



Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	-	-	-77.81	2.89	32.08	53.98	-21.90
4874.00	Peak	V	-	-	-66.36	2.89	43.53	73.98	-30.45
7311.00	Avg	V	-	-	-78.26	8.87	37.61	53.98	-16.37
7311.00	Peak	V	-	-	-66.86	8.87	49.01	73.98	-24.97
12185.00	Avg	V	-	-	-79.95	12.99	40.04	53.98	-13.93
12185.00	Peak	V	-	-	-68.60	12.99	51.39	73.98	-22.58

Table 7-19. Radiated Measurements SISO ANT2 (242 Tones)

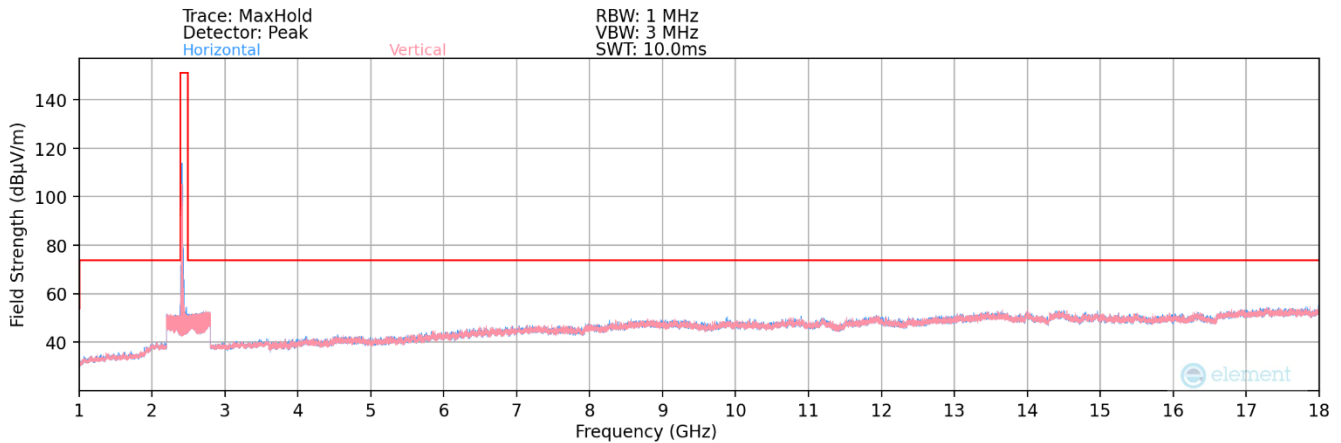
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-77.98	2.87	31.89	53.98	-22.09
4924.00	Peak	V	-	-	-66.04	2.87	43.83	73.98	-30.15
7386.00	Avg	V	-	-	-78.31	8.86	37.55	53.98	-16.43
7386.00	Peak	V	-	-	-66.26	8.86	49.60	73.98	-24.38
12310.00	Avg	V	-	-	-80.10	13.13	40.03	53.98	-13.95
12310.00	Peak	V	-	-	-68.92	13.13	51.21	73.98	-22.77

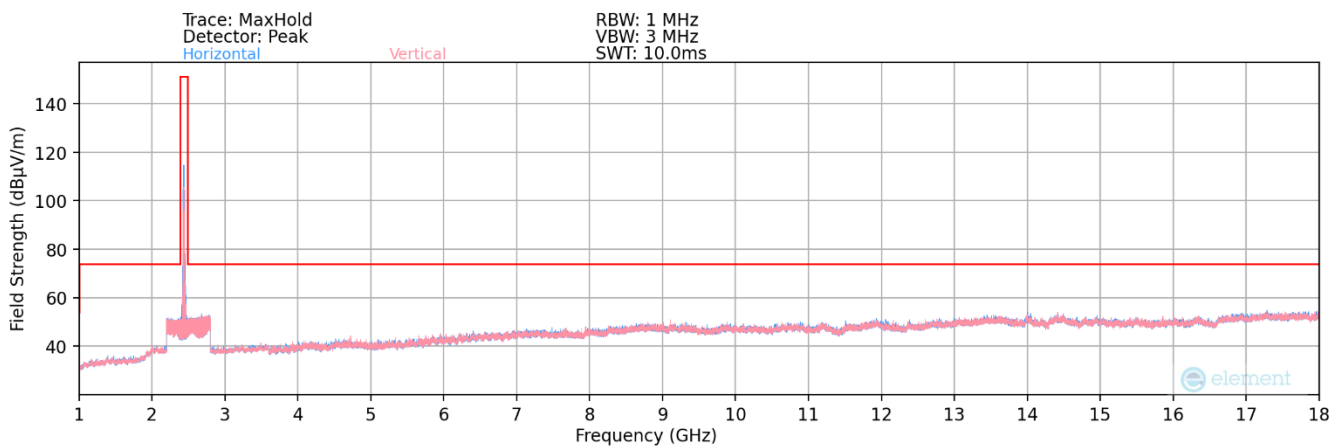
Table 7-20. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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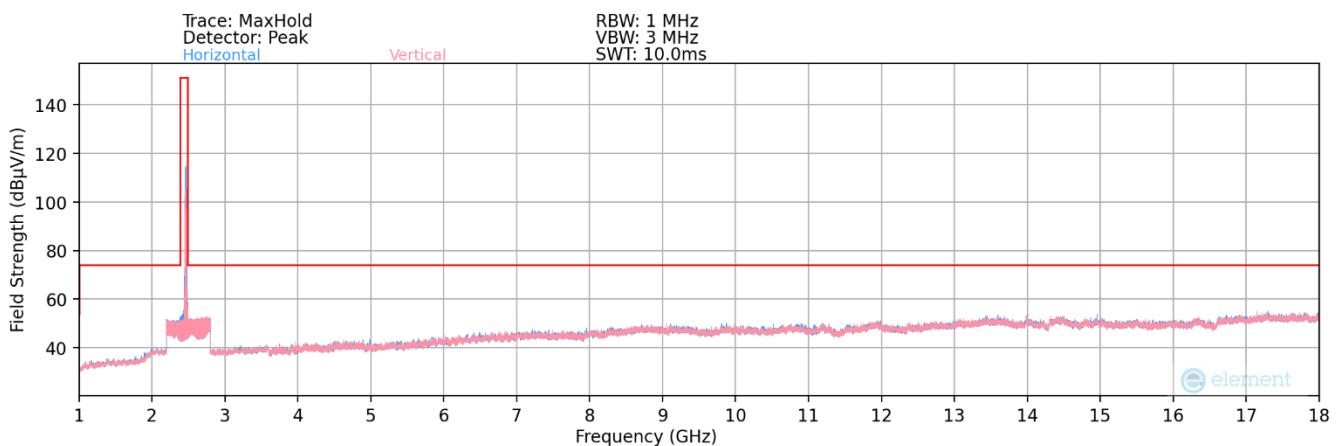
7.7.2 MIMO Radiated Spurious Emission Measurements



Plot 7-105. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 1)

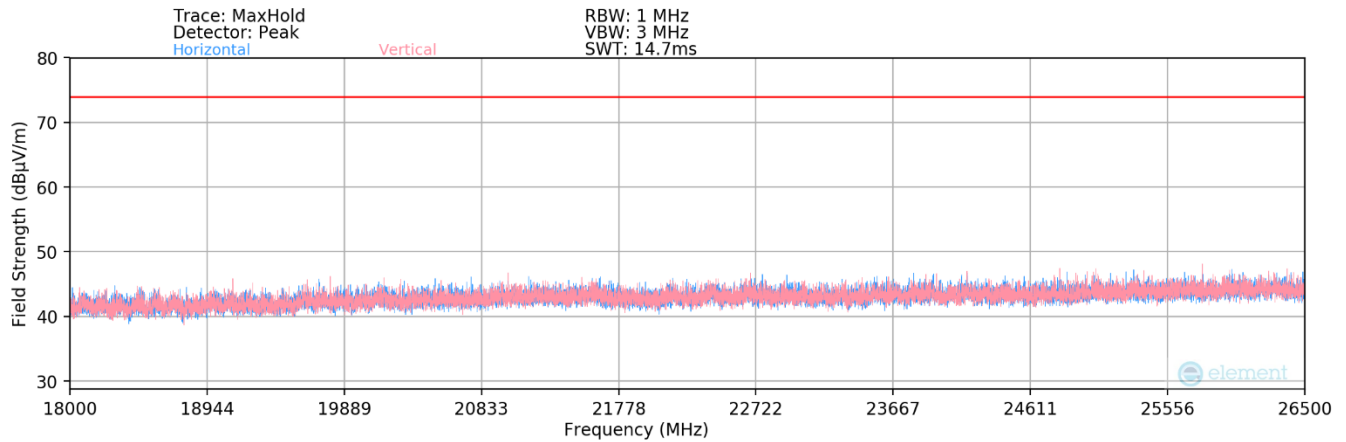


Plot 7-106. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 6)

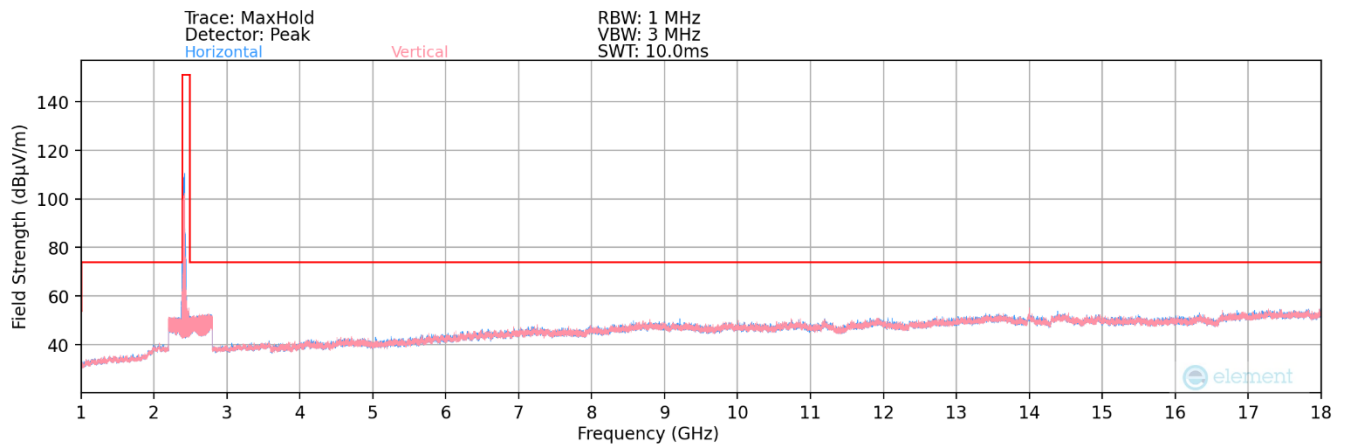


Plot 7-107. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 11)

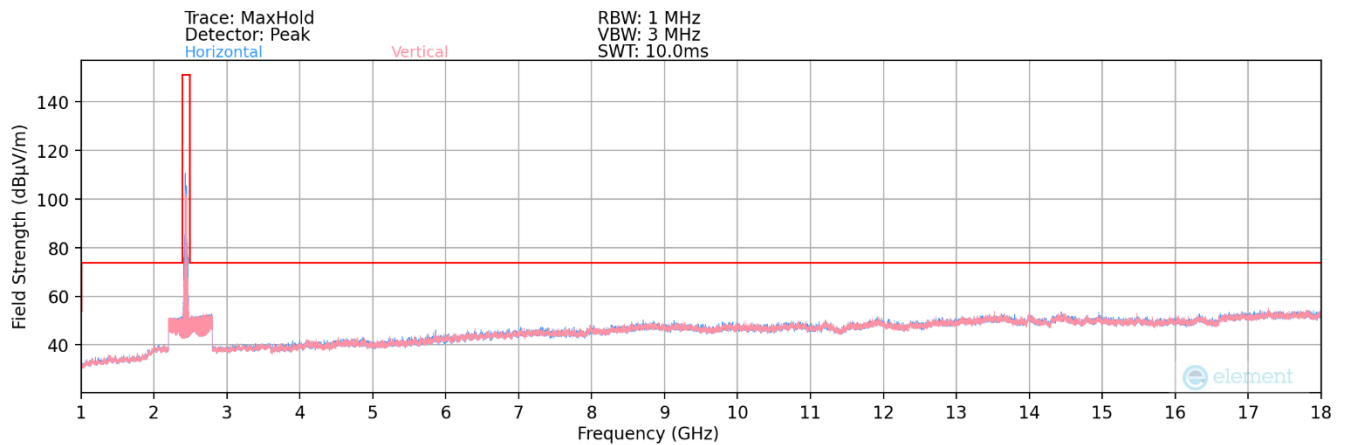
FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260063-14.A3L	Test Dates: 5/30 - 8/8/2023	EUT Type: Portable Handset	Page 85 of 99



Plot 7-108. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 26 Tones)

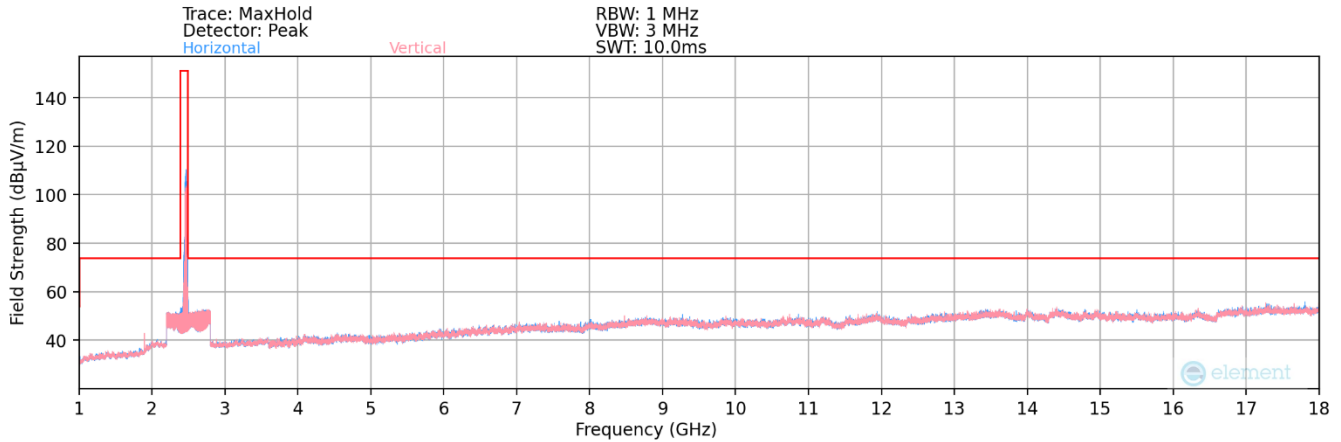


Plot 7-109. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 1)

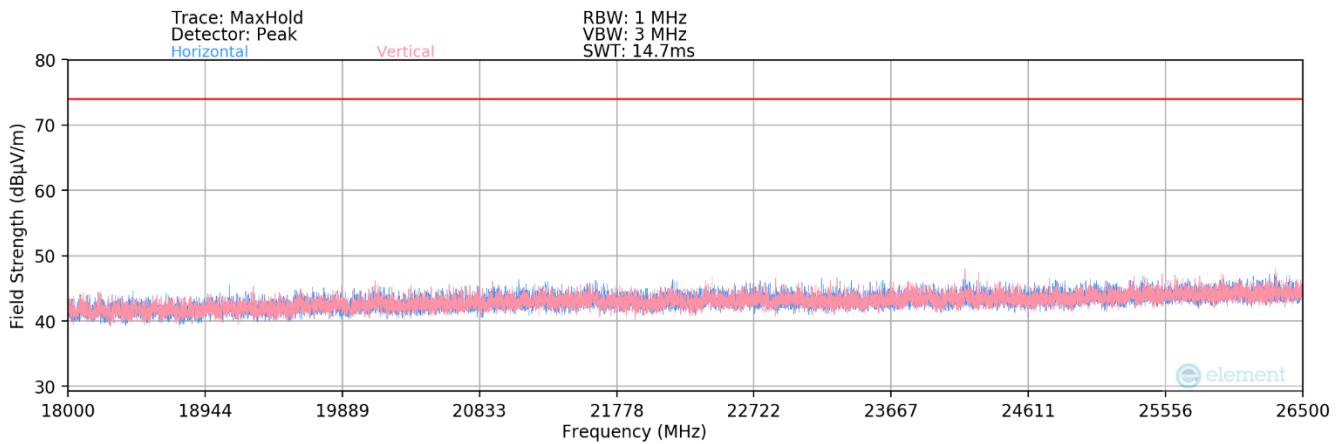


Plot 7-110. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 6)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-111. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 11)



Plot 7-112. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260063-14.A3L	Test Dates: 5/30 - 8/8/2023	EUT Type: Portable Handset	Page 87 of 99



MIMO Radiated Spurious Emission Measurements

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	-	-	-77.78	2.68	31.90	53.98	-22.08
4824.00	Peak	H	-	-	-66.27	2.68	43.41	73.98	-30.57
12060.00	Avg	H	-	-	-79.35	12.71	40.36	53.98	-13.61
12060.00	Peak	H	-	-	-68.06	12.71	51.65	73.98	-22.32

Table 7-21. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-77.80	2.89	32.09	53.98	-21.89
4874.00	Peak	H	-	-	-66.50	2.89	43.39	73.98	-30.59
7311.00	Avg	H	-	-	-78.36	8.87	37.51	53.98	-16.47
7311.00	Peak	H	-	-	-65.80	8.87	50.07	73.98	-23.91
12185.00	Avg	H	-	-	-79.90	12.99	40.09	53.98	-13.88
12185.00	Peak	H	-	-	-68.44	12.99	51.55	73.98	-22.42

Table 7-22. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	H	-	-	-78.05	2.87	31.82	53.98	-22.16
4924.00	Peak	H	-	-	-65.84	2.87	44.03	73.98	-29.95
7386.00	Avg	H	-	-	-78.35	8.86	37.51	53.98	-16.47
7386.00	Peak	H	-	-	-67.09	8.86	48.77	73.98	-25.21
12310.00	Avg	H	-	-	-80.03	13.13	40.10	53.98	-13.88
12310.00	Peak	H	-	-	-68.33	13.13	51.80	73.98	-22.18

Table 7-23. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-77.80	2.68	31.88	53.98	-22.10
4824.00	Peak	H	-	-	-65.79	2.68	43.89	73.98	-30.09
12060.00	Avg	H	-	-	-79.40	12.71	40.31	53.98	-13.66
12060.00	Peak	H	-	-	-67.71	12.71	52.00	73.98	-21.97

Table 7-24. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260063-14.A3L	Test Dates: 5/30 - 8/8/2023	EUT Type: Portable Handset	Page 89 of 99



Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-77.98	2.89	31.91	53.98	-22.07
4874.00	Peak	H	-	-	-65.35	2.89	44.54	73.98	-29.44
7311.00	Avg	H	-	-	-78.38	8.87	37.49	53.98	-16.49
7311.00	Peak	H	-	-	-66.79	8.87	49.08	73.98	-24.90
12185.00	Avg	H	-	-	-79.91	12.99	40.08	53.98	-13.89
12185.00	Peak	H	-	-	-68.29	12.99	51.70	73.98	-22.27

Table 7-25. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-78.01	2.87	31.86	53.98	-22.12
4924.00	Peak	H	-	-	-66.21	2.87	43.66	73.98	-30.32
7386.00	Avg	H	-	-	-78.35	8.86	37.51	53.98	-16.47
7386.00	Peak	H	-	-	-65.99	8.86	49.87	73.98	-24.11
12310.00	Avg	H	-	-	-80.09	13.13	40.04	53.98	-13.94
12310.00	Peak	H	-	-	-68.69	13.13	51.44	73.98	-22.54

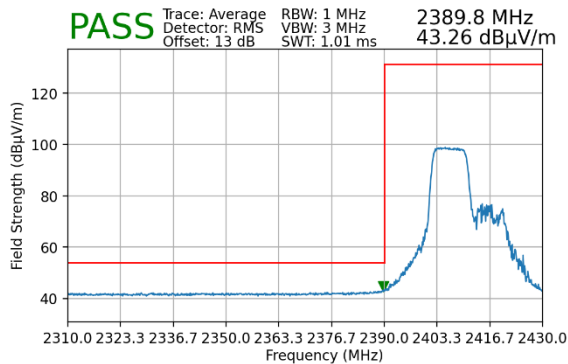
Table 7-26. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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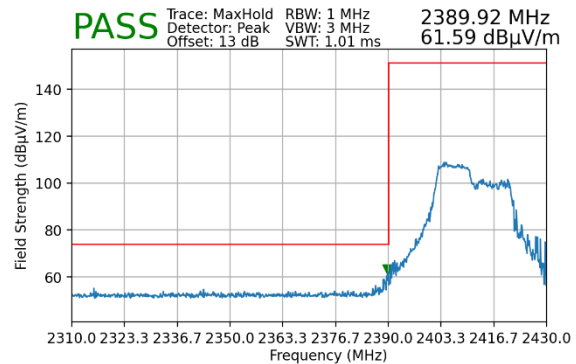
7.7.3 SISO Antenna-2 Radiated Restricted Band Edge Measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

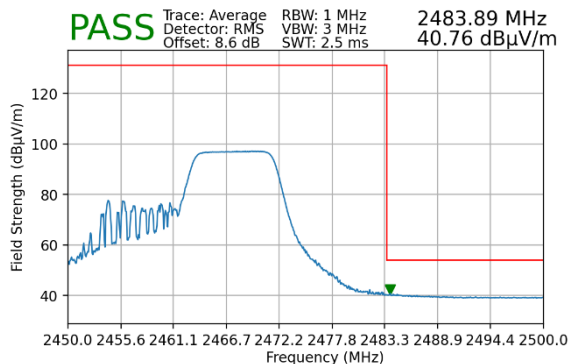


Plot 7-113. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones)

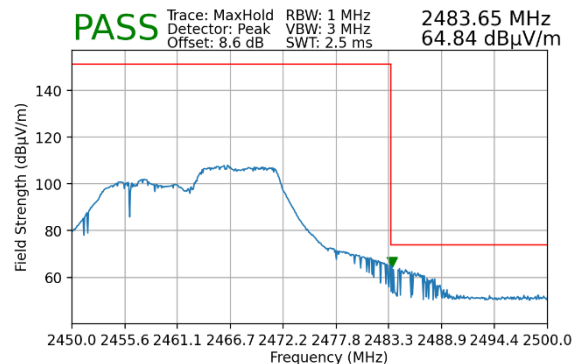


Plot 7-114. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



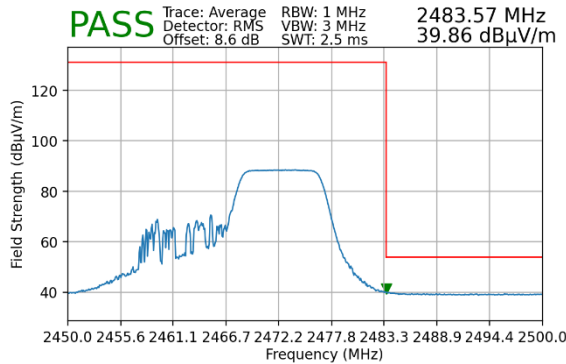
Plot 7-115. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)



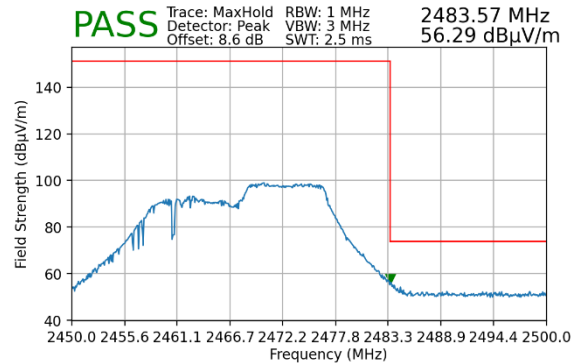
Plot 7-116. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

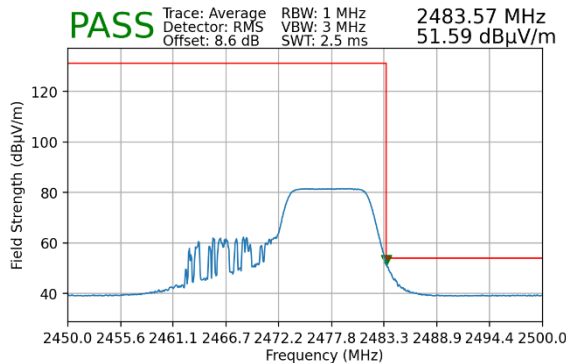


Plot 7-117. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)

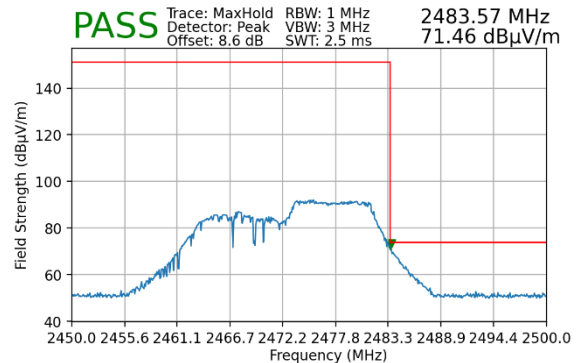


Plot 7-118. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-119. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)

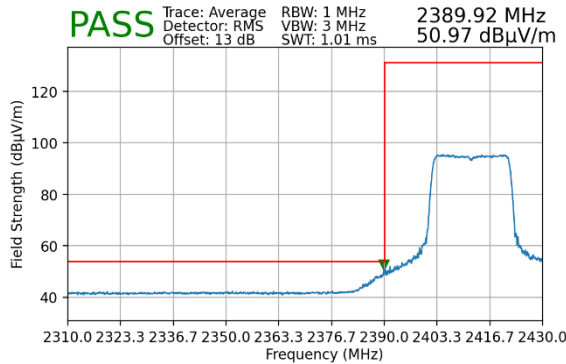


Plot 7-120. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

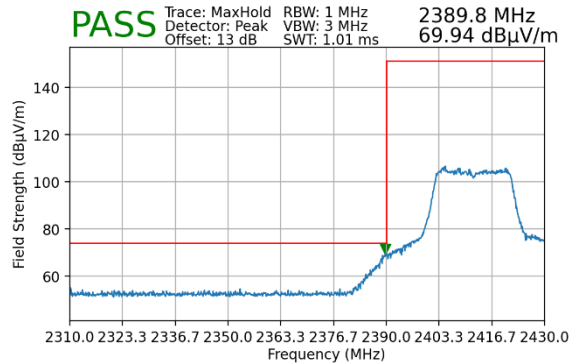
FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

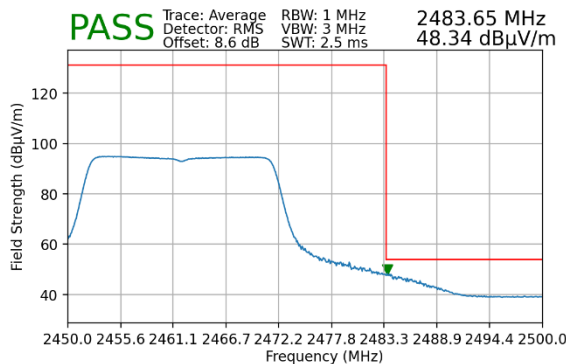


Plot 7-121. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones)

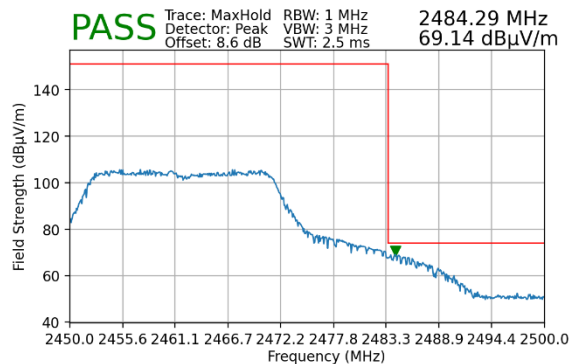


Plot 7-122. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



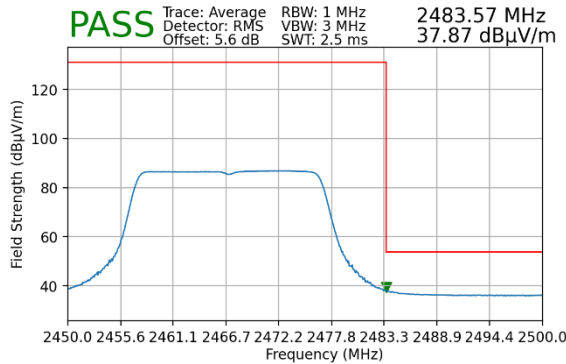
Plot 7-123. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)



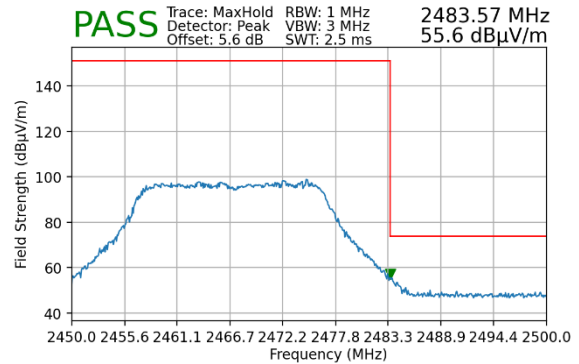
Plot 7-124. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

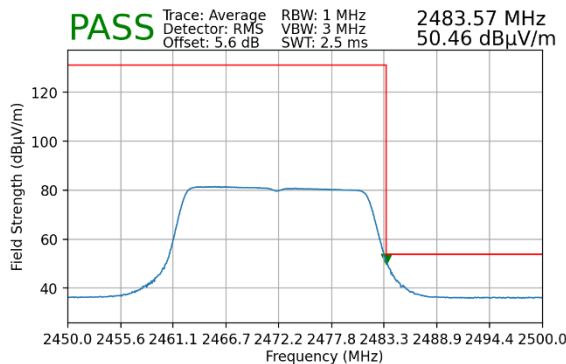


Plot 7-125. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)

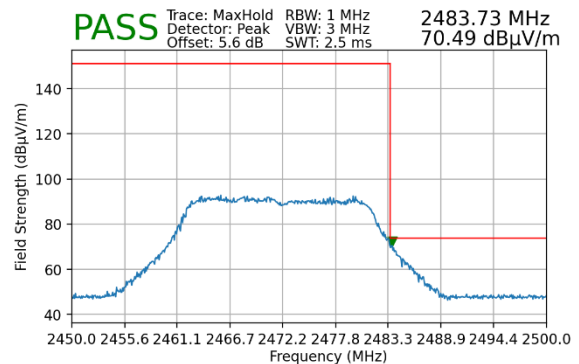


Plot 7-126. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-127. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)



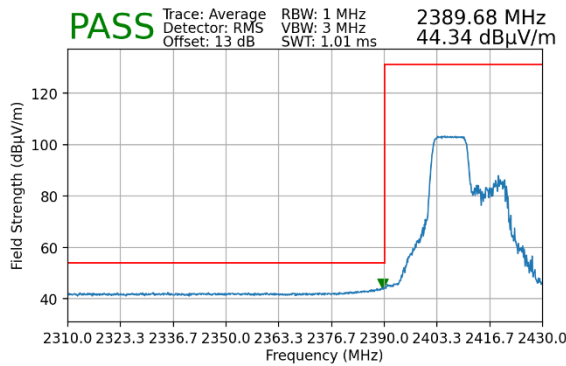
Plot 7-128. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260063-14.A3L	Test Dates: 5/30 - 8/8/2023	EUT Type: Portable Handset	Page 94 of 99

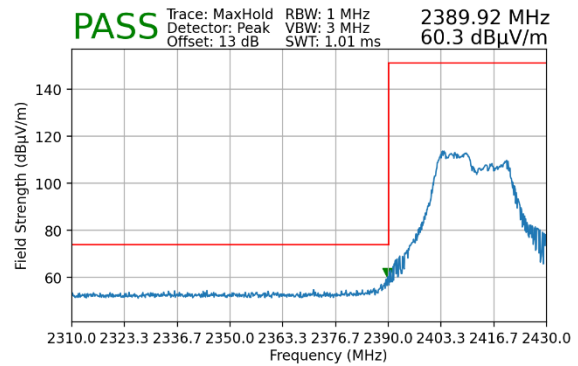
7.7.4 MIMO Radiated Restricted Band Edge Measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

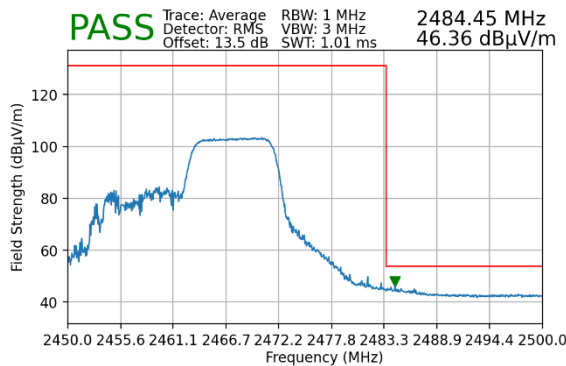


Plot 7-129. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)

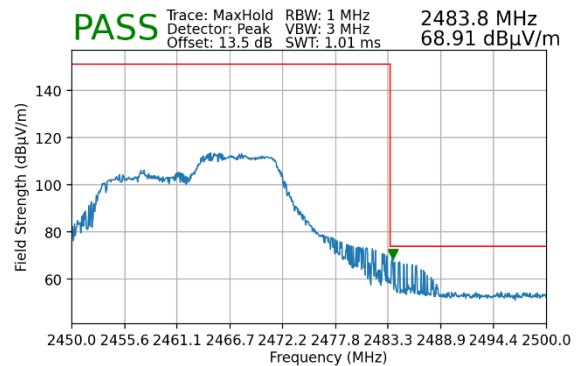


Plot 7-130. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



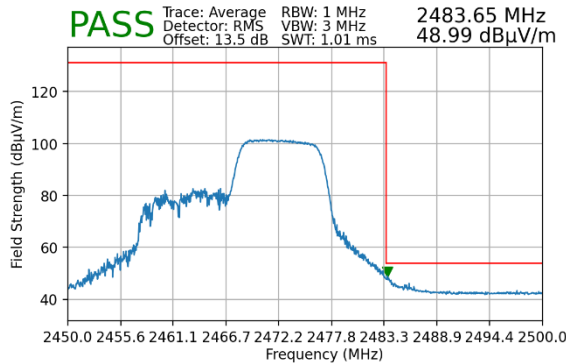
Plot 7-131. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



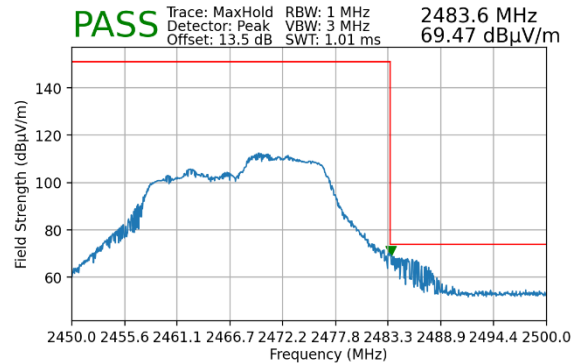
Plot 7-132. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

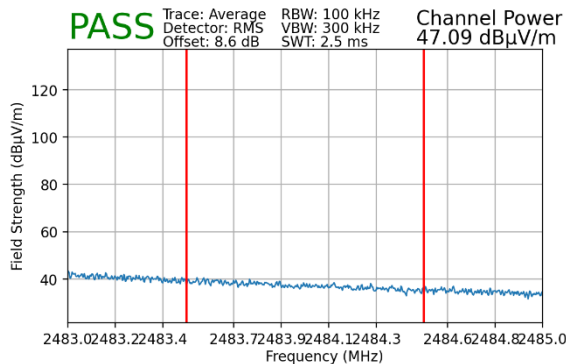


Plot 7-133. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)

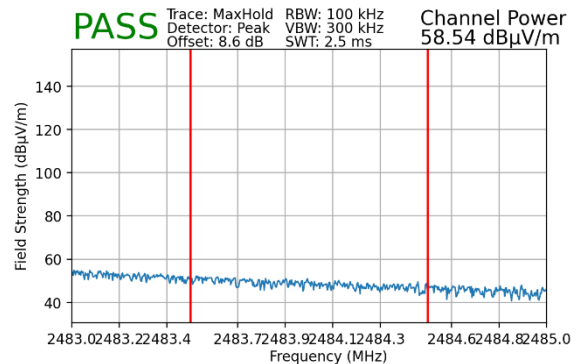


Plot 7-134. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



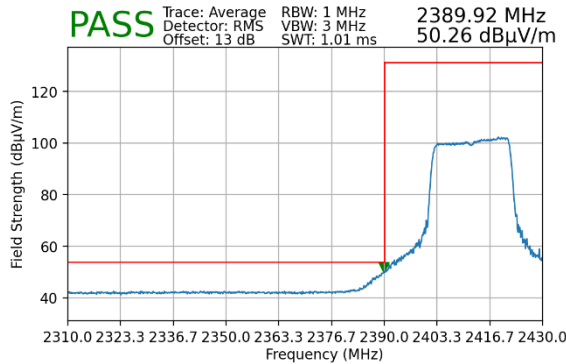
Plot 7-135. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



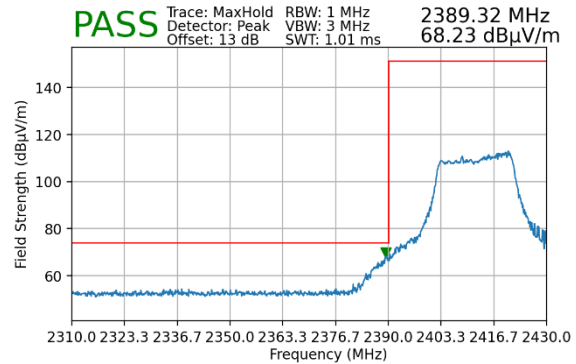
Plot 7-136. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

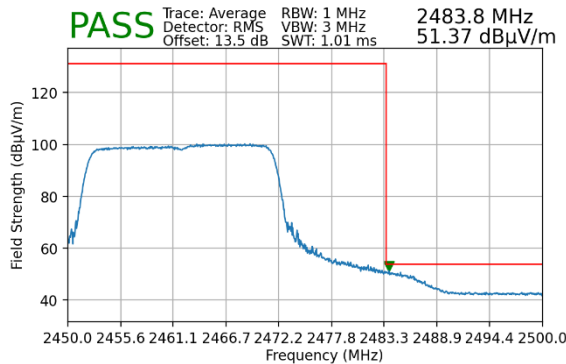


Plot 7-137. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)

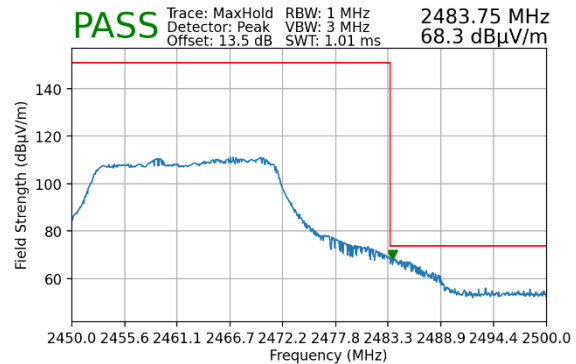


Plot 7-138. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



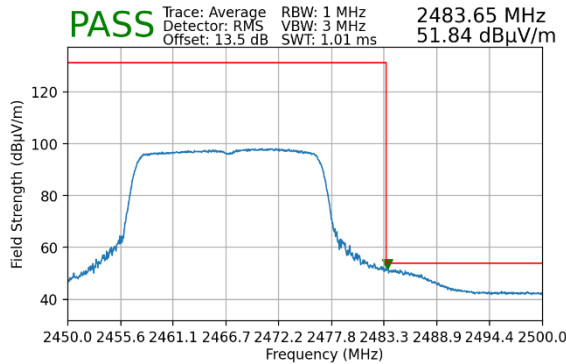
Plot 7-139. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



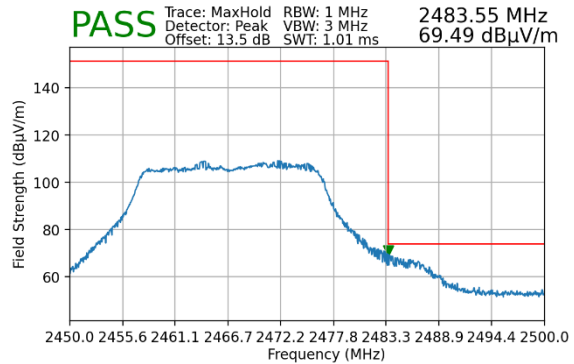
Plot 7-140. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

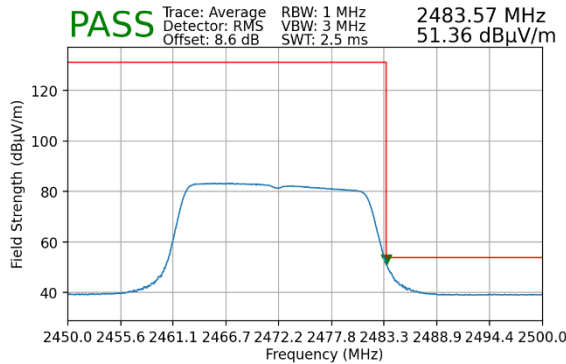


Plot 7-141. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)

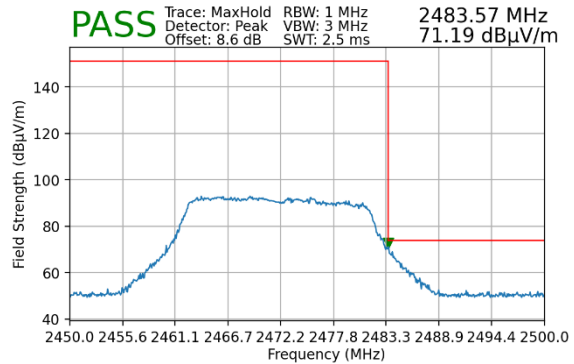


Plot 7-142. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-143. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-144. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

FCC ID: A3LSMS711B		MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS711B** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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Test Report S/N: 1M2304260063-14.A3L	Test Dates: 5/30 - 8/8/2023	EUT Type: Portable Handset	Page 99 of 99