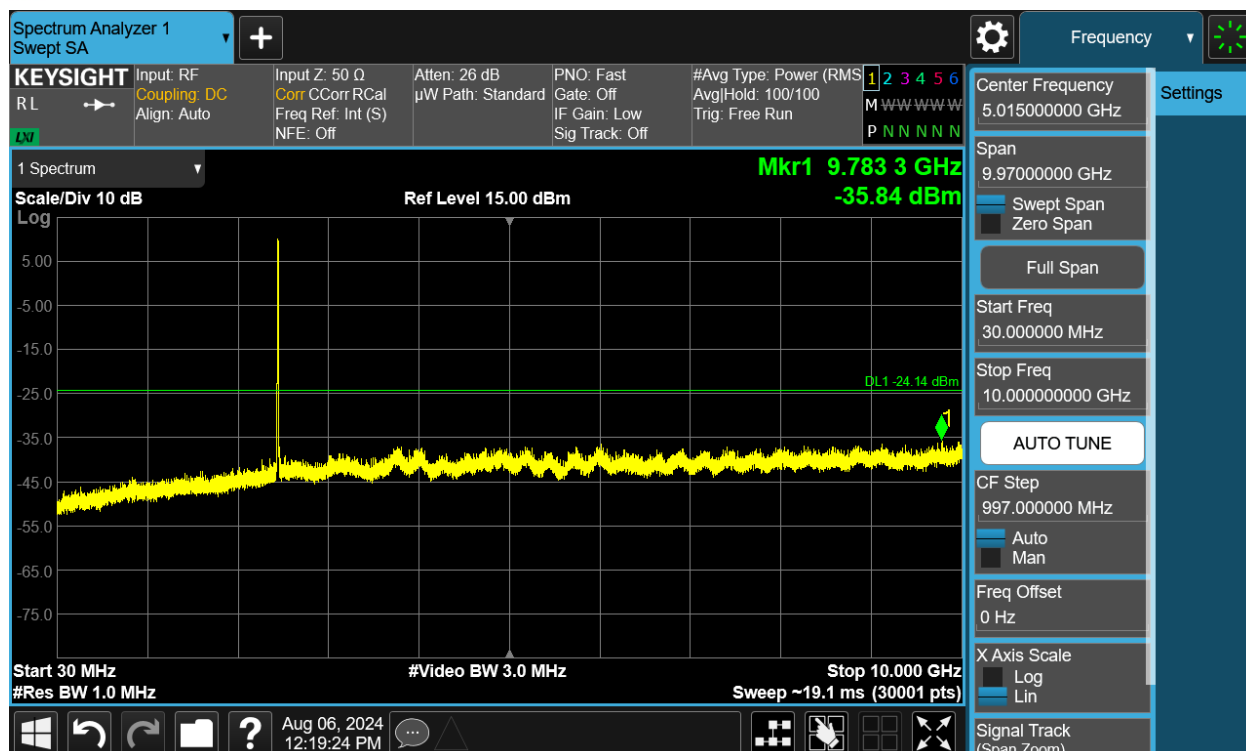
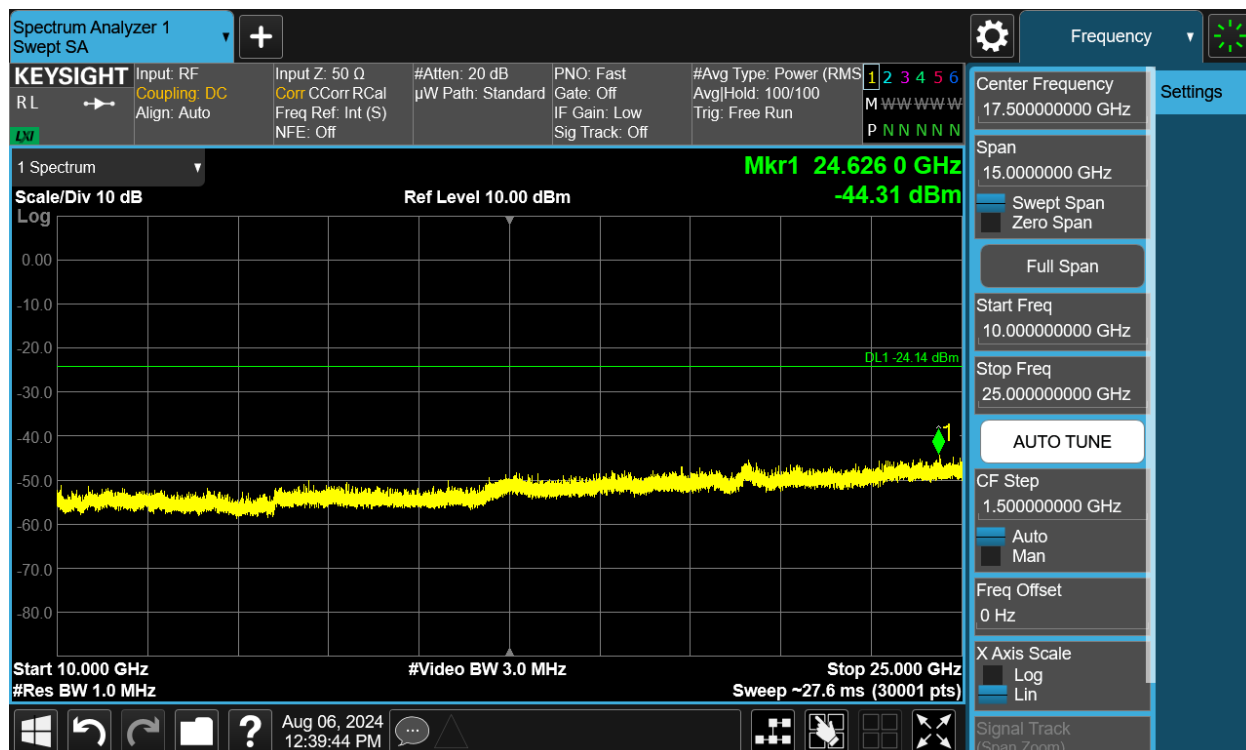


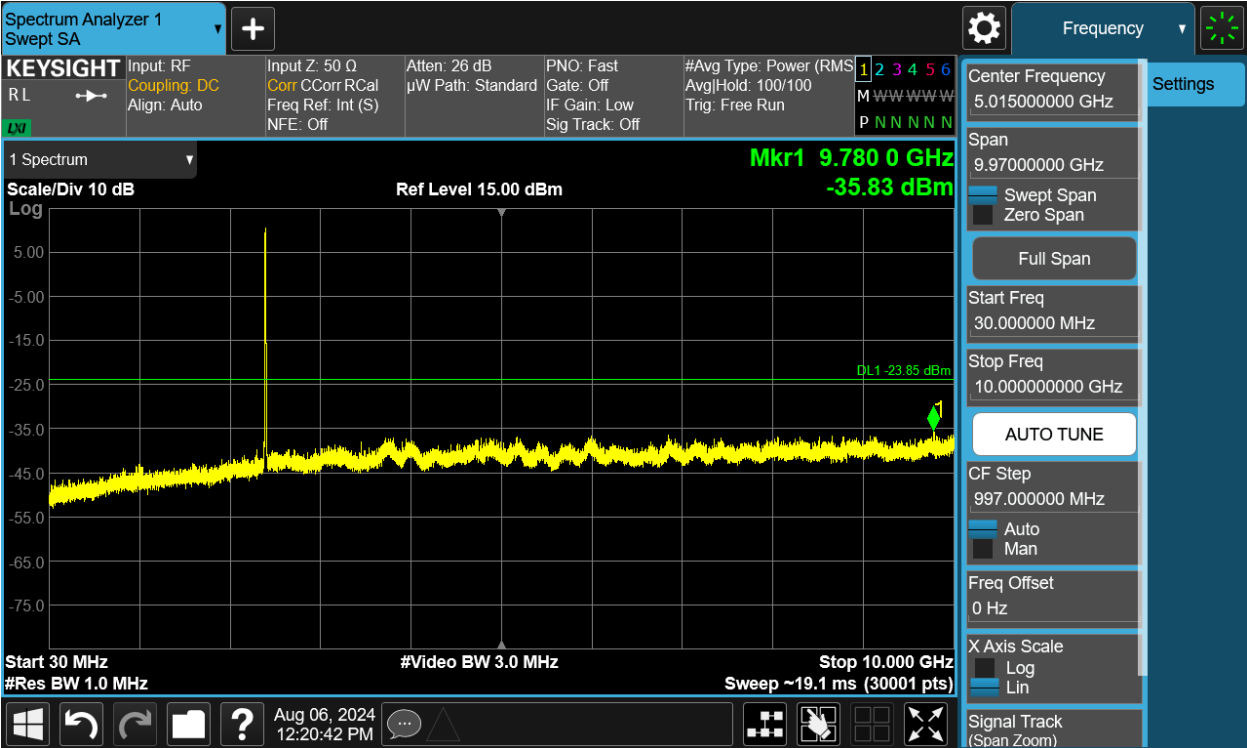


Plot 7-177. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 11)

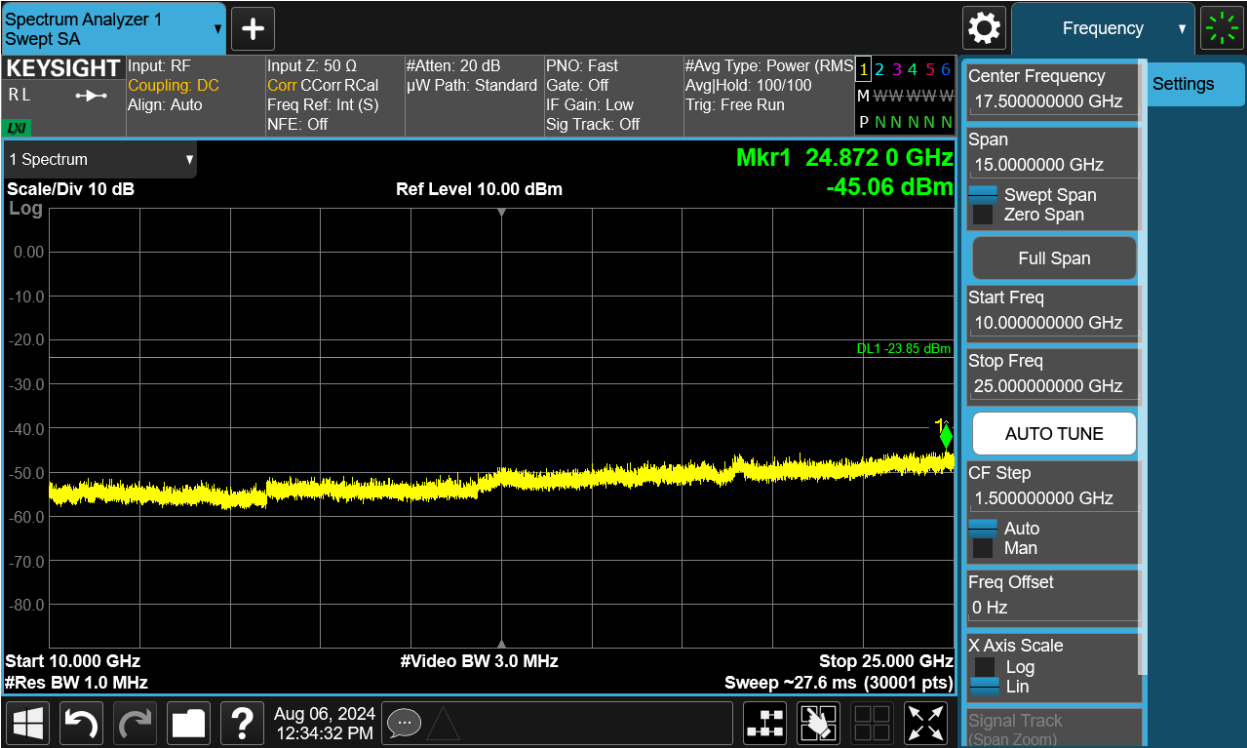


Plot 7-178. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 11)

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 120 of 150

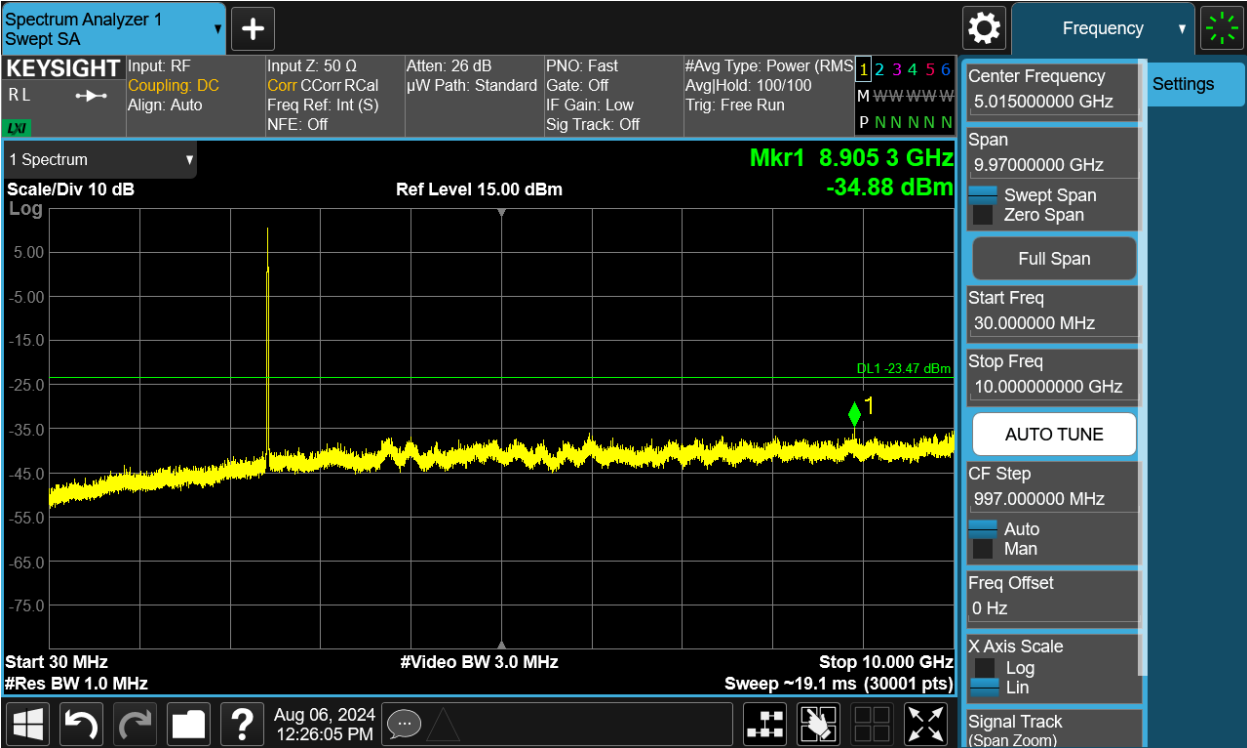


Plot 7-179. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 1)

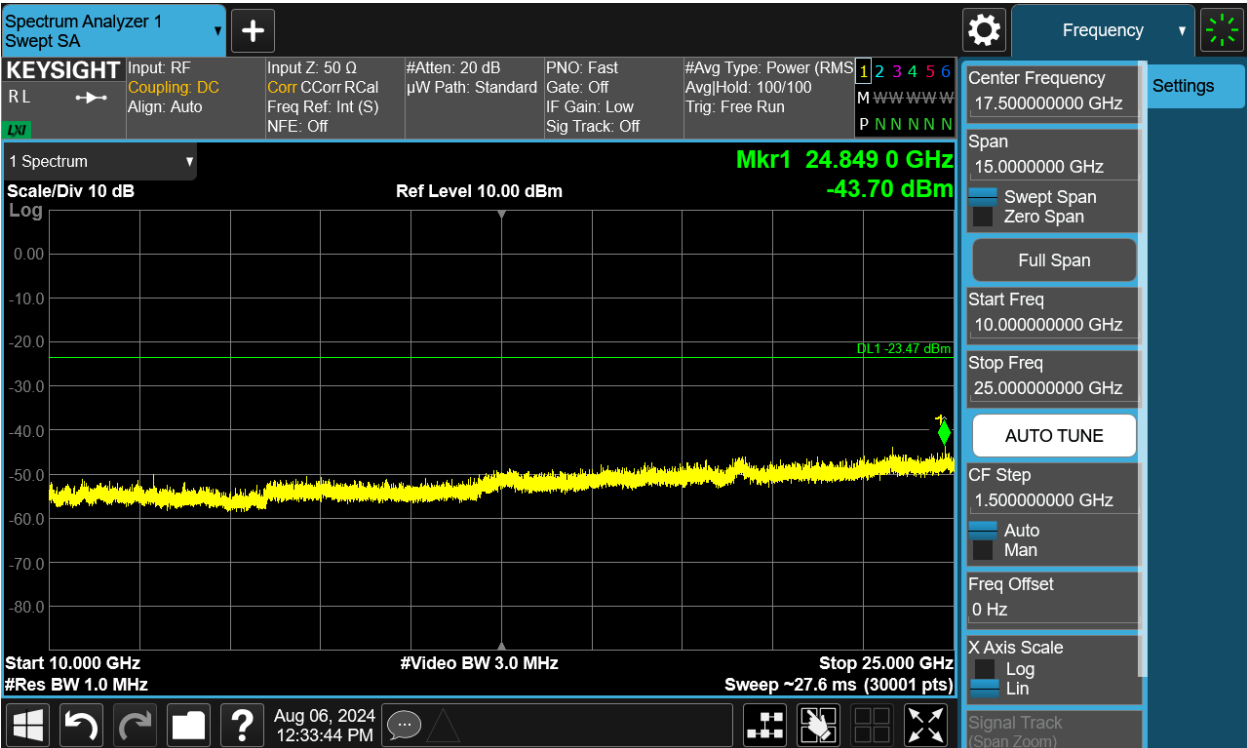


Plot 7-180. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 1)

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 121 of 150

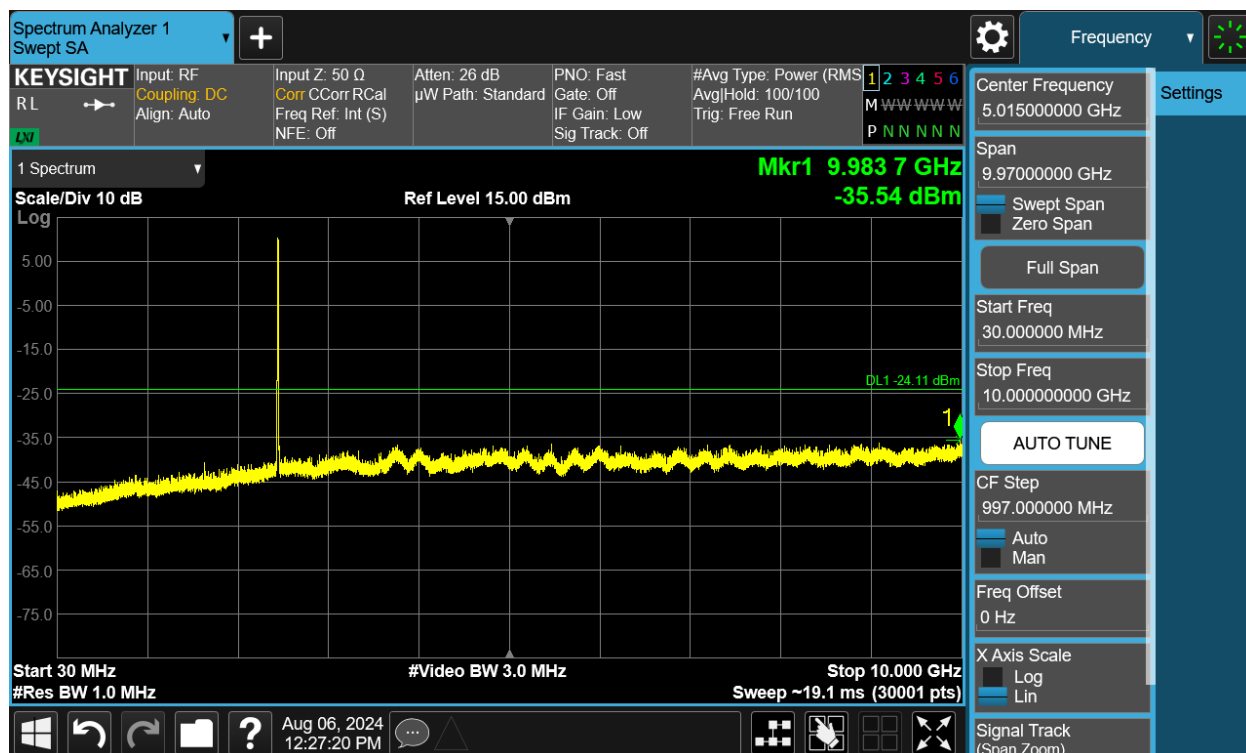


Plot 7-181. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 6)

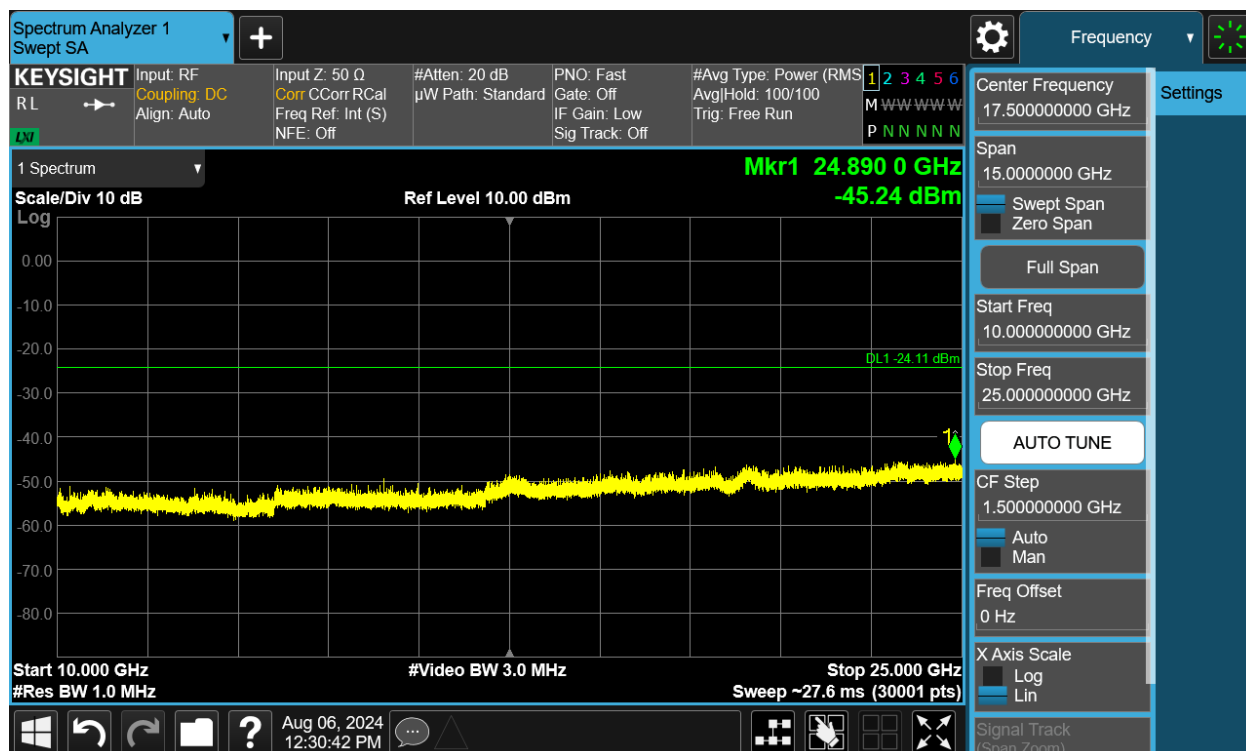


Plot 7-182. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 6)

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 122 of 150



Plot 7-183. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 11)



Plot 7-184. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 11)

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 123 of 150

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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in FCC §15.205 of the Title 47 CFR must not exceed the limits shown FCC §15.209.

Frequency	Field Strength [μV/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 7-11. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

Test Settings – Above 1GHz

Average 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 = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span} \backslash \text{RBW}$)
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.

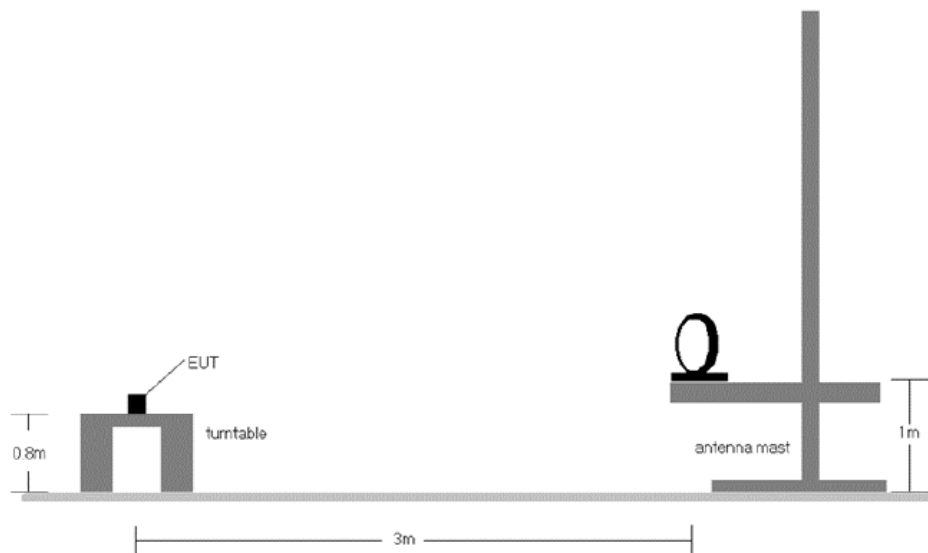


Figure 7-6. Radiated Test Setup < 30MHz

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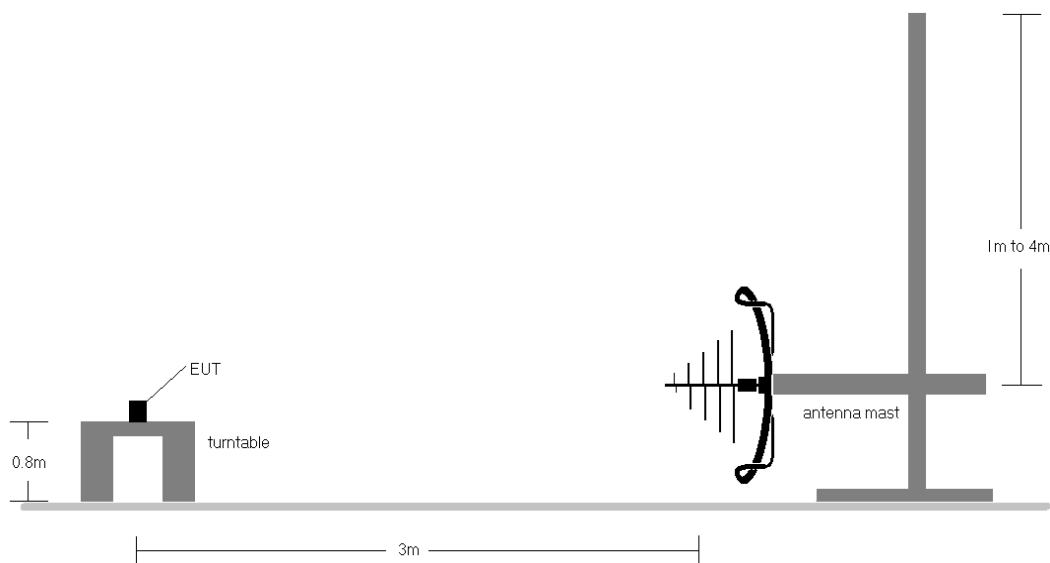


Figure 7-7. Radiated Test Setup < 1GHz

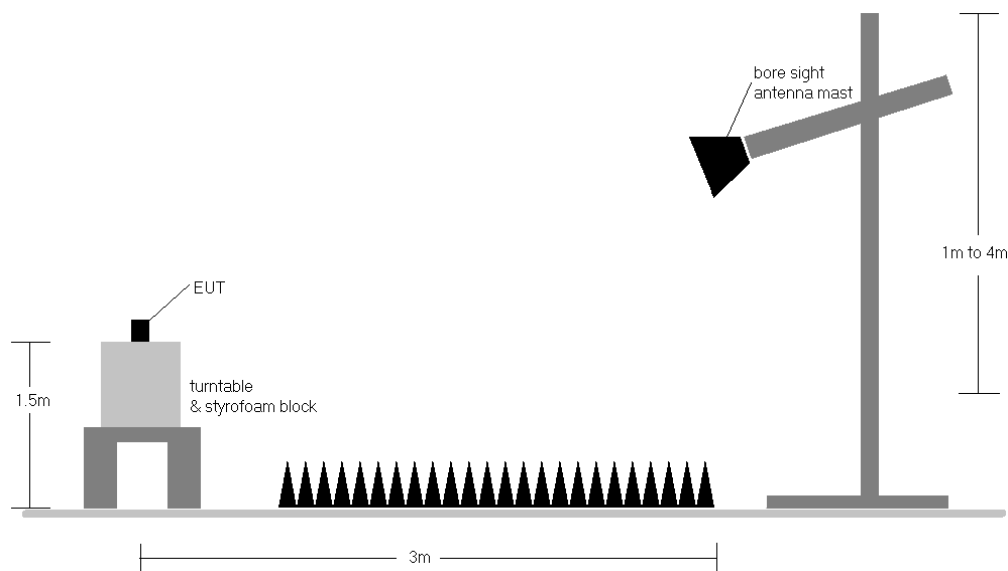


Figure 7-8. Radiated Test Setup > 1GHz

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of ANSI C63.10-2013 Section 11.3 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 is below the limits shown in §15.209.

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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. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst-case results during the transmitter spurious emissions testing.
10. No spurious emissions were detected within 20dB of the limit below 30MHz.
11. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
12. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

Sample Calculations

Determining Spurious Emissions Levels

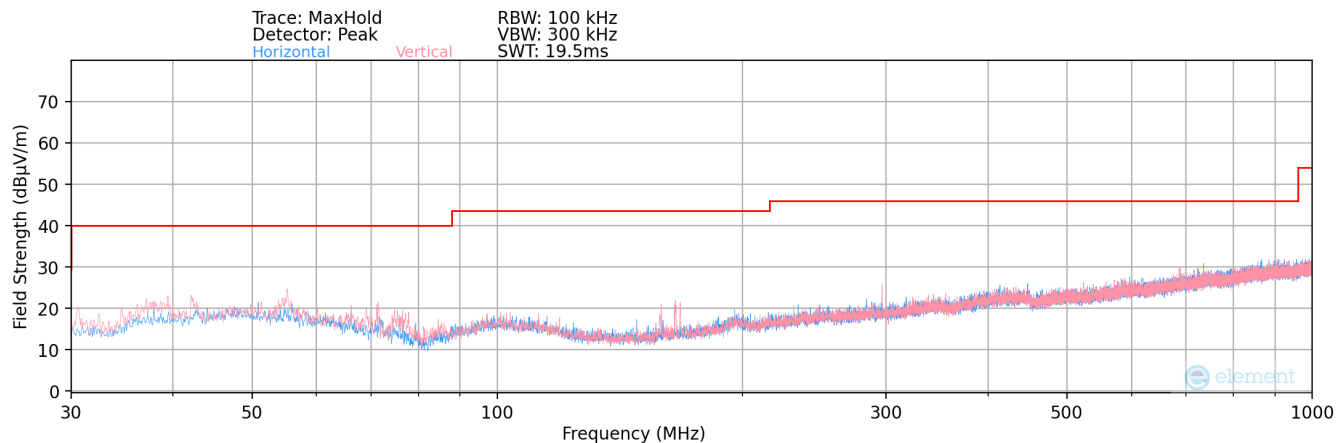
- Field Strength Level $_{[dB_{\mu V/m}]}$ = Analyzer Level $_{[dBm]}$ + 107 + AFCL $_{[dB_{\mu V/m}]}$
- AFCL $_{[dB_{\mu V/m}]}$ = Antenna Factor $_{[dB_{\mu V/m}]}$ + Cable Loss $_{[dB]}$
- Margin $_{[dB]}$ = Field Strength Level $_{[dB_{\mu V/m}]}$ – Limit $_{[dB_{\mu V/m}]}$

Radiated Band Edge Measurement Offset

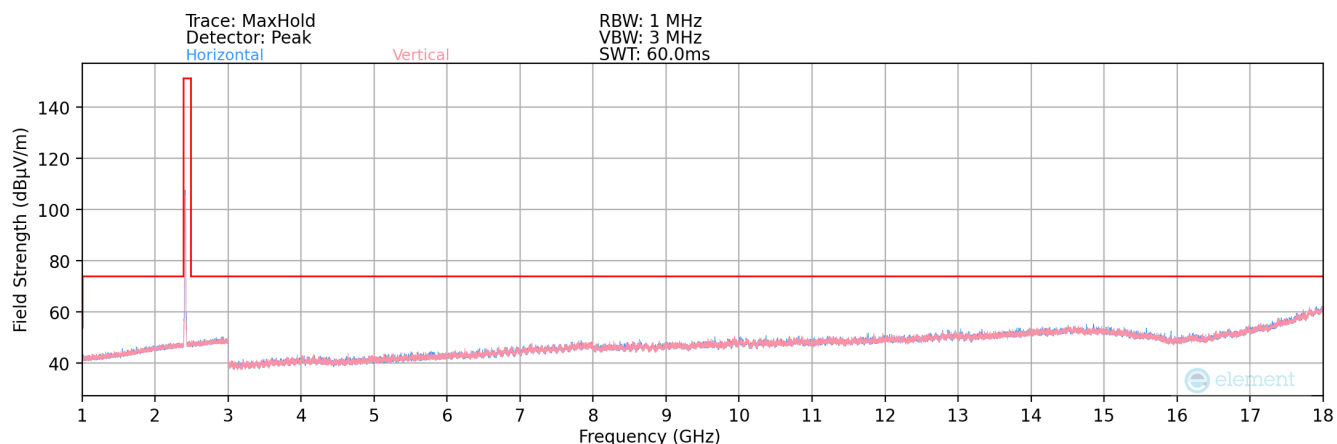
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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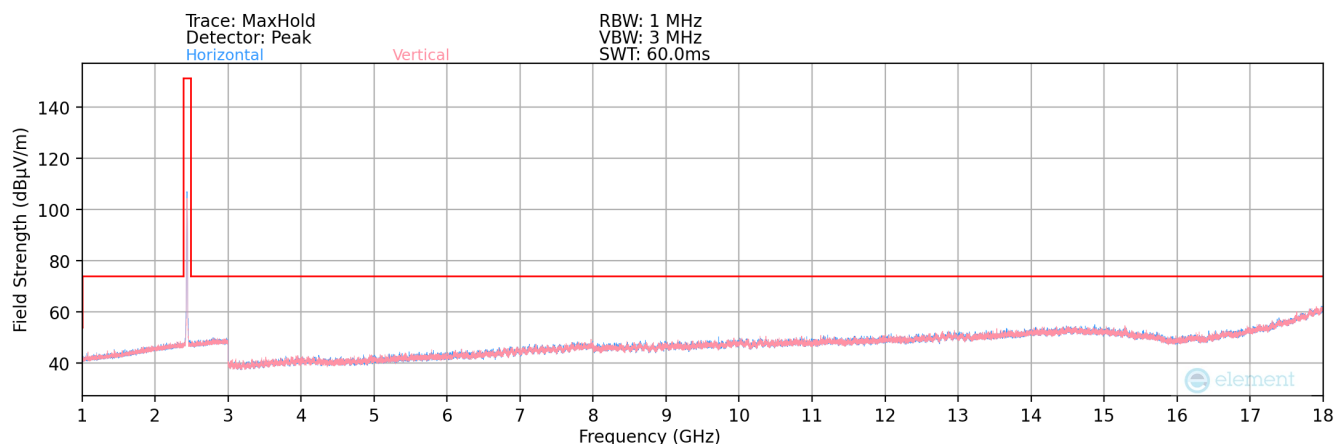
7.7.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-185. Radiated Spurious Plot below 1GHz SISO ANT1

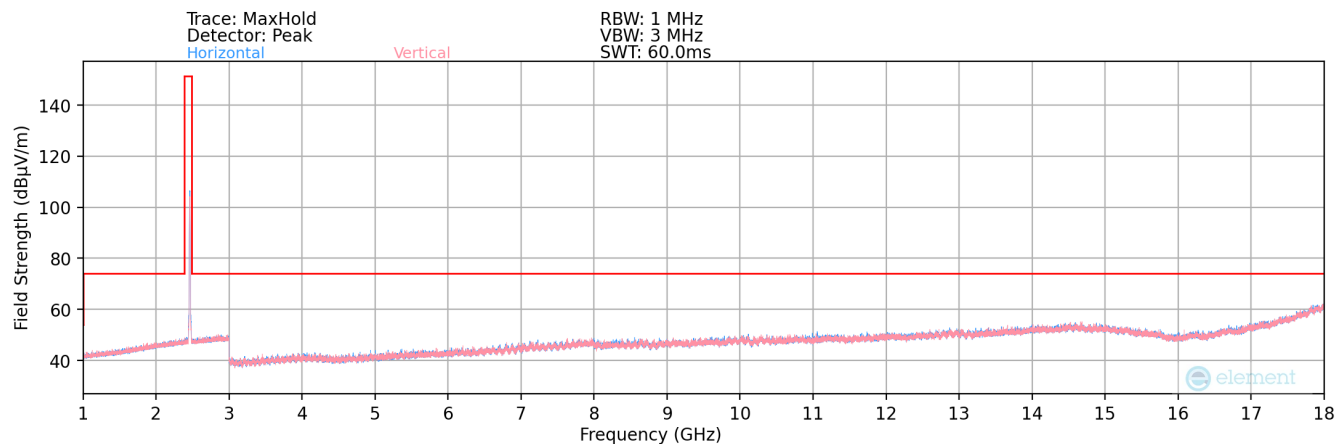


Plot 7-186. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11b – Ch. 1)

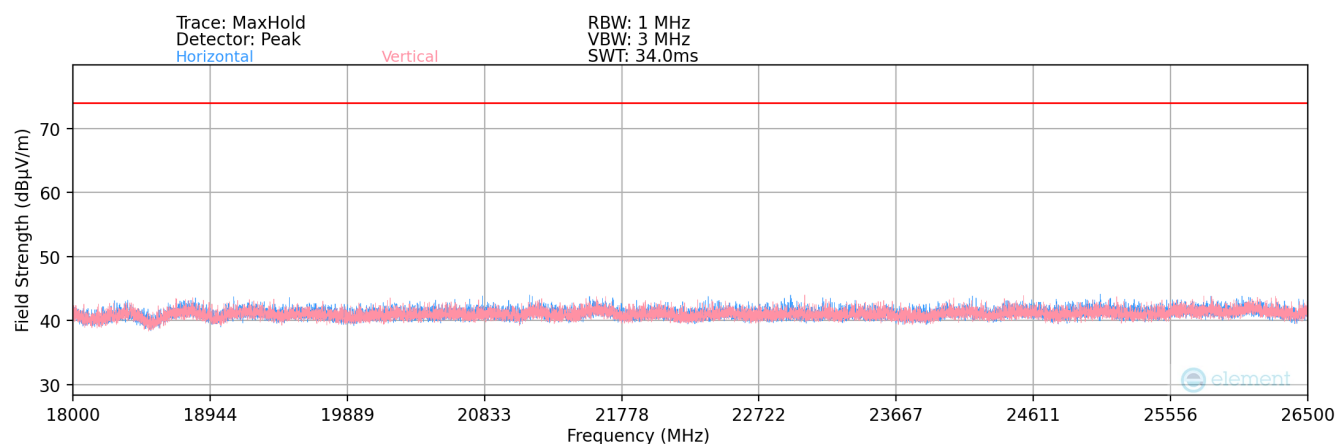


Plot 7-187. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11b – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-188. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11b – Ch. 11)



Plot 7-189. Radiated Spurious Plot above 18GHz SISO ANT1

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 129 of 150

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
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 [dBμ V/m]	Margin [dB]
4824.00	Avg	V	-	-	-76.06	0.87	31.81	53.98	-22.16
4824.00	Peak	V	-	-	-64.77	0.87	43.10	73.98	-30.87
12060.00	Avg	V	-	-	-81.11	13.37	39.26	53.98	-14.71
12060.00	Peak	V	-	-	-69.78	13.37	50.59	73.98	-23.38

Table 7-12. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
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 [dBμ V/m]	Margin [dB]
4874.00	Avg	V	-	-	-75.88	0.89	32.01	53.98	-21.97
4874.00	Peak	V	-	-	-64.76	0.89	43.13	73.98	-30.85
7311.00	Avg	V	-	-	-77.15	6.35	36.20	53.98	-17.78
7311.00	Peak	V	-	-	-66.23	6.35	47.12	73.98	-26.86
12185.00	Avg	V	-	-	-80.18	12.79	39.61	53.98	-14.37
12185.00	Peak	V	-	-	-69.64	12.79	50.15	73.98	-23.83

Table 7-13. Radiated Measurements SISO ANT1

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 130 of 150

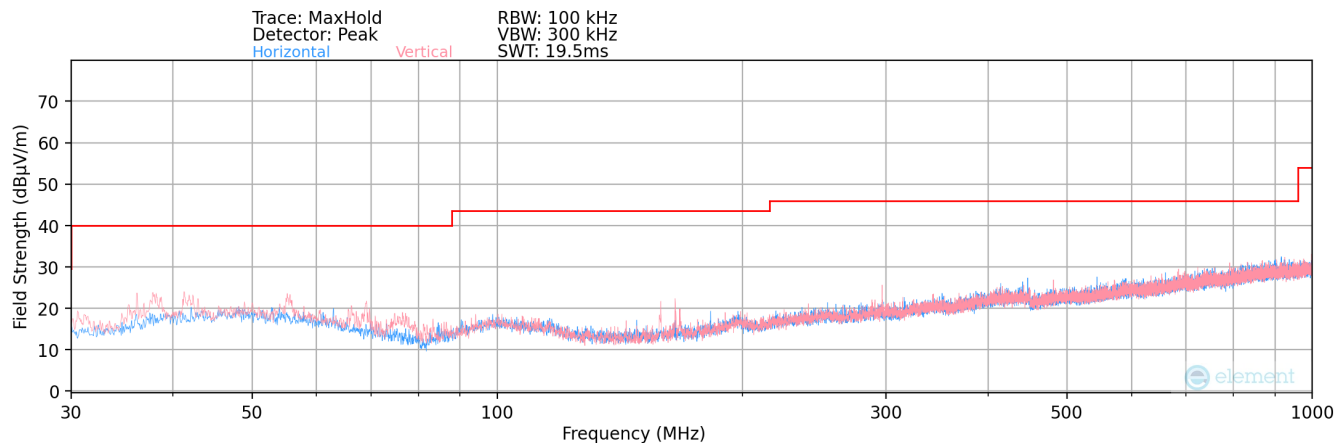
Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμ V/m]	Margin [dB]
4924.00	Avg	V	-	-	-76.21	1.57	32.36	53.98	-21.62
4924.00	Peak	V	-	-	-64.61	1.57	43.96	73.98	-30.02
7386.00	Avg	V	-	-	-77.16	7.06	36.90	53.98	-17.08
7386.00	Peak	V	-	-	-65.53	7.06	48.53	73.98	-25.45
12310.00	Avg	V	-	-	-80.29	13.21	39.92	53.98	-14.06
12310.00	Peak	V	-	-	-69.39	13.21	50.82	73.98	-23.16

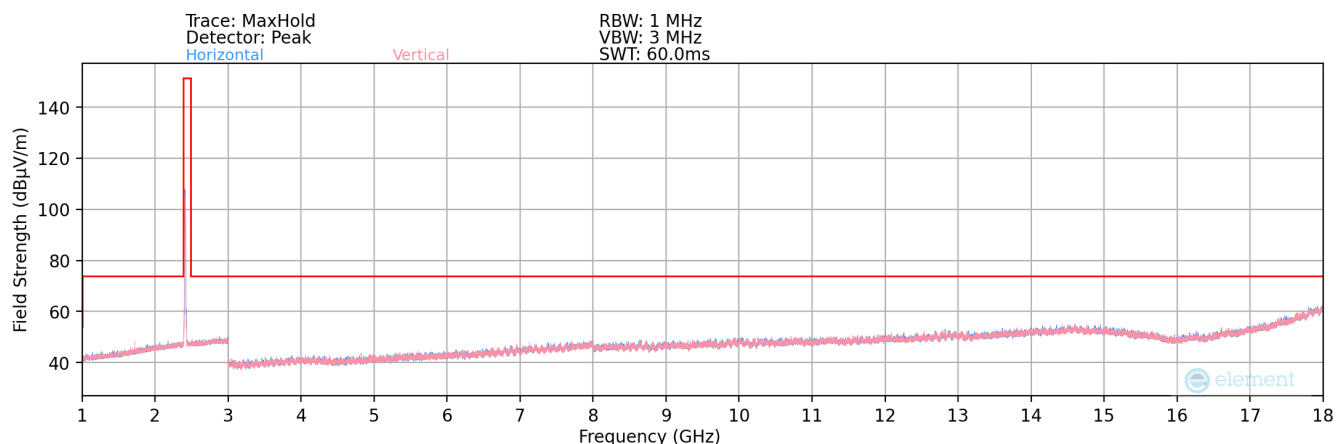
Table 7-14. Radiated Measurements SISO ANT1

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 131 of 150

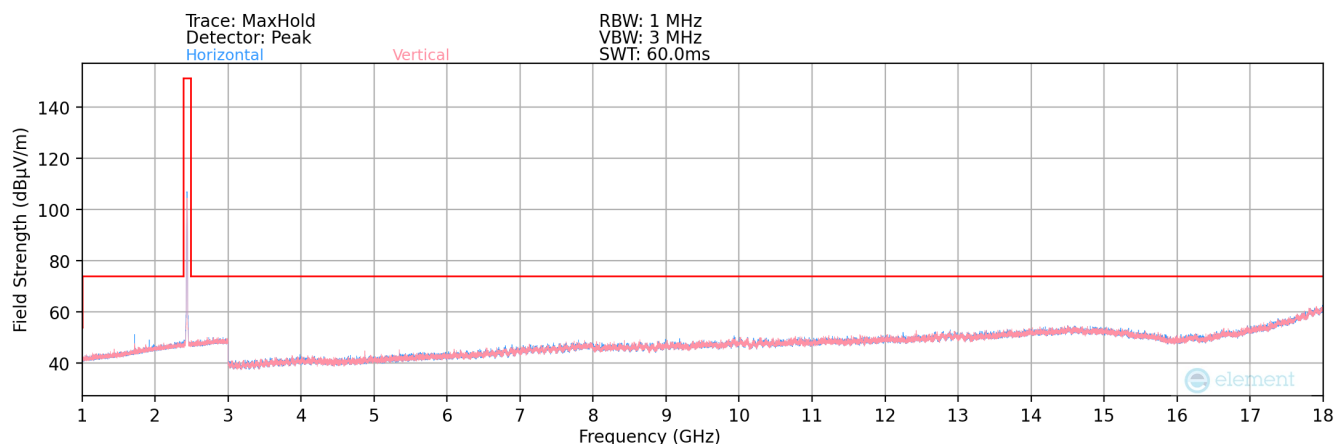
7.7.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-190. Radiated Spurious Plot below 1GHz SISO ANT2

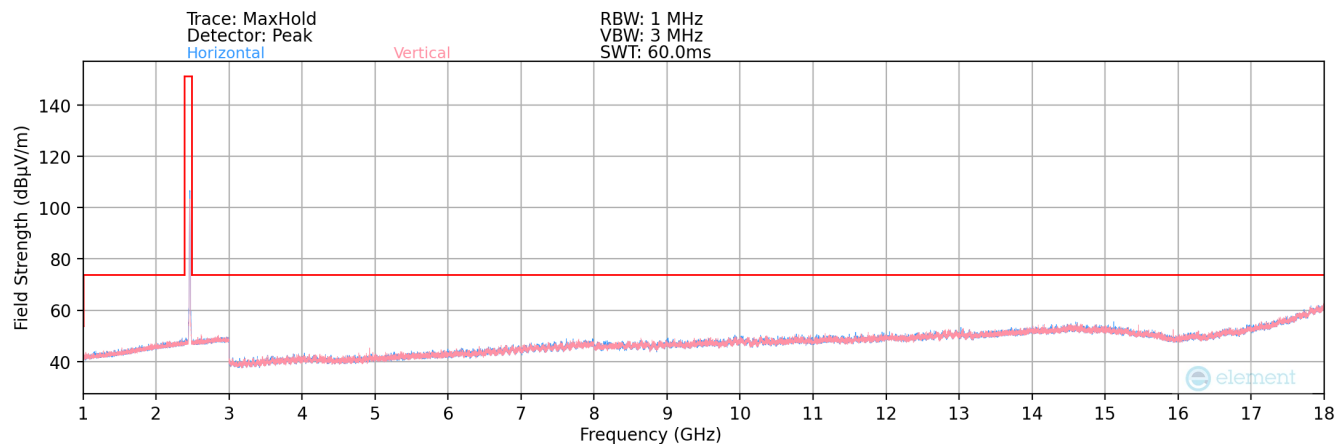


Plot 7-191. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11b – Ch. 1)

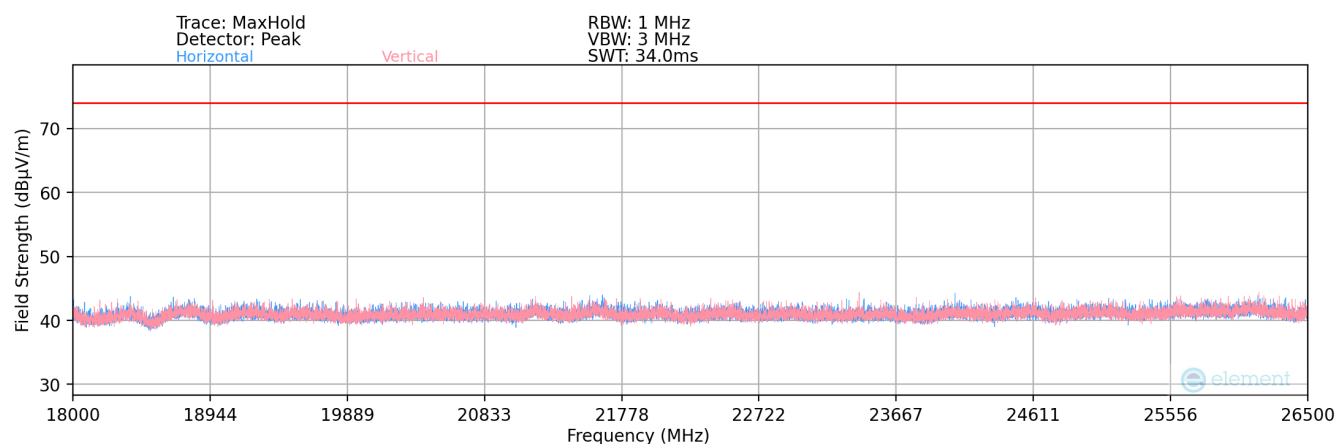


Plot 7-192. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11b – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-193. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11b – Ch. 11)



Plot 7-194. Radiated Spurious Plot above 18GHz SISO ANT2

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 133 of 150

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
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 [dBμ V/m]	Margin [dB]
4824.00	Avg	V	-	-	-76.04	0.87	31.83	53.98	-22.14
4824.00	Peak	V	-	-	-64.82	0.87	43.05	73.98	-30.92
12060.00	Avg	V	-	-	-81.13	13.37	39.24	53.98	-14.73
12060.00	Peak	V	-	-	-69.67	13.37	50.70	73.98	-23.27

Table 7-15. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
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 [dBμ V/m]	Margin [dB]
4874.00	Avg	V	-	-	-75.94	0.89	31.95	53.98	-22.03
4874.00	Peak	V	-	-	-64.78	0.89	43.11	73.98	-30.87
7311.00	Avg	V	-	-	-77.17	6.35	36.18	53.98	-17.80
7311.00	Peak	V	-	-	-66.28	6.35	47.07	73.98	-26.91
12185.00	Avg	V	-	-	-80.21	12.79	39.58	53.98	-14.40
12185.00	Peak	V	-	-	-69.68	12.79	50.11	73.98	-23.87

Table 7-16. Radiated Measurements SISO ANT2

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 134 of 150

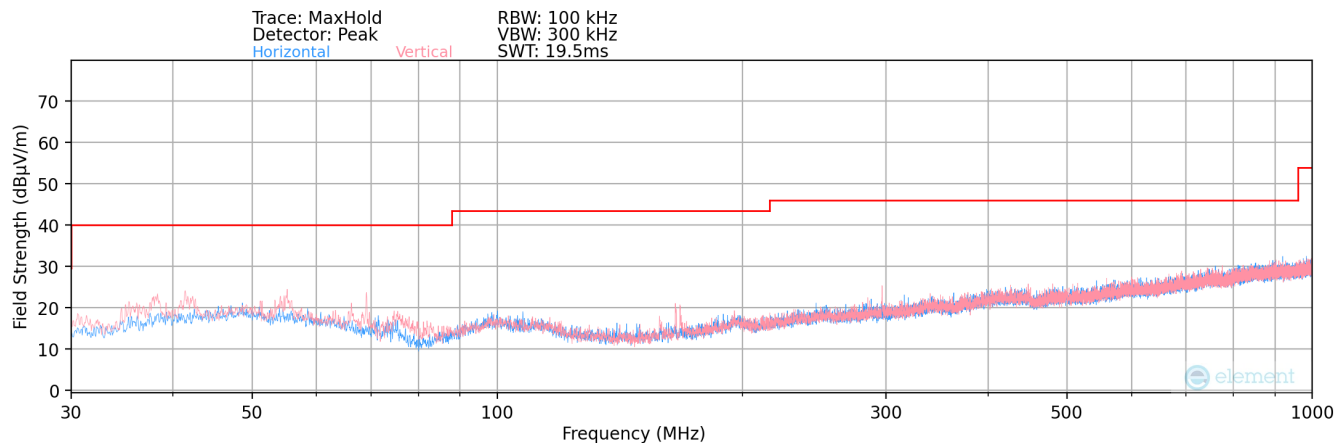
Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

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	-	-	-76.23	1.57	32.34	53.98	-21.64
4924.00	Peak	V	-	-	-64.64	1.57	43.93	73.98	-30.05
7386.00	Avg	V	-	-	-77.12	7.06	36.94	53.98	-17.04
7386.00	Peak	V	-	-	-65.48	7.06	48.58	73.98	-25.40
12310.00	Avg	V	-	-	-80.32	13.21	39.89	53.98	-14.09
12310.00	Peak	V	-	-	-69.56	13.21	50.65	73.98	-23.33

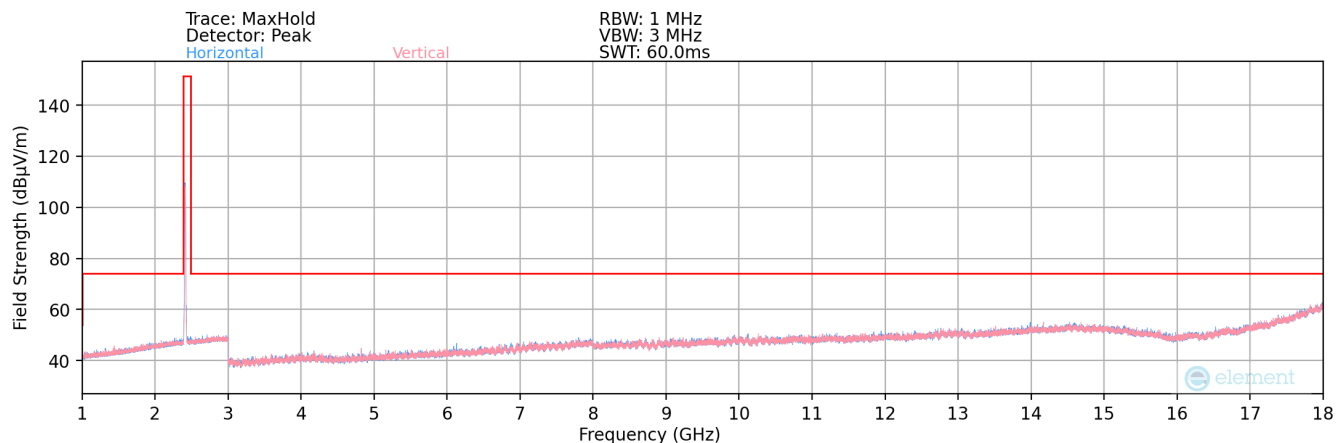
Table 7-17. Radiated Measurements SISO ANT2

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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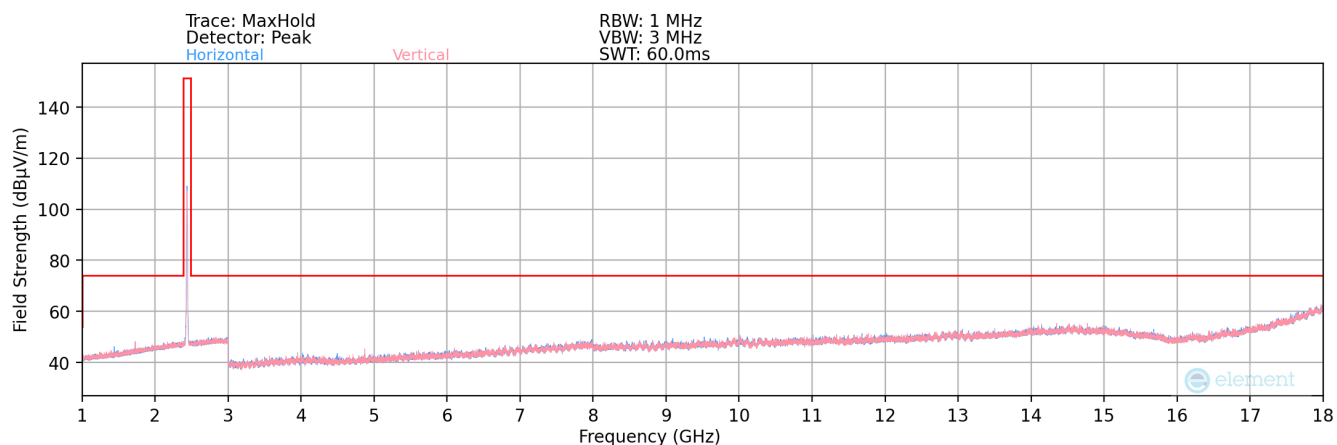
7.7.3 MIMO Radiated Spurious Emission Measurements



Plot 7-195. Radiated Spurious Plot below 1GHz MIMO

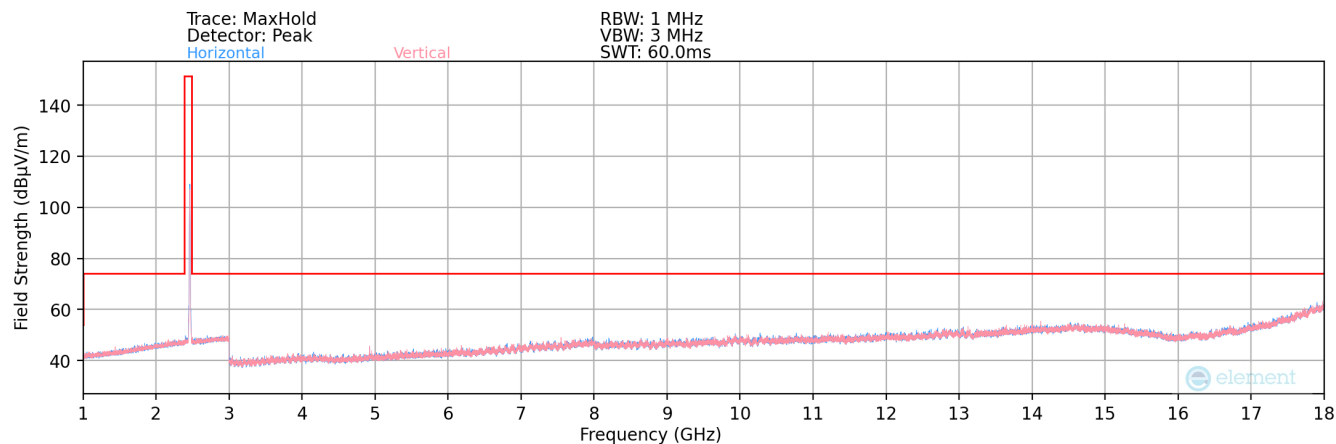


Plot 7-196. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 1)

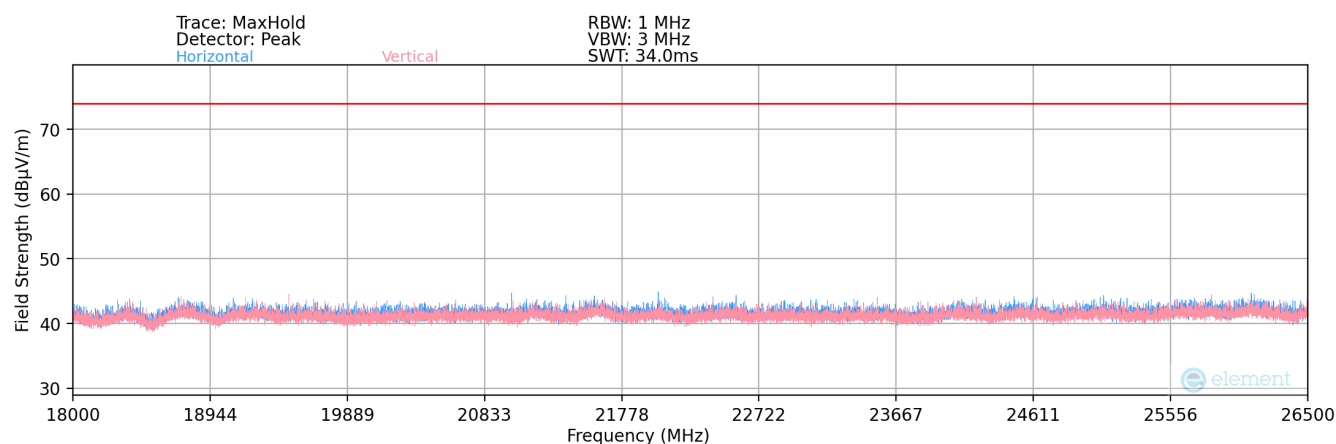


Plot 7-197. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 6)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-198. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 11)



Plot 7-199. Radiated Spurious Plot above 18GHz MIMO

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 137 of 150

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
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 [dBμ V/m]	Margin [dB]
4824.00	Avg	V	280	73	-65.67	0.87	42.20	53.98	-11.77
4824.00	Peak	V	280	73	-60.13	0.87	47.74	73.98	-26.23
12060.00	Avg	V	-	-	-81.23	13.37	39.14	53.98	-14.83
12060.00	Peak	V	-	-	-69.91	13.37	50.46	73.98	-23.51

Table 7-18. Radiated Measurements MIMO

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
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 [dBμ V/m]	Margin [dB]
4874.00	Avg	V	101	317	-64.92	0.89	42.97	53.98	-11.01
4874.00	Peak	V	101	317	-60.58	0.89	47.31	73.98	-26.67
7311.00	Avg	V	-	-	-76.94	6.35	36.41	53.98	-17.57
7311.00	Peak	V	-	-	-65.62	6.35	47.73	73.98	-26.25
12185.00	Avg	V	-	-	-80.18	12.79	39.61	53.98	-14.37
12185.00	Peak	V	-	-	-69.23	12.79	50.56	73.98	-23.42

Table 7-19. Radiated Measurements MIMO

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Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
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 [dBμ V/m]	Margin [dB]
4924.00	Avg	V	103	109	-66.45	1.57	42.12	53.98	-11.86
4924.00	Peak	V	103	109	-60.54	1.57	48.03	73.98	-25.95
7386.00	Avg	V	-	-	-76.98	7.06	37.08	53.98	-16.90
7386.00	Peak	V	-	-	-65.54	7.06	48.52	73.98	-25.46
12310.00	Avg	V	-	-	-80.12	13.21	40.09	53.98	-13.89
12310.00	Peak	V	-	-	-69.15	13.21	51.06	73.98	-22.92

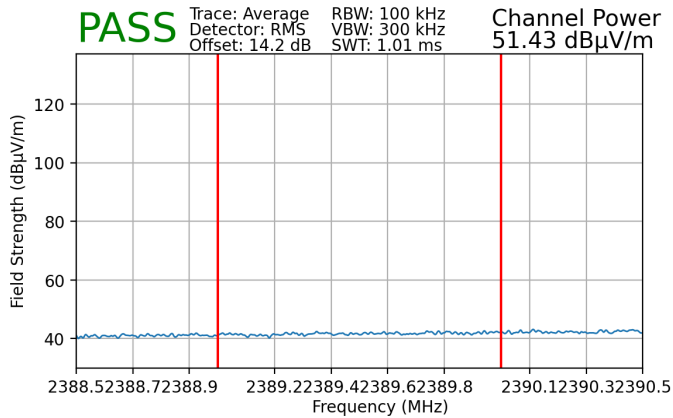
Table 7-20. Radiated Measurements MIMO

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 139 of 150

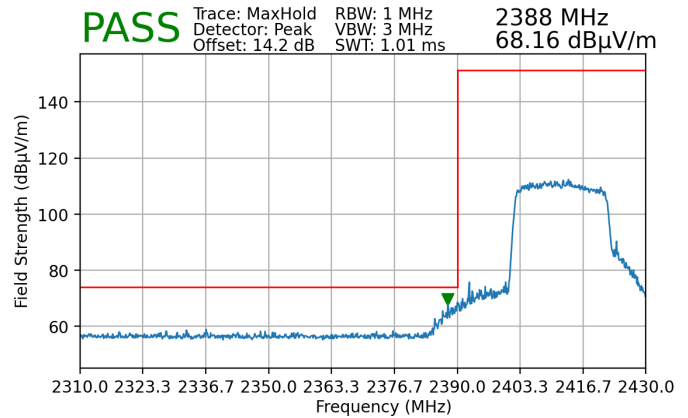
7.7.4 SISO Antenna-1 Radiated Restricted Band Edge Measurements

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:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

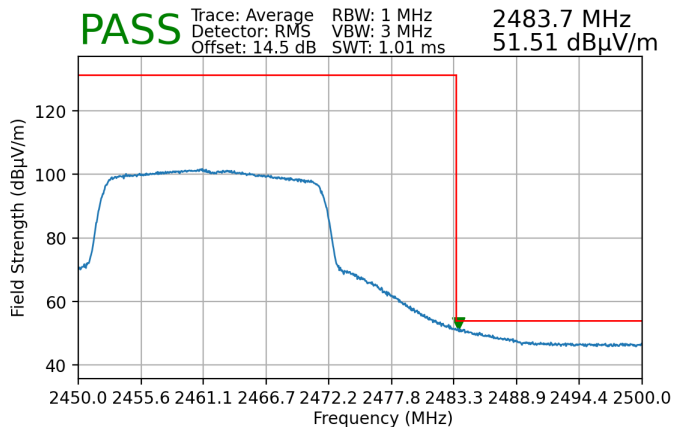


Plot 7-200. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average)

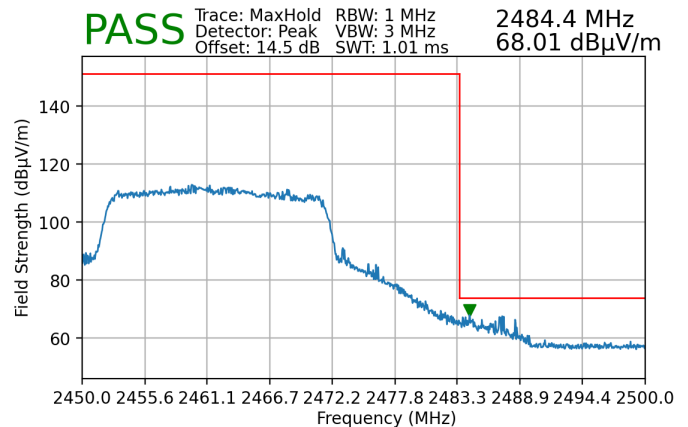


Plot 7-201. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



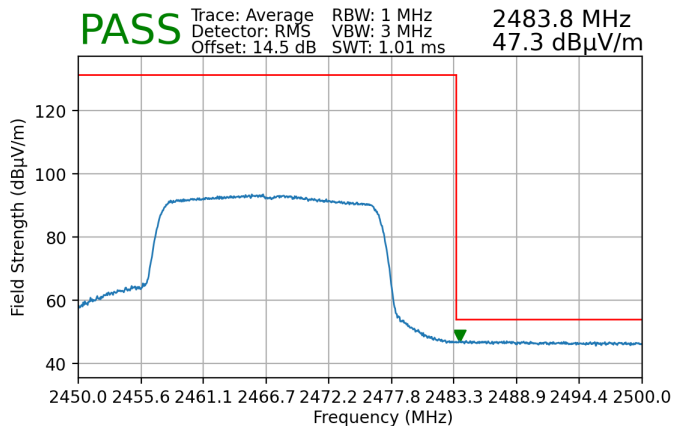
Plot 7-202. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average)



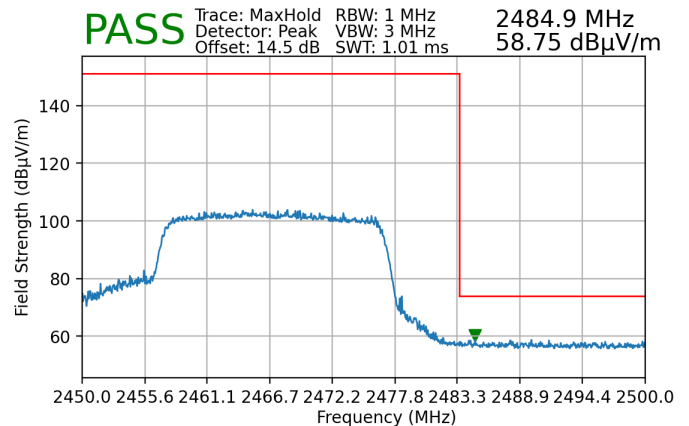
Plot 7-203. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12

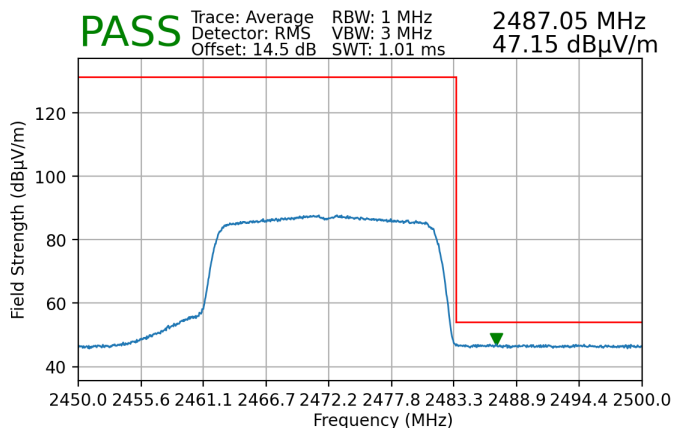


Plot 7-204. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average)

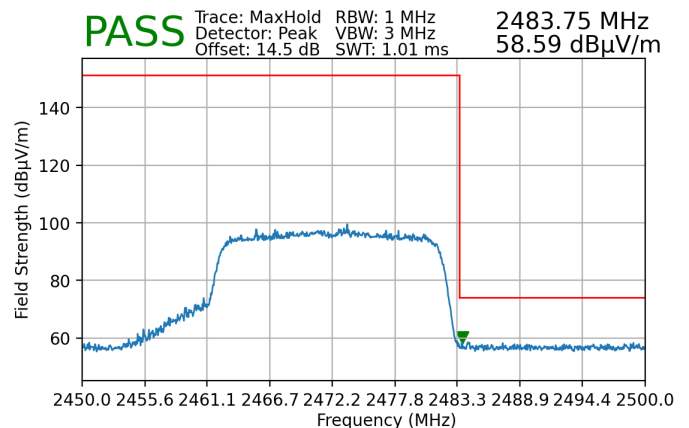


Plot 7-205. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak)

Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-206. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average)



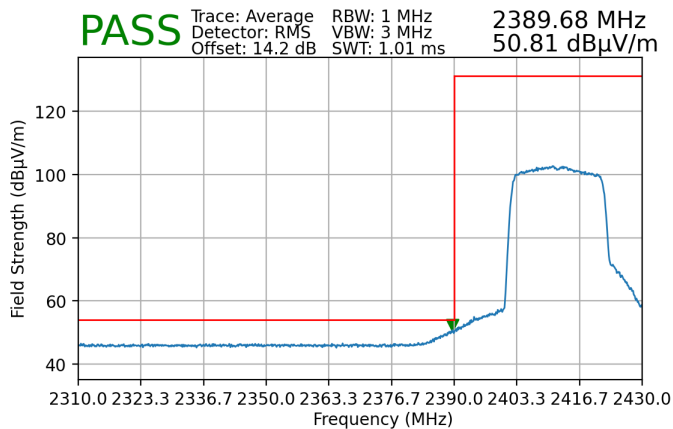
Plot 7-207. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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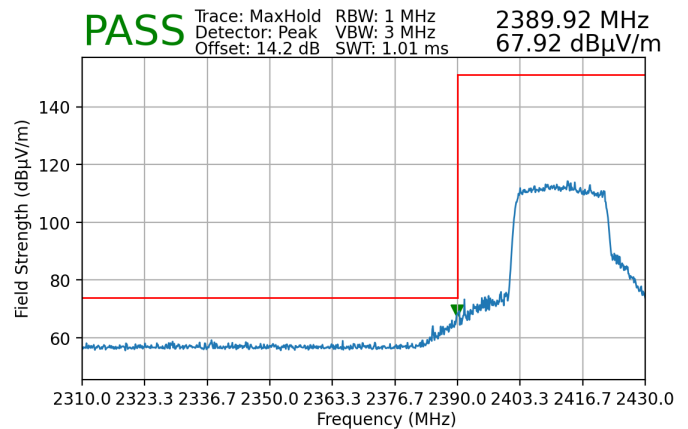
7.7.5 SISO Antenna-2 Radiated Restricted Band Edge Measurements

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:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

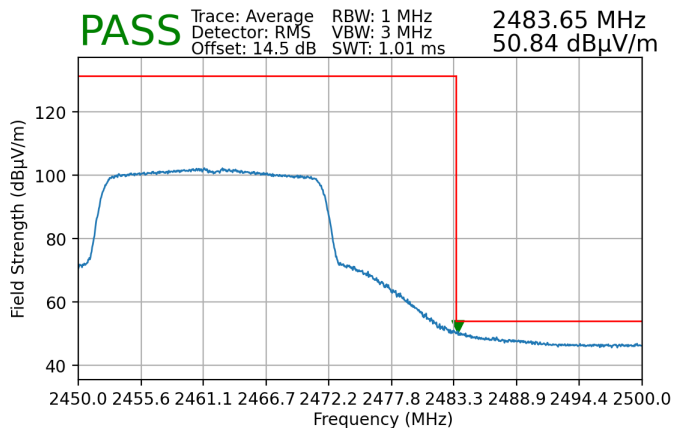


Plot 7-208. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average)

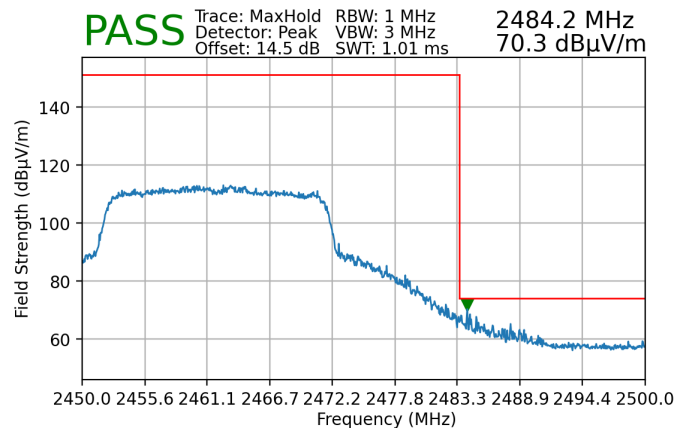


Plot 7-209. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



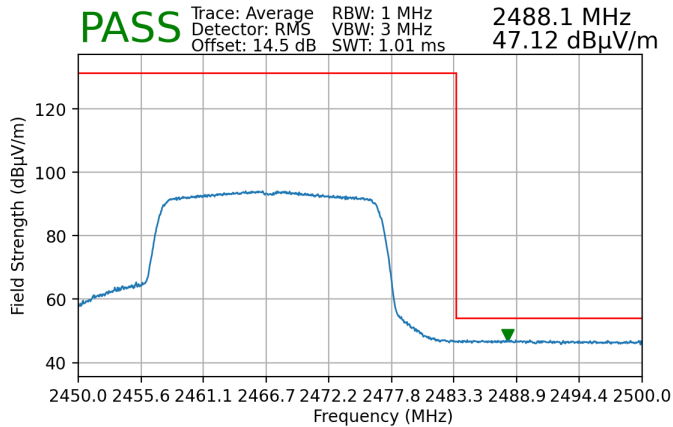
Plot 7-210. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



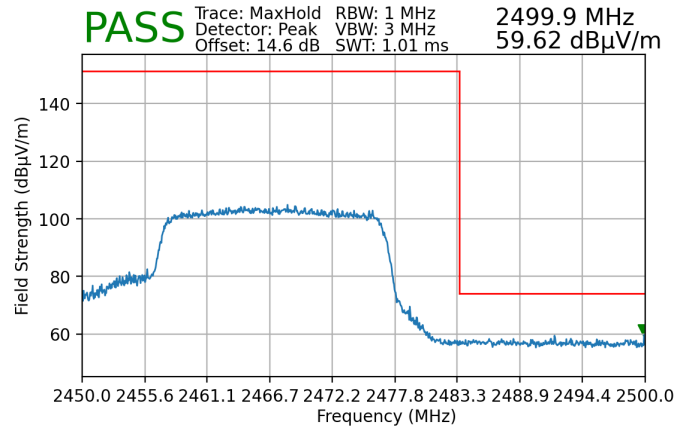
Plot 7-211. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12

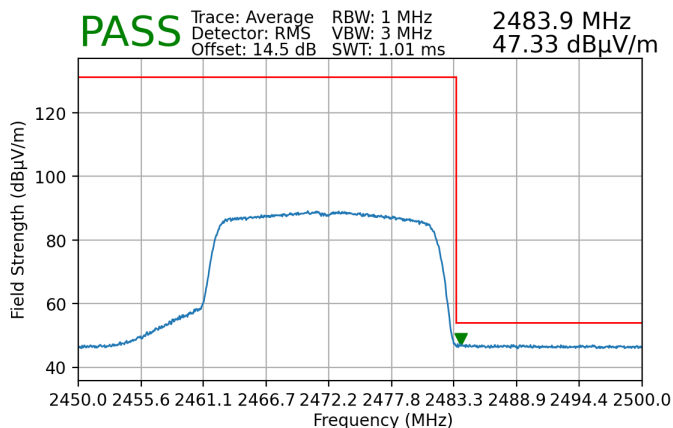


Plot 7-212. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average)

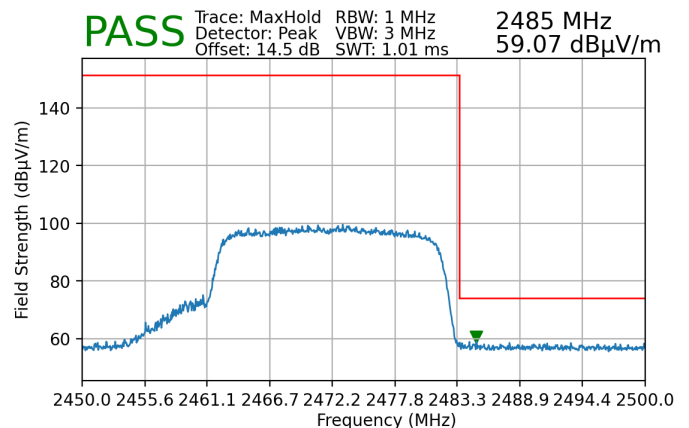


Plot 7-213. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-214. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



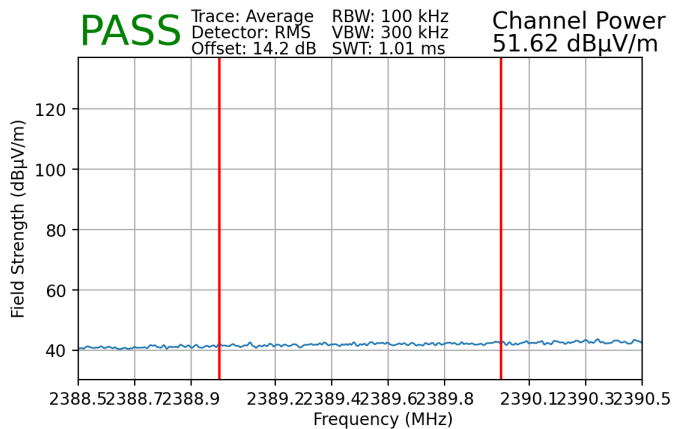
Plot 7-215. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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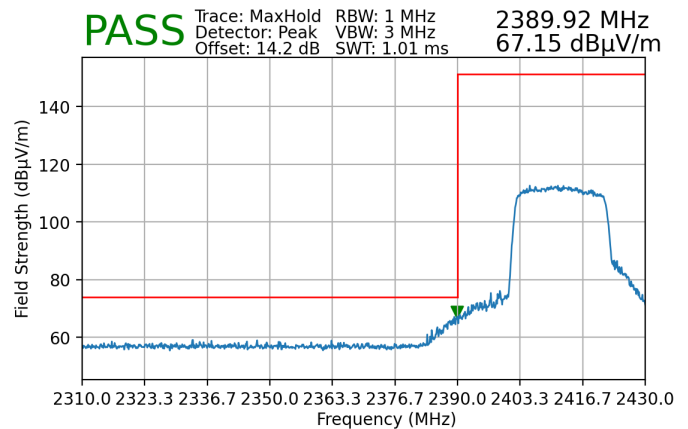
7.7.6 MIMO Radiated Restricted Band Edge Measurements

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:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

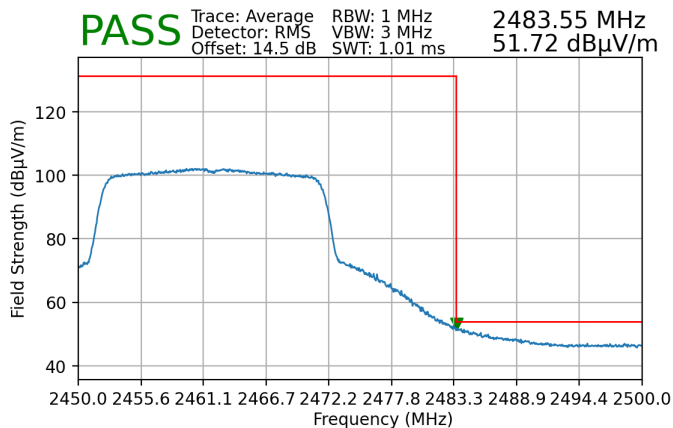


Plot 7-216. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

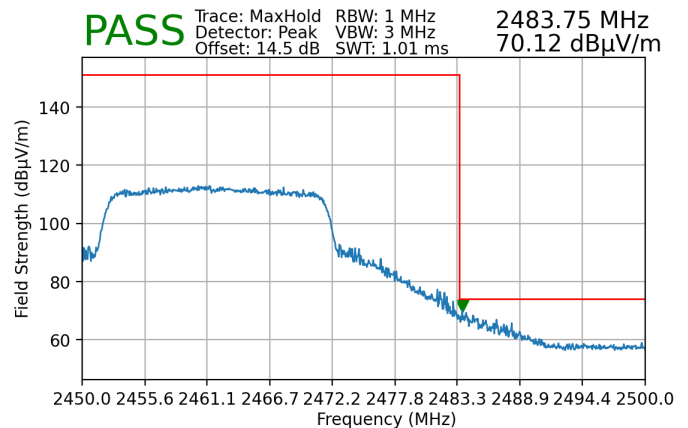


Plot 7-217. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



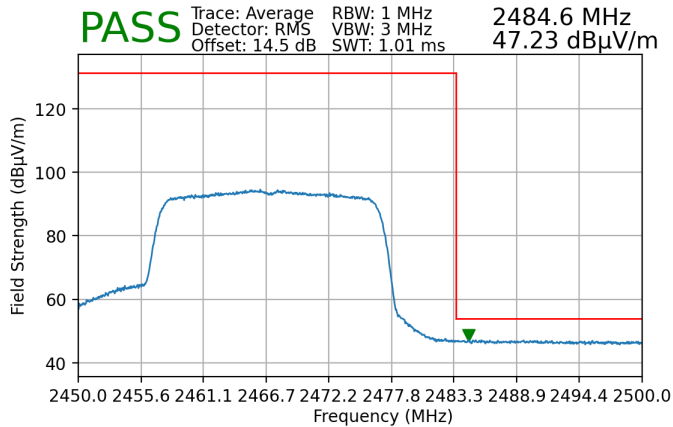
Plot 7-218. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



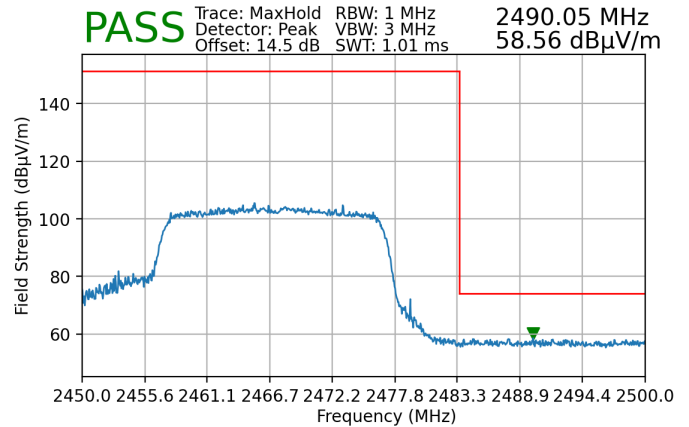
Plot 7-219. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMX920	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12

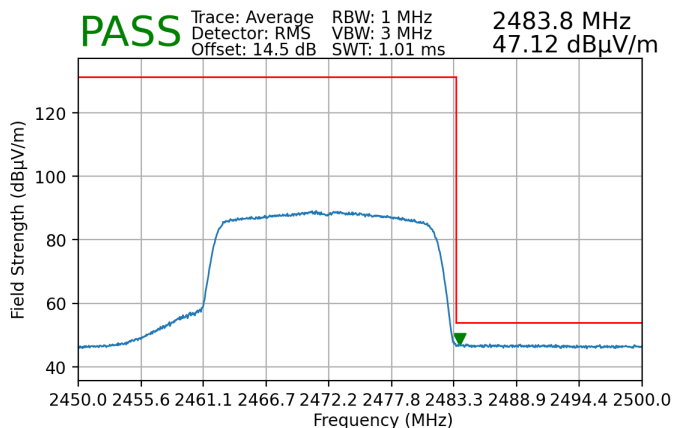


Plot 7-220. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

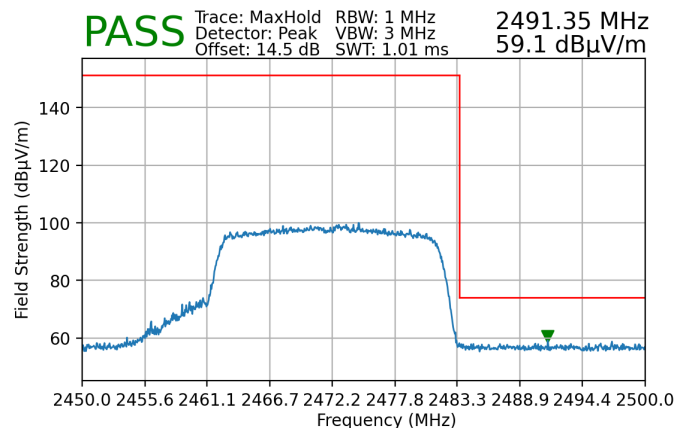


Plot 7-221. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-222. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-223. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

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7.8 Line-Conducted Test Data

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below per §15.207.

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-21. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

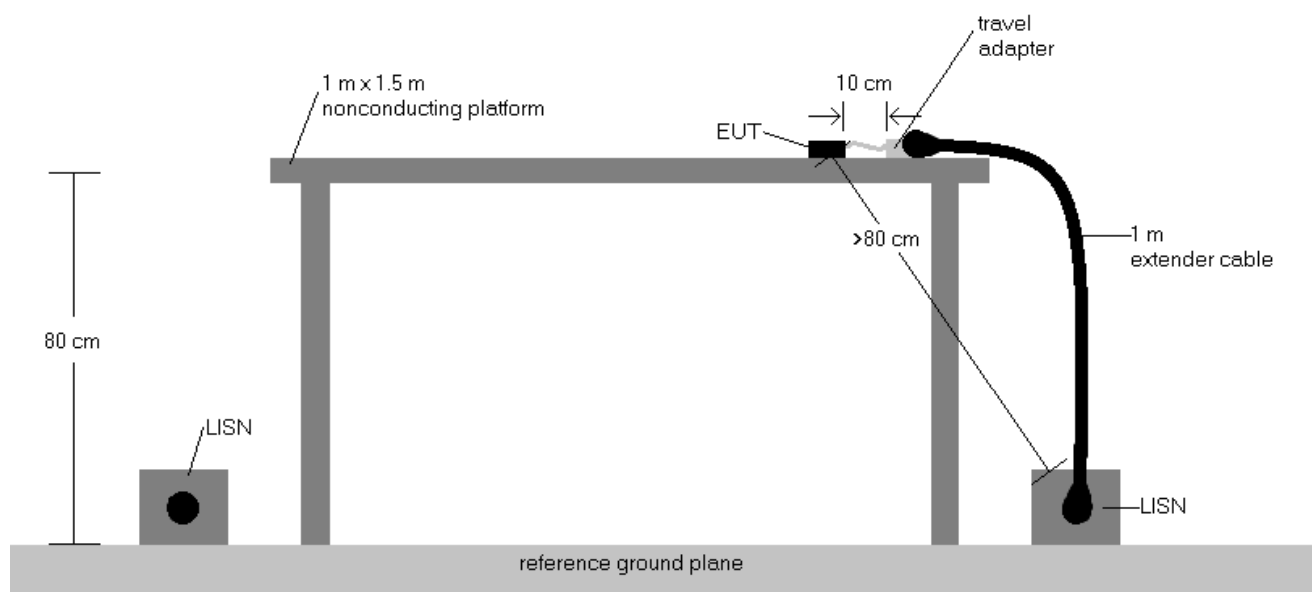


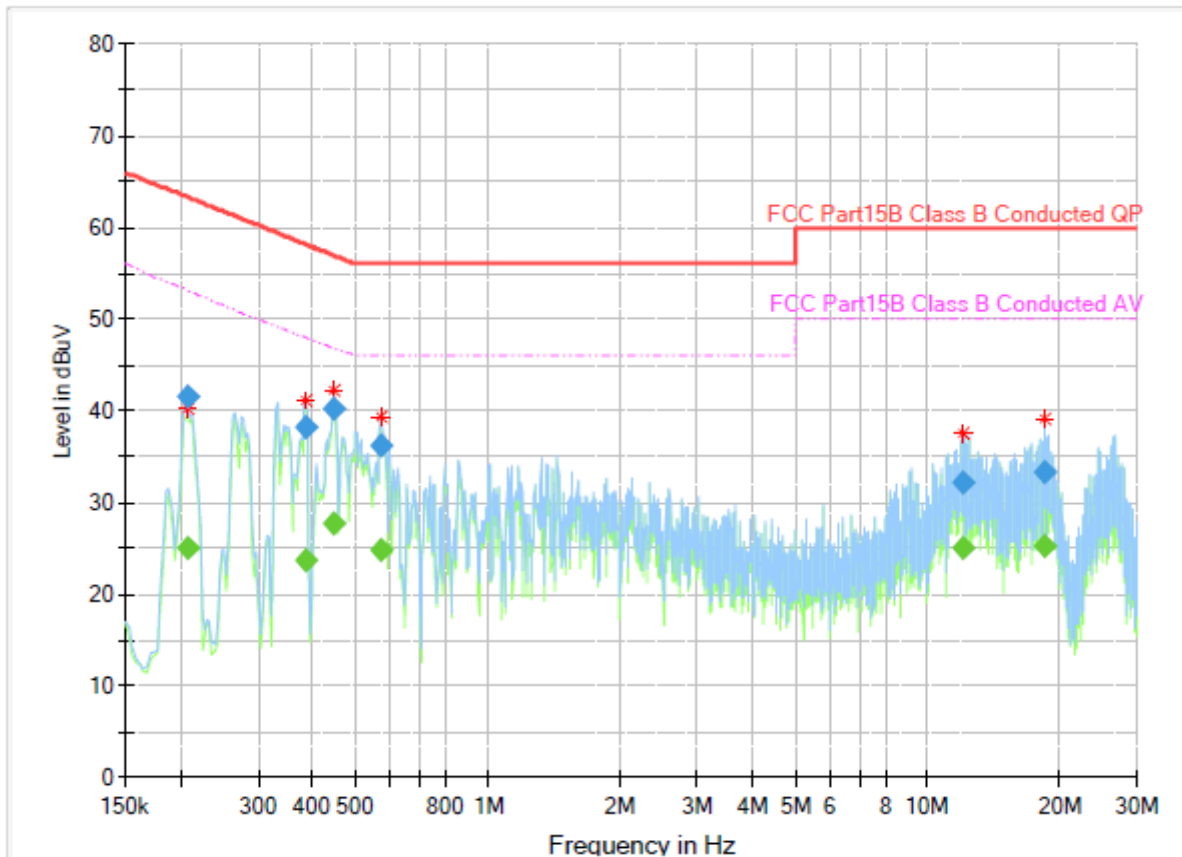
Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP\AV Level (dB}\mu\text{V)} = \text{QP\AV Analyzer\Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP\AV Limit (dB}\mu\text{V)} - \text{QP\AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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Test Report



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.206715	---	25.10	53.14	28.04	1000.0	9.000	L1	9.9
0.206715	41.59	---	63.34	21.75	1000.0	9.000	L1	9.9
0.385815	---	23.64	47.99	24.35	1000.0	9.000	L1	9.9
0.385815	38.30	---	58.15	19.86	1000.0	9.000	L1	9.9
0.448500	---	27.75	46.82	19.07	1000.0	9.000	L1	9.9
0.448500	40.19	---	56.90	16.72	1000.0	9.000	L1	9.9
0.570885	---	24.80	46.00	21.20	1000.0	9.000	L1	9.9
0.570885	36.25	---	56.00	19.75	1000.0	9.000	L1	9.9
12.063135	---	24.95	50.00	25.05	1000.0	9.000	L1	10.3
12.063135	32.24	---	60.00	27.76	1000.0	9.000	L1	10.3
18.430140	---	25.20	50.00	24.80	1000.0	9.000	L1	10.7
18.430140	33.19	---	60.00	26.81	1000.0	9.000	L1	10.7

Plot 7-224. Line Conducted Plot with 802.11b (L1)

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