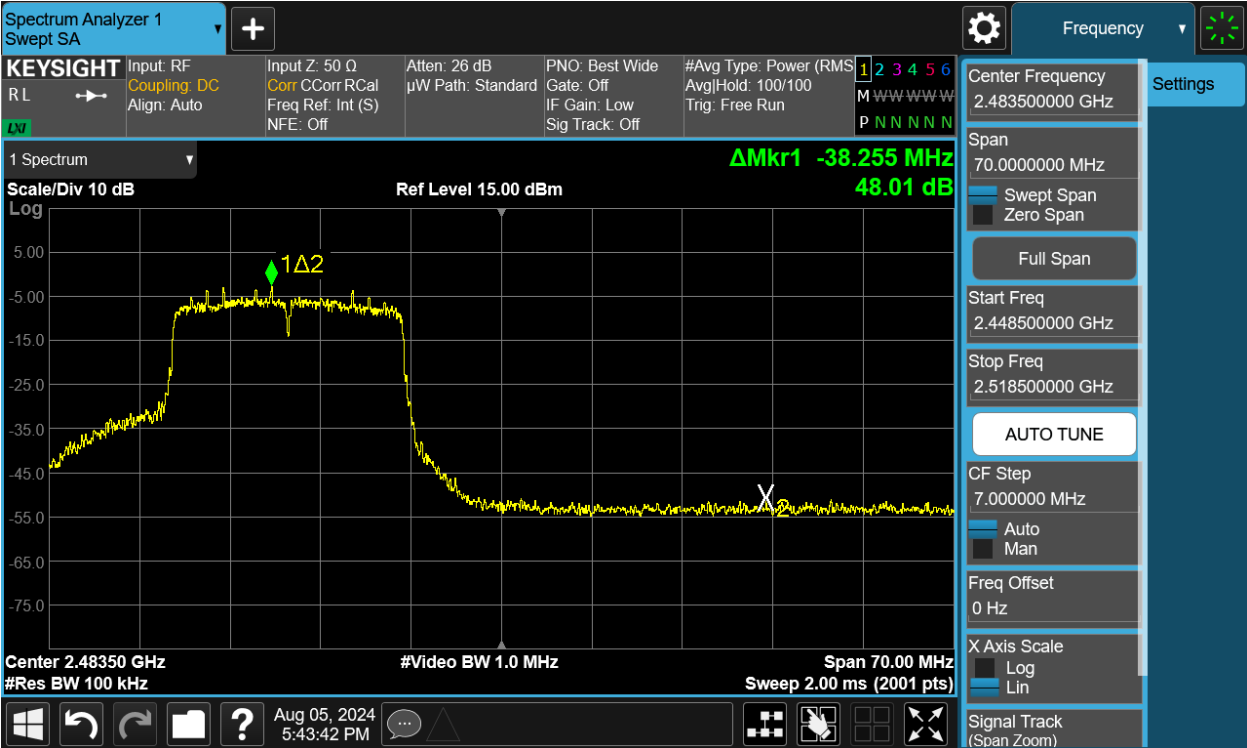


Plot 7-120. Band Edge Plot SISO ANT2 (802.11g – Ch. 13)

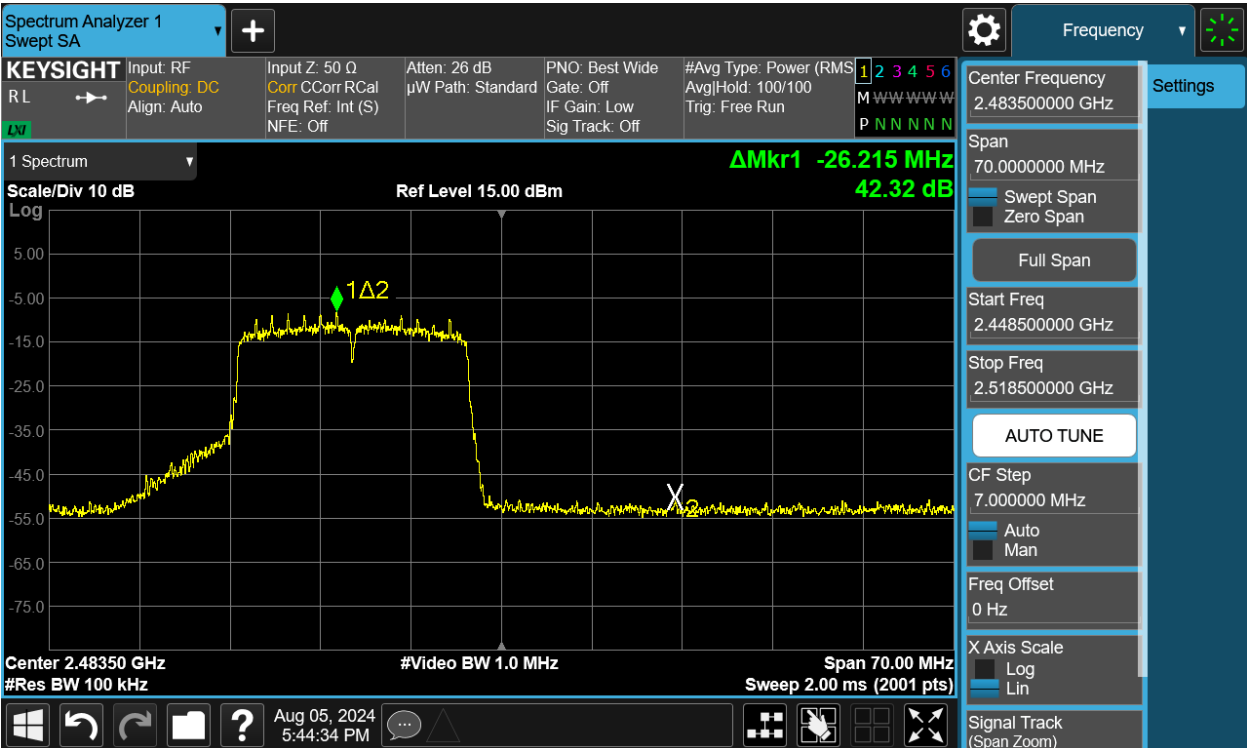
FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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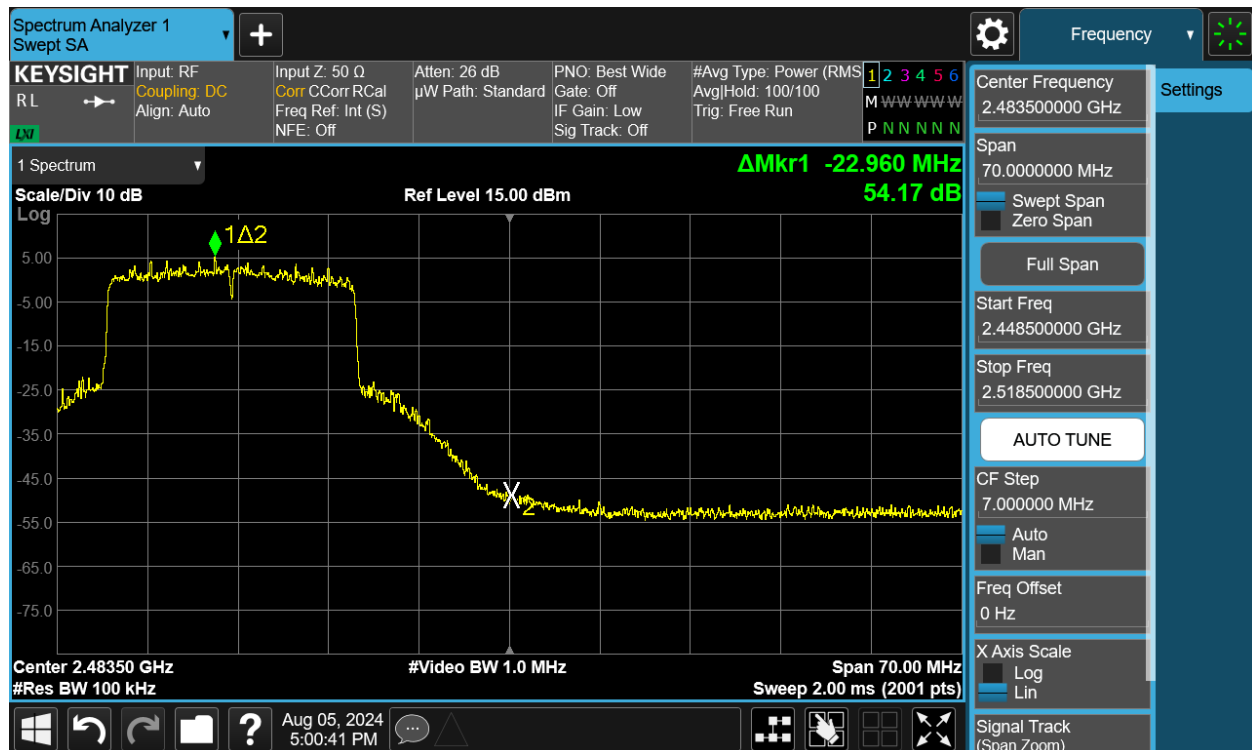


Plot 7-123. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 12)

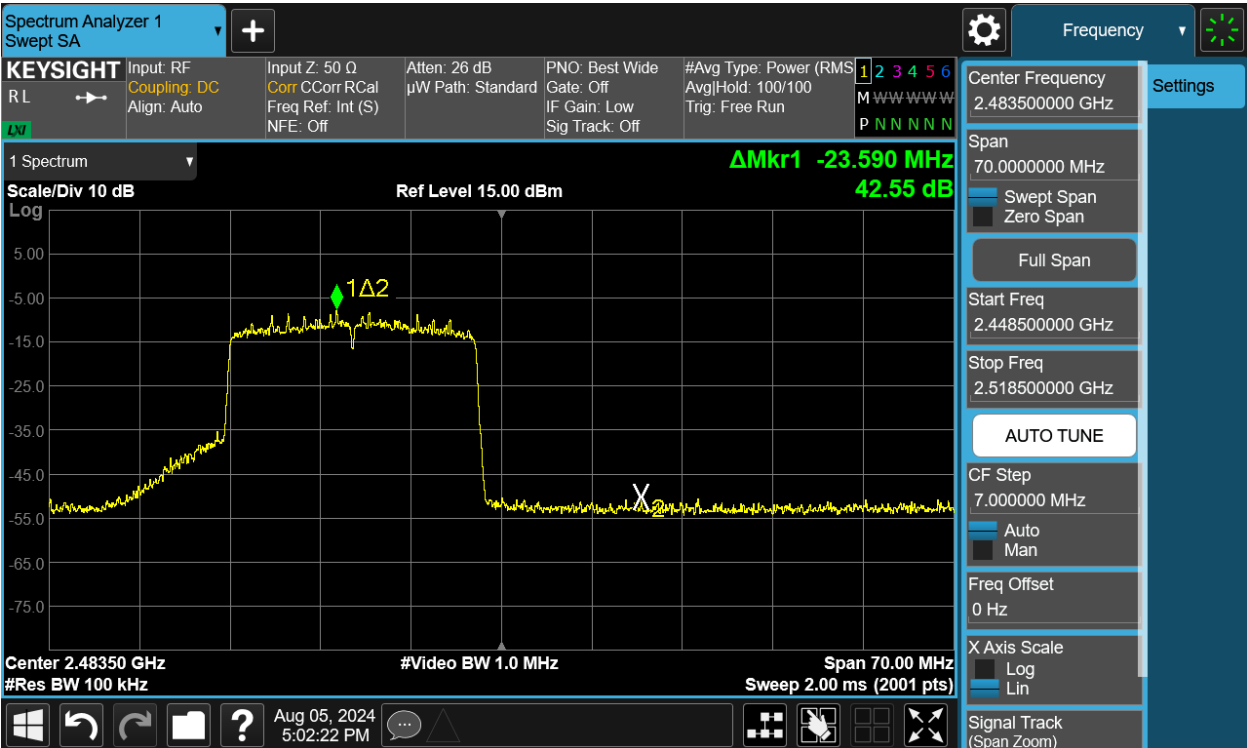
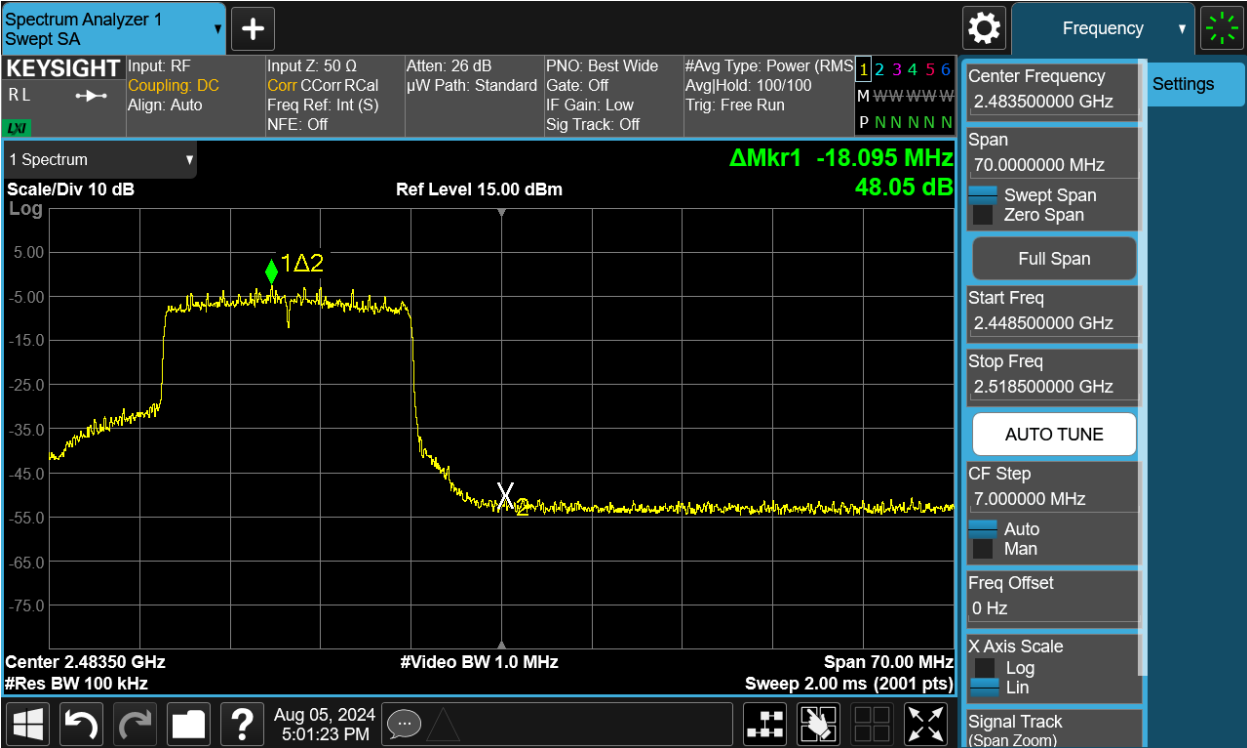


Plot 7-124. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 13)

FCC ID: A3LSMX920		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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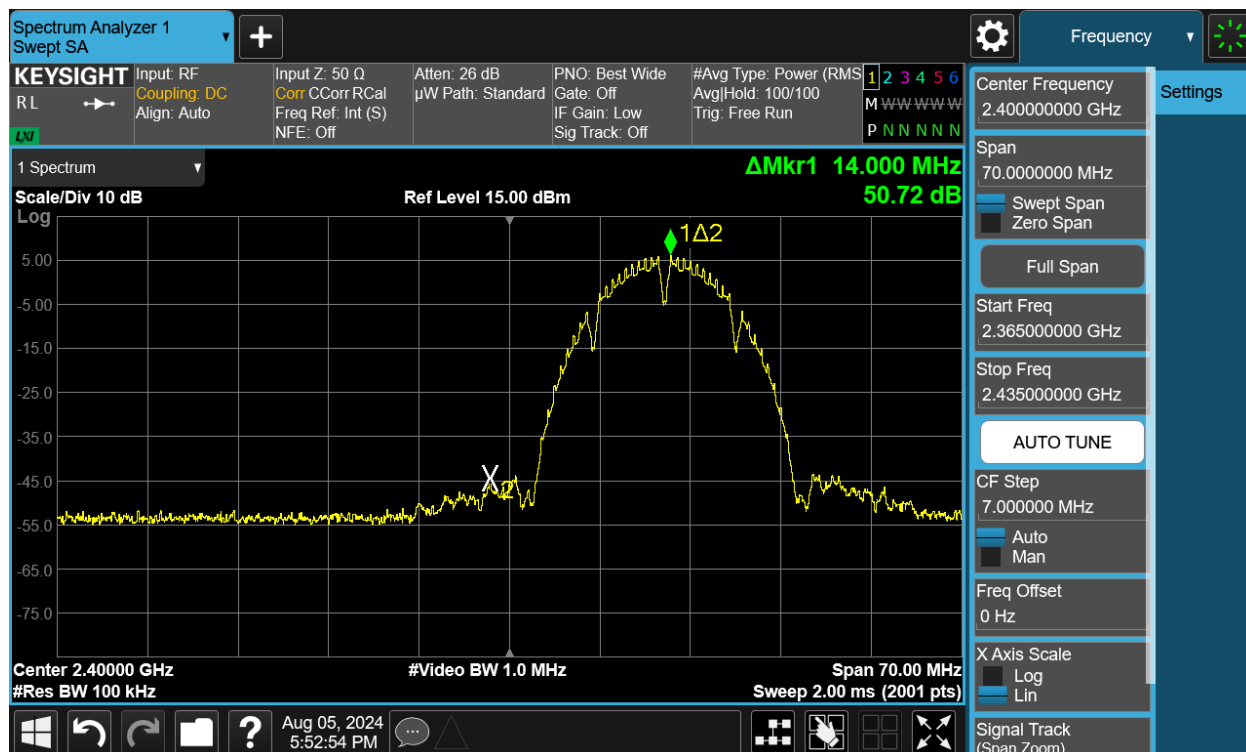


FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2405140042-03.A3L	Test Dates: 06/17/2024 - 08/08/2024	EUT Type: Portable Tablet	Page 92 of 150

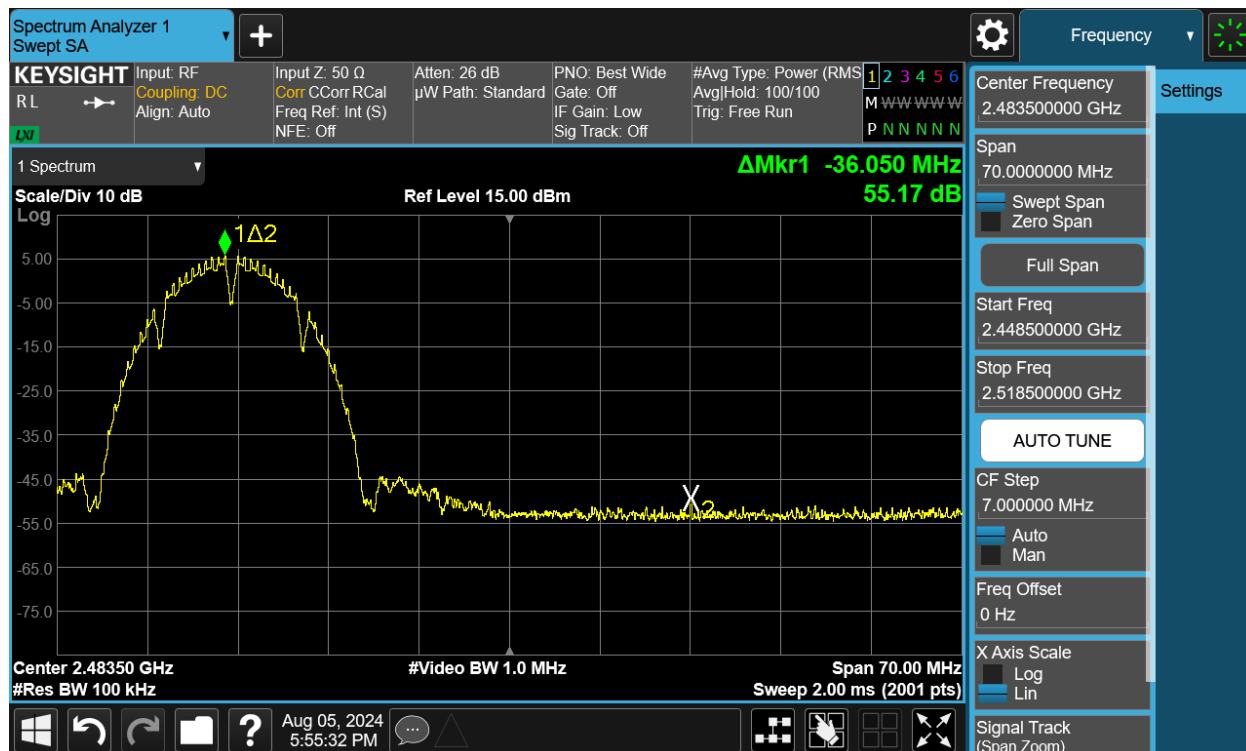


FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.5.3 MIMO Conducted Band Edge Emissions

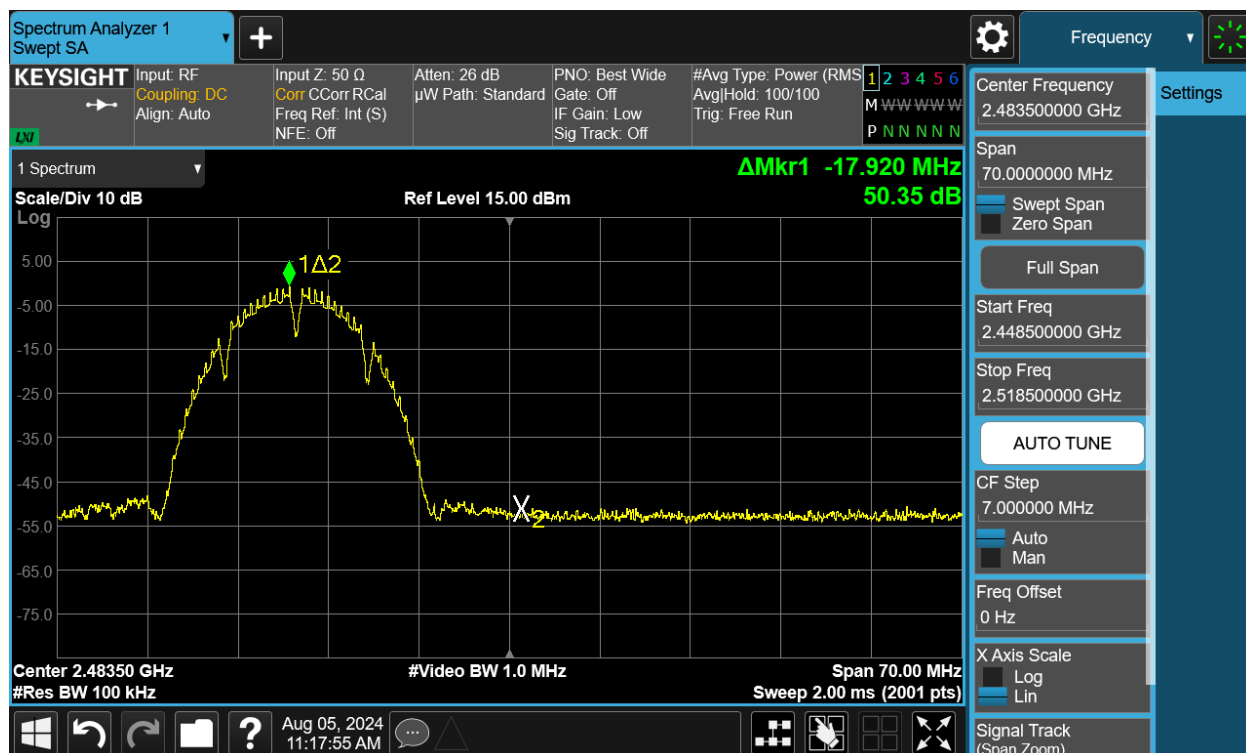


Plot 7-129. Band Edge Plot MIMO ANT1 (802.11b – Ch. 1)

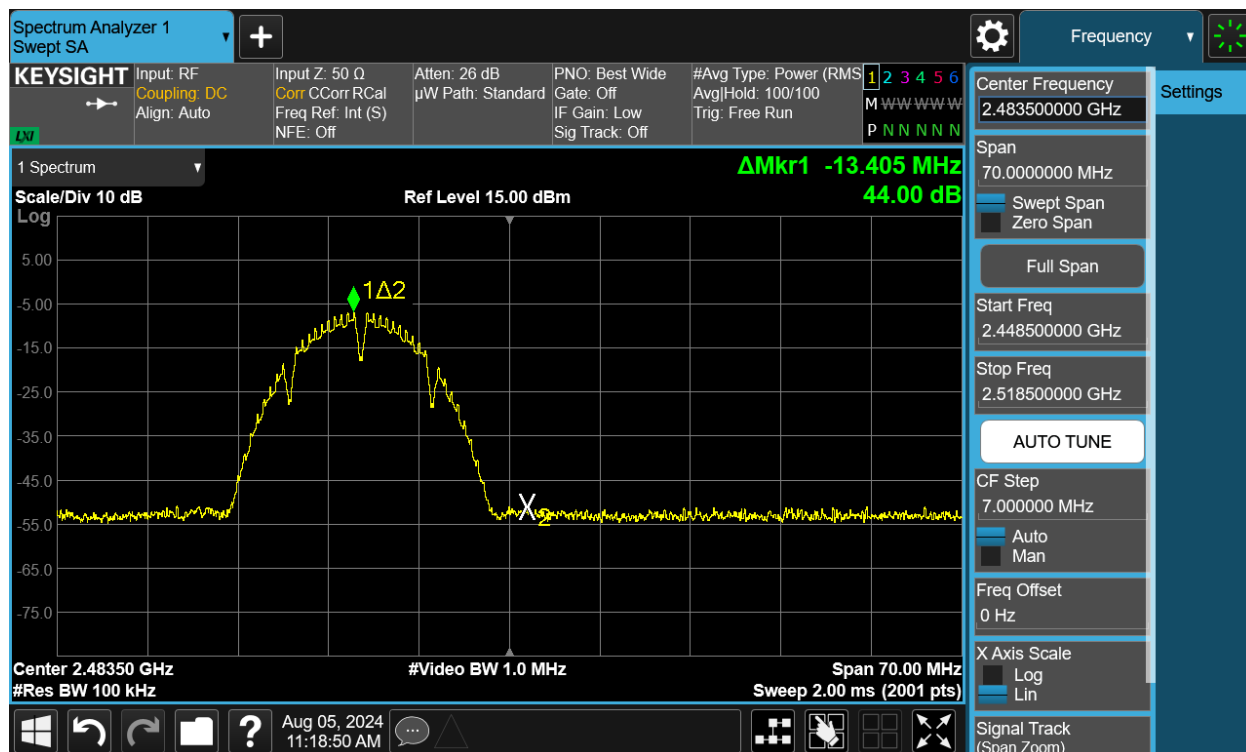


Plot 7-130. Band Edge Plot MIMO ANT1 (802.11b – Ch. 11)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-131. Band Edge Plot MIMO ANT1 (802.11b – Ch. 12)



Plot 7-132. Band Edge Plot MIMO ANT1 (802.11b – Ch. 13)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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