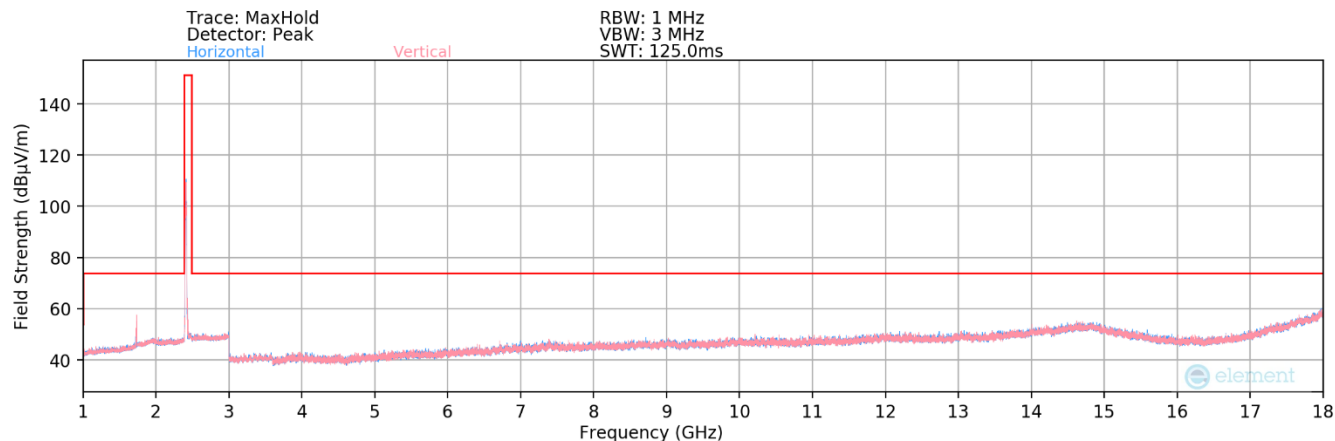
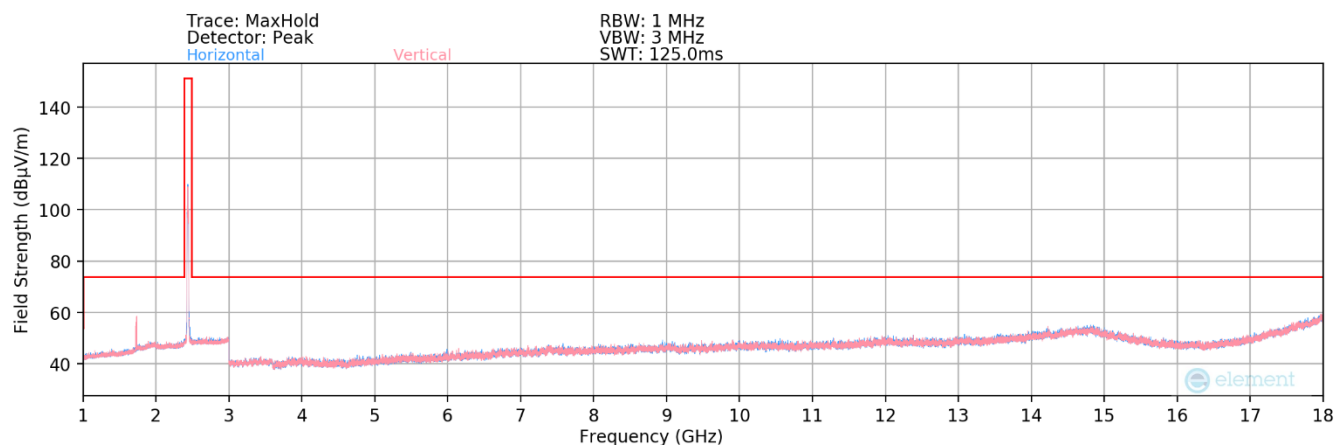


7.7.2 MIMO Radiated Spurious Emission Measurements

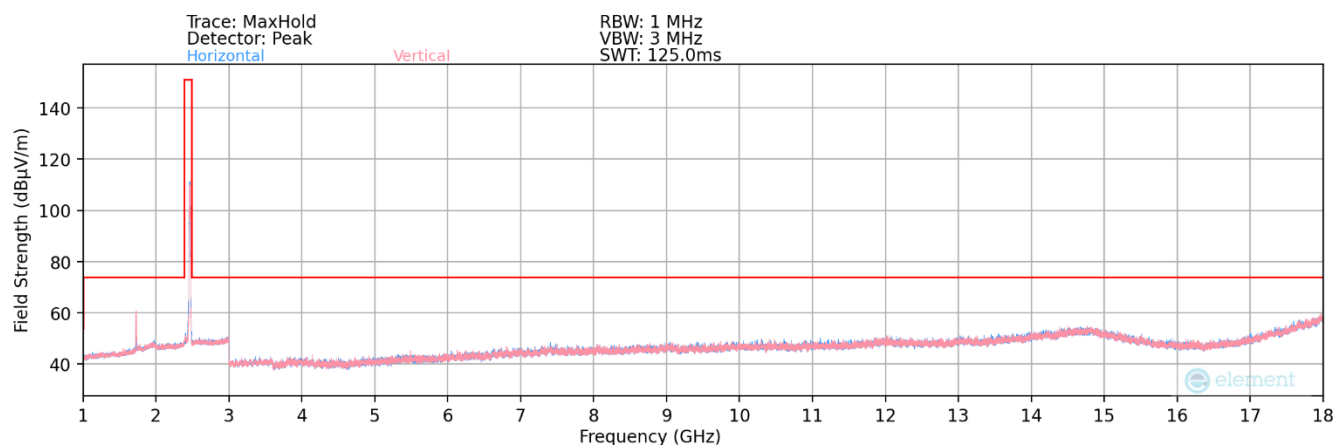
\$15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-93. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 1)

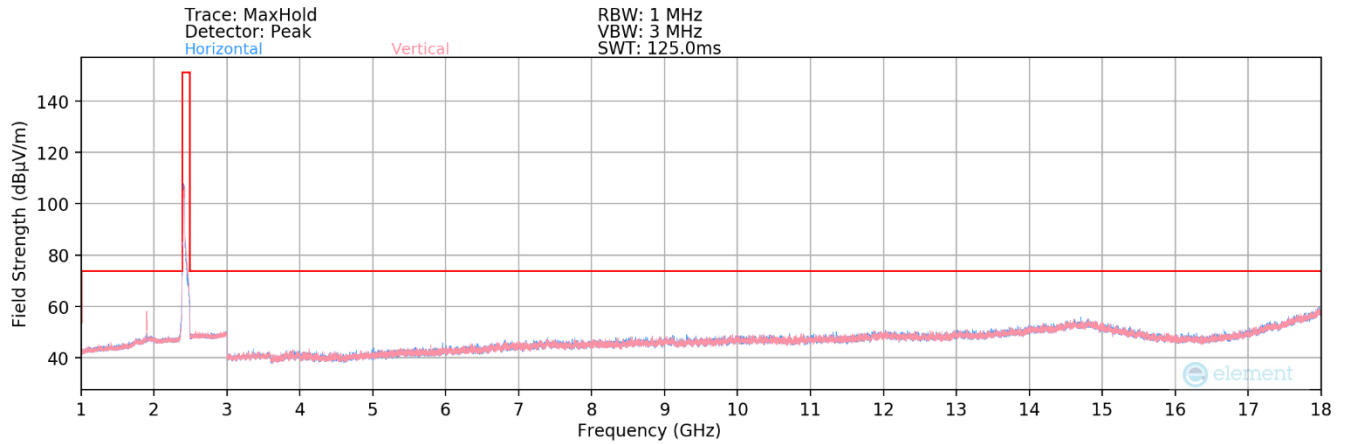


Plot 7-94. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 6)

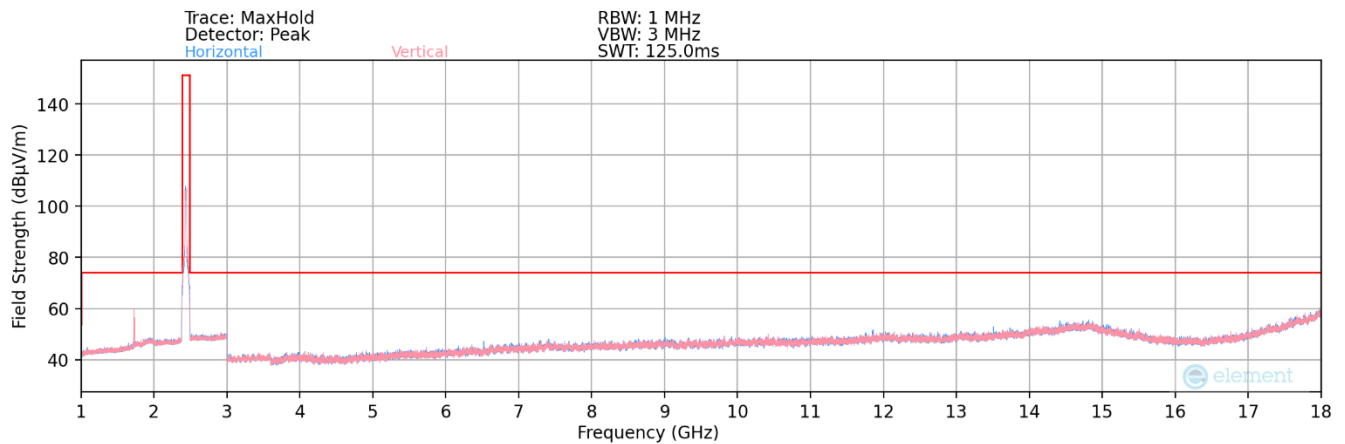


Plot 7-95. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 11)

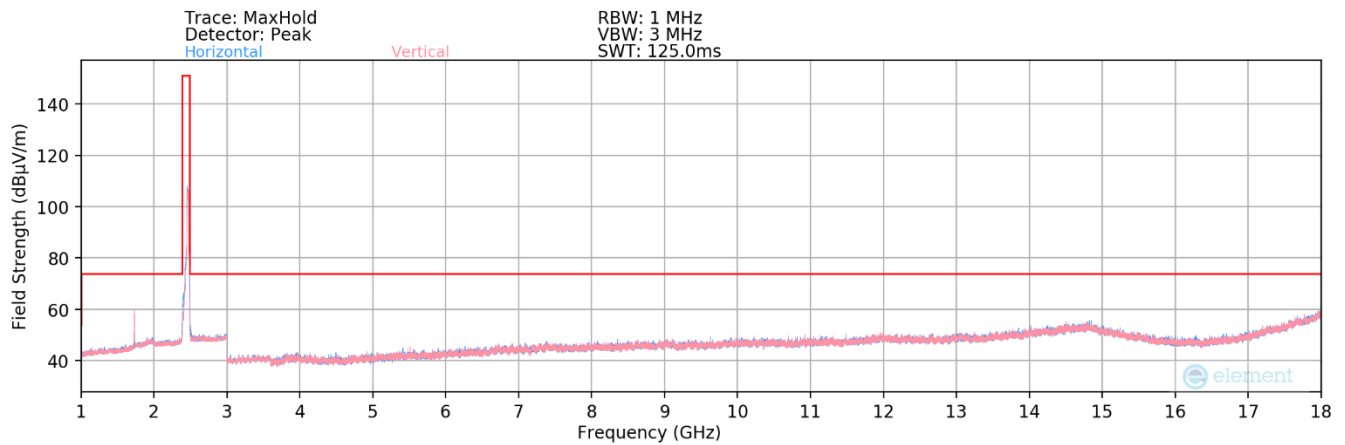
FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010098-15.A3L	Test Dates: 9/08 - 11/10/2022	EUT Type: Portable Handset	Page 82 of 92



Plot 7-96. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 1)



Plot 7-97. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 6)

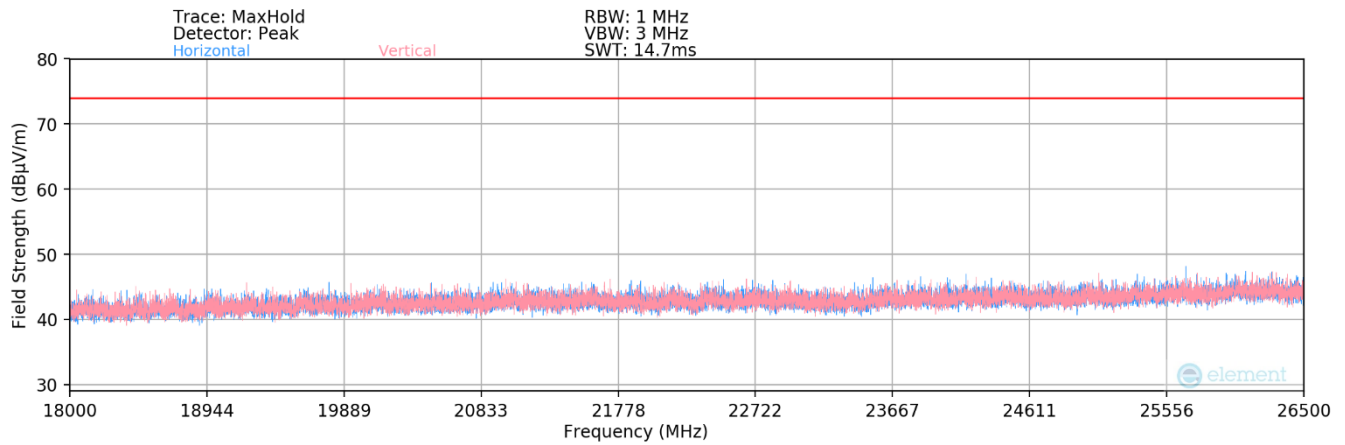


Plot 7-98. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 11)

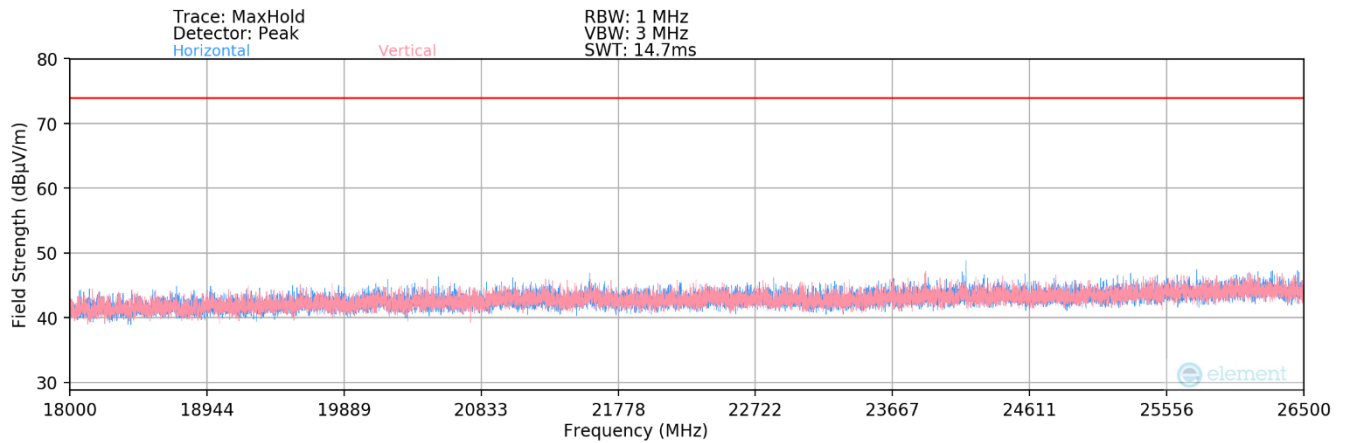
FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010098-15.A3L	Test Dates: 9/08 - 11/10/2022	EUT Type: Portable Handset	Page 83 of 92

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-99. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 26 Tones)



Plot 7-100. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)

FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

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]
4824.00	Avg	H	-	-	-76.95	-0.98	0.00	29.07	53.98	-24.91
4824.00	Peak	H	-	-	-61.58	-0.98	0.00	44.44	73.98	-29.54
12060.00	Avg	H	-	-	-76.92	9.97	0.00	40.05	53.98	-13.93
12060.00	Peak	H	-	-	-64.60	9.97	0.00	52.37	73.98	-21.61

Table 7-22. 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:	06

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]
4874.00	Avg	H	-	-	-76.97	-1.19	0.00	28.84	53.98	-25.14
4874.00	Peak	H	-	-	-61.42	-1.19	0.00	44.39	73.98	-29.59
7311.00	Avg	H	-	-	-75.28	4.65	0.00	36.37	53.98	-17.61
7311.00	Peak	H	-	-	-63.17	4.65	0.00	48.48	73.98	-25.50
12185.00	Avg	H	-	-	-76.91	9.97	0.00	40.06	53.98	-13.92
12185.00	Peak	H	-	-	-64.21	9.97	0.00	52.76	73.98	-21.22

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

FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-74.40	-0.66	0.00	31.94	53.98	-22.04
4924.00	Peak	H	-	-	-62.38	-0.66	0.00	43.96	73.98	-30.02
7386.00	Avg	H	-	-	-75.32	5.14	0.00	36.82	53.98	-17.16
7386.00	Peak	H	-	-	-63.47	5.14	0.00	48.67	73.98	-25.31
12310.00	Avg	H	-	-	-77.06	9.92	0.00	39.86	53.98	-14.12
12310.00	Peak	H	-	-	-64.71	9.92	0.00	52.21	73.98	-21.77

Table 7-24. 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: 01

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]
4824.00	Avg	H	-	-	-74.10	-0.98	0.00	31.92	53.98	-22.06
4824.00	Peak	H	-	-	-62.07	-0.98	0.00	43.95	73.98	-30.03
12060.00	Avg	H	-	-	-76.86	9.97	0.00	40.11	53.98	-13.87
12060.00	Peak	H	-	-	-65.19	9.97	0.00	51.78	73.98	-22.20

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

FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		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: 2437MHz
 Channel: 06

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]
4874.00	Avg	H	-	-	-74.15	-1.19	0.00	31.66	53.98	-22.32
4874.00	Peak	H	-	-	-61.84	-1.19	0.00	43.97	73.98	-30.01
7311.00	Avg	H	-	-	-75.02	4.65	0.00	36.63	53.98	-17.35
7311.00	Peak	H	-	-	-62.90	4.65	0.00	48.75	73.98	-25.23
12185.00	Avg	H	-	-	-76.83	9.97	0.00	40.14	53.98	-13.84
12185.00	Peak	H	-	-	-64.58	9.97	0.00	52.39	73.98	-21.59

Table 7-26. 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-74.47	-0.66	0.00	31.87	53.98	-22.11
4924.00	Peak	H	-	-	-61.85	-0.66	0.00	44.49	73.98	-29.49
7386.00	Avg	H	-	-	-75.33	5.14	0.00	36.81	53.98	-17.17
7386.00	Peak	H	-	-	-63.29	5.14	0.00	48.85	73.98	-25.13
12310.00	Avg	H	-	-	-77.06	9.92	0.00	39.86	53.98	-14.12
12310.00	Peak	H	-	-	-65.46	9.92	0.00	51.46	73.98	-22.52

Table 7-27. Radiated Measurements MIMO (242 Tones)

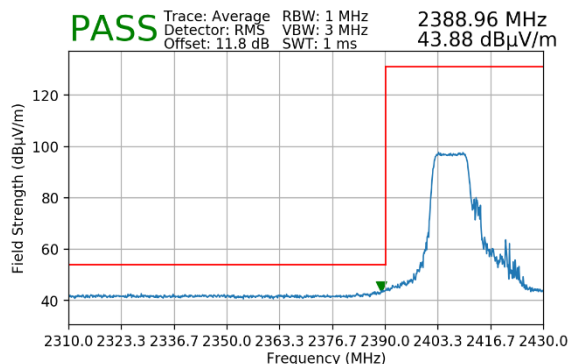
FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.4 SISO Antenna-2 Radiated Restricted Band Edge Measurements

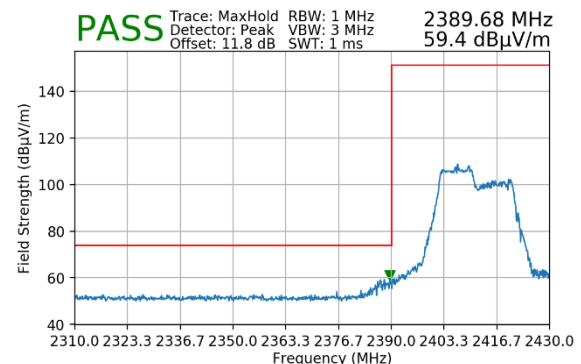
§15.205 §15.209; RSS-Gen [8.9]

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

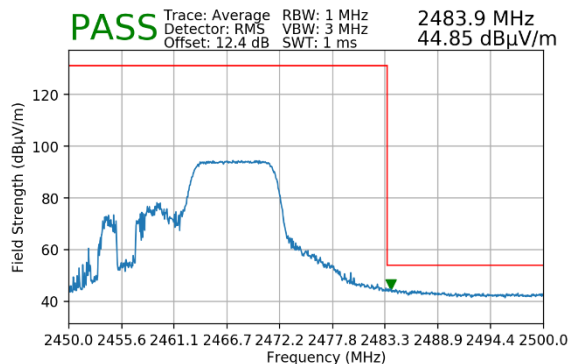


Plot 7-101. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones)

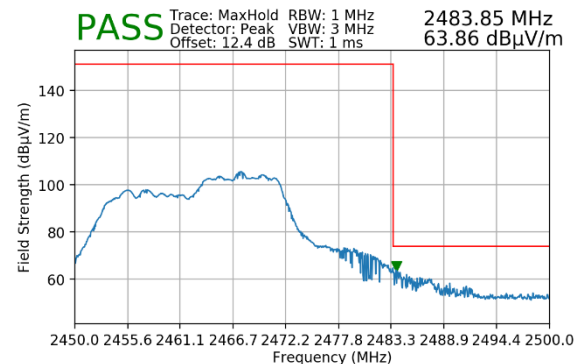


Plot 7-102. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

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



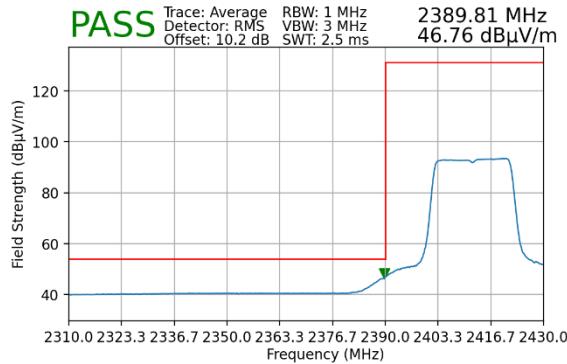
Plot 7-103. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)



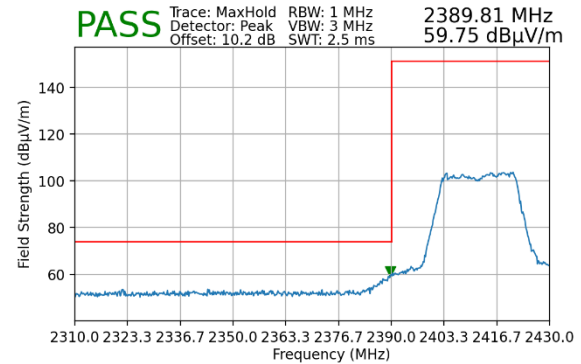
Plot 7-104. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		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

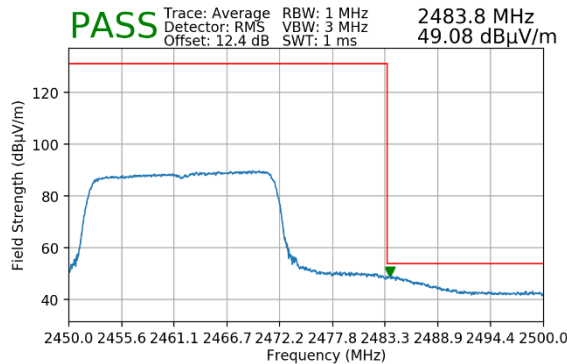


Plot 7-105. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones)

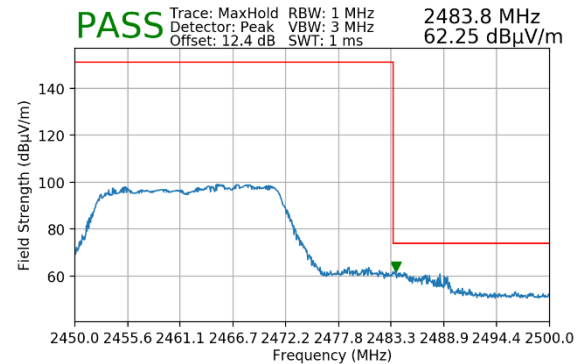


Plot 7-106. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

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 7-107. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)



Plot 7-108. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

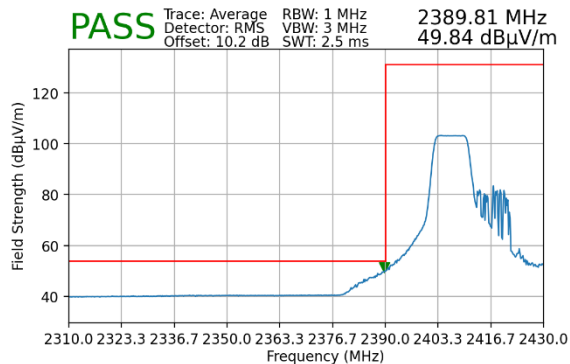
FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.5 MIMO Radiated Restricted Band Edge Measurements

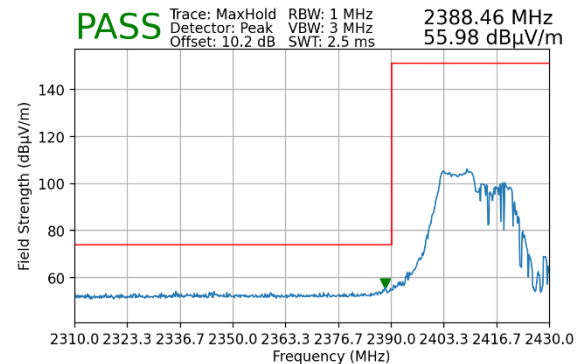
§15.205 §15.209; RSS-Gen [8.9]

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

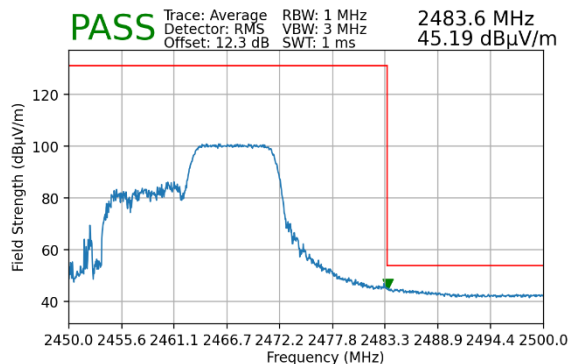


Plot 7-109. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)

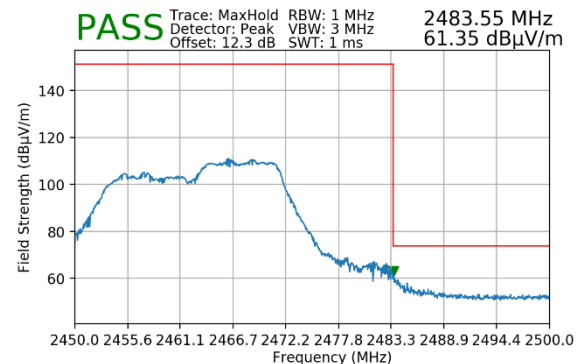


Plot 7-110. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)

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



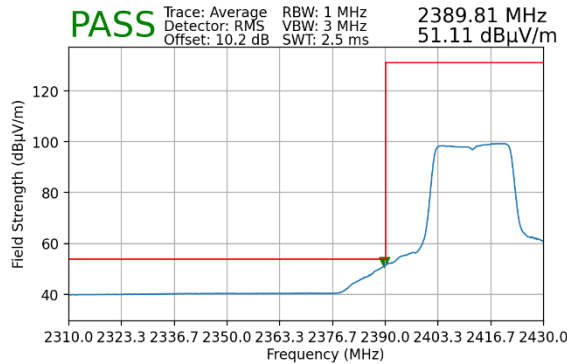
Plot 7-111. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



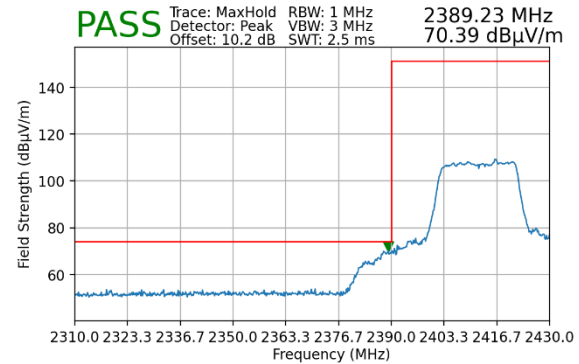
Plot 7-112. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		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

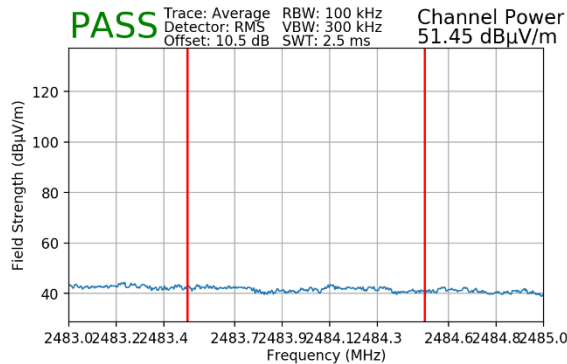


Plot 7-113. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)

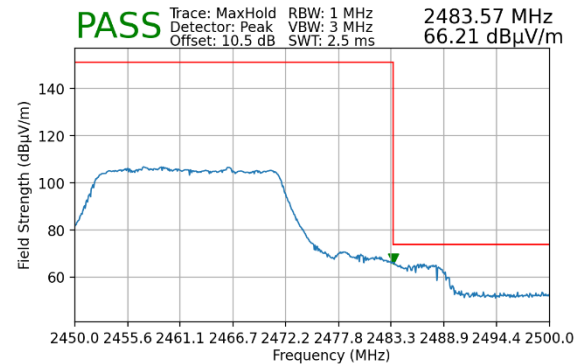


Plot 7-114. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)

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 7-115. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-116. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

FCC ID: A3LSMS918U	MEASUREMENT REPORT (CERTIFICATION)		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: A3LSMS918U** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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Test Report S/N: 1M2209010098-15.A3L	Test Dates: 9/08 - 11/10/2022	EUT Type: Portable Handset	Page 92 of 92