



Plot 7-85. Band Edge Plot (802.11ax (2.4GHz) - Ch. 12) - MIMO ANT2



Plot 7-86. Band Edge Plot (802.11ax (2.4GHz) - Ch. 13) - MIMO ANT2

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7.6 Conducted Spurious Emissions

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for "b", "g", "n", "ax" modes. The worst-case spurious emissions for the 2.4GHz band were found while transmitting in "b" mode at 1 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is -30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11.3 of ANSI C63.10-2013.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3 ANSI C63.10-2013 – Section 14.3.3

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

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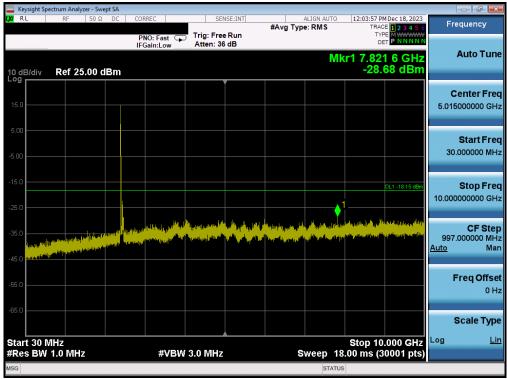


Test Notes

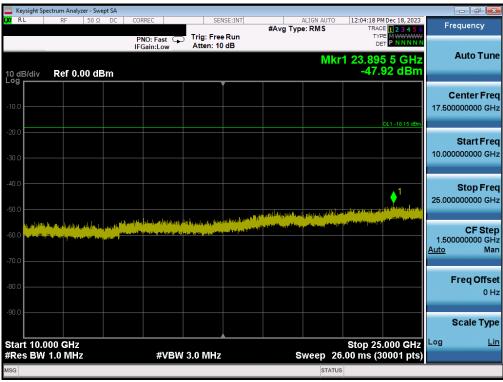
- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- 2. The display line shown in the following plots denotes the limit at -30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be -30dB below the level of the fundamental in a 1MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
- 4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 Section 14.3.3, it was unnecessary to show compliance through the summation of test results of the individual outputs.

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Plot 7-87. Conducted Spurious Plot (802.11b - Ch. 1) - MIMO ANT1

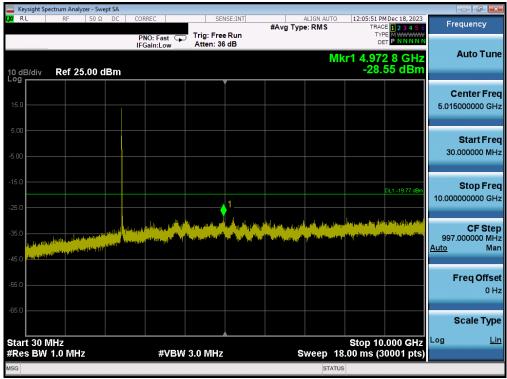


Plot 7-88. Conducted Spurious Plot (802.11b - Ch. 1) - MIMO ANT1

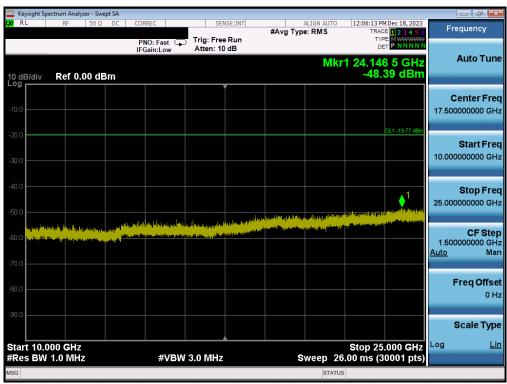
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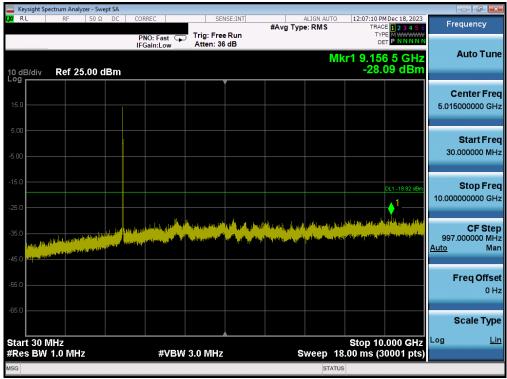
Plot 7-89. Conducted Spurious Plot (802.11b - Ch. 6) - MIMO ANT1



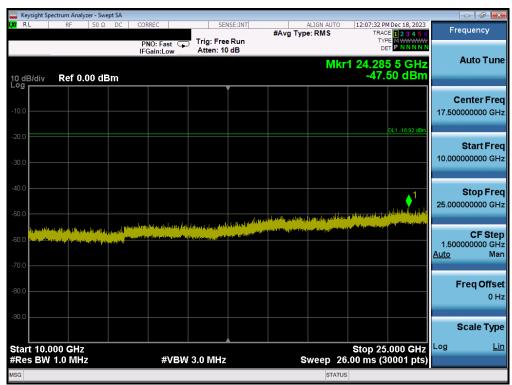
Plot 7-90. Conducted Spurious Plot (802.11b - Ch. 6) - MIMO ANT1

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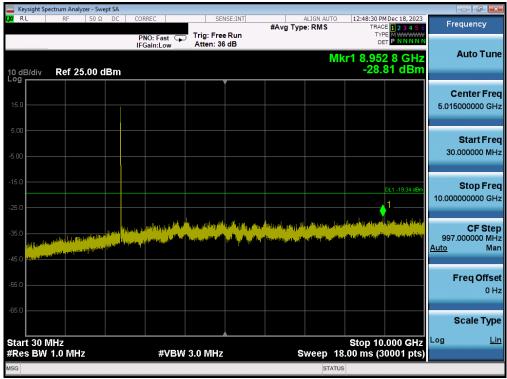
Plot 7-91. Conducted Spurious Plot (802.11b - Ch. 11) - MIMO ANT1



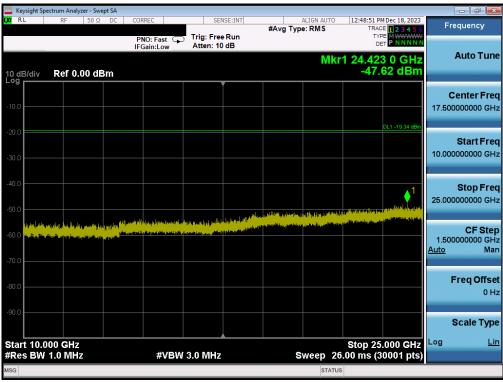
Plot 7-92. Conducted Spurious Plot (802.11b - Ch. 11) - MIMO ANT1

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Plot 7-93. Conducted Spurious Plot (802.11b - Ch. 1) - MIMO ANT2

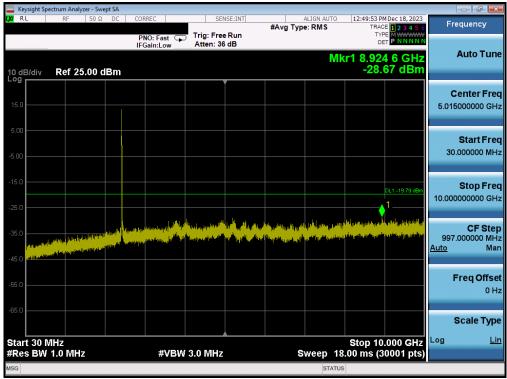


Plot 7-94. Conducted Spurious Plot (802.11b - Ch. 1) - MIMO ANT2

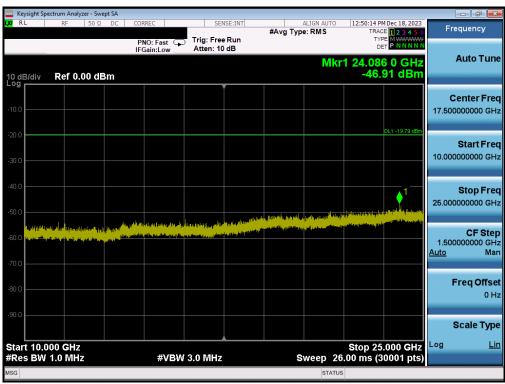
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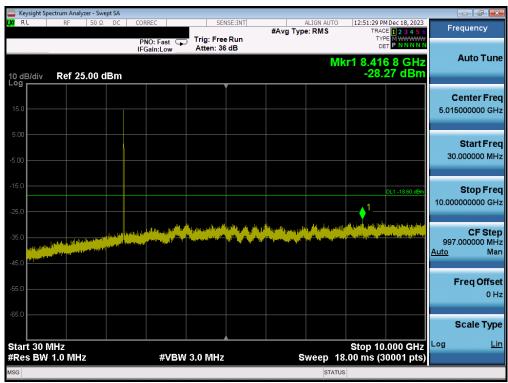
Plot 7-95. Conducted Spurious Plot (802.11b - Ch. 6) - MIMO ANT2



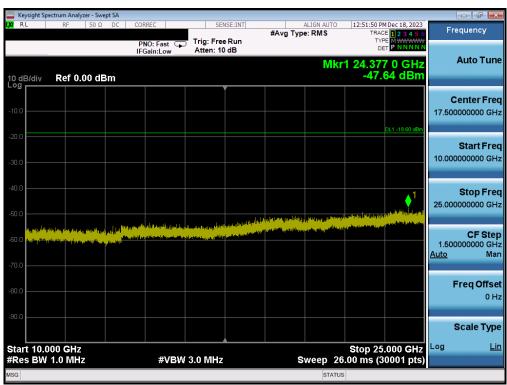
Plot 7-96. Conducted Spurious Plot (802.11b - Ch. 6) - MIMO ANT2

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Plot 7-97. Conducted Spurious Plot (802.11b - Ch. 11) - MIMO ANT2



Plot 7-98. Conducted Spurious Plot (802.11b - Ch. 11) - MIMO ANT2

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7.7 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at 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 [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 7-8. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 - Section 6.6.4.3

<u>Test Settings – Above 1GHz</u>

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 $\geq 2 \times \text{span} \setminus \text{RBW}$)
- 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

<u>Test Settings – Below 1GHz</u>

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.

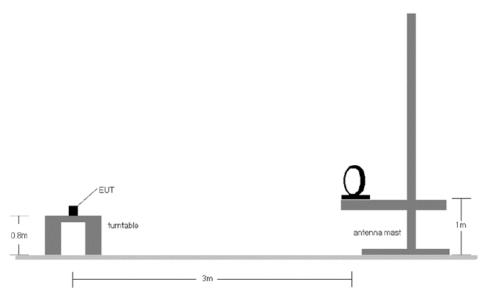


Figure 7-6. Radiated Test Setup < 30MHz

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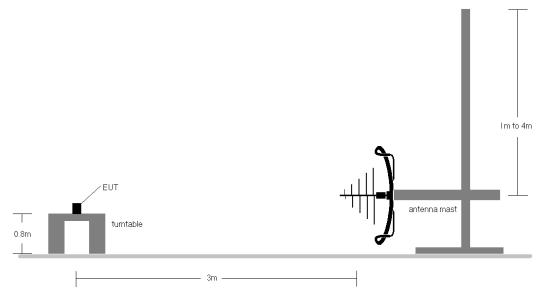


Figure 7-7. Radiated Test Setup < 1GHz

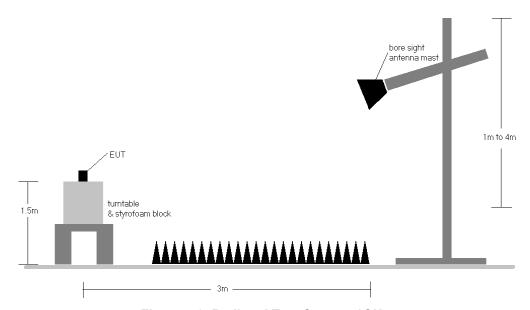


Figure 7-8. Radiated Test Setup > 1GHz

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 and Section 8.10 of RSS-Gen are 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 [dBμV\\m] = Analyzer Level [dBm] + 107 + AFCL [dB\\m]
- AFCL [dB\\m] = Antenna Factor [dB\\m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV\\m] Limit [dBμV\\m]

Radiated Band Edge Measurement Offset

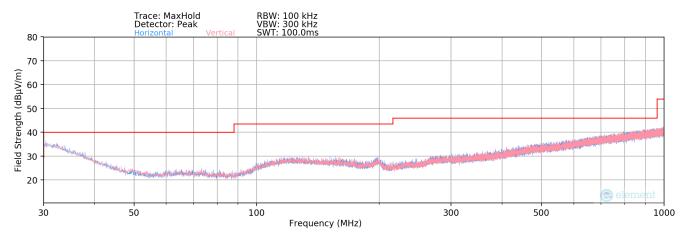
 The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.7.1 MIMO Radiated Spurious Emission Measurements



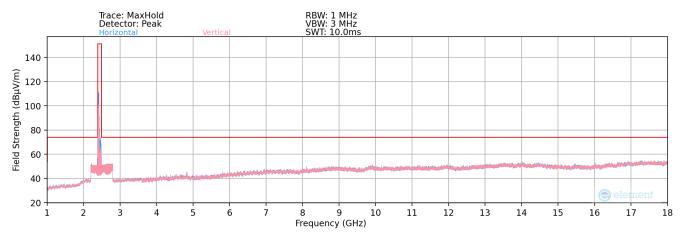
Plot 7-99. MIMO Radiated Spurious Plot below 1GHz

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]
206.50	Quasi- Peak	Н	-	-	-92.39	18.05	32.66	43.52	-10.86

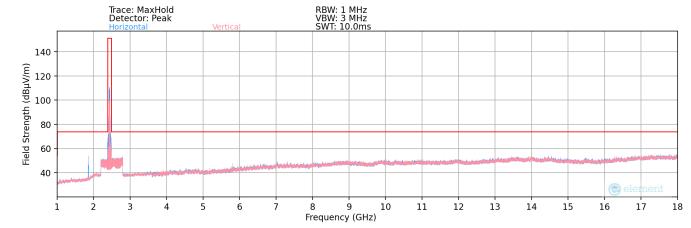
Table 7-9. Radiated Measurements MIMO below 1GHz

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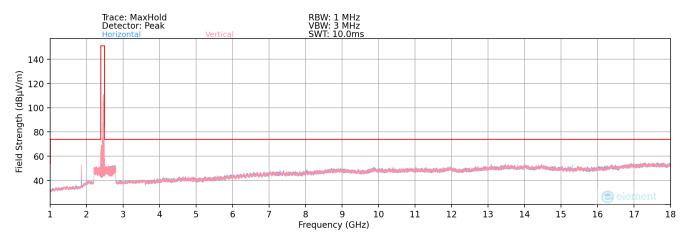




Plot 7-100. MIMO Radiated Spurious Plot above 1GHz (802.11b - Ch. 1)



Plot 7-101. MIMO Radiated Spurious Plot above 1GHz (802.11b - Ch. 6)



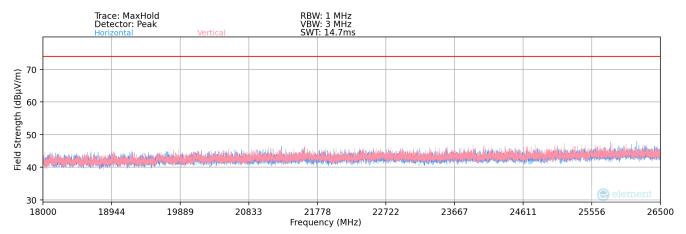
Plot 7-102. MIMO Radiated Spurious Plot above 1GHz (802.11b - Ch. 11)

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Plot 7-103. MIMO Radiated Spurious Plot above 18GHz

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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 [dBµV/m]	Margin [dB]
4824.00	Avg	Н	125	298	-64.24	2.81	45.57	53.98	-8.41
4824.00	Peak	Н	125	298	-59.71	2.81	50.10	73.98	-23.88
12060.00	Avg	Н	-	-	-81.27	12.85	38.58	53.98	-15.40
12060.00	Peak	Н	-	-	-69.34	12.85	50.51	73.98	-23.47

Table 7-10. 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 [dBµV/m]	Margin [dB]
4874.00	Avg	Н	141	299	-65.52	3.15	44.63	53.98	-9.34
4874.00	Peak	Н	141	299	-61.27	3.15	48.88	73.98	-25.09
7311.00	Avg	Н	301	296	-78.03	9.58	38.55	53.98	-15.43
7311.00	Peak	Н	301	296	-67.20	9.58	49.38	73.98	-24.60
12185.00	Avg	Н	-	-	-80.82	13.06	39.24	53.98	-14.74
12185.00	Peak	Н	-	-	-69.38	13.06	50.68	73.98	-23.30

Table 7-11. 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 [dBµV/m]	Margin [dB]
4924.00	Avg	Н	121	301	-64.62	3.02	45.40	53.98	-8.58
4924.00	Peak	Н	121	301	-60.71	3.02	49.31	73.98	-24.67
7386.00	Avg	Н	333	299	-76.54	9.34	39.80	53.98	-14.18
7386.00	Peak	Н	333	299	-65.24	9.34	51.10	73.98	-22.88
12310.00	Avg	Н	-	-	-81.89	13.24	38.35	53.98	-15.63
12310.00	Peak	Н	-	-	-69.93	13.24	50.31	73.98	-23.67

Table 7-12. Radiated Measurements MIMO

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7.7.2 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:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

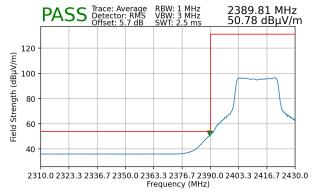
802.11ax

MCS0

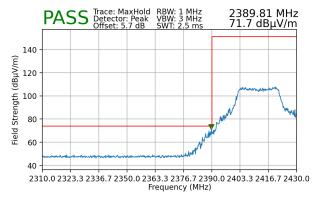
3 Meters

2412MHz

1



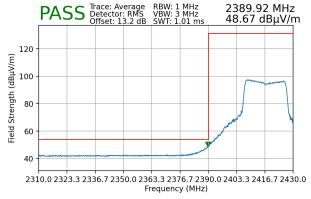
Plot 7-104. Radiated Restricted Lower Band Edge Measurement (Average)



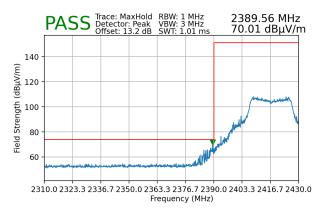
Plot 7-105. Radiated Restricted Lower Band Edge Measurement (Peak)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
2417MHz
2



Plot 7-106. Radiated Restricted Lower Band Edge Measurement (Average)



Plot 7-107. Radiated Restricted Lower Band Edge Measurement (Peak)

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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

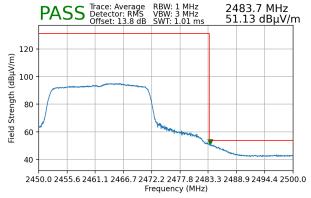
802.11ax

MCS0

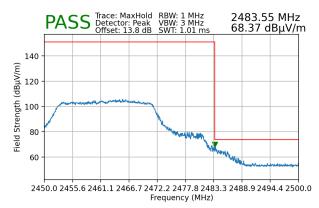
3 Meters

2462MHz

11



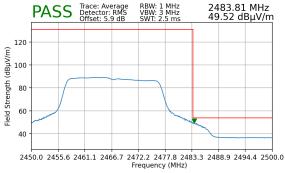
Plot 7-108. Radiated Restricted Upper Band Edge Measurement (Average)



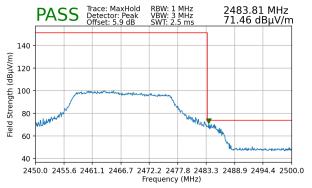
Plot 7-109. Radiated Restricted Upper Band Edge Measurement (Peak)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
2467MHz
12



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



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

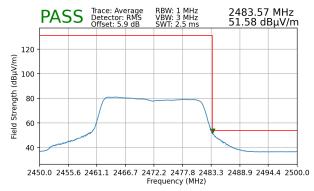
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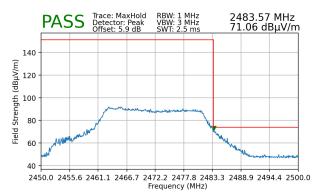


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
2472MHz
13



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



Plot 7-113. Radiated Restricted Upper Band Edge Measurement (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 and RSS-Gen (8.8).

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

Table 7-13. Conducted Limits

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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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

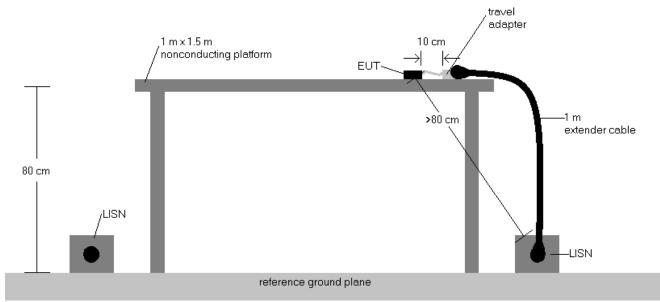


Figure 7-9. Test Instrument & Measurement Setup

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. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP\\AV Level (dB μ V) = QP\\AV Analyzer\\Receiver Level (dB μ V) + Corr. (dB)
- 5. Margin (dB) = QP\\AV Limit (dB μ V) QP\\AV Level (dB μ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

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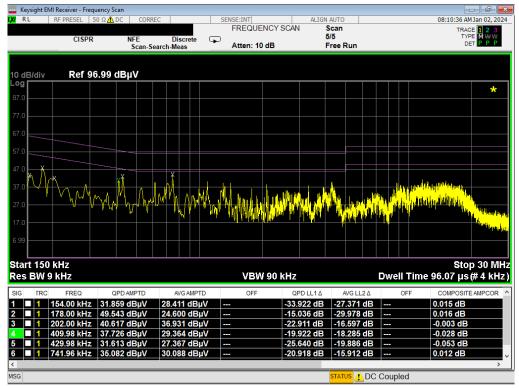


Table 7-14. Line Conducted Data with 802.11b (L1)

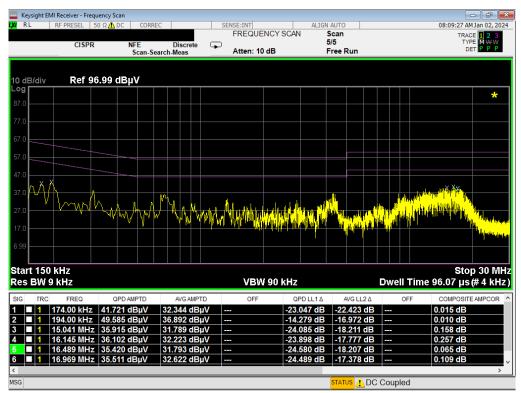


Table 7-15. Line Conducted Data with 802.11b (N)

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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: A3LSMA356E** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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