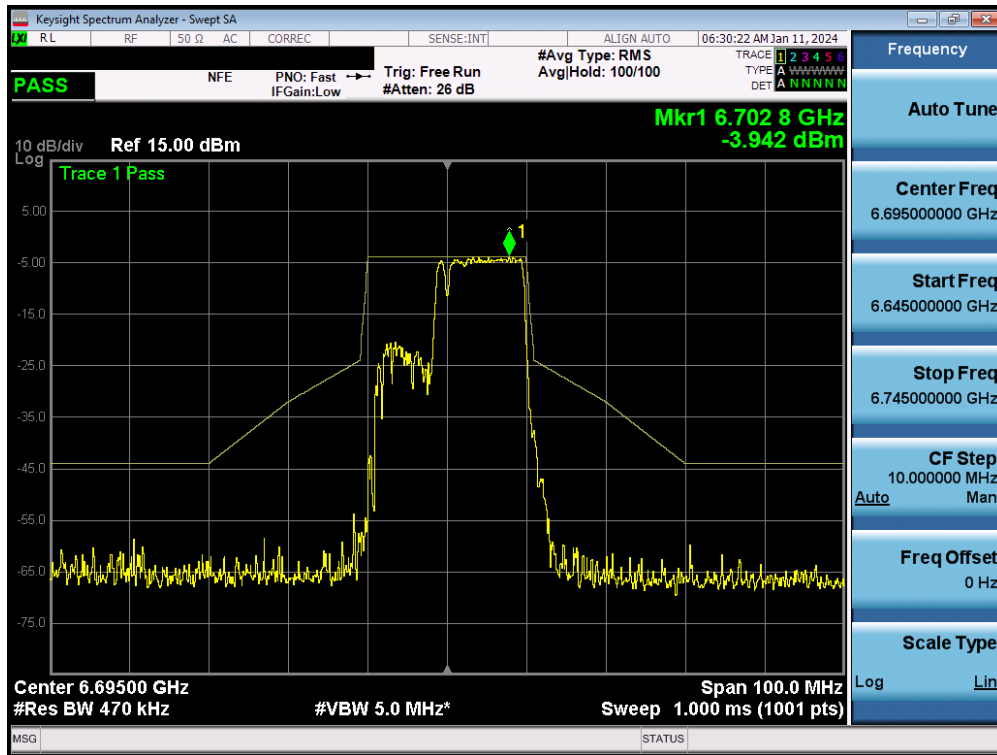
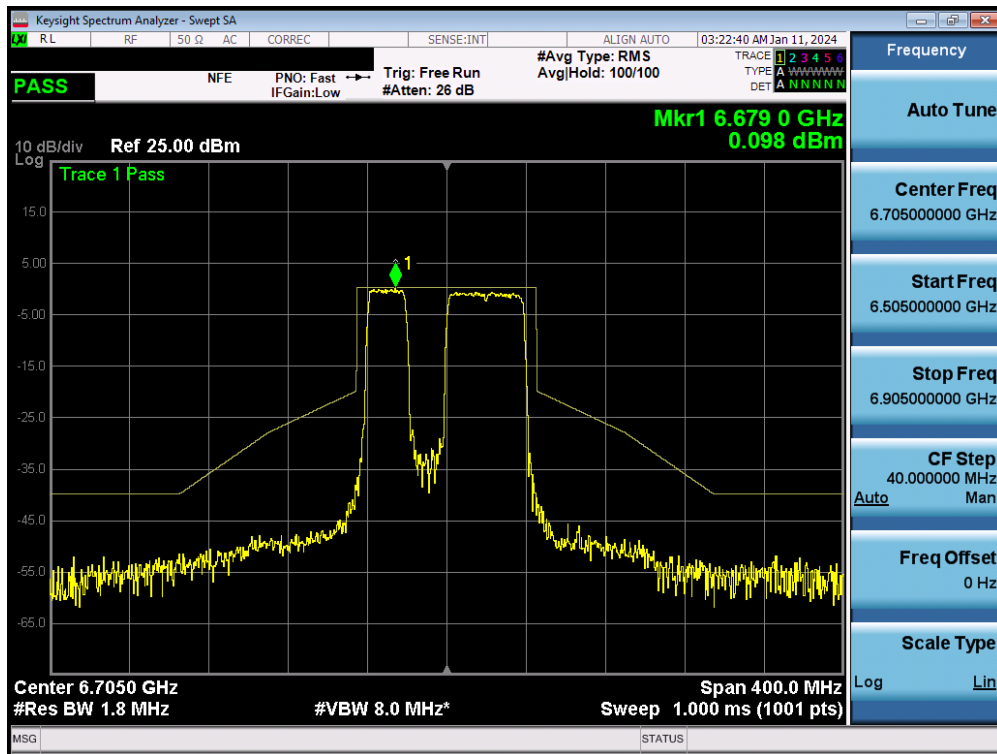


MIMO Antenna-2 In-Band Emission - (MRU) – (UNII Band 7)

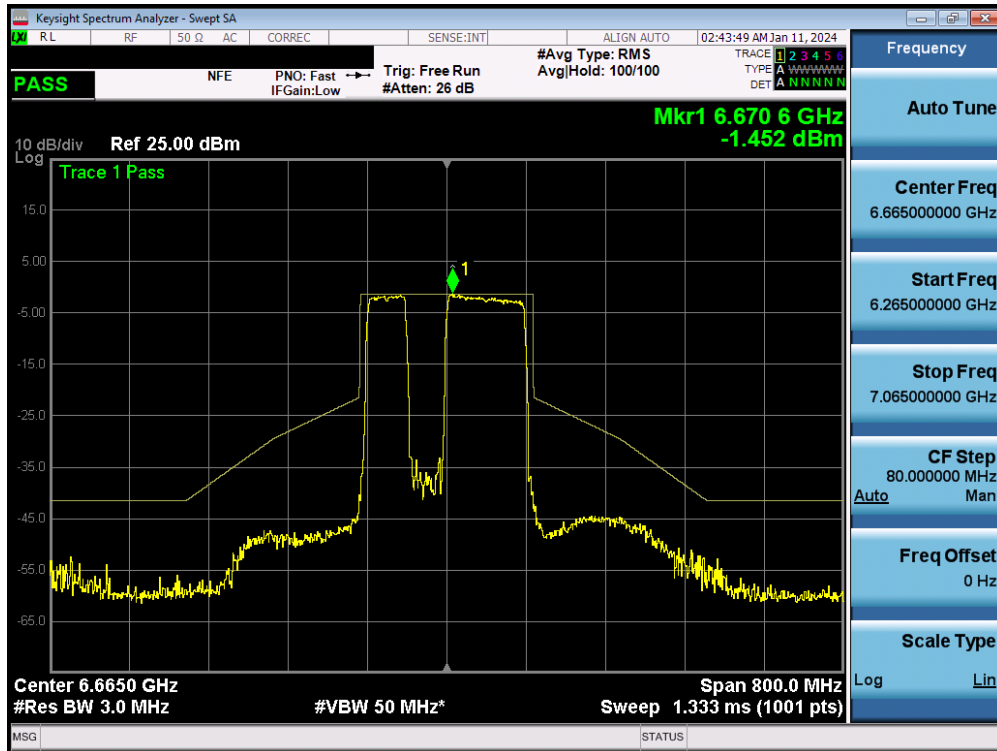


Plot 7-82. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11be (MRU) (UNII Band 7) – Ch. 149) – 106+26T

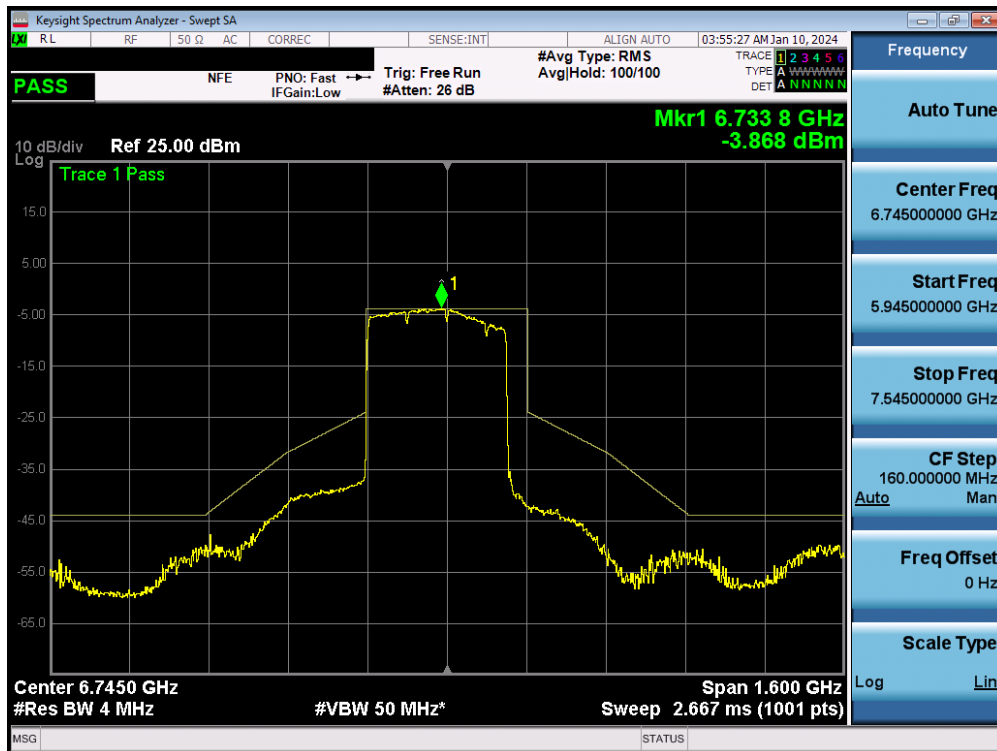


Plot 7-83. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (MRU) (UNII Band 7) – Ch. 151) – 242+484T

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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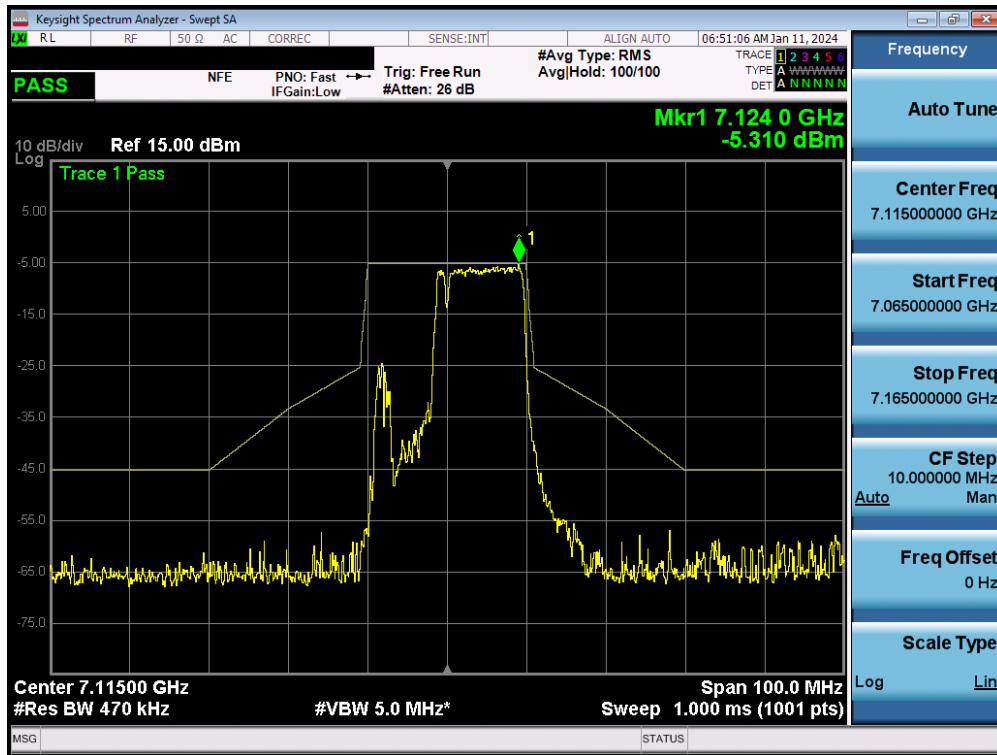
Plot 7-84. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11be (MRU) (UNII Band 7) – Ch. 143) – 996+484T



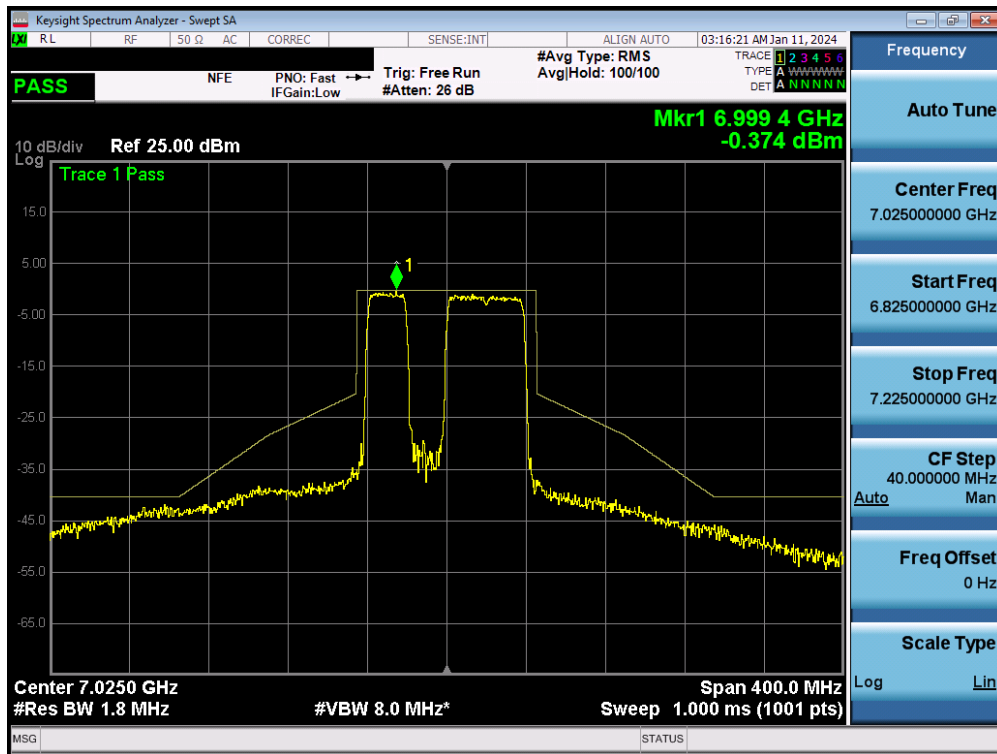
Plot 7-85. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (MRU) (UNII Band 6/7) – Ch. 159) – 3x996+484T

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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MIMO Antenna-2 In-Band Emission - (MRU) – (UNII Band 8)



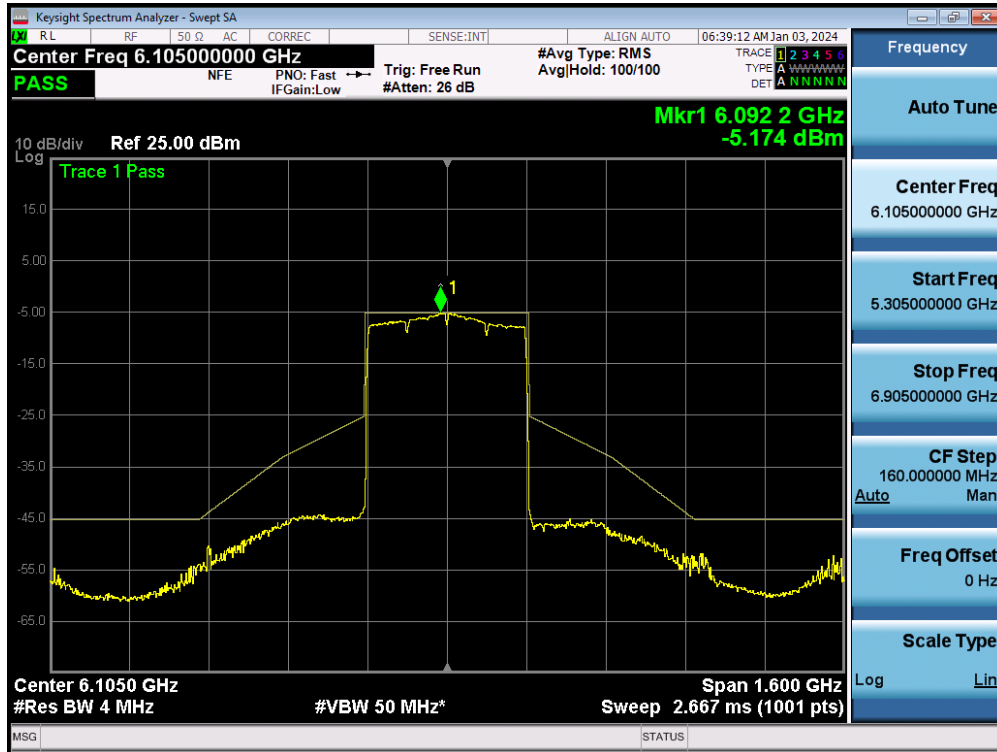
Plot 7-86. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11be (MRU) (UNII Band 8) – Ch. 233) – 106+26T



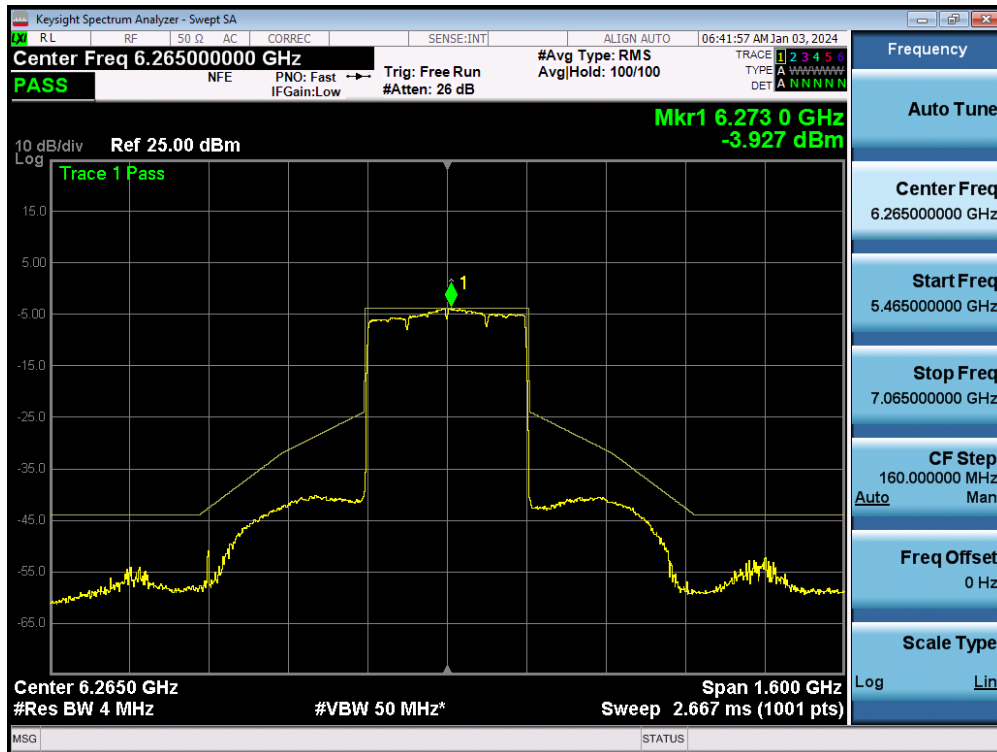
Plot 7-87. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11be (MRU) (UNII Band 8) – Ch. 215) – 242+484T

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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7.5.4 MIMO Antenna-2 In-Band Emission - (Full Tones)

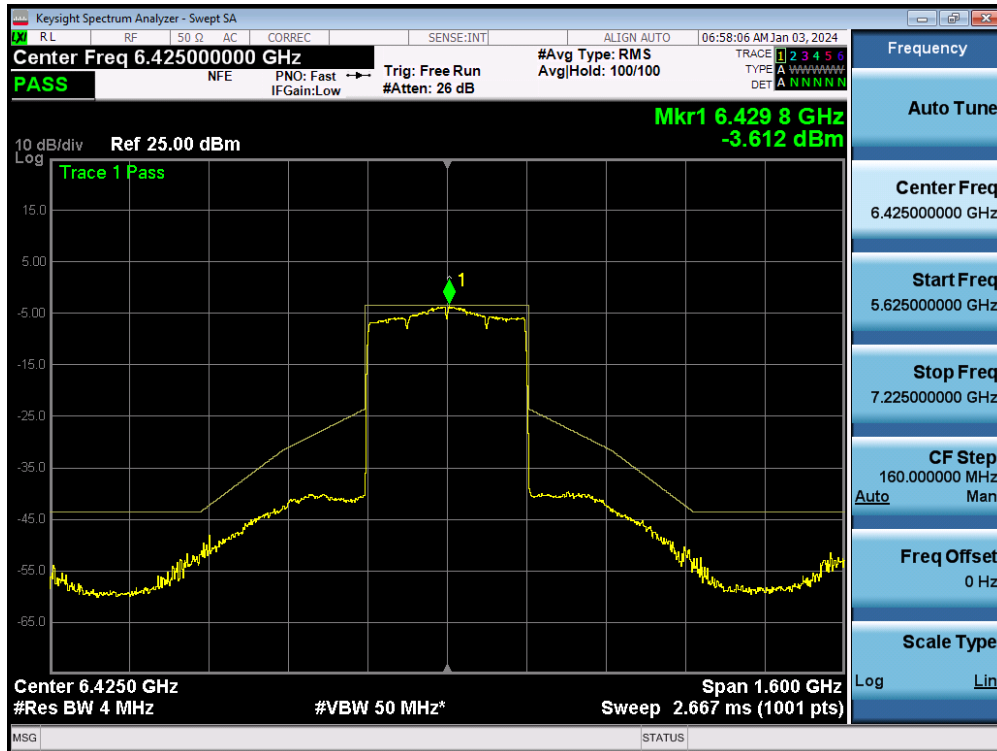


Plot 7-90. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (Full Tone) (UNII Band 5) – Ch. 31)

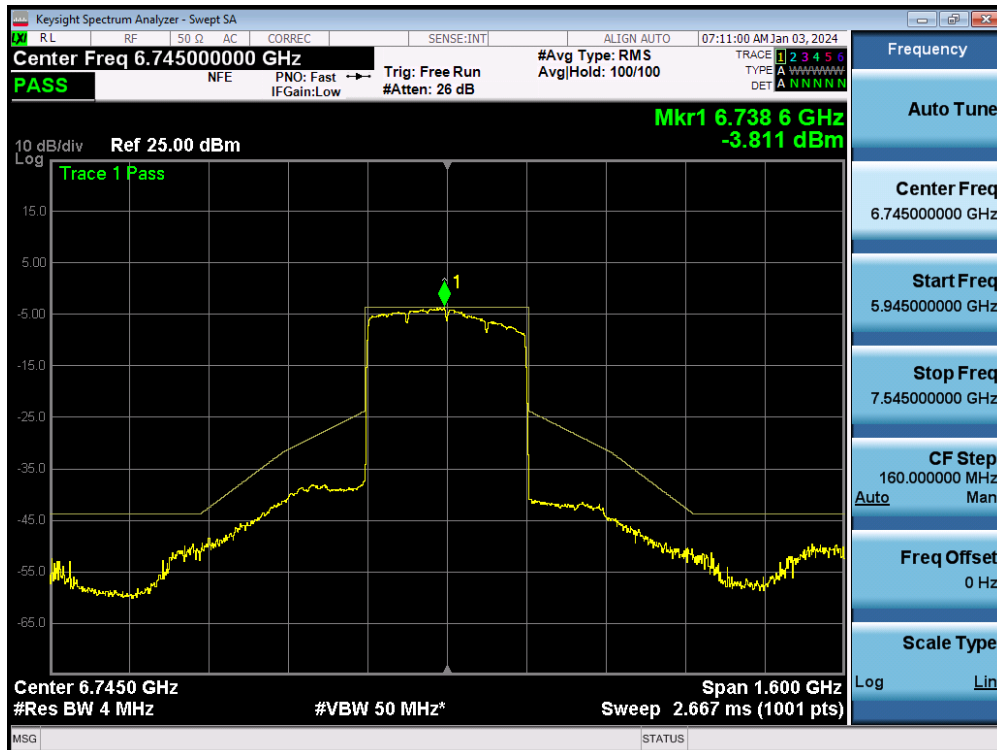


Plot 7-91. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (Full Tone) (UNII Band 5) – Ch. 63)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Plot 7-92. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (Full Tone) (UNII Band 5/6/7) – Ch. 95)



Plot 7-93. In-Band Emission Plot MIMO ANT2 (320MHz BW 802.11be (Full Tone) (UNII Band 6/7) – Ch. 159)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 1M2312180128-07.A3L	Test Dates: 12/15/2023 – 1/11/2024	EUT Type: Portable Tablet	Page 78 of 107



Plot 7-94. In-Band Emission Plot MIMO ANT1 (320MHz BW 802.11be (Full Tone) (UNII Band 7/8) – Ch. 191)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 1M2312180128-07.A3L	Test Dates: 12/15/2023 – 1/11/2024	EUT Type: Portable Tablet	Page 79 of 107

7.6 Contention Based Protocol

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel if detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v01r01

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation, and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 of KDB 987594 D02 v01r01 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

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Test Setup

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

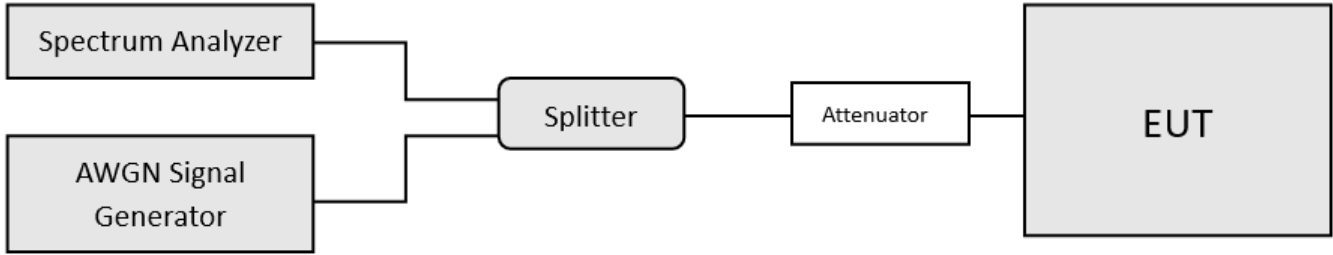


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-95). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-96), M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
2. 15 trials were run in order to ensure certainty of 90%
3. Per Guidance from KDB 987594 D04 v01, contention based protocol was tested with receiver with the lowest antenna gain.
4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmitting.
5. In the presence of an AWGN signal, the EUT was shown to either completely move out of the channel or to reduce its bandwidth for the purpose of incumbent avoidance. Representative channel move plots are included for one sub-band to show how the channel reduces when the AWGN is injected at the lower edge, the center, and the upper edge of a channel.
6. For the channel move demonstration in Section 7.6.3, only plots from UNII-5 band are included. Additionally, the AWGN signal is not visible because the AWGN level is well below the noise floor.

$$\text{Detection Level} = \text{Injected AWGN Power (dBm)} - \text{Antenna Gain (dBi)} + \text{Path Loss (dB)}$$

Equation 7-1. Detection Level Calculation

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	31	6265	320	6110	-75.86	-11.10	-64.76	-62.0	-2.76
				6265	-79.94	-11.10	-68.84	-62.0	-6.84
				6420	-79.83	-11.10	-68.73	-62.0	-6.73
UNII Band 6	95	6425	320	6270	-82.38	-11.80	-70.58	-62.0	-8.58
				6425	-76.06	-11.80	-64.26	-62.0	-2.26
				6580	-77.47	-11.80	-65.67	-62.0	-3.67
UNII Band 7	159	6745	320	6590	-75.61	-12.75	-62.86	-62.0	-0.86
				6745	-77.17	-12.75	-64.42	-62.0	-2.42
				6900	-75.03	-12.75	-62.28	-62.0	-0.28
UNII Band 8	191	6905	320	6750	-82.10	-12.50	-69.60	-62.0	-7.60
				6905	-75.04	-12.50	-62.54	-62.0	-0.54
				7060	-75.93	-13.20	-62.73	-62.0	-0.73

Table 7-13. Contention Based Protocol – Incumbent Detection Results

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Antenna Gain [dBi]	EUT Transmission Status			Detection Limit [dBm]	Margin [dB]
						Adjusted AWGN Power (dBm)				
						Normal	Minimal	Ceased		
UNII Band 5	47	6185	160	6110	-11.10	-67.83	-67.86	-64.76	-62.0	-2.76
				6185	-11.10	-71.91	-71.75	-68.84	-62.0	-6.84
				6260	-11.10	-71.66	-71.56	-68.73	-62.0	-6.73
UNII Band 6	111	6505	160	6430	-11.80	-71.73	-71.45	-70.58	-62.0	-8.58
				6505	-11.80	-68.00	-66.71	-64.26	-62.0	-2.26
				6580	-11.80	-68.57	-68.24	-65.67	-62.0	-3.67
UNII Band 7	175	6825	160	6750	-12.75	-65.21	-65.04	-62.86	-62.0	-0.86
				6825	-12.75	-65.55	-65.42	-64.42	-62.0	-2.42
				6900	-12.75	-64.91	-64.47	-62.28	-62.0	-0.28
UNII Band 8	207	6985	160	6910	-12.50	-72.86	-72.18	-69.60	-62.0	-7.60
				6985	-12.50	-66.16	-65.68	-62.07	-62.0	-0.54
				7060	-13.20	-64.85	-64.72	-62.73	-62.0	-0.73

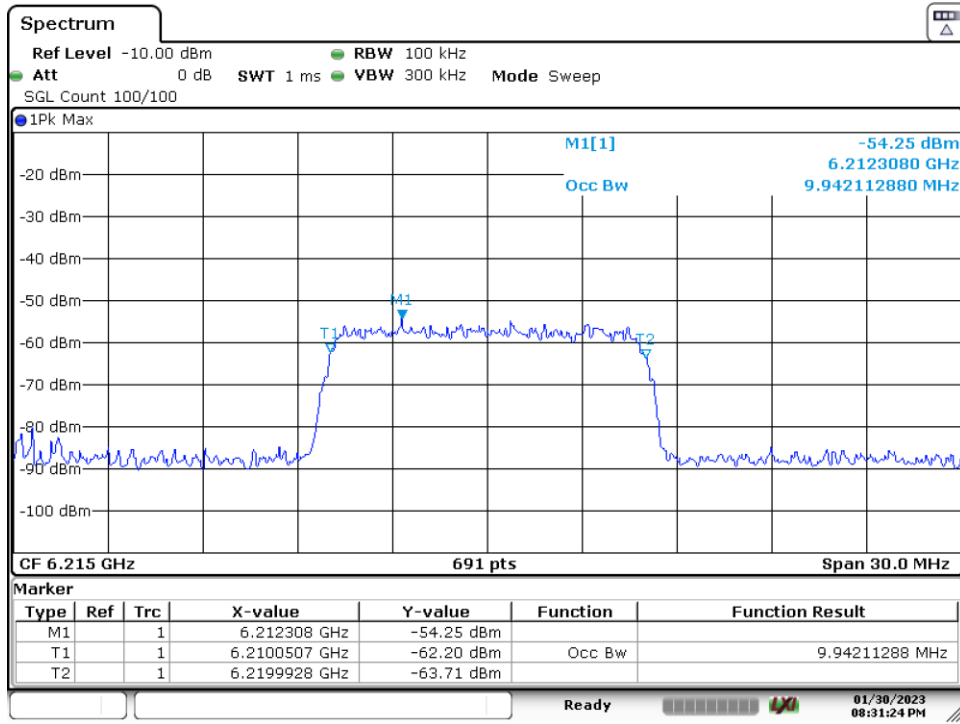
Table 7-14. Contention Based Protocol – Detection Results – All Tx Cases

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]																Detection Rate (%)		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
UNII Band 5	47	6185	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 6	111	6505	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 7	175	6825	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNII Band 8	207	6985	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
				2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Table 7-15. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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7.6.1 AWGN Plots

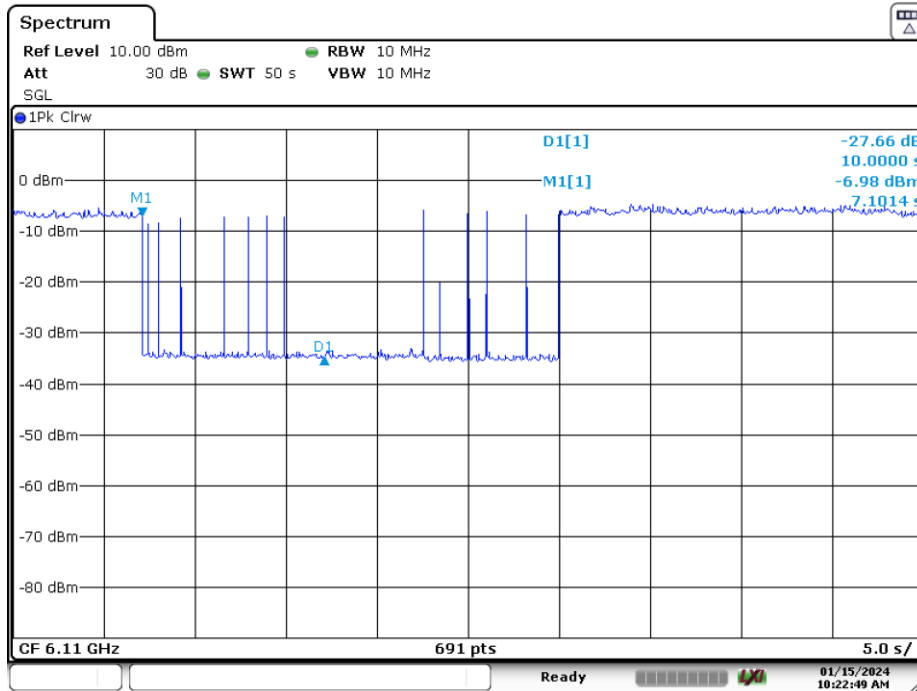


Date: 30.JAN.2023 20:31:24

Plot 7-95. AWGN Signal (Demonstration)

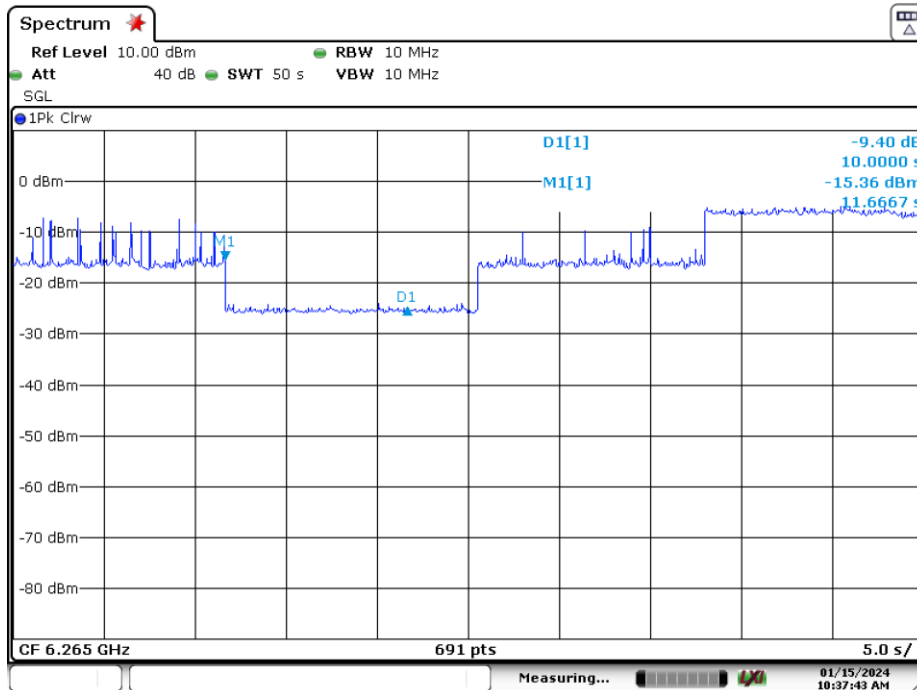
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 1M2312180128-07.A3L	Test Dates: 12/15/2023 – 1/11/2024	EUT Type: Portable Tablet	Page 83 of 107

7.6.2 CBP Timing Plots



Date: 15.JAN.2024 10:22:49

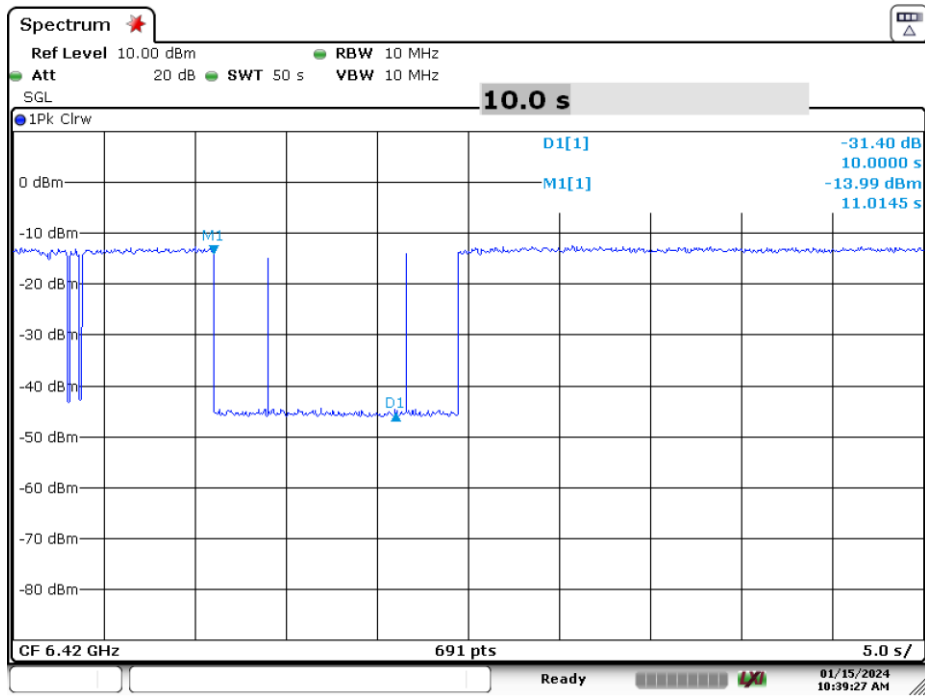
Plot 7-96. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 Low)



Date: 15.JAN.2024 10:37:43

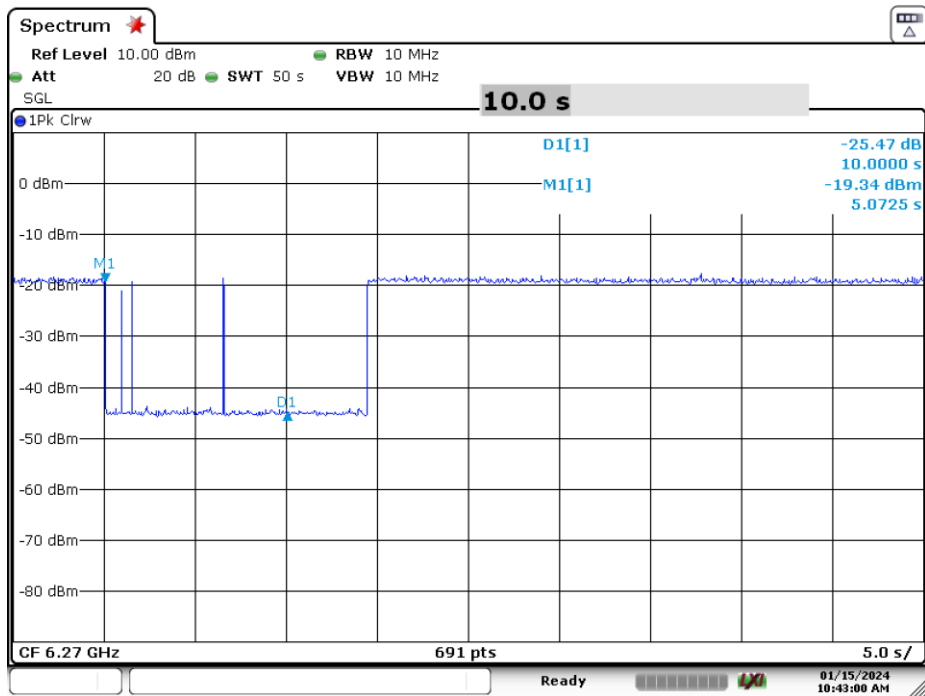
Plot 7-97. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 Mid)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Date: 15.JAN.2024 10:39:27

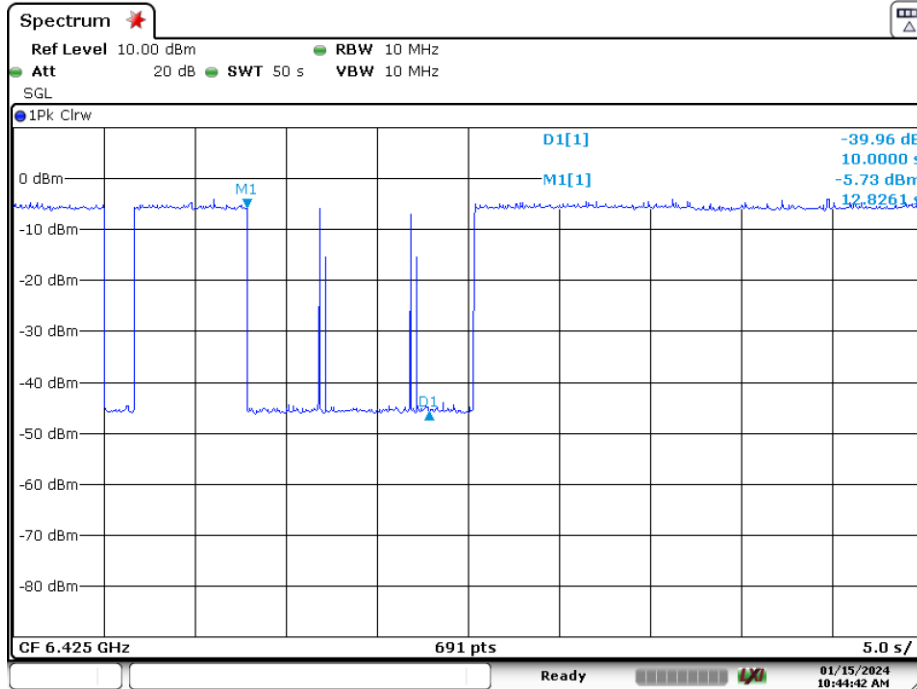
Plot 7-98. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 High)



Date: 15.JAN.2024 10:43:01

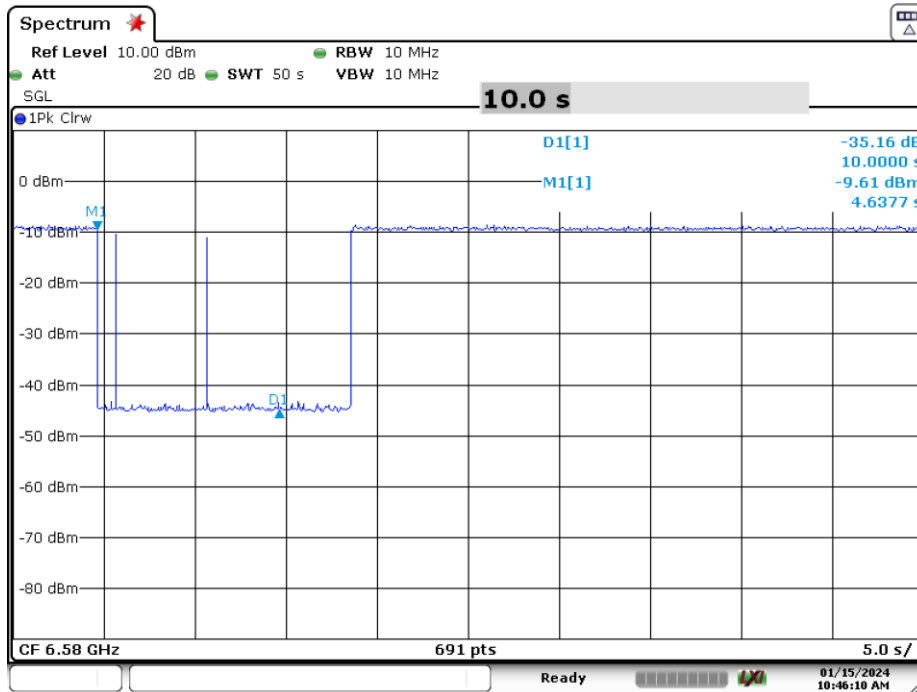
Plot 7-99. Contention Based Protocol Timing Plot (320MHz (UNII Band 6) – Ch. 95 Low)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Date: 15.JAN.2024 10:44:42

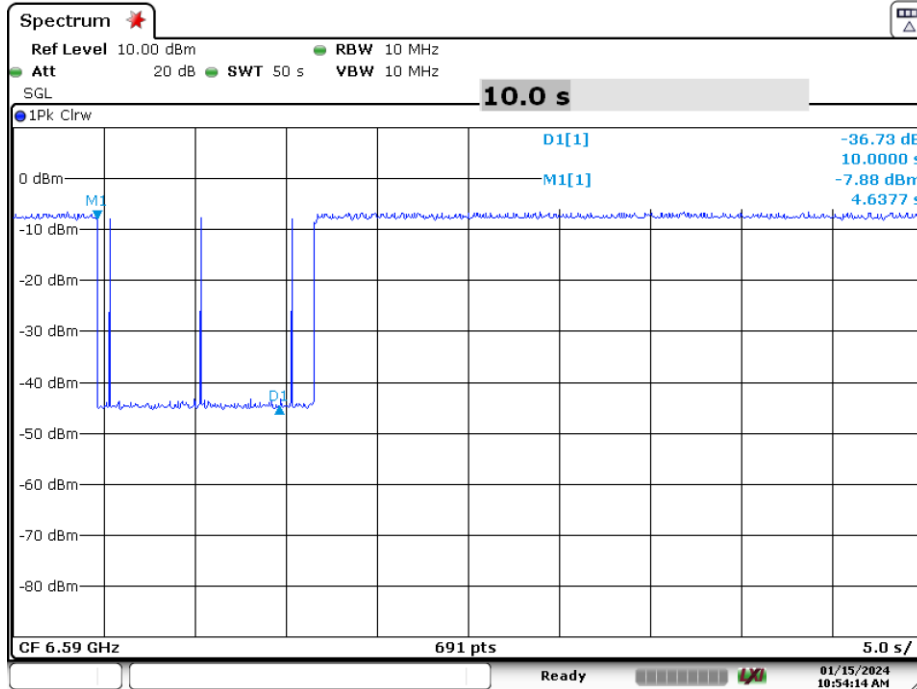
Plot 7-100. Contention Based Protocol Timing Plot (320MHz (UNII Band 6) – Ch. 95 Mid)



Date: 15.JAN.2024 10:46:10

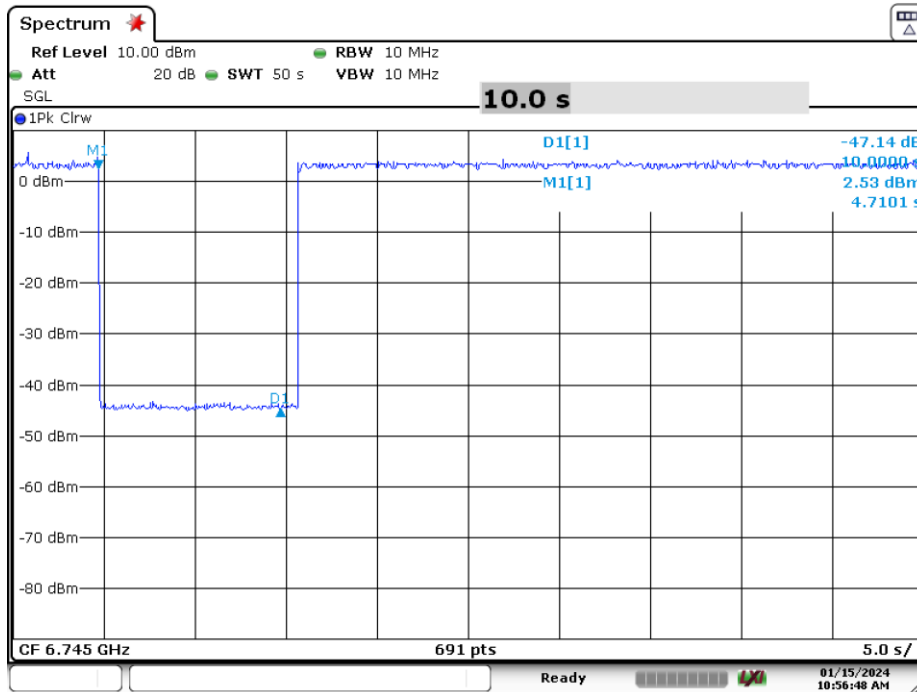
Plot 7-101. Contention Based Protocol Timing Plot (320MHz (UNII Band 6) – Ch. 95 High)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Date: 15.JAN.2024 10:54:14

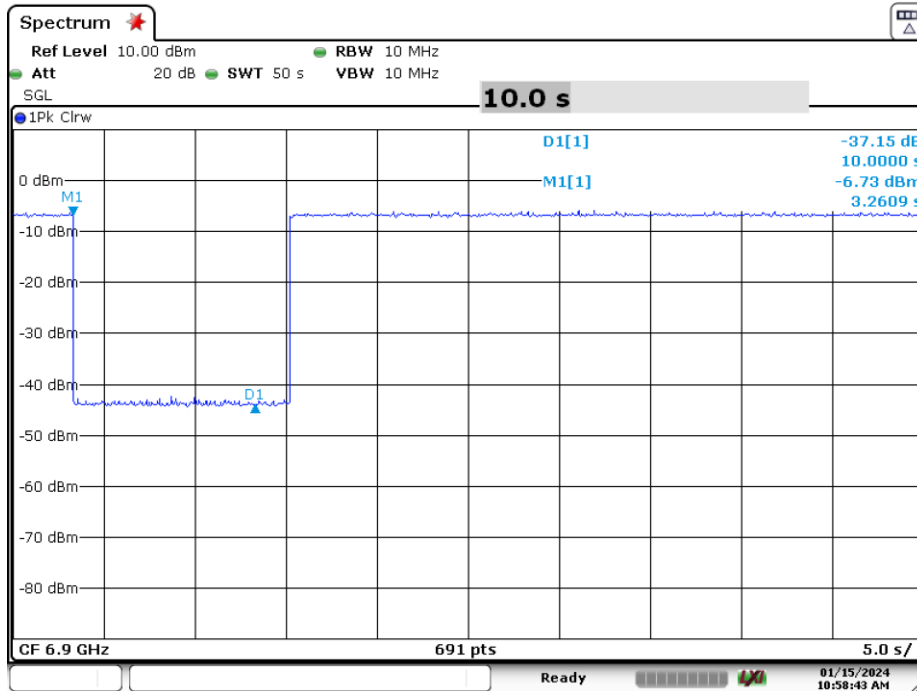
Plot 7-102. Contention Based Protocol Timing Plot (320MHz (UNII Band 7) – Ch. 159 Low)



Date: 15.JAN.2024 10:56:49

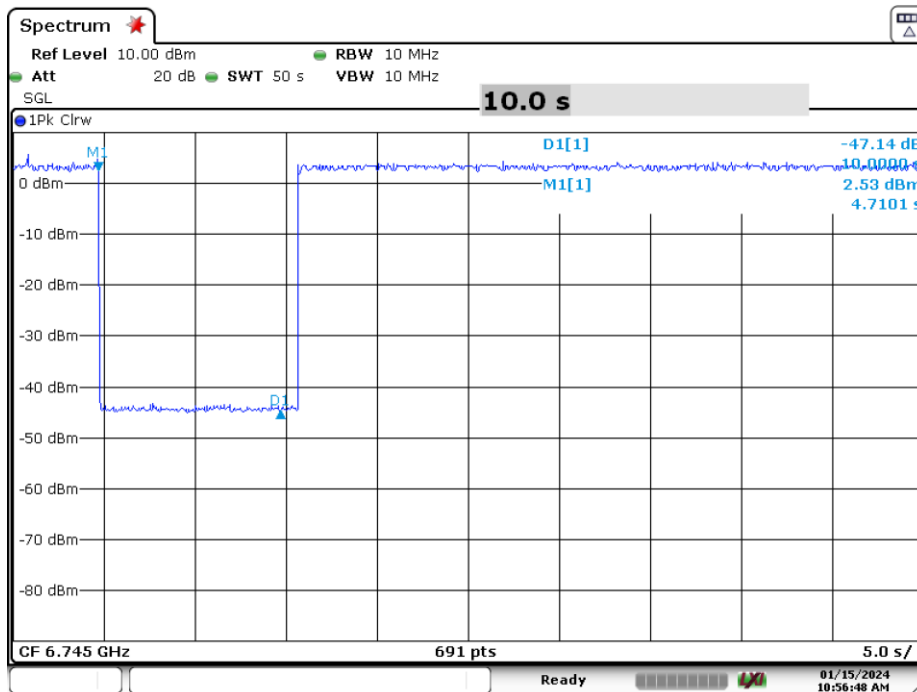
Plot 7-103. Contention Based Protocol Timing Plot (320MHz (UNII Band 7) – Ch. 159 Mid)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 1M2312180128-07.A3L	Test Dates: 12/15/2023 – 1/11/2024	EUT Type: Portable Tablet	Page 87 of 107



Date: 15.JAN.2024 10:58:43

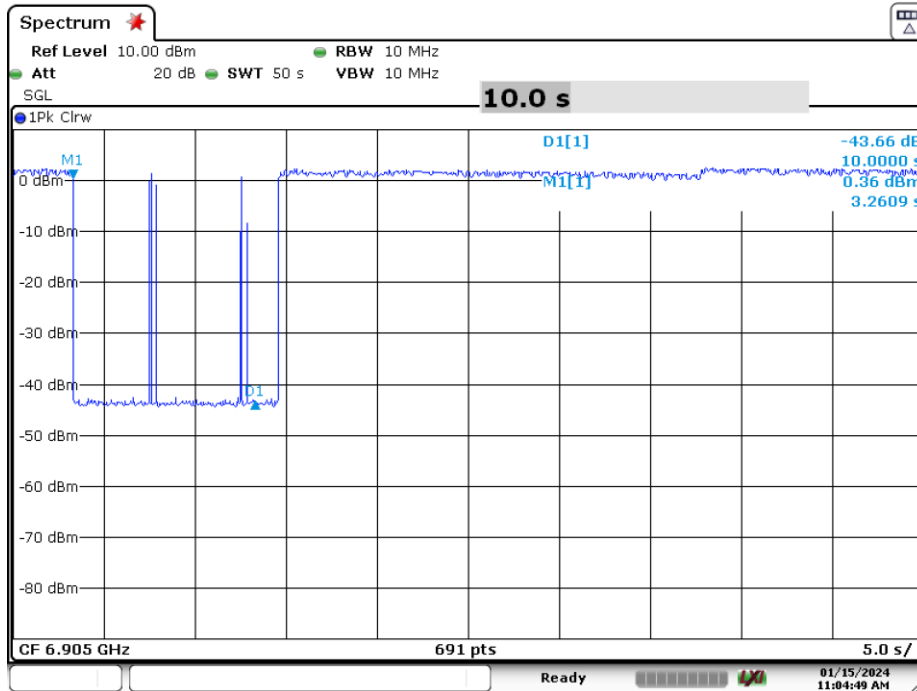
Plot 7-104. Contention Based Protocol Timing Plot (320MHz (UNII Band 7) – Ch. 159 High)



Date: 15.JAN.2024 10:56:49

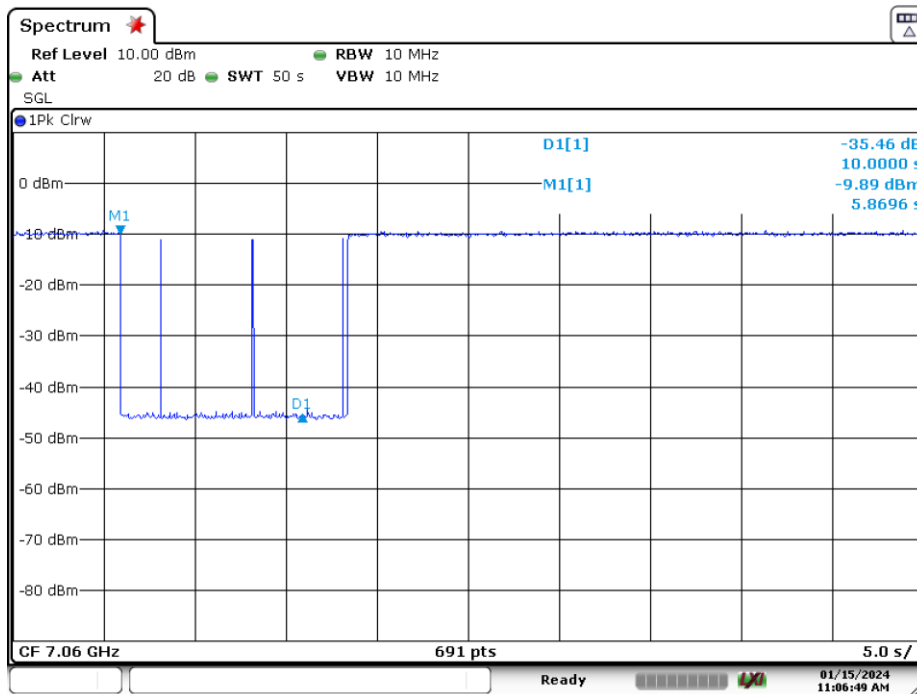
Plot 7-105. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) – Ch. 191 Low)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Plot 7-106. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) – Ch. 191 Mid)



Date: 15.JAN.2024 11:06:49

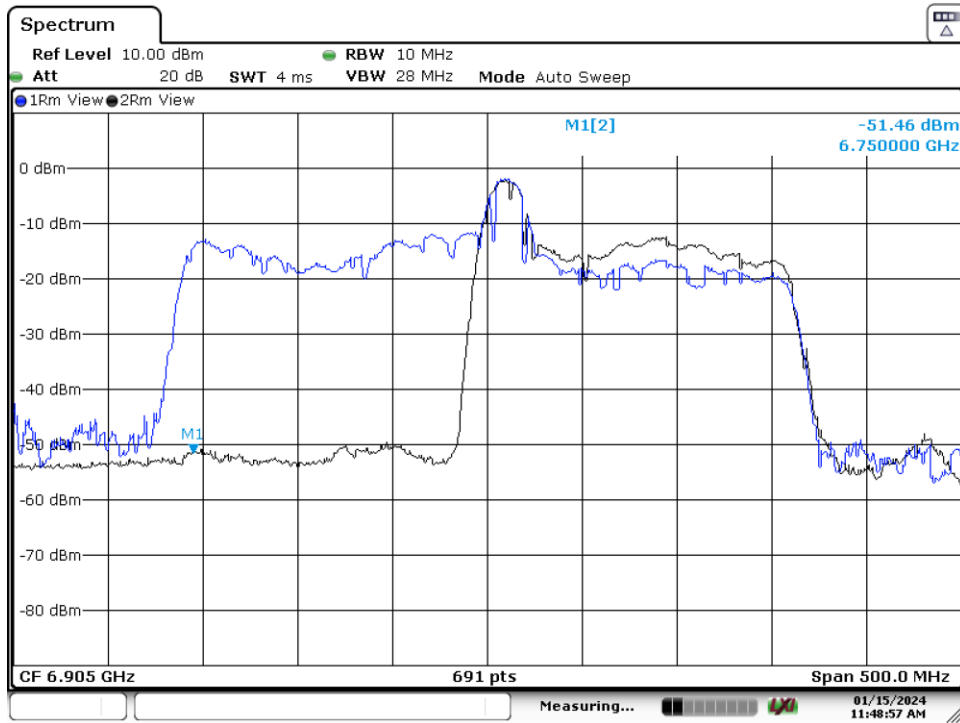
Plot 7-107. Contention Based Protocol Timing Plot (320MHz (UNII Band 8) – Ch. 191 High)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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7.6.3 Channel Move Plots

This section demonstrates the effect of injecting the AWGN signal at various locations throughout the 320MHz signal. The blue trace shows the full 320MHz signal prior to AWGN injection while the black trace shows the spectrum following AWGN injection. The following items were observed as demonstrated in the three plots shown below:

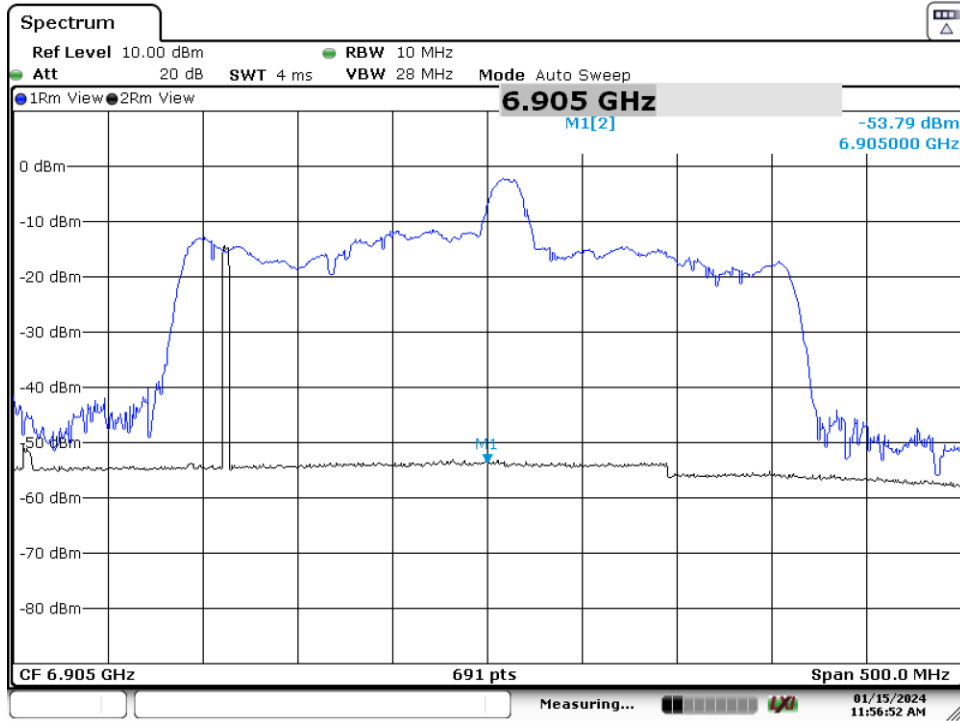
- When a 10 MHz AWGN signal centered at 6750 MHz (lower edge of channel) is injected, the channel reduces bandwidth.
- When a 10 MHz AWGN signal centered at 6905 MHz (middle of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 7060 MHz (upper edge of channel) is injected, the channel reduces bandwidth.



Date: 15.JAN.2024 11:48:57

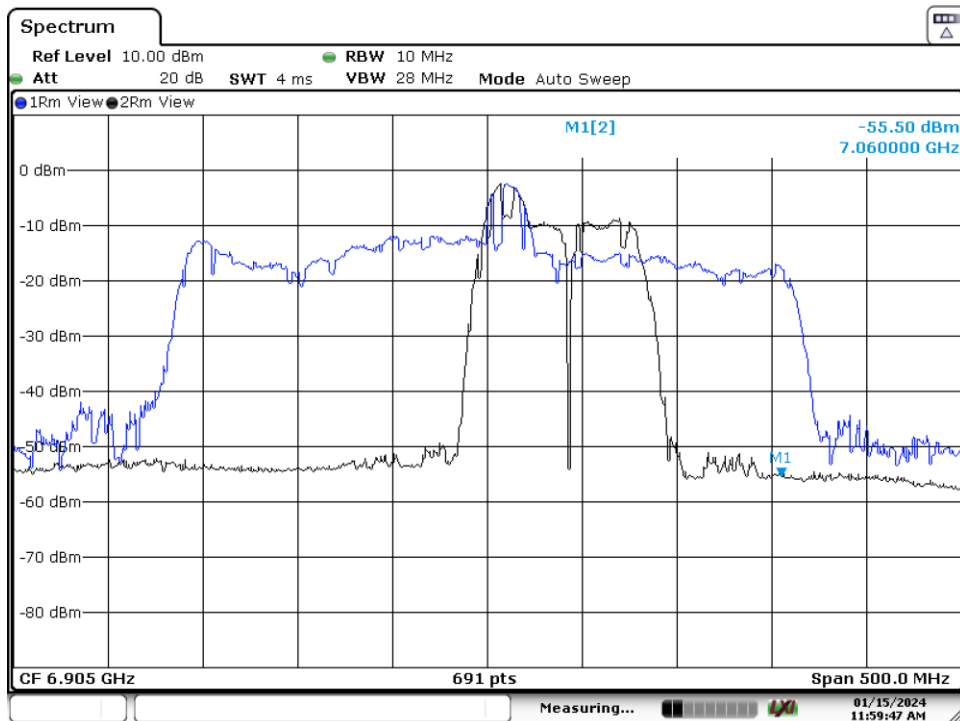
Plot 7-108. CBP 320MHz Channel - Injection Lower Edge – [6110 MHz]

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Date: 15.JAN.2024 11:56:52

Plot 7-109. CBP 320MHz Channel - Injection Center – [6265 MHz]



Date: 15.JAN.2024 11:59:47

Plot 7-110. CBP 320MHz Channel - Injection Upper Edge – [6420 MHz]

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7.7 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. All channels, modes (e.g. 802.11ax (20/40/80/160MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [$\mu\text{V}/\text{m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-16. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span} \backslash \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

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Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize.

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

Test Setup

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

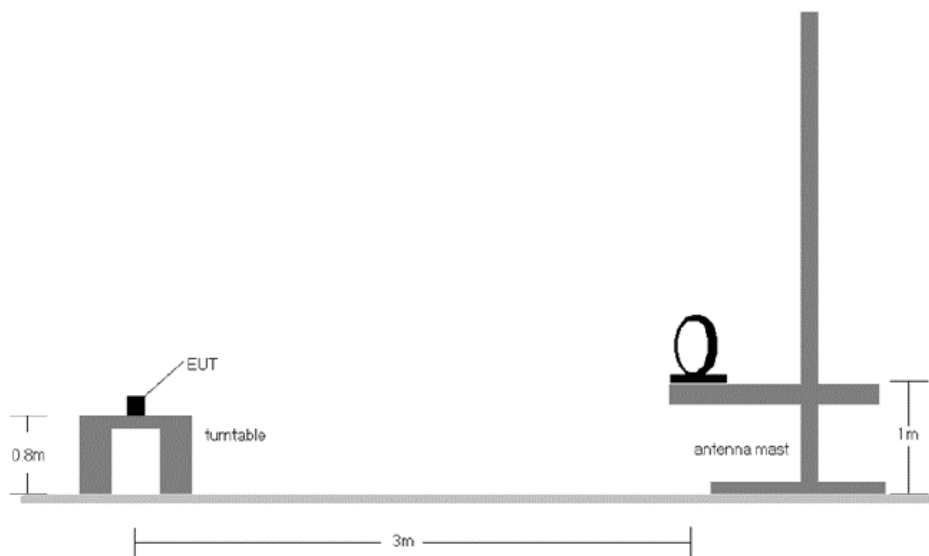


Figure 7-6. Radiated Test Setup < 30MHz

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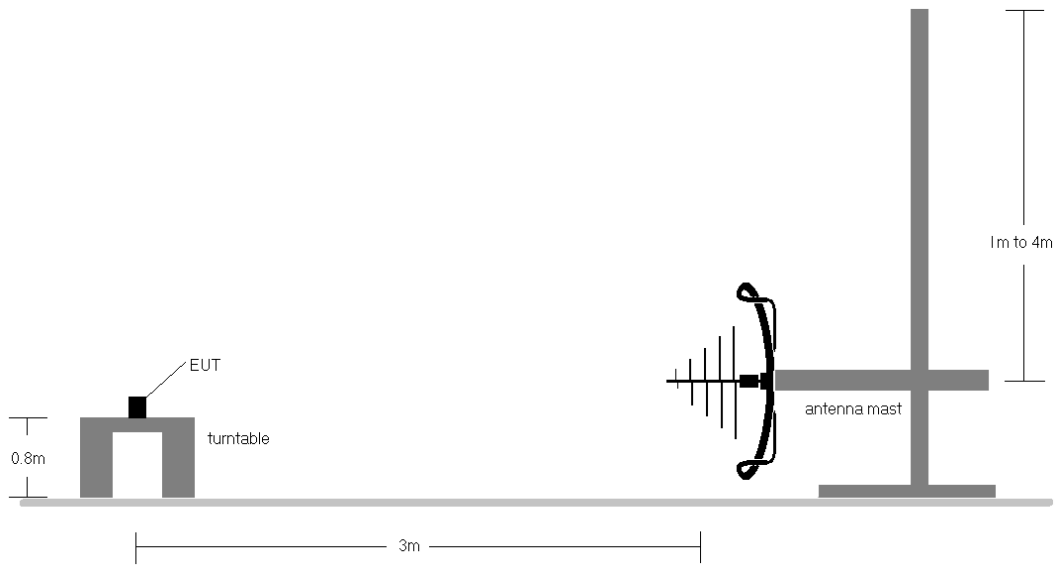


Figure 7-7. Radiated Test Setup < 1GHz

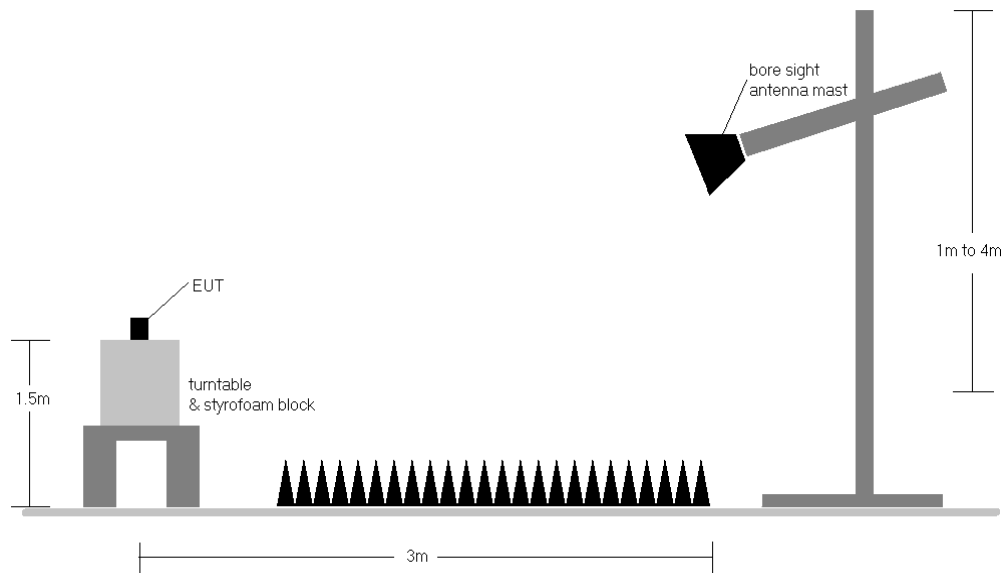


Figure 7-8. Radiated Test Setup > 1GHz

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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dBμV/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported, however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.7.1 MIMO Radiated Spurious Emission Measurements (26 Tones)

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11be RU 26T	MIMO	7	149	6695	4	*	13390.00	Average	V	211	38	-80.25	14.85	0.00	41.60	53.98	-12.38
						*	13390.00	Peak	V	211	38	-68.88	14.85	0.00	52.97	73.98	-21.01
						*	20085.00	Peak	V	-	-	-66.17	2.83	-9.54	34.12	53.98	-19.86
						*	20085.00	Average	V	-	-	-56.16	2.83	-9.54	44.13	73.98	-29.85
						*	26780.00	Peak	V	-	-	-56.08	4.33	-9.54	45.71	68.20	-22.49
						*	33475.00	Peak	V	-	-	-56.45	6.78	-9.54	47.79	68.20	-20.41

Table 7-17. Radiated Measurements MIMO (26 Tones)

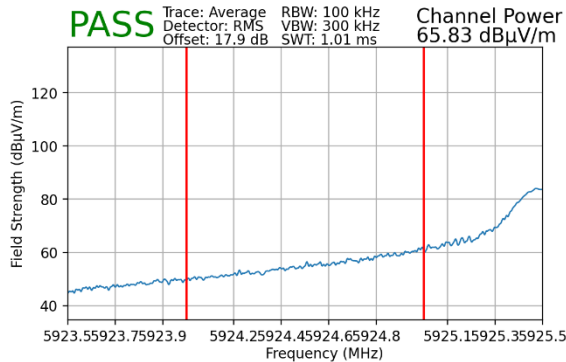
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11be RU 242T	MIMO	6	105	6475	61		12950.00	Peak	V	149	304	-58.03	14.03	0.00	63.00	68.20	-5.20
						*	19425.00	Average	V	-	-	-66.04	2.00	-9.54	33.42	53.98	-20.56
						*	19425.00	Peak	V	-	-	-57.52	2.00	-9.54	41.94	73.98	-32.04
						*	25900.00	Peak	V	-	-	-60.04	4.35	-9.54	41.76	68.20	-26.44
						*	32375.00	Peak	V	-	-	-62.66	6.96	-9.54	41.77	68.20	-26.43

Table 7-18. Radiated Measurements MIMO (242 Tones)

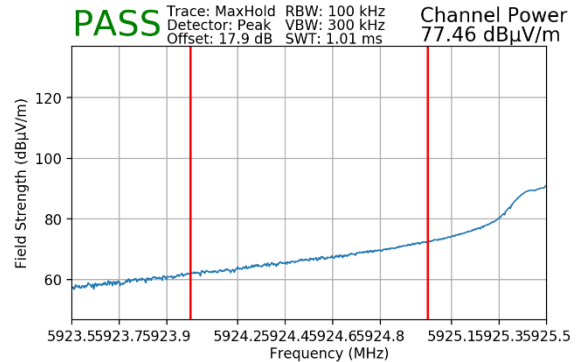
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7.7.2 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

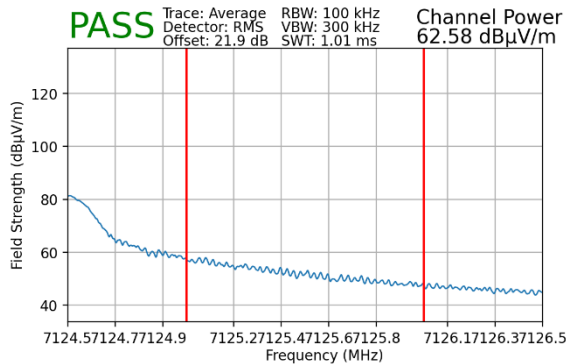


Plot 7-111. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

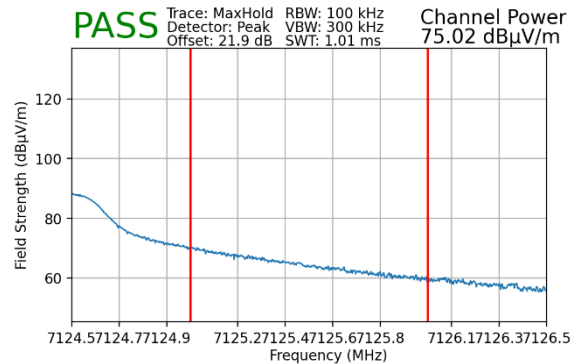


Plot 7-112. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-113. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106T)

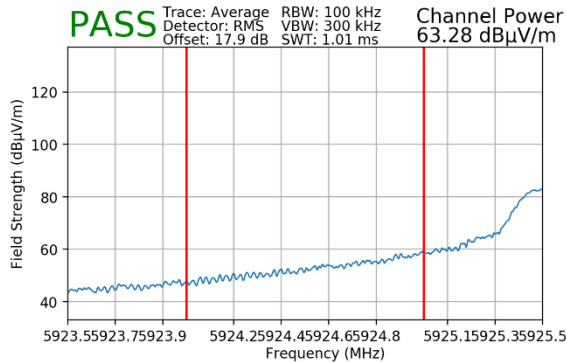


Plot 7-114. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106T)

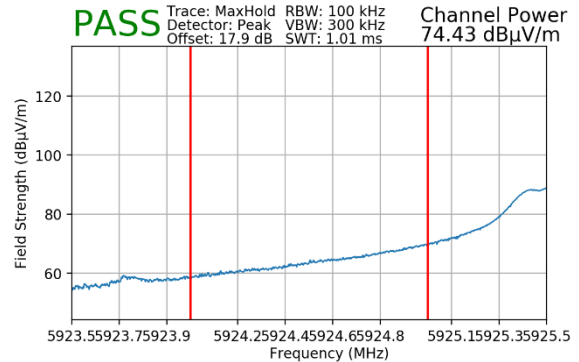
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7.7.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – MRU)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	82
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

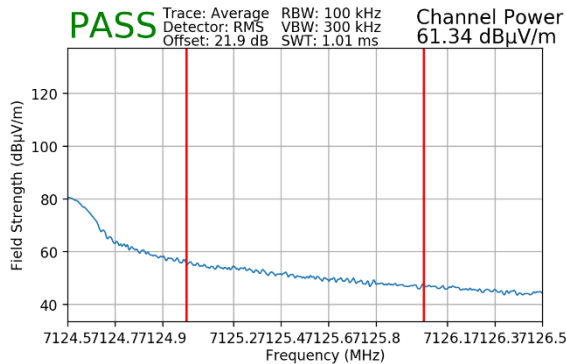


Plot 7-115. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106+26T)

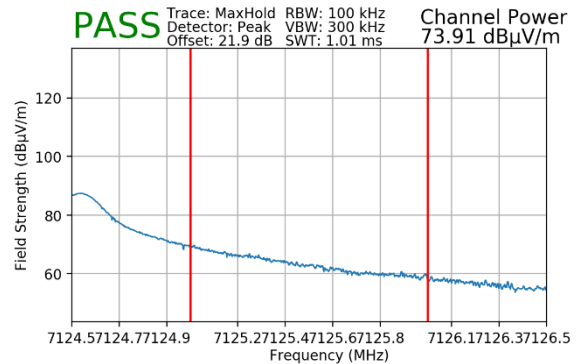


Plot 7-116. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106+26T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	83
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-117. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106+26T)

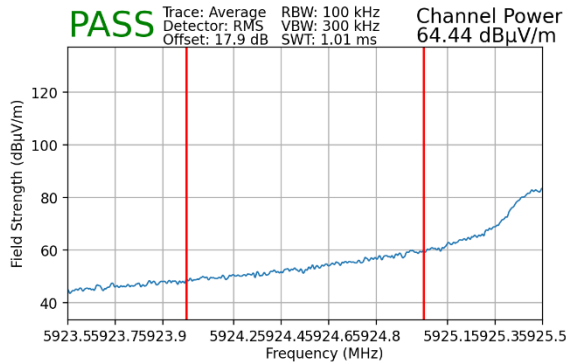


Plot 7-118. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106+26T)

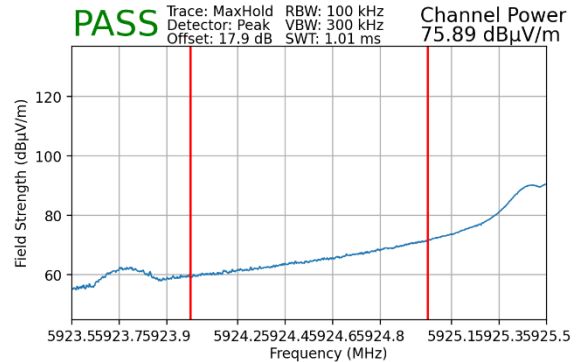
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7.7.4 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

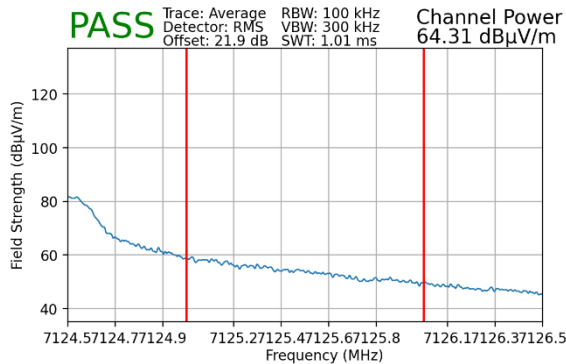


Plot 7-119. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242T)

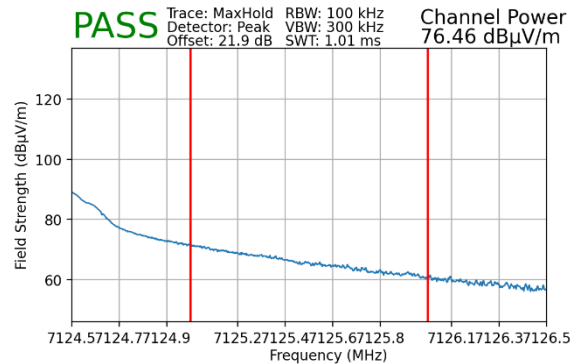


Plot 7-120. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-121. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242T)

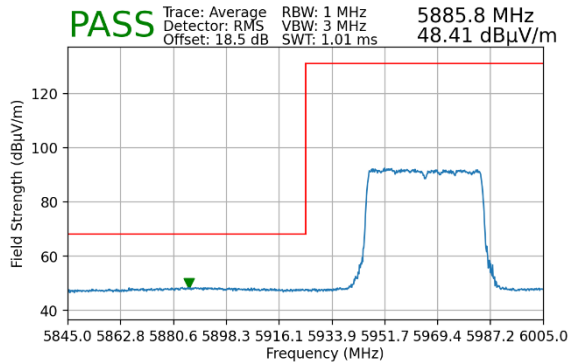


Plot 7-122. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 242T)

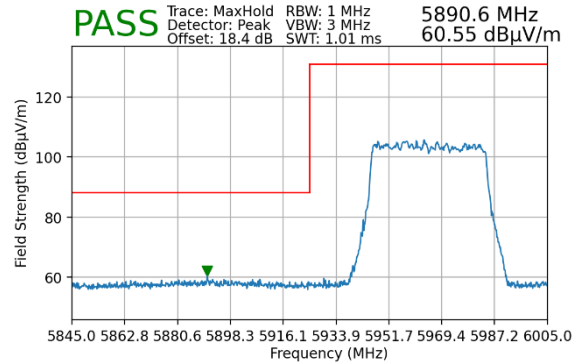
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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7.7.5 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3

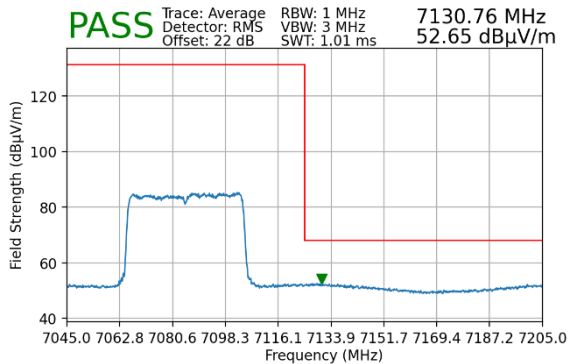


Plot 7-123. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484T)

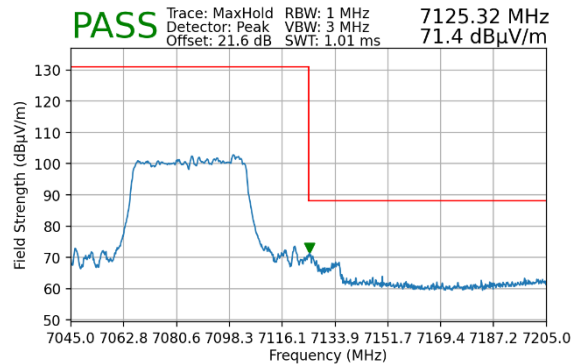


Plot 7-124. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-125. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 484T)

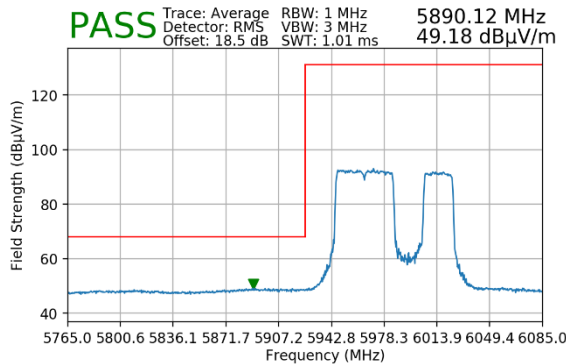


Plot 7-126. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484T)

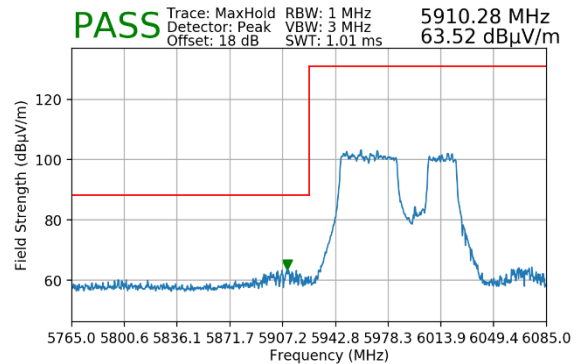
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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7.7.6 MIMO Radiated Band Edge Measurements (80MHz BW – Partial Tone – MRU)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	92
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

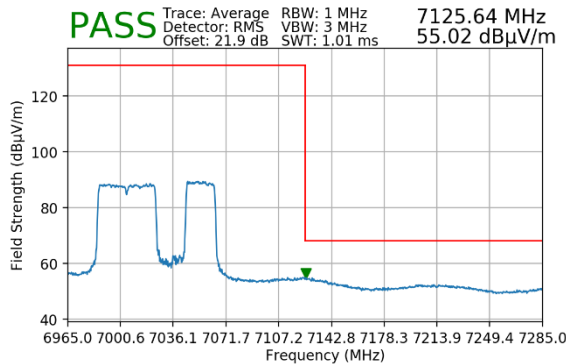


Plot 7-127. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242+484T)

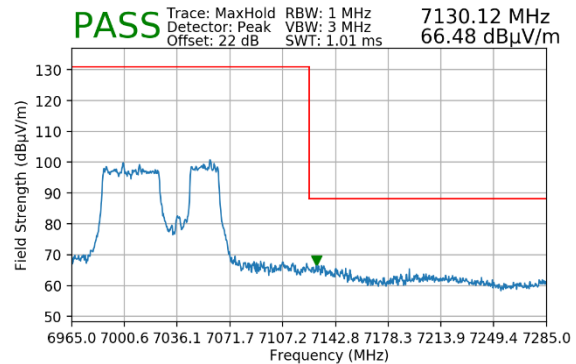


Plot 7-128. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-129. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242+484T)

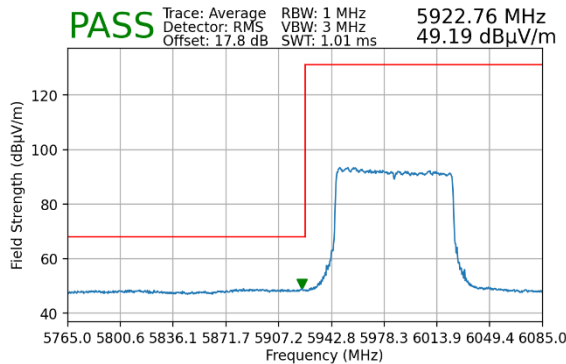


Plot 7-130. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 242+484T)

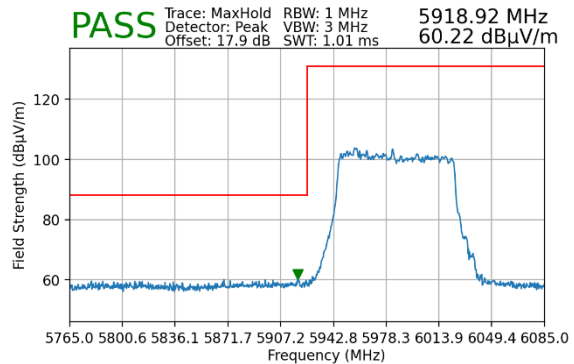
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7.7.7 MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

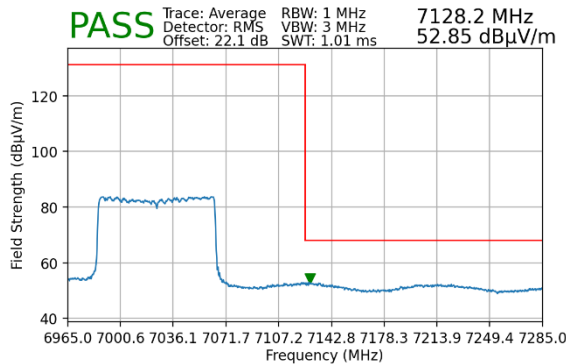


Plot 7-131. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996T)

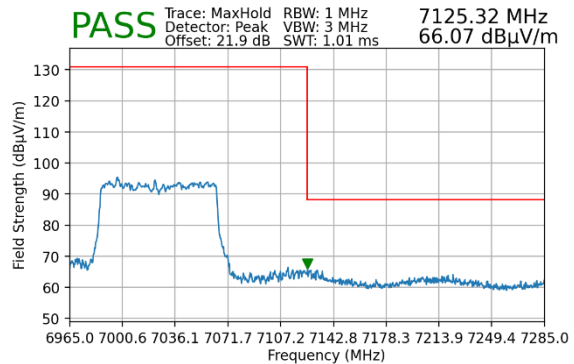


Plot 7-132. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-133. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996T)

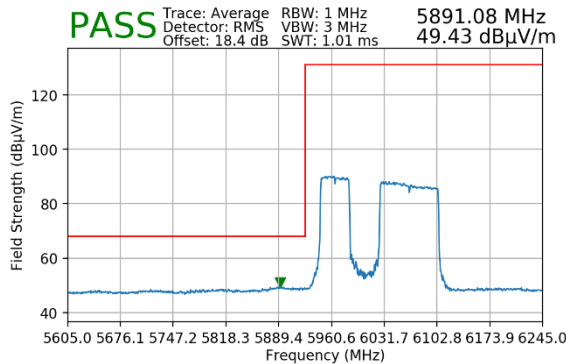


Plot 7-134. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996T)

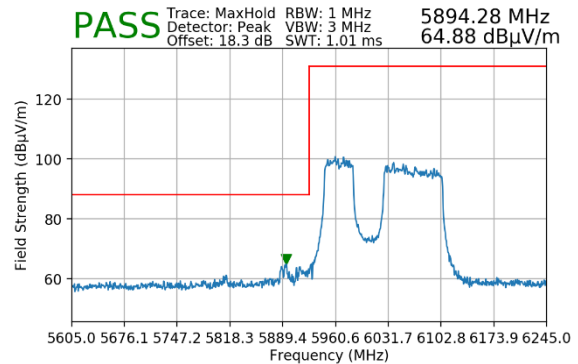
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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7.7.8 MIMO Radiated Band Edge Measurements (160MHz BW – Partial Tone – MRU)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	95
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

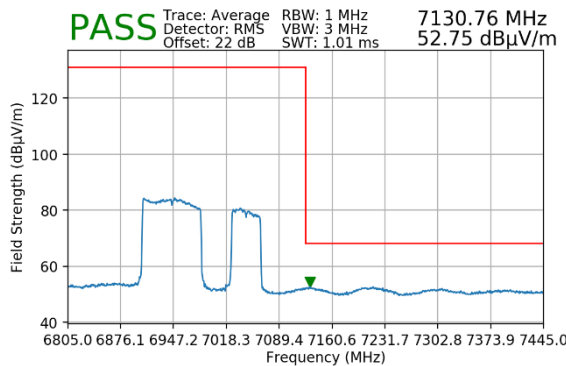


Plot 7-135. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996+484T)

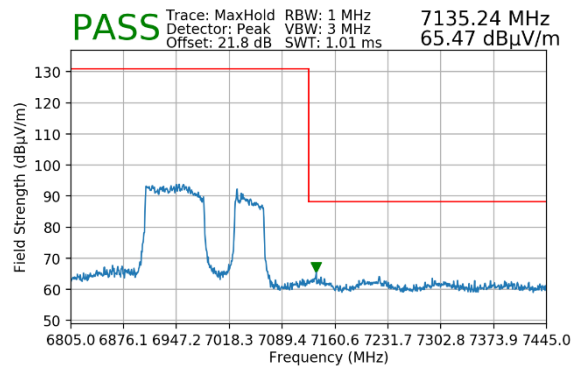


Plot 7-136. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	1094
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-137. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996+484T)

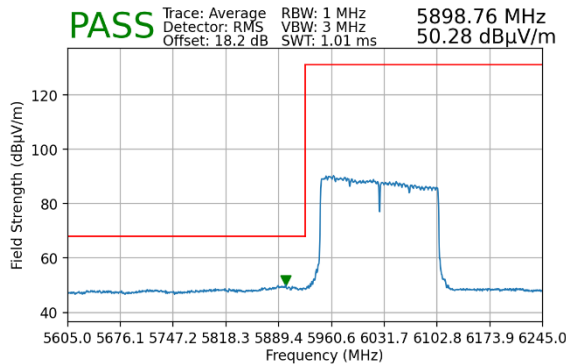


Plot 7-138. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996+484T)

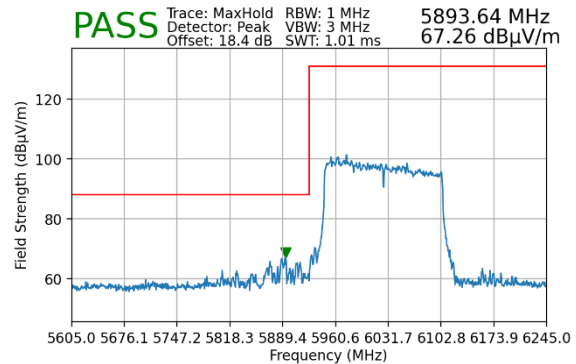
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7.7.9 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	68
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

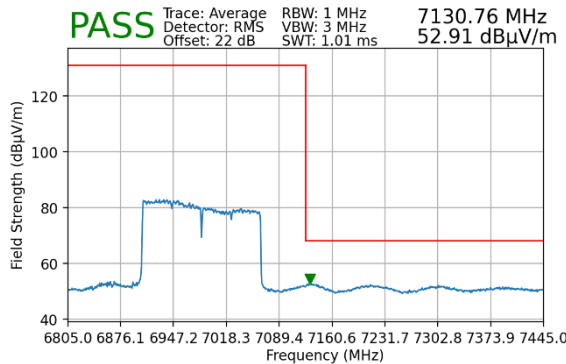


Plot 7-139. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 2x996T)

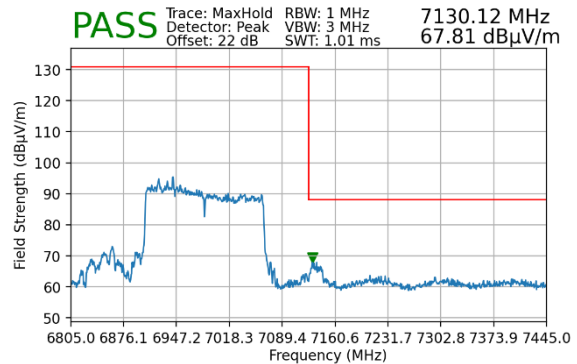


Plot 7-140. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	68
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-141. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 2x996T)

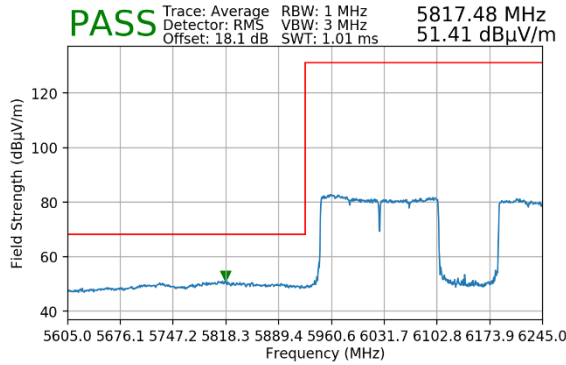


Plot 7-142. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996T)

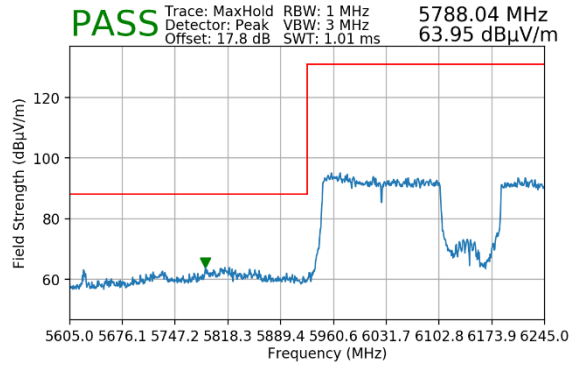
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 1M2312180128-07.A3L	Test Dates: 12/15/2023 – 1/11/2024	EUT Type: Portable Tablet	Page 104 of 107

7.7.10 MIMO Radiated Band Edge Measurements (320MHz BW – Partial Tone – MRU)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	10104
Distance of Measurements:	3 Meters
Operating Frequency:	6105MHz
Channel:	31

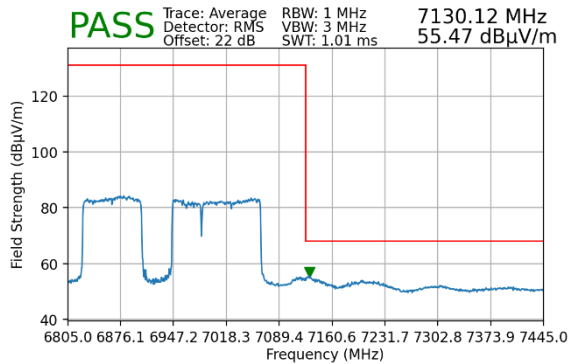


Plot 7-143. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 3x996T)

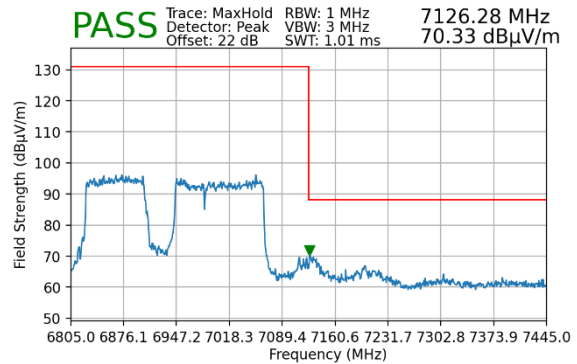


Plot 7-144. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 3x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	11100
Distance of Measurements:	3 Meters
Operating Frequency:	6905MHz
Channel:	191



Plot 7-145. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 2x996+484T)

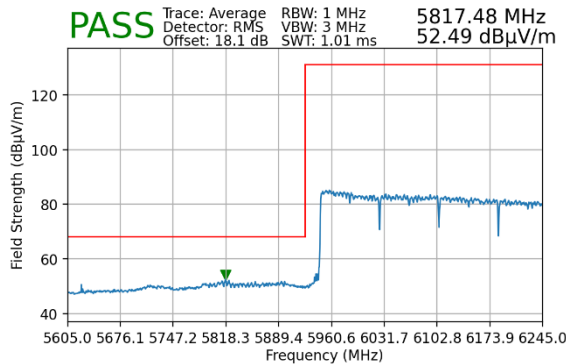


Plot 7-146. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996+484T)

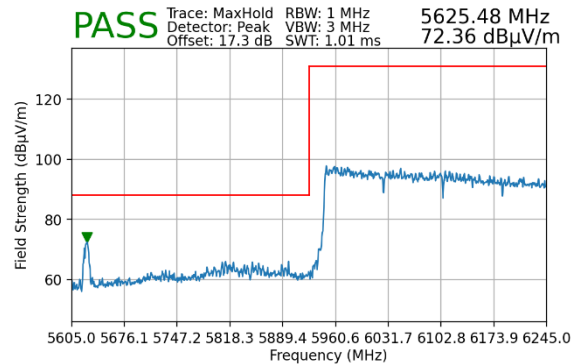
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 1M2312180128-07.A3L	Test Dates: 12/15/2023 – 1/11/2024	EUT Type: Portable Tablet	Page 105 of 107

7.7.11 MIMO Radiated Band Edge Measurements (320MHz BW – Full Tone – 4x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	69
Distance of Measurements:	3 Meters
Operating Frequency:	6105MHz
Channel:	31

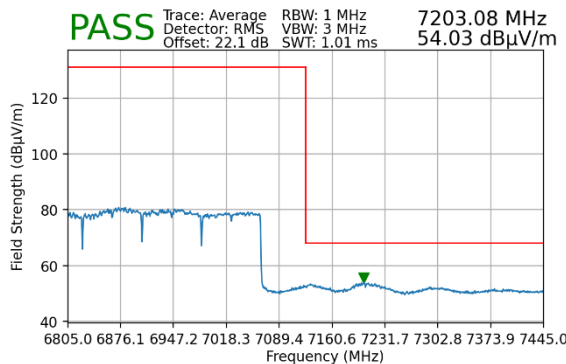


Plot 7-147. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 4x996T)

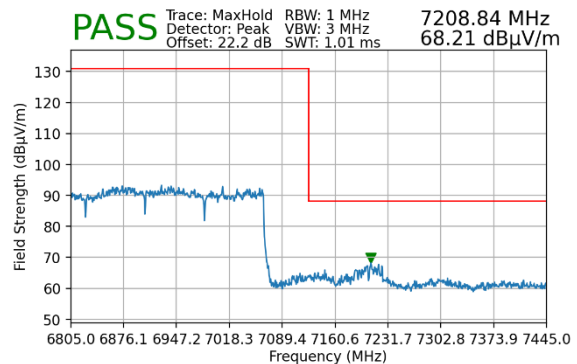


Plot 7-148. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 4x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	69
Distance of Measurements:	3 Meters
Operating Frequency:	6905MHz
Channel:	191



Plot 7-149. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 4x996T)



Plot 7-150. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 4x996T)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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8 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX910, IC: 649E-SMX910** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device and with RSS-248 of the ISED Canada rules.

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 1M2312180128-07.A3L	Test Dates: 12/15/2023 – 1/11/2024	EUT Type: Portable Tablet	Page 107 of 107