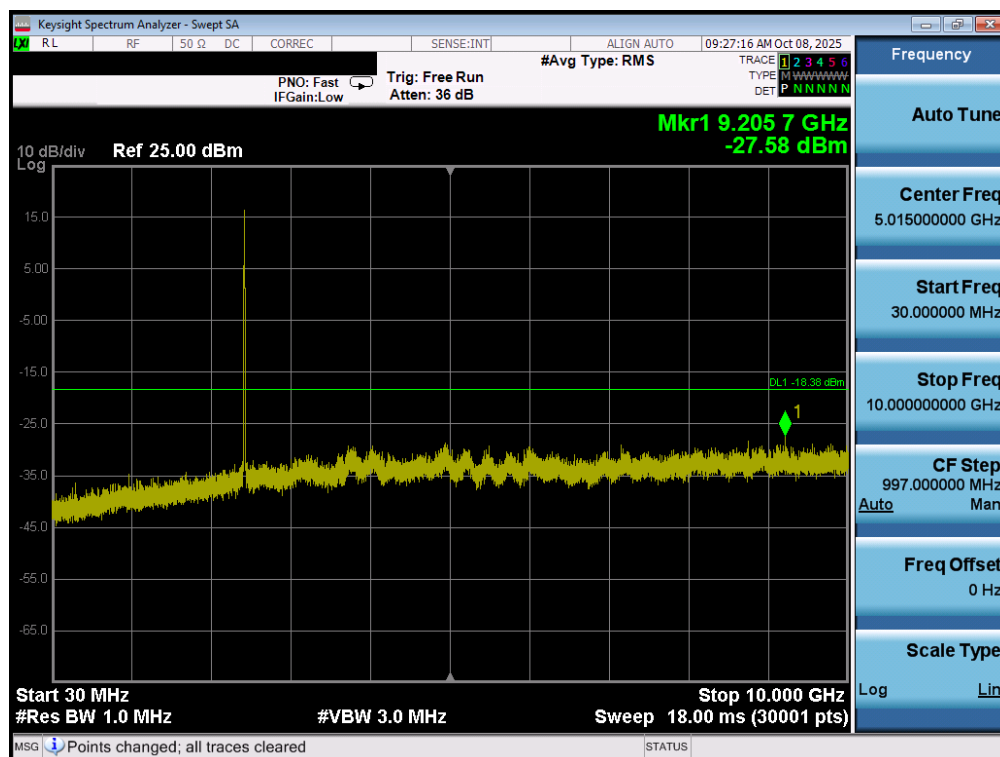
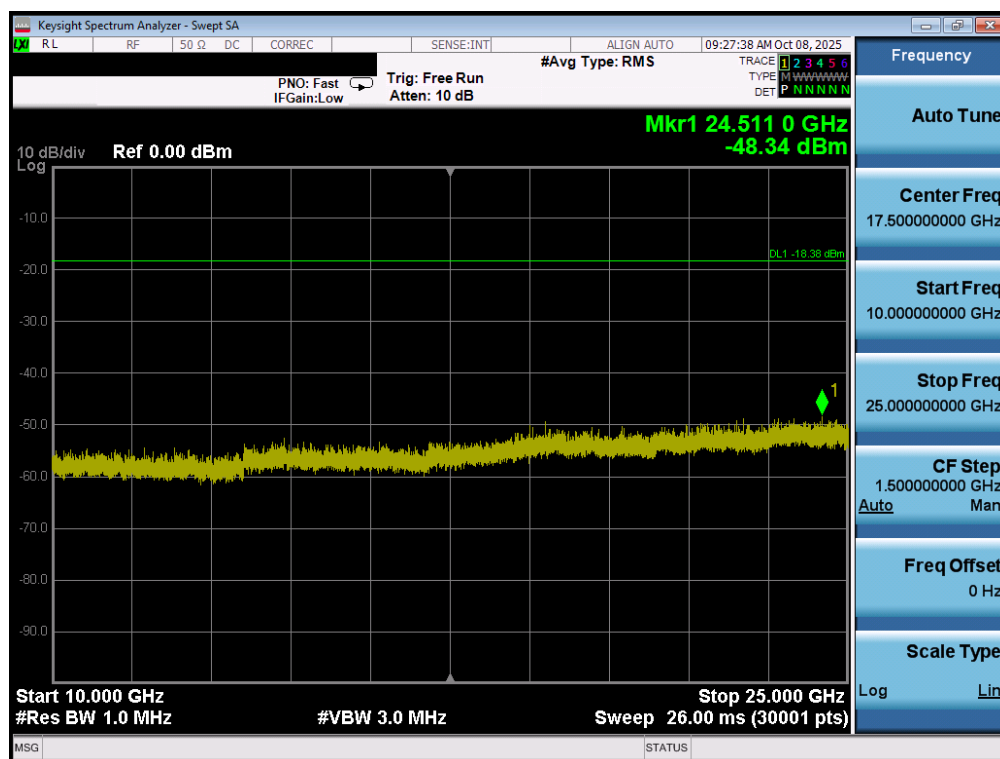


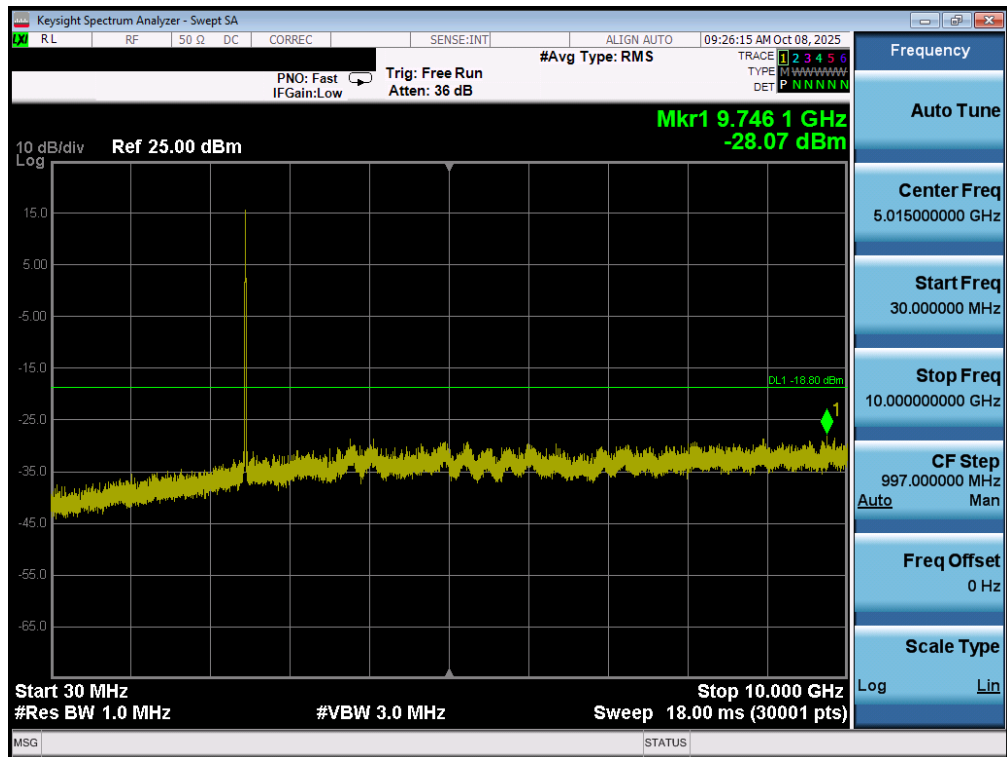


Plot 7-99. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 6)

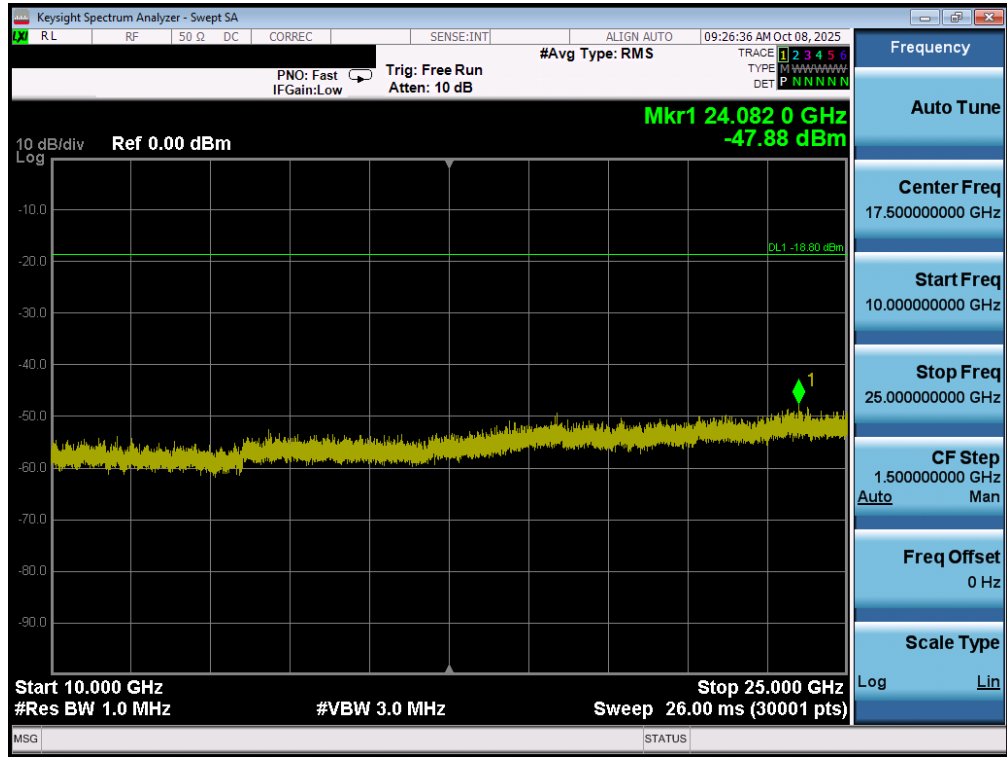


Plot 7-100. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 6)

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Plot 7-101. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 11)



Plot 7-102. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 11)

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-16-R1.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 82 of 102

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 and Table 6 of RSS-Gen (8.10) must not exceed the limits shown FCC §15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	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 7-24. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – 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 $\geq 2 \times \text{span/RBW}$)
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.

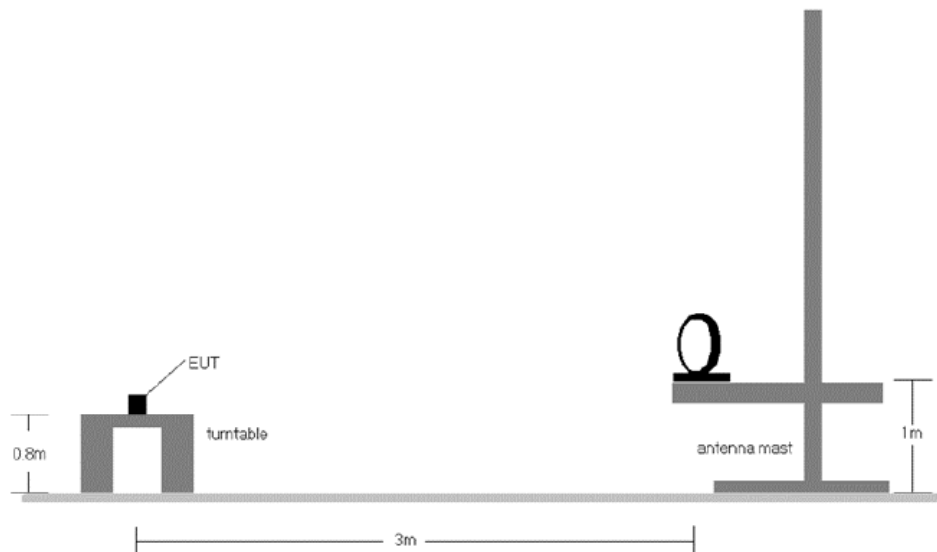


Figure 7-6. Radiated Test Setup < 30MHz

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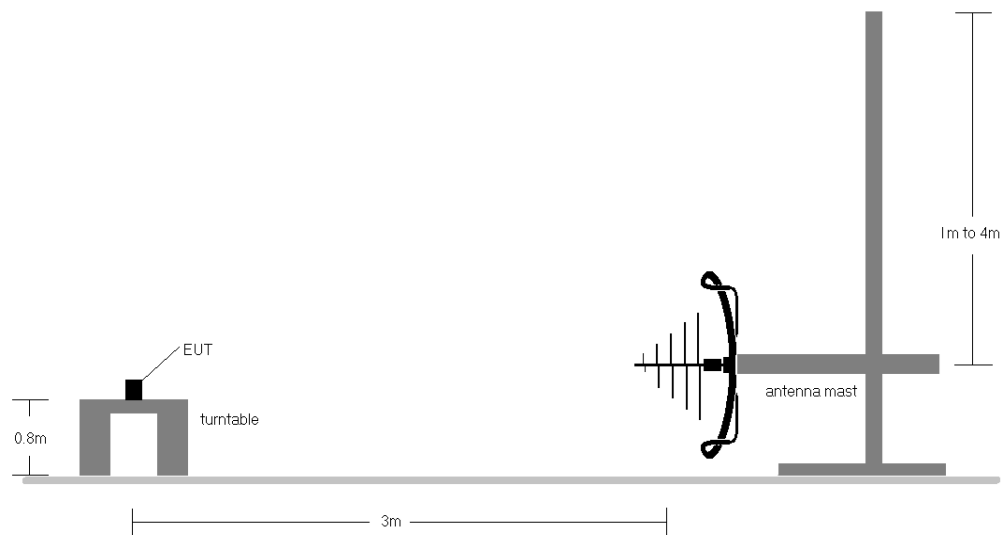


Figure 7-7. Radiated Test Setup < 1GHz

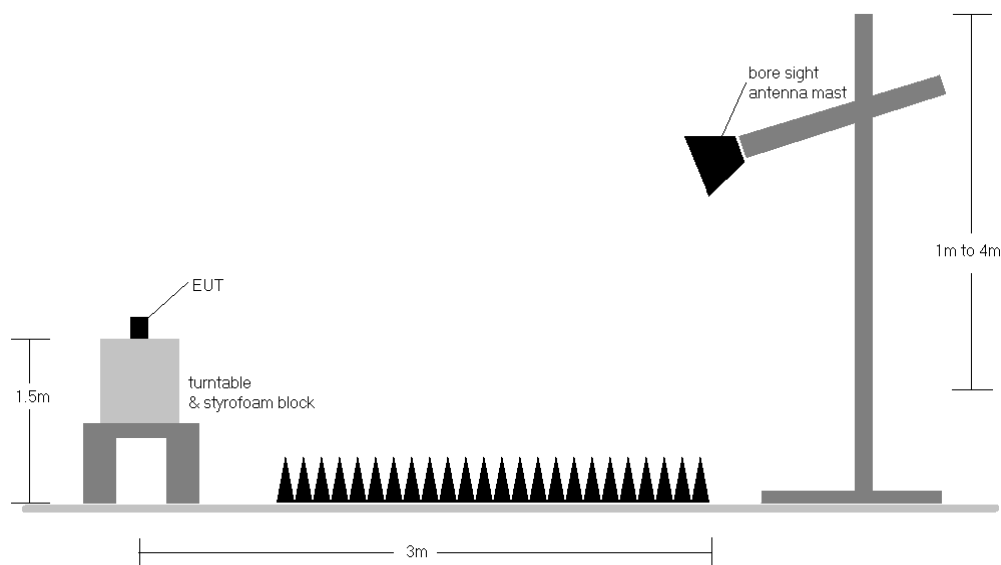


Figure 7-8. Radiated Test Setup > 1GHz

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of ANSI C63.10:2020 Section 11.12.2 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 and Section 8.10 of RSS-Gen are below the limits shown in §15.209.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.

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

Radiated Band Edge Measurement Offset

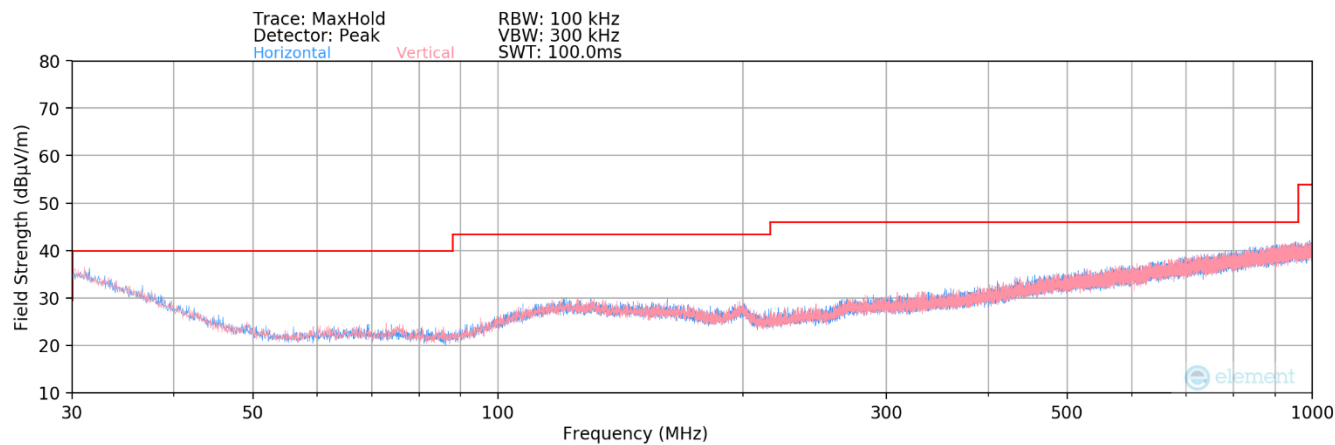
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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MIMO Radiated Spurious Emission Measurements

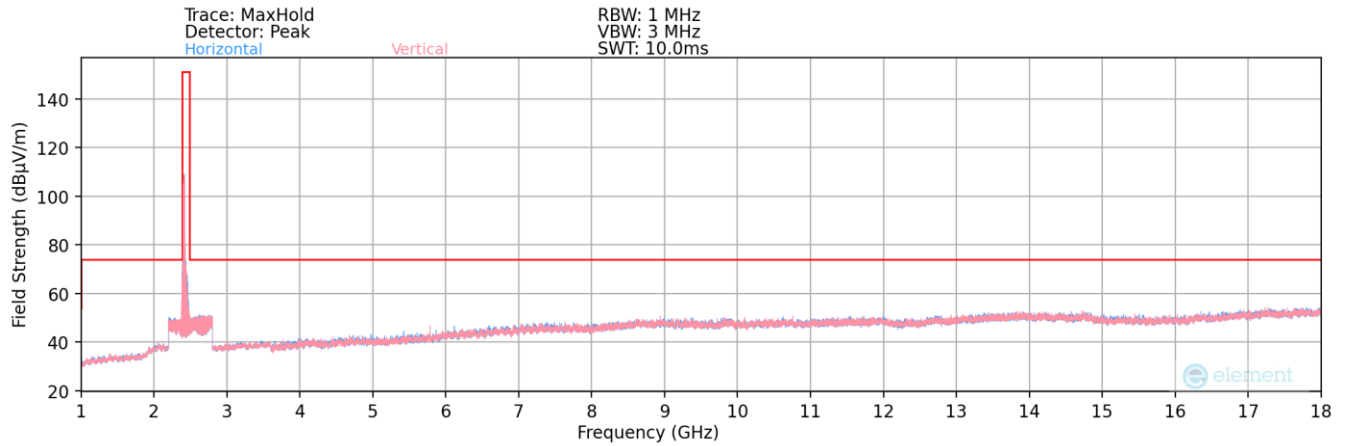


Plot 7-103. Radiated Spurious Plot below 1GHz MIMO

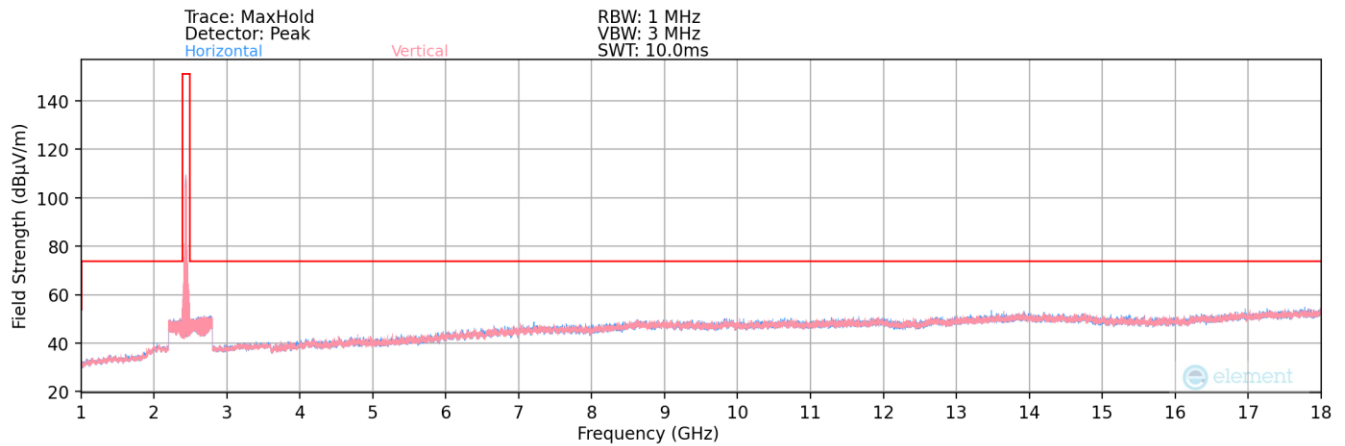
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
151.00	Quasi-Peak	V	-	-	-107.41	19.82	19.41	43.52	-24.11

Table 7-25. Radiated Measurements below 1GHz MIMO

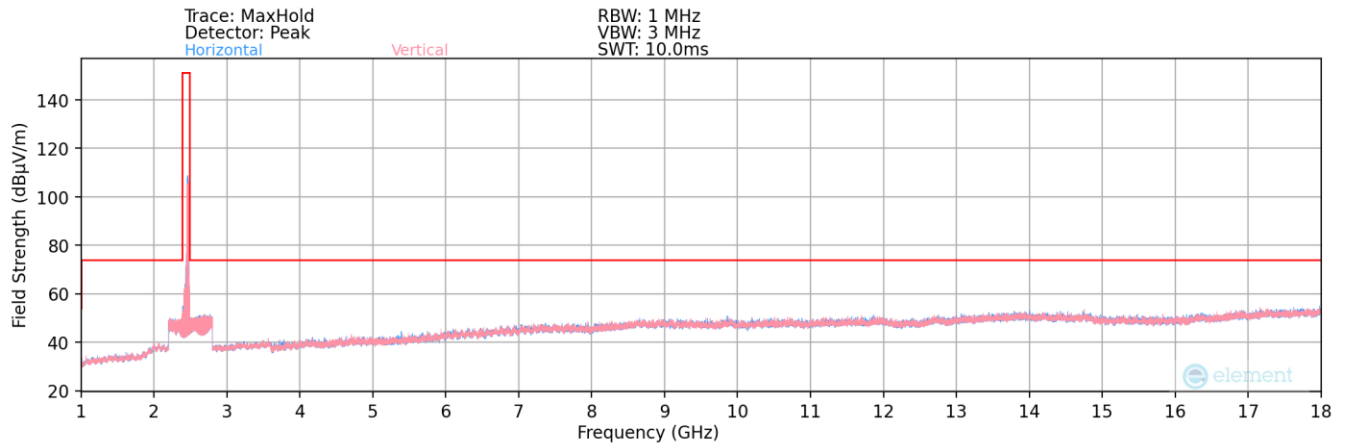
FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-104. Radiated Spurious Plot above 1GHz MIMO (802.11n – Ch. 1)

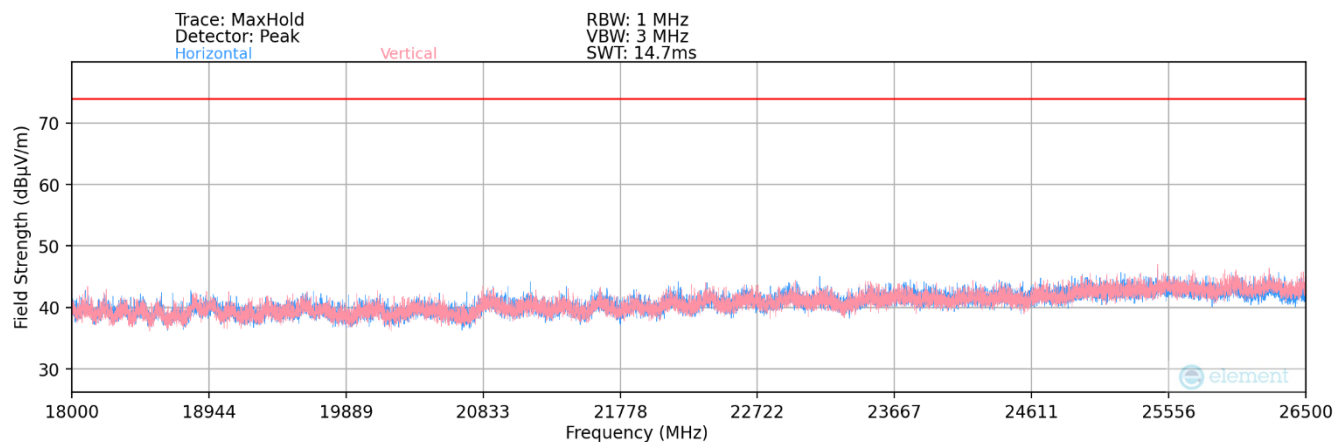


Plot 7-105. Radiated Spurious Plot above 1GHz MIMO (802.11n – Ch. 6)



Plot 7-106. Radiated Spurious Plot above 1GHz MIMO (802.11n – Ch. 11)

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Plot 7-107. Radiated Spurious Plot above 18GHz MIMO

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS8
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	-	-	-78.09	2.60	31.51	53.98	-22.47
4824.00	Peak	H	-	-	-66.08	2.60	43.52	73.98	-30.46
12060.00	Avg	H	-	-	-80.98	13.46	39.48	53.98	-14.50
12060.00	Peak	H	-	-	-69.33	13.46	51.13	73.98	-22.85

Table 7-26. Radiated Measurements MIMO

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS8
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	156	342	-75.14	2.83	34.69	53.98	-19.29
4874.00	Peak	H	156	342	-62.44	2.83	47.39	73.98	-26.59
7311.00	Avg	H	153	357	-78.51	9.49	37.98	53.98	-16.00
7311.00	Peak	H	153	357	-65.11	9.49	51.38	73.98	-22.60
12185.00	Avg	H	-	-	-80.76	12.75	38.99	53.98	-14.99
12185.00	Peak	H	-	-	-68.79	12.75	50.96	73.98	-23.02

Table 7-27. Radiated Measurements MIMO

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS8
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	171	345	-75.80	2.71	33.91	53.98	-20.07
4924.00	Peak	H	171	345	-62.28	2.71	47.43	73.98	-26.55
7386.00	Avg	H	-	-	-79.24	9.42	37.18	53.98	-16.80
7386.00	Peak	H	-	-	-67.15	9.42	49.27	73.98	-24.71
12310.00	Avg	H	-	-	-80.47	13.07	39.60	53.98	-14.38
12310.00	Peak	H	-	-	-69.16	13.07	50.91	73.98	-23.07

Table 7-28. Radiated Measurements MIMO

FCC ID: A3LSMS948B	MEASUREMENT REPORT			Approved by: Technical Manager
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Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 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	170	352	-75.81	2.83	34.02	53.98	-19.96
4874.00	Peak	H	170	352	-63.13	2.83	46.70	73.98	-27.28
7311.00	Avg	H	-	-	-79.20	9.49	37.29	53.98	-16.69
7311.00	Peak	H	-	-	-67.43	9.49	49.06	73.98	-24.92
12185.00	Avg	H	-	-	-80.75	12.75	39.00	53.98	-14.98
12185.00	Peak	H	-	-	-69.17	12.75	50.58	73.98	-23.40

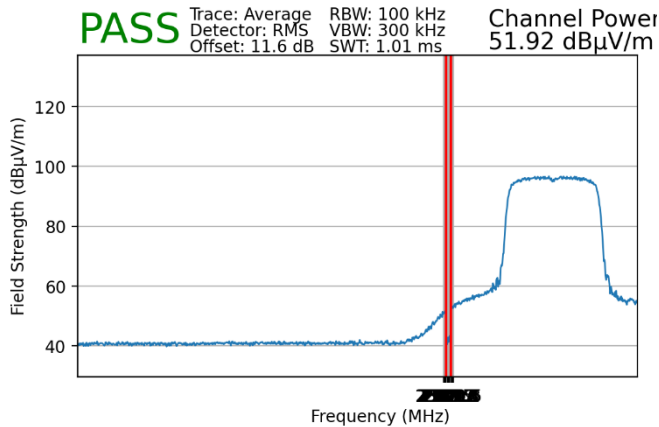
Table 7-29. Radiated Measurements MIMO – WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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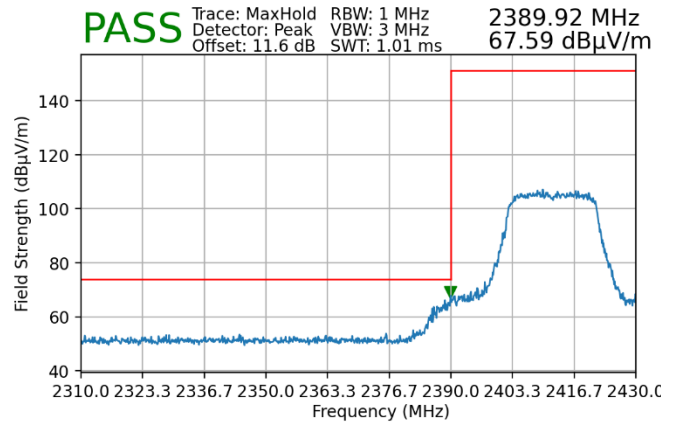
MIMO Radiated Restricted Band Edge Measurements

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

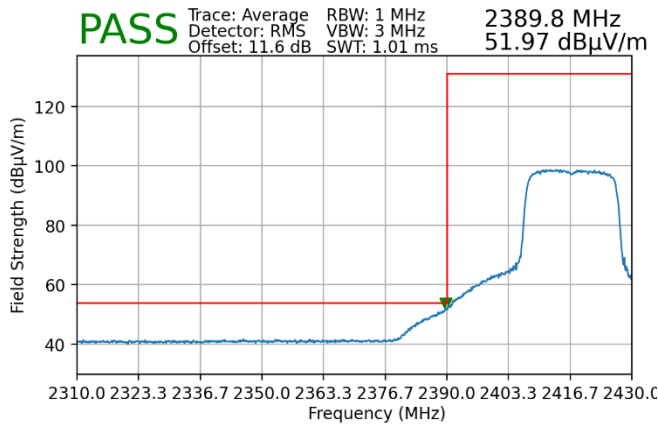


Plot 7-108. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

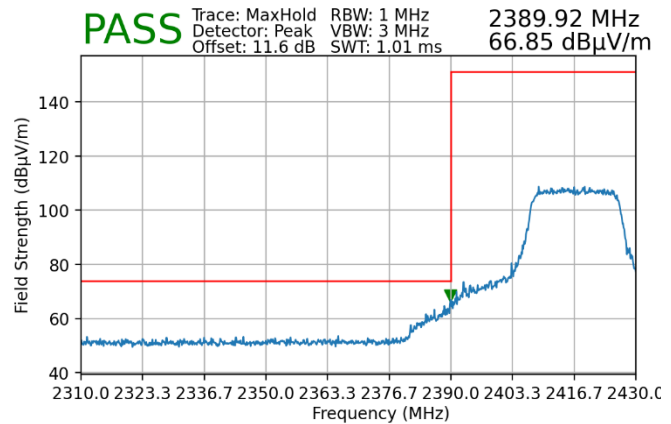


Plot 7-109. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



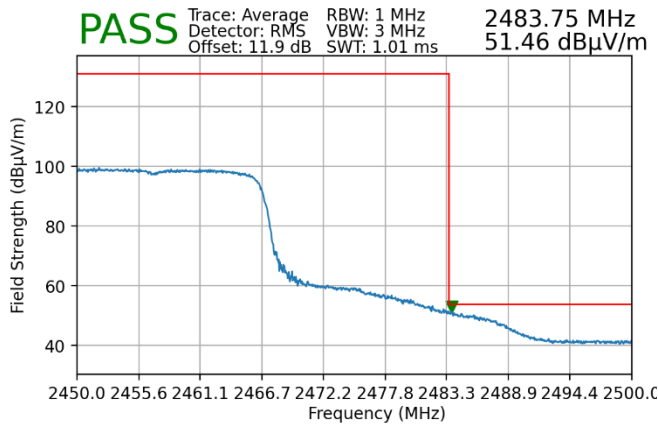
Plot 7-110. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



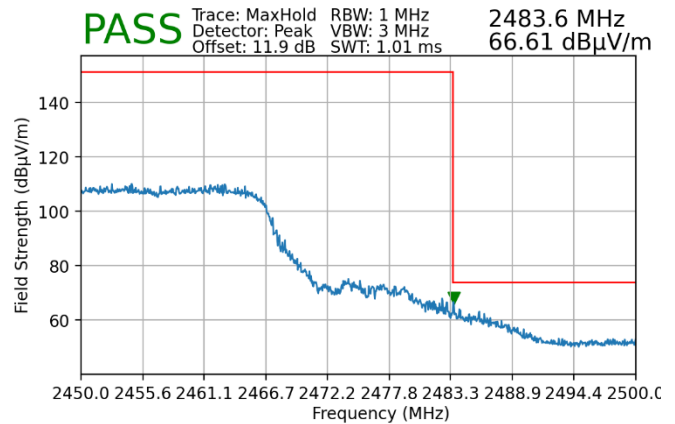
Plot 7-111. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.1ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10

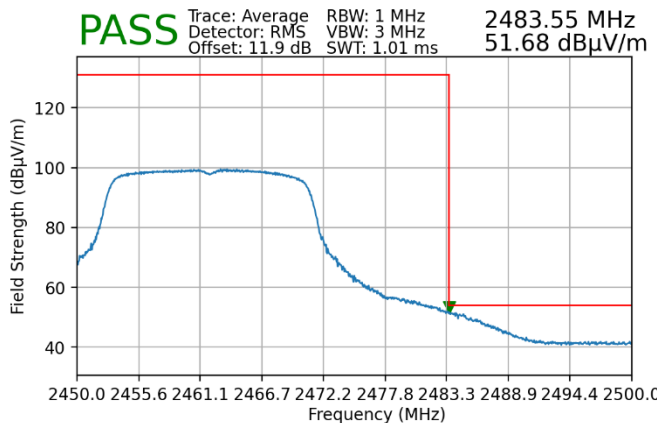


Plot 7-112. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

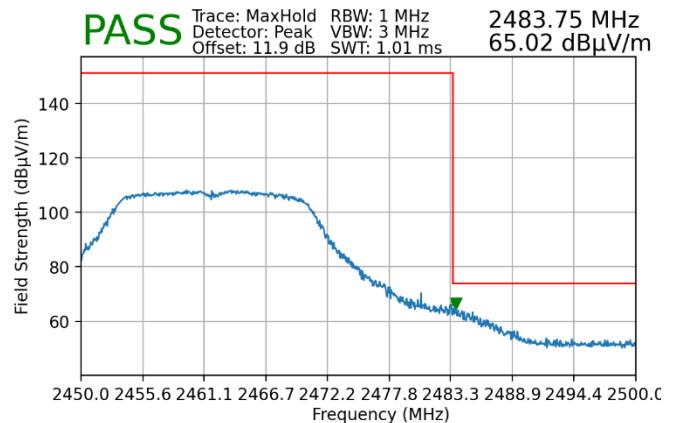


Plot 7-113. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



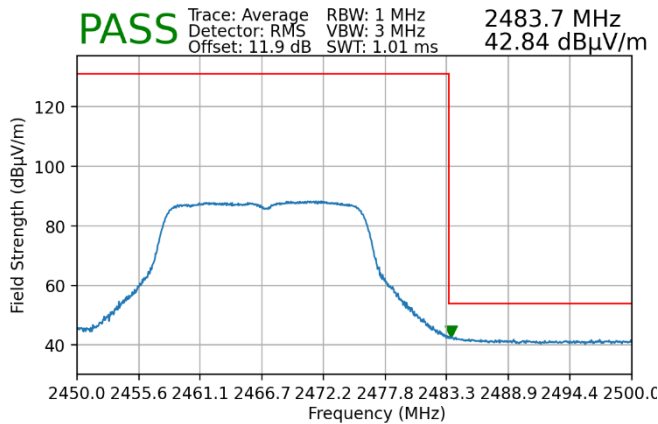
Plot 7-114. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



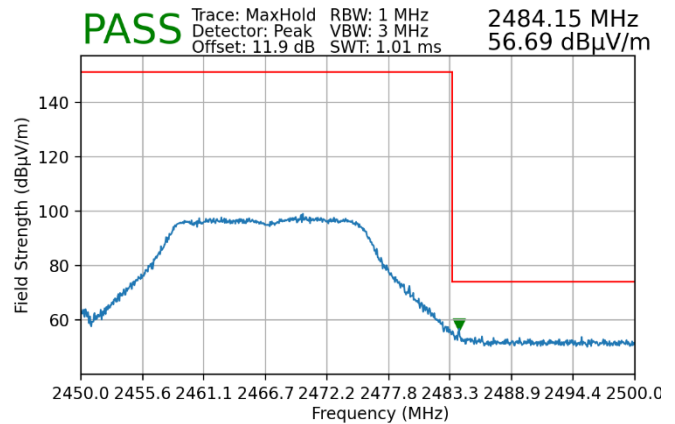
Plot 7-115. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12

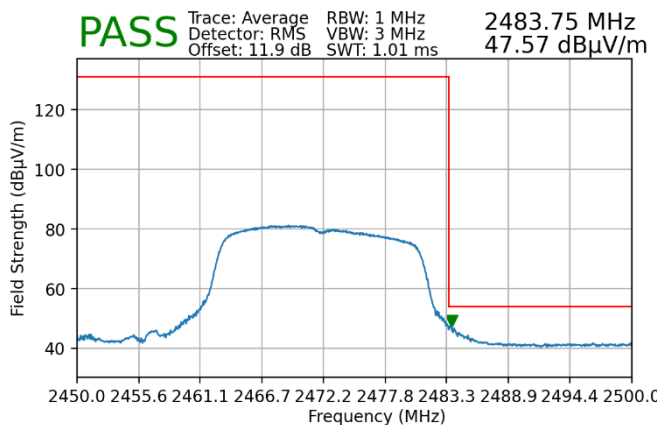


Plot 7-116. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

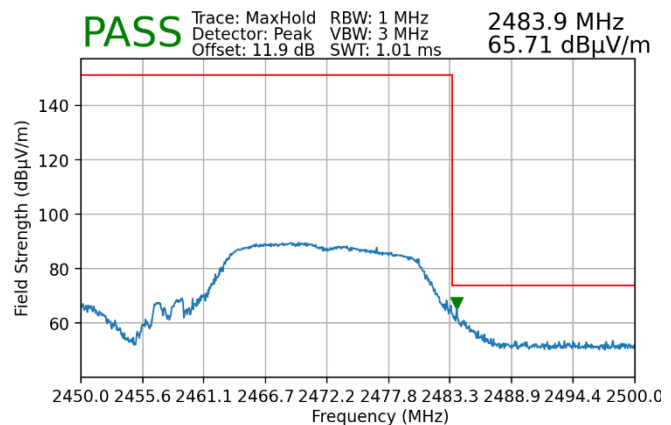


Plot 7-117. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



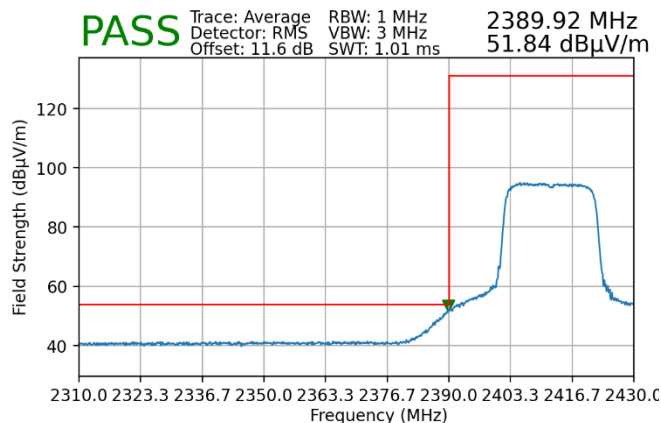
Plot 7-118. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



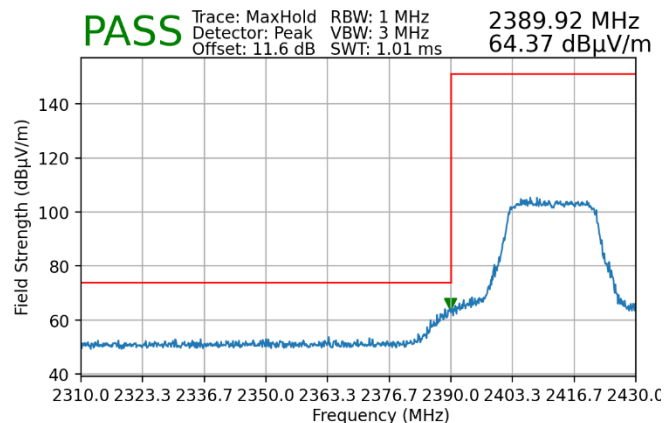
Plot 7-119. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

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



Plot 7-120. Radiated Restricted Lower Band Edge Measurement MIMO (Average) – WCP



Plot 7-121. Radiated Restricted Lower Band Edge Measurement MIMO (Peak) – WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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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 and RSS-Gen (8.8).

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

Table 7-30. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020, 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.

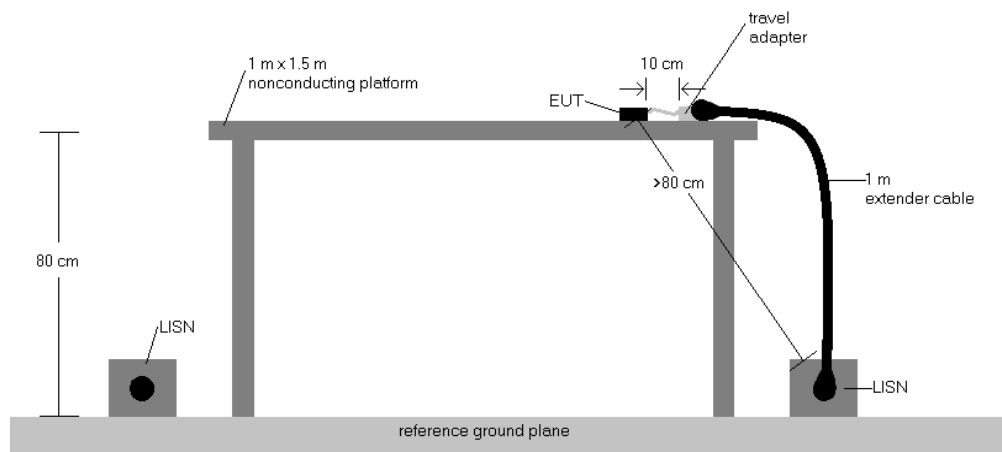
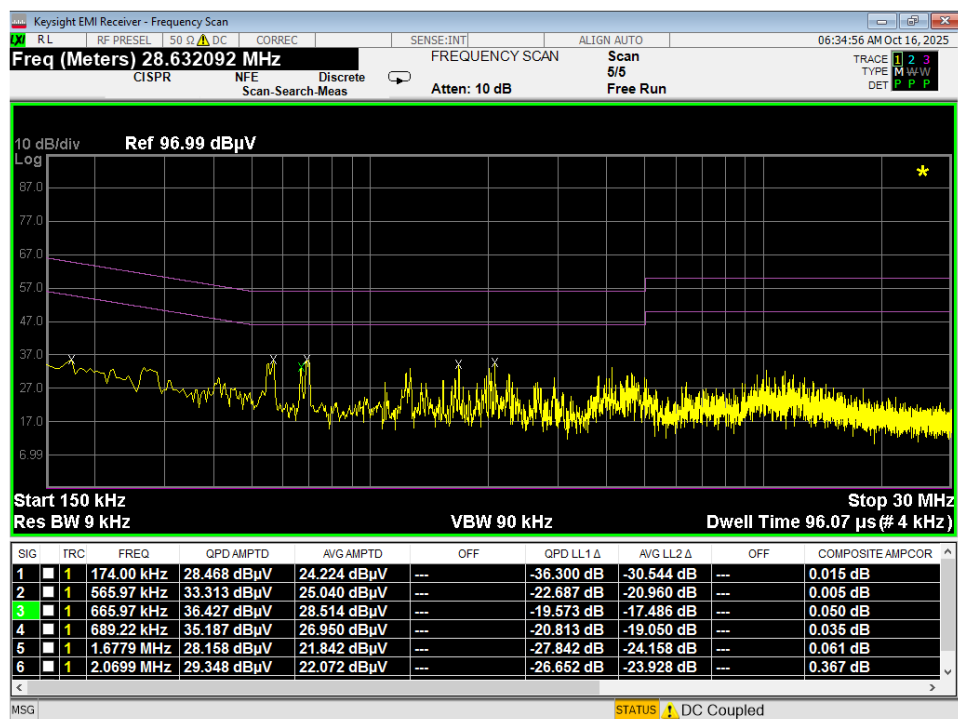


Figure 7-9. Test Instrument & Measurement Setup

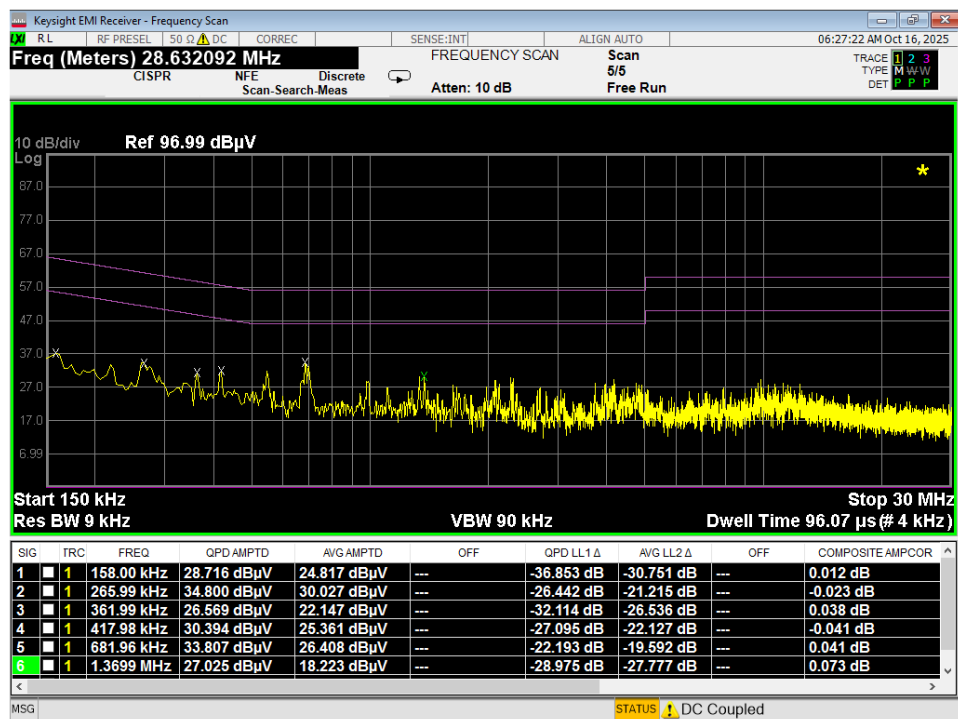
Test Notes

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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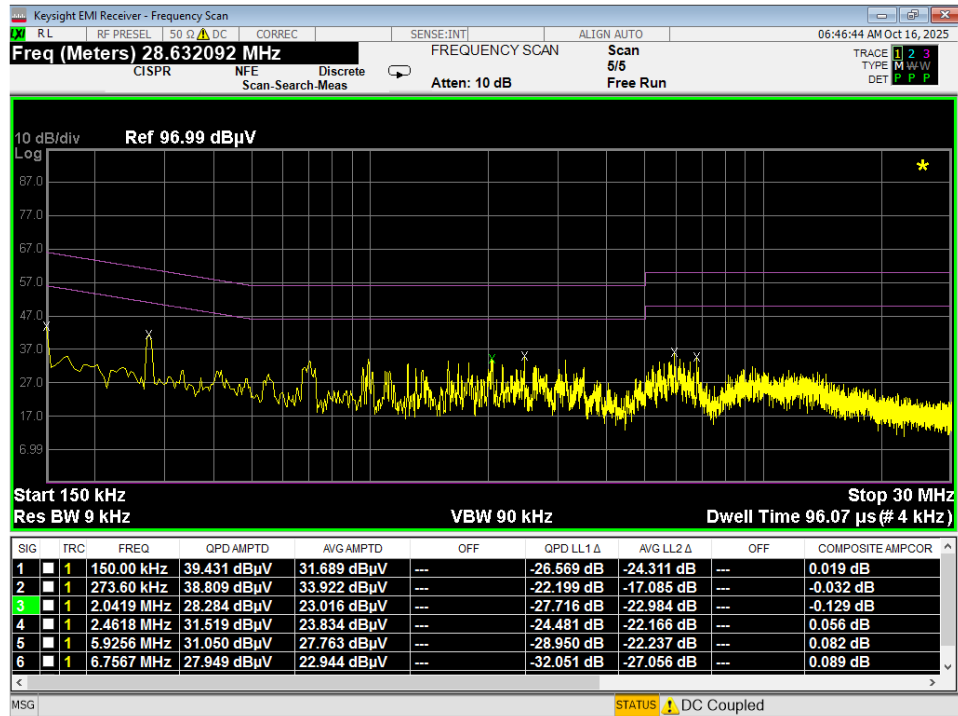


Plot 7-122. Line Conducted Plot with 802.11b (L1)

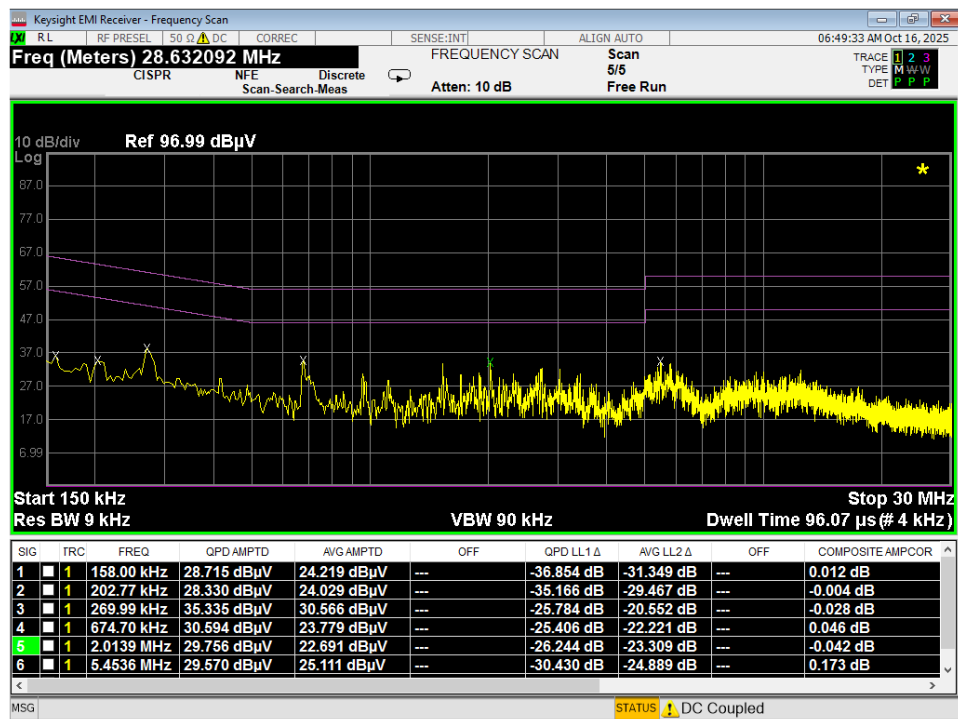


Plot 7-123. Line Conducted Plot with 802.11b (N)

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Plot 7-124. Line Conducted Plot with 802.11b (L1) – WCP



Plot 7-125. Line Conducted Plot with 802.11b (N) – WCP

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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: A3LSMS948B** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules. The data referenced from **FCC ID: A3LSMS948U** (Model SM-S948U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMS948B**.

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9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2020.

Notes

- Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SM-S948B/DS

2.4GHz WIFI (20MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2437	6	Average	17.85	17.76	20.82	30.00	-9.18	0.39	21.21	36.02	-14.81

Table 9-1. Conducted Output Power Measurements (Spot-check)

Radiated Spot-Checks – SM- S948B/DS

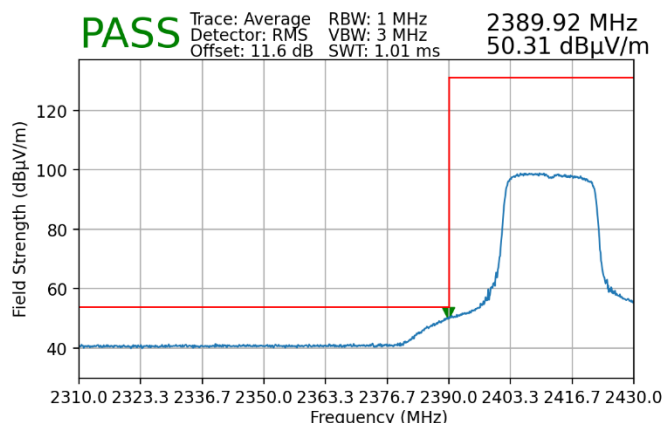
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	1 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
7311.00	Avg	V	-	-	-80.85	12.32	38.47	53.98	-15.51

Table 9-2. RSE Measurements (Spot-check)

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Worst Case Mode: 802.1ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 9-1. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948B/DS	Deviation (dB)	Max Deviation (dB)	Pass/Fail
15.247(b)(3)	Conducted Output Power	802.11be MIMO Ch.6 - Average	dBm	N/A	20.89	20.82	-0.07	1	PASS
15.209	Radiated Spurious Emissions	802.11n MIMO Ch.6 - 7311MHz - Average	dBμV/m	53.98	37.98	38.47	0.49	3	PASS
15.209	Radiated Band Edge Emissions	802.11ax MIMO Ch.1 - Average	dBm	53.98	51.92	50.31	-1.61	3	PASS

Table 9-3. Summary of Spot-checks

- END OF TEST REPORT -

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