

MIMO Radiated Spurious Emission Measurements – UNII Band 1

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	1	36	5180		10360.00	Peak	V	-	-	-69.20	12.59	0.00	50.39	68.20	-17.81
					*	15540.00	Average	V	-	-	-82.64	14.57	0.00	38.93	53.98	-15.05
					*	15540.00	Peak	V	-	-	-70.02	14.57	0.00	51.55	73.98	-22.43
					*	20720.00	Average	V	-	-	-67.04	3.16	-9.54	33.58	53.98	-20.40
					*	20720.00	Peak	V	-	-	-56.28	3.16	-9.54	44.34	73.98	-29.64
					*	25900.00	Peak	V	-	-	-56.10	4.24	-9.54	45.60	68.20	-22.60
			40	5200		10400.00	Peak	V	-	-	-69.82	12.35	0.00	49.53	68.20	-18.67
					*	15600.00	Average	V	-	-	-83.00	14.13	0.00	38.13	53.98	-15.85
					*	15600.00	Peak	V	-	-	-69.69	14.13	0.00	51.44	73.98	-22.54
					*	20800.00	Average	V	-	-	-66.28	3.15	-9.54	34.33	53.98	-19.65
					*	20800.00	Peak	V	-	-	-55.87	3.15	-9.54	44.74	73.98	-29.24
					*	26000.00	Peak	V	-	-	-56.86	4.16	-9.54	44.76	68.20	-23.44
			48	5240		10480.00	Peak	V	-	-	-70.19	11.78	0.00	48.59	68.20	-19.61
					*	15720.00	Average	V	-	-	-82.97	13.94	0.00	37.97	53.98	-16.01
					*	15720.00	Peak	V	-	-	-69.81	13.94	0.00	51.13	73.98	-22.85
					*	20960.00	Peak	V	-	-	-56.83	3.27	-9.54	43.90	68.20	-24.30
					*	26200.00	Peak	V	-	-	-56.41	3.96	-9.54	45.01	68.20	-23.19

Table 7-55. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements – UNII Band 2A

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	2A	52	5260		10520.00	Peak	V	-	-	-69.95	11.91	0.00	48.96	68.20	-19.24
					*	15780.00	Average	V	-	-	-83.05	14.27	0.00	38.22	53.98	-15.76
					*	15780.00	Peak	V	-	-	-70.02	14.27	0.00	51.25	73.98	-22.73
					*	21040.00	Average	V	-	-	-67.23	3.35	-9.54	33.58	53.98	-20.40
					*	21040.00	Peak	V	-	-	-56.64	3.35	-9.54	44.17	73.98	-29.81
						26300.00	Peak	V	-	-	-57.22	3.91	-9.54	44.15	68.20	-24.05
			56	5280		10560.00	Peak	V	-	-	-70.35	12.42	0.00	49.07	68.20	-19.13
					*	15840.00	Average	V	-	-	-82.27	14.56	0.00	39.29	53.98	-14.69
					*	15840.00	Peak	V	-	-	-70.13	14.56	0.00	51.43	73.98	-22.55
					*	21120.00	Average	V	-	-	-88.85	3.46	-9.54	12.07	53.98	-41.91
					*	21120.00	Peak	V	-	-	-57.15	3.46	-9.54	43.77	73.98	-30.21
						26400.00	Peak	V	-	-	-57.56	3.71	-9.54	43.61	68.20	-24.59
			64	5320	*	10640.00	Average	V	-	-	-82.54	13.03	0.00	37.49	53.98	-16.49
					*	10640.00	Peak	V	-	-	-69.19	13.03	0.00	50.84	73.98	-23.14
					*	15960.00	Average	V	-	-	-83.03	14.49	0.00	38.46	53.98	-15.52
					*	15960.00	Peak	V	-	-	-70.69	14.49	0.00	50.80	73.98	-23.18
					*	21280.00	Average	V	-	-	-67.22	3.58	-9.54	33.82	53.98	-20.16
					*	21280.00	Peak	V	-	-	-57.20	3.58	-9.54	43.84	73.98	-30.14
						26600.00	Peak	V	-	-	-58.55	3.91	-9.54	42.82	68.20	-25.38

Table 7-56. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements – UNII Band 2C

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	2C	100	5500	*	11000.00	Average	V	-	-	-81.13	12.29	0.00	38.16	53.98	-15.82
					*	11000.00	Peak	V	-	-	-68.33	12.29	-9.54	41.42	73.98	-32.56
						16500.00	Peak	V	-	-	-68.24	15.73	-9.54	44.95	68.20	-23.25
						22000.00	Peak	V	-	-	-57.07	3.53	-9.54	43.92	68.20	-24.28
						27500.00	Peak	V	-	-	-56.59	3.97	-9.54	44.84	68.20	-23.36
			120	5600	*	11200.00	Average	V	-	-	-82.85	12.91	0.00	37.06	53.98	-16.92
					*	11200.00	Peak	V	-	-	-68.61	12.91	0.00	51.30	73.98	-22.68
						16800.00	Peak	V	-	-	-69.49	16.25	0.00	53.76	68.20	-14.44
					*	22400.00	Average	V	-	-	-66.88	3.58	-9.54	34.16	53.98	-19.82
					*	22400.00	Peak	V	-	-	-56.92	3.58	-9.54	44.12	73.98	-29.86
			144	5720		28000.00	Peak	V	-	-	-57.31	4.52	-9.54	44.67	68.20	-23.53
					*	11440.00	Average	V	-	-	-82.90	13.42	0.00	37.52	53.98	-16.46
					*	11440.00	Peak	V	-	-	-70.72	13.42	0.00	49.70	73.98	-24.28
						17160.00	Peak	V	-	-	-69.17	16.48	0.00	54.31	68.20	-13.89
					*	22880.00	Average	V	-	-	-66.58	3.76	-9.54	34.64	53.98	-19.34
					*	22880.00	Peak	V	-	-	-56.49	3.76	-9.54	44.73	73.98	-29.25
						28600.00	Peak	V	-	-	-57.43	4.96	-9.54	44.99	68.20	-23.21

Table 7-57. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements – UNII Band 3

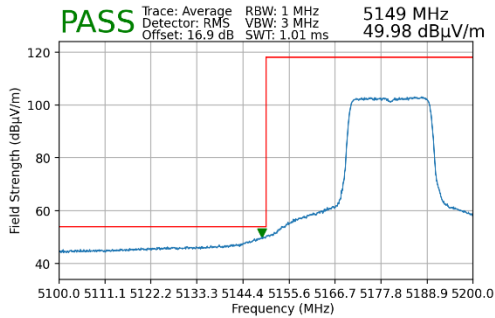
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	MIMO	3	149	5745	*	11490.00	Average	V	-	-	-83.14	13.35	0.00	37.21	53.98	-16.77
					*	11490.00	Peak	V	-	-	-70.12	13.35	0.00	50.23	73.98	-23.75
						17235.00	Peak	V	-	-	-69.33	17.29	0.00	54.96	68.20	-13.24
					*	22980.00	Average	V	-	-	-67.55	3.66	-9.54	33.57	53.98	-20.41
					*	22980.00	Peak	V	-	-	-57.40	3.66	-9.54	43.72	73.98	-30.26
						28725.00	Peak	V	-	-	-58.09	5.05	-9.54	44.42	68.20	-23.78
			157	5785	*	11570.00	Average	V	-	-	-81.84	13.19	0.00	38.35	53.98	-15.63
					*	11570.00	Peak	V	-	-	-69.46	13.19	0.00	50.73	73.98	-23.25
						17355.00	Peak	V	-	-	-69.10	16.73	0.00	54.63	68.20	-13.57
						23140.00	Peak	V	-	-	-57.25	3.65	-9.54	43.86	68.20	-24.34
						28925.00	Peak	V	-	-	-57.95	4.92	-9.54	44.43	68.20	-23.77
			165	5825	*	11650.00	Average	V	-	-	-82.10	12.96	0.00	37.86	53.98	-16.12
					*	11650.00	Peak	V	-	-	-70.10	12.96	0.00	49.86	73.98	-24.12
						17475.00	Peak	V	-	-	-69.45	17.00	0.00	54.55	68.20	-13.65
						23300.00	Peak	V	-	-	-56.97	3.55	-9.54	44.04	68.20	-24.16
						29125.00	Peak	V	-	-	-58.06	5.01	-9.54	44.41	68.20	-23.79

Table 7-58. Radiated Measurements MIMO

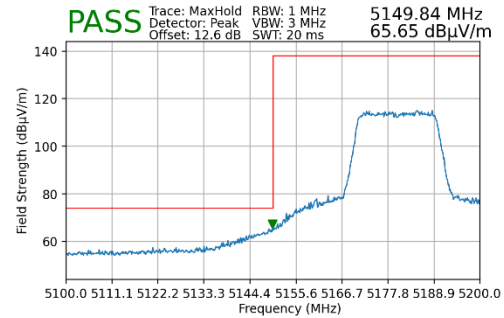
FCC ID: A3LSMI610	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

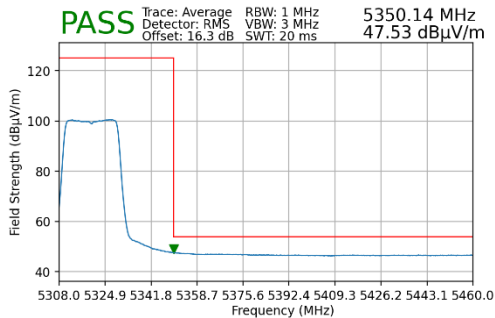


Plot 7-84. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

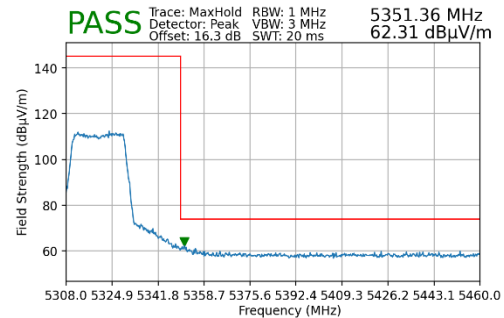


Plot 7-85. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-86. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

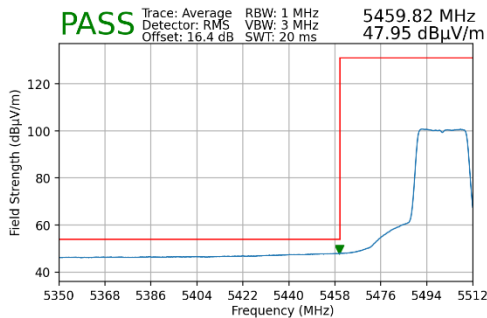


Plot 7-87. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

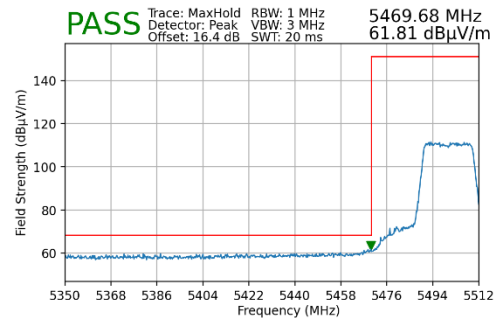
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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100

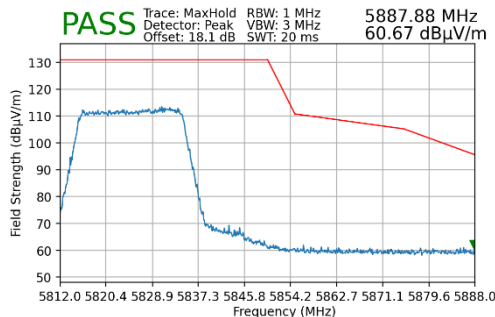


Plot 7-88. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C)



Plot 7-89. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5825MHz
Channel: 165

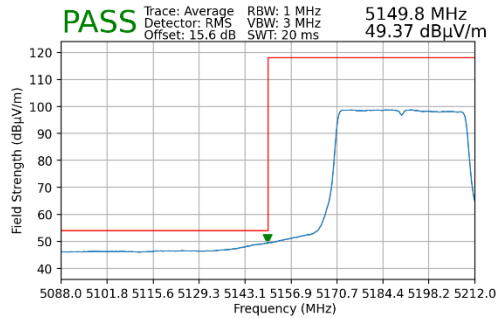


Plot 7-90. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 3)

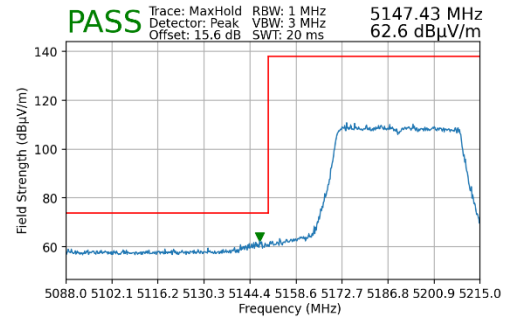
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7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

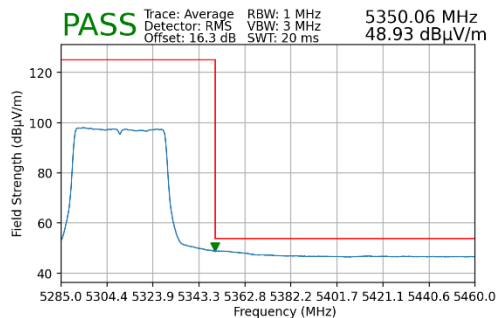


Plot 7-91. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

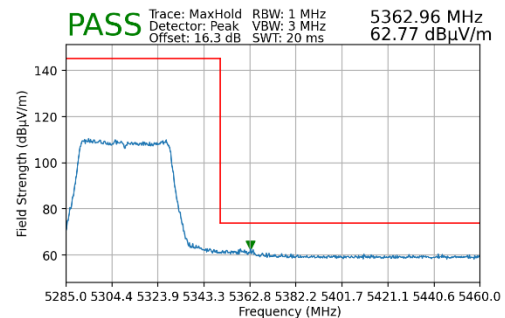


Plot 7-92. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-93. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

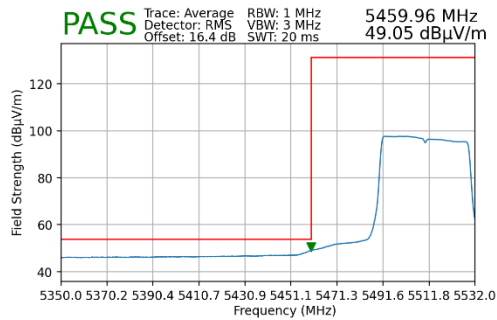


Plot 7-94. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

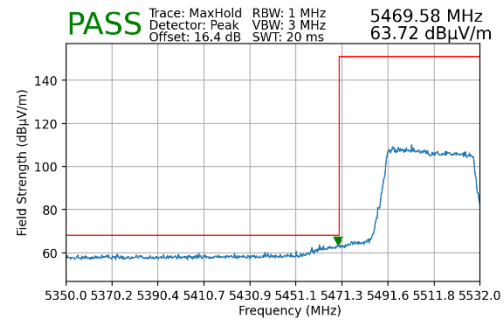
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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5510MHz
Channel: 102

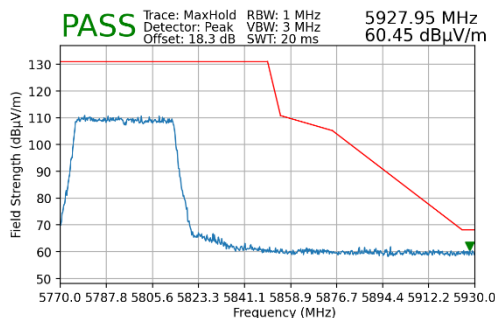


Plot 7-95. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C)



Plot 7-96. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5795MHz
Channel: 159

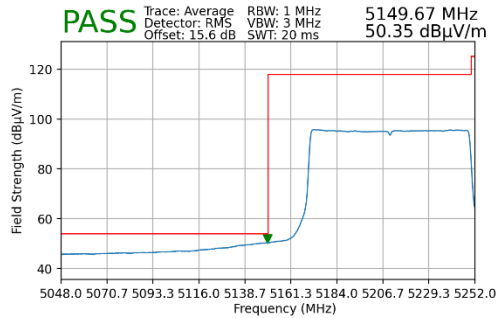


Plot 7-97. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 3)

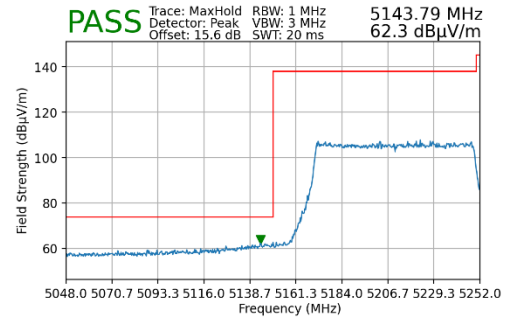
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7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

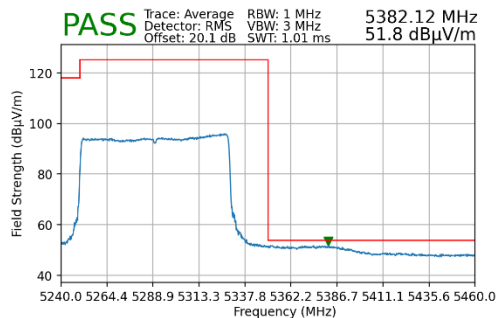


Plot 7-98. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

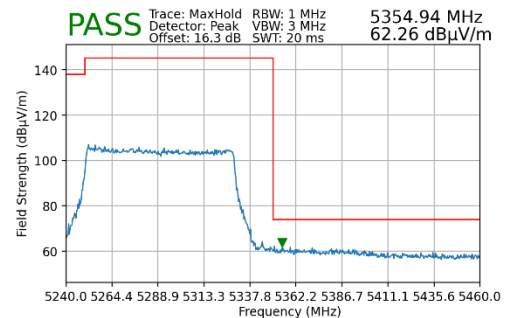


Plot 7-99. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



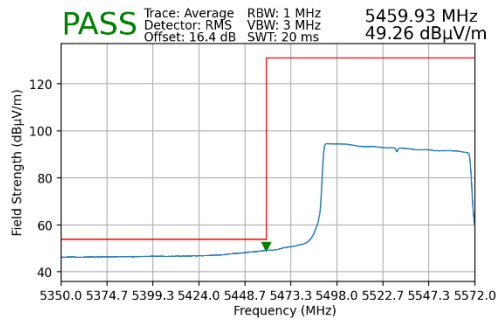
Plot 7-100. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



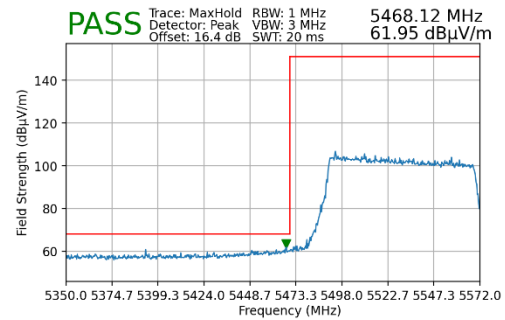
Plot 7-101. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

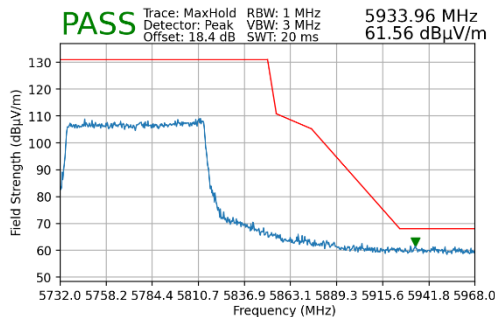


Plot 7-102. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-103. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

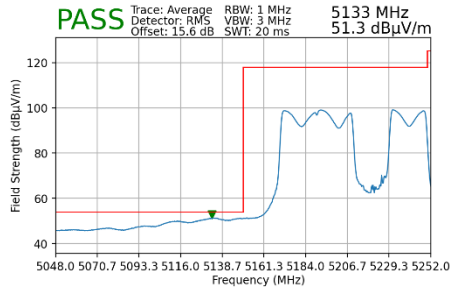


Plot 7-104. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

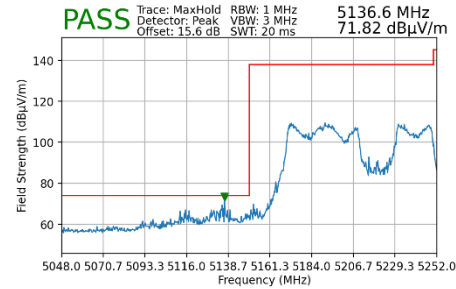
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7.6.5 MIMO Radiated Band Edge Measurements (80MHz BW - Punctured)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

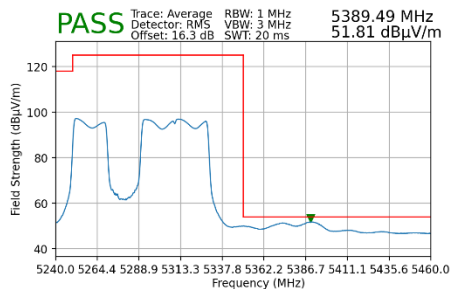


Plot 7-105. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

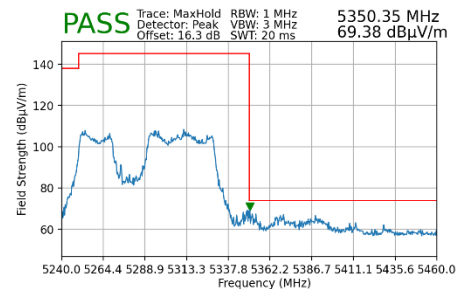


Plot 7-106. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



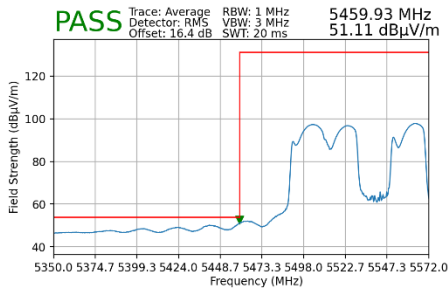
Plot 7-107. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



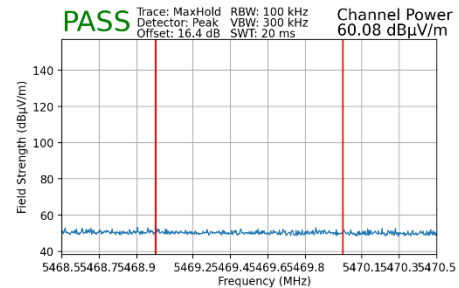
Plot 7-108. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

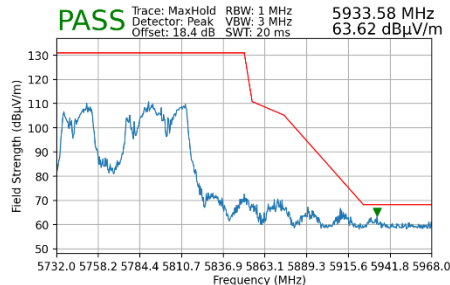


Plot 7-109. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-110. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

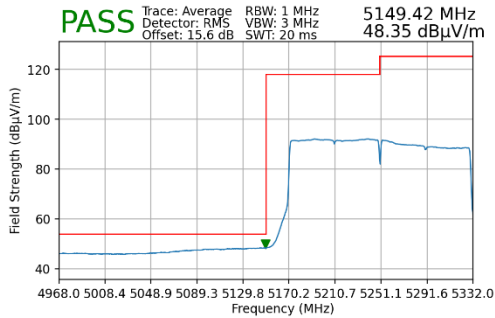


Plot 7-111. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

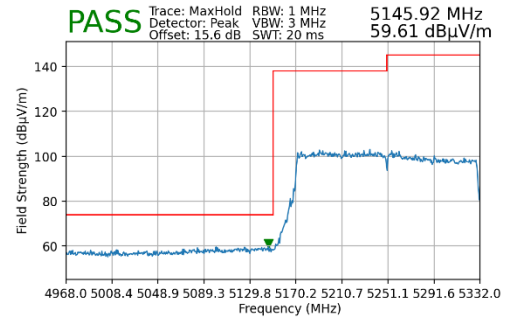
FCC ID: A3LSMI610	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.6 MIMO Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

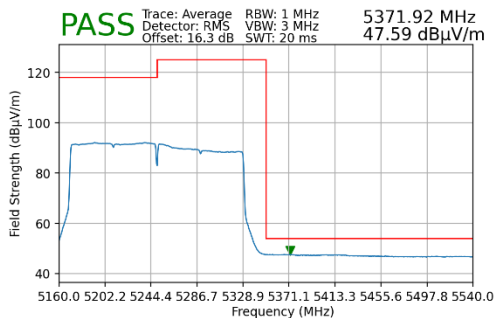


Plot 7-112. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

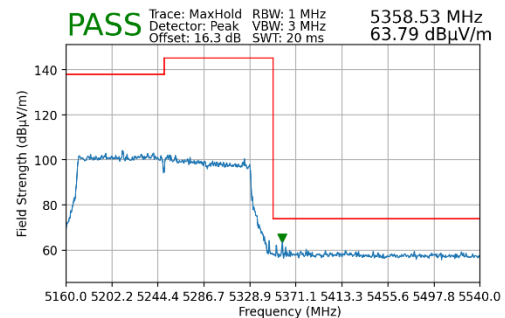


Plot 7-113. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



Plot 7-114. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

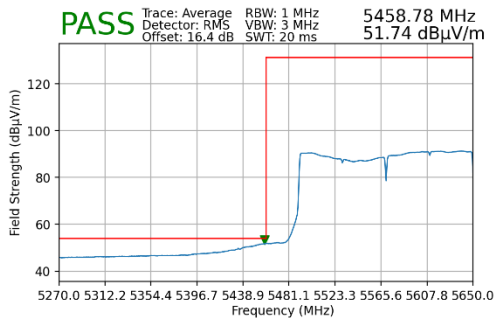


Plot 7-115. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

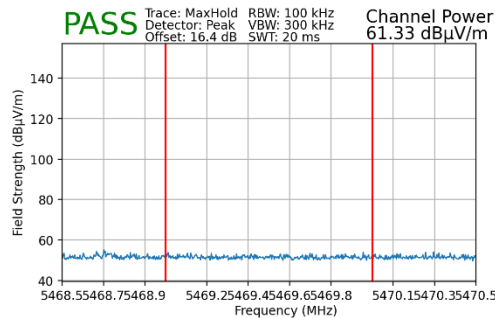
FCC ID: A3LSMI610	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114



Plot 7-116. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C)

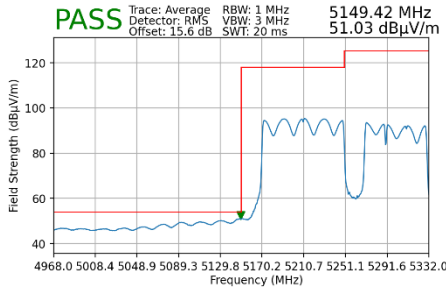


Plot 7-117. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C)

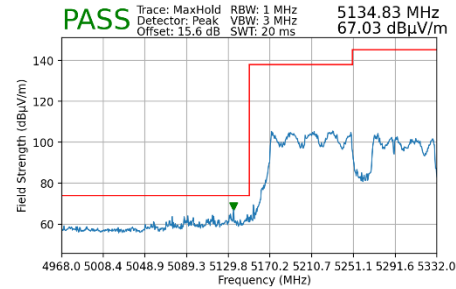
FCC ID: A3LSMI610	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.7 MIMO Radiated Band Edge Measurements (160MHz BW - Punctured)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

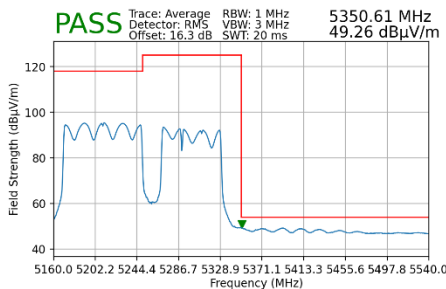


Plot 7-118. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

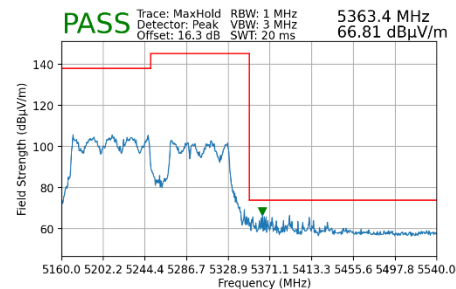


Plot 7-119. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



Plot 7-120. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

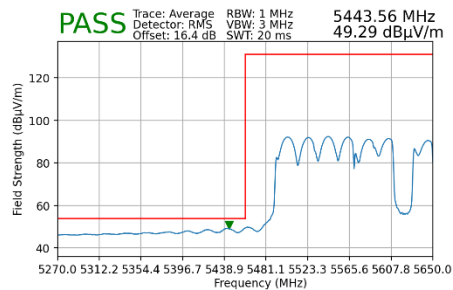


Plot 7-121. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

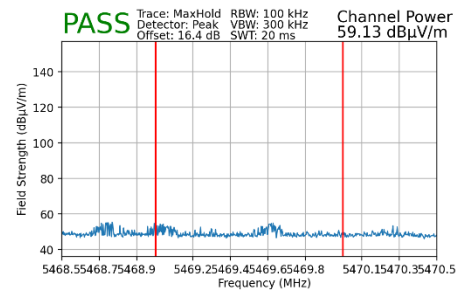
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Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114



Plot 7-122. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C)



Plot 7-123. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C)

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7.7 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 FCC §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 7-59. 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.

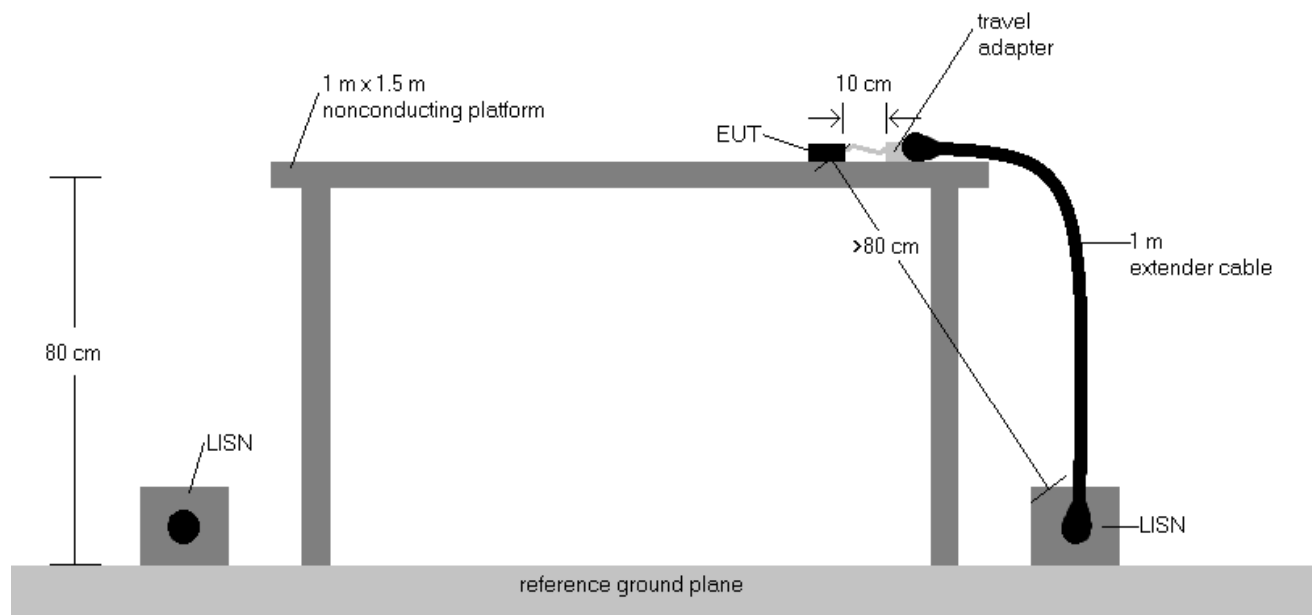
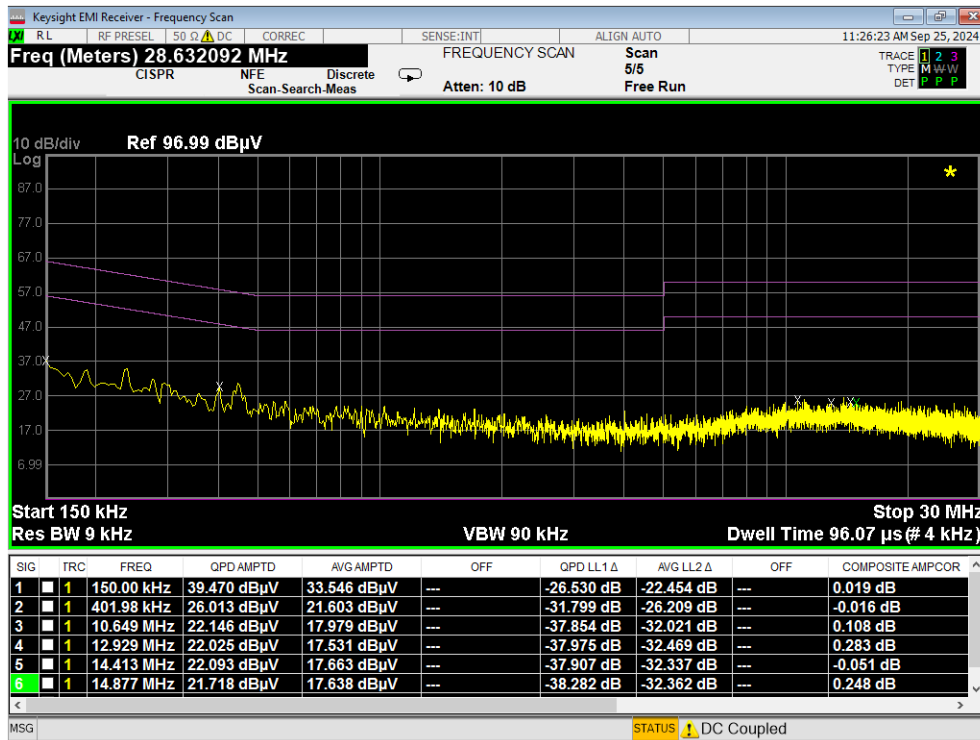


Figure 7-8. Test Instrument & Measurement Setup

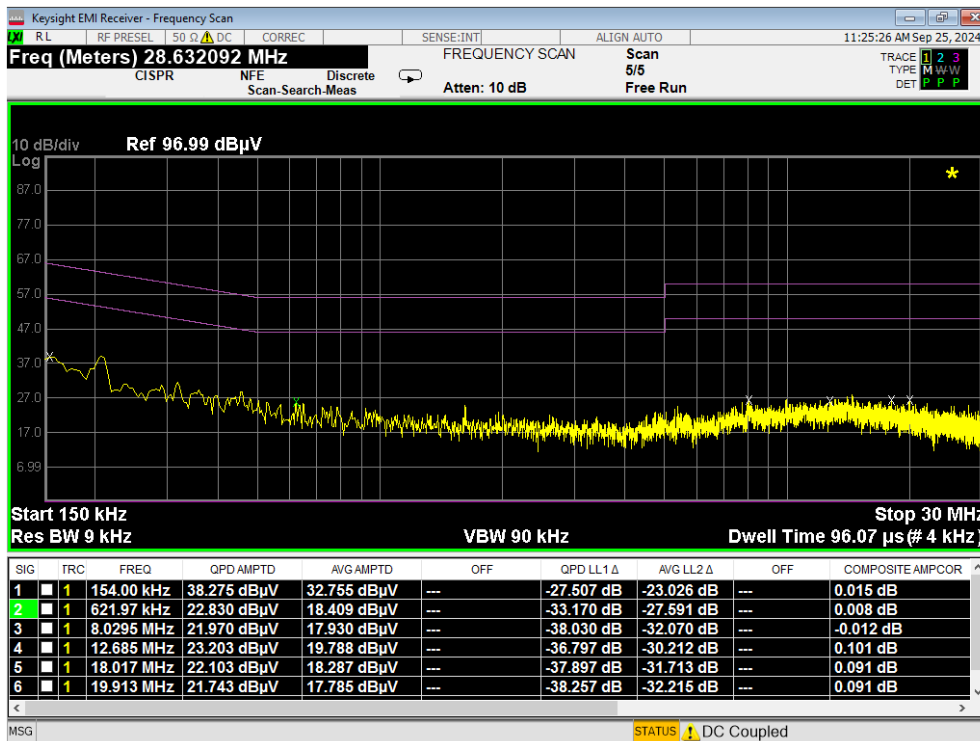
Test Notes

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 is specified in §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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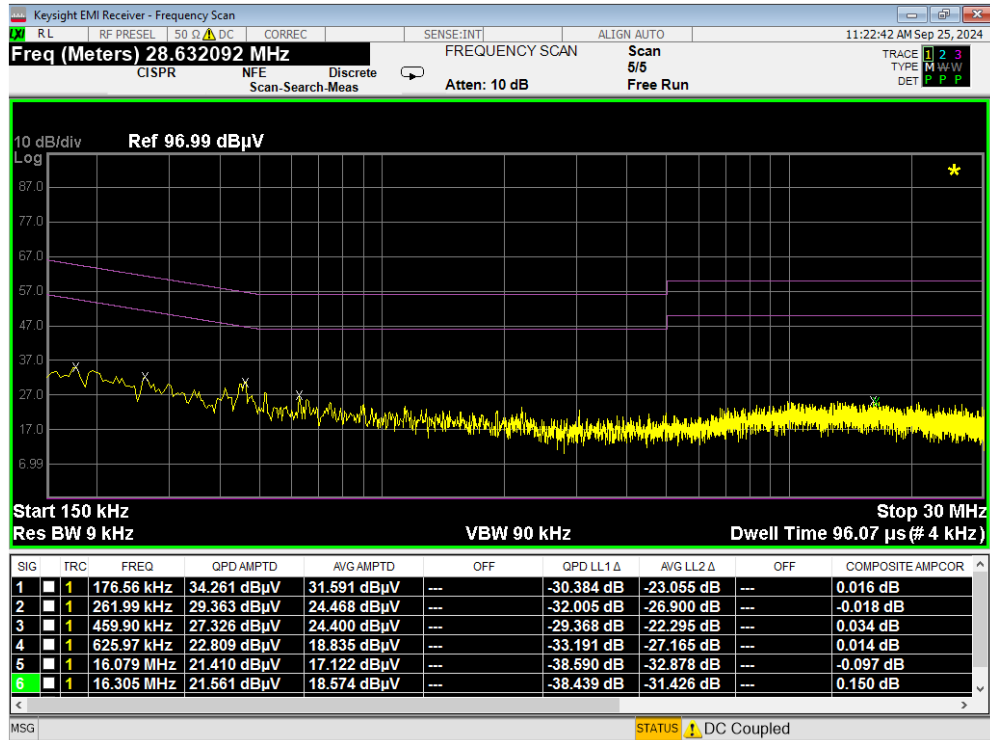


Plot 7-124. Line Conducted Plot with 802.11a UNII Band 1 (L1)

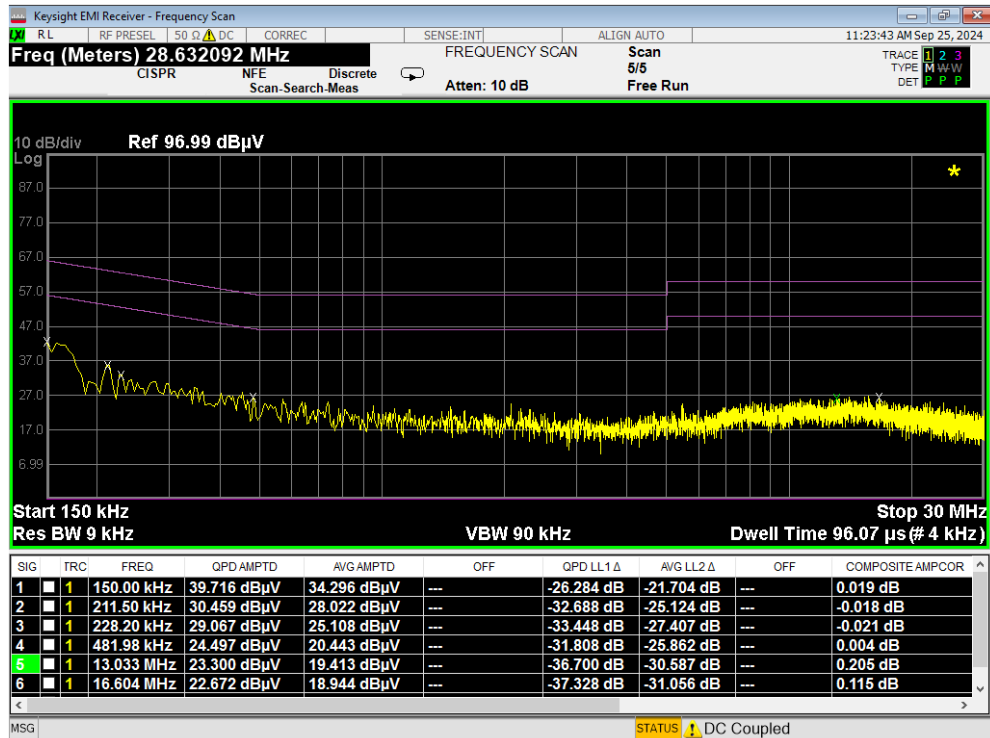


Plot 7-125. Line Conducted Plot with 802.11a UNII Band 1 (N)

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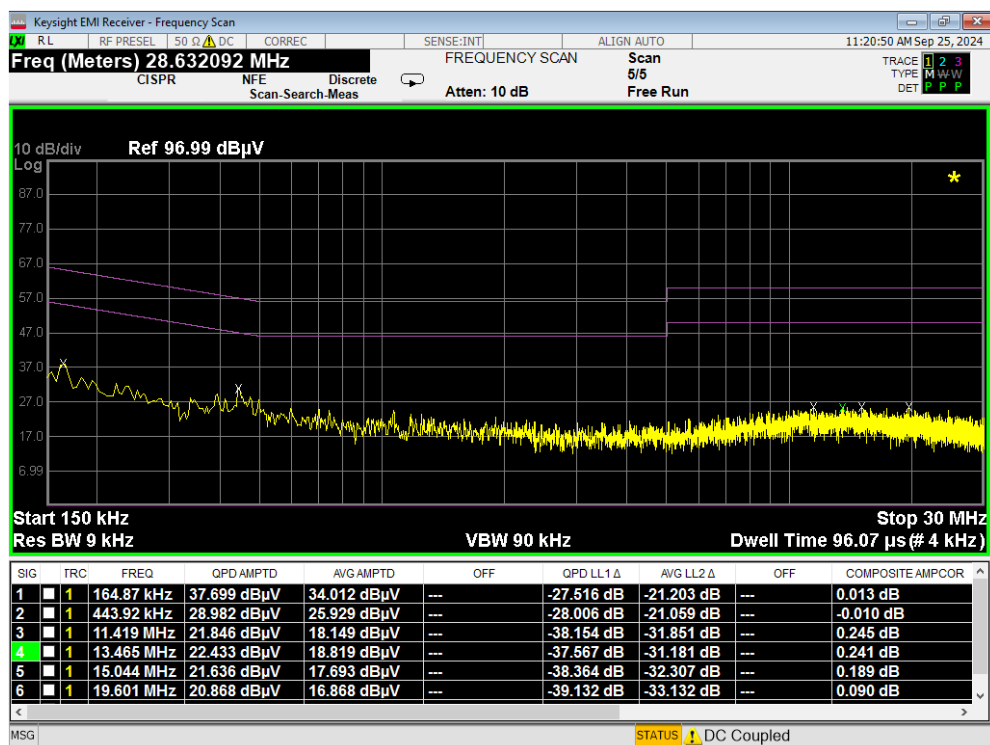


Plot 7-126. Line Conducted Plot with 802.11a UNII Band 2A (L1)

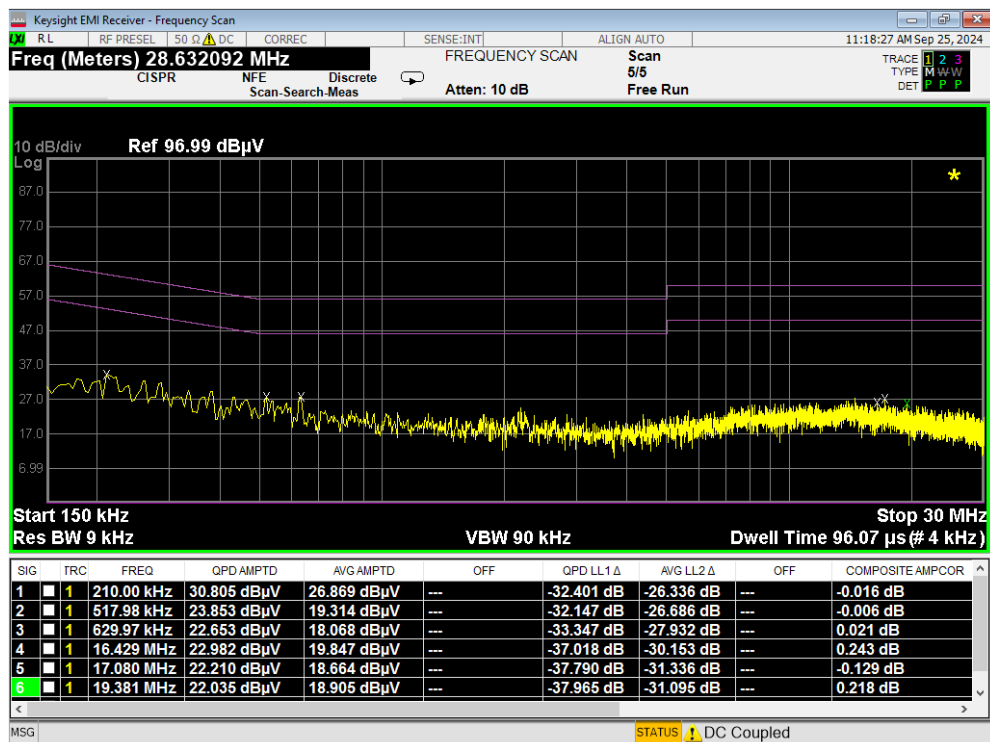


Plot 7-127. Line Conducted Plot with 802.11a UNII Band 2A (N)

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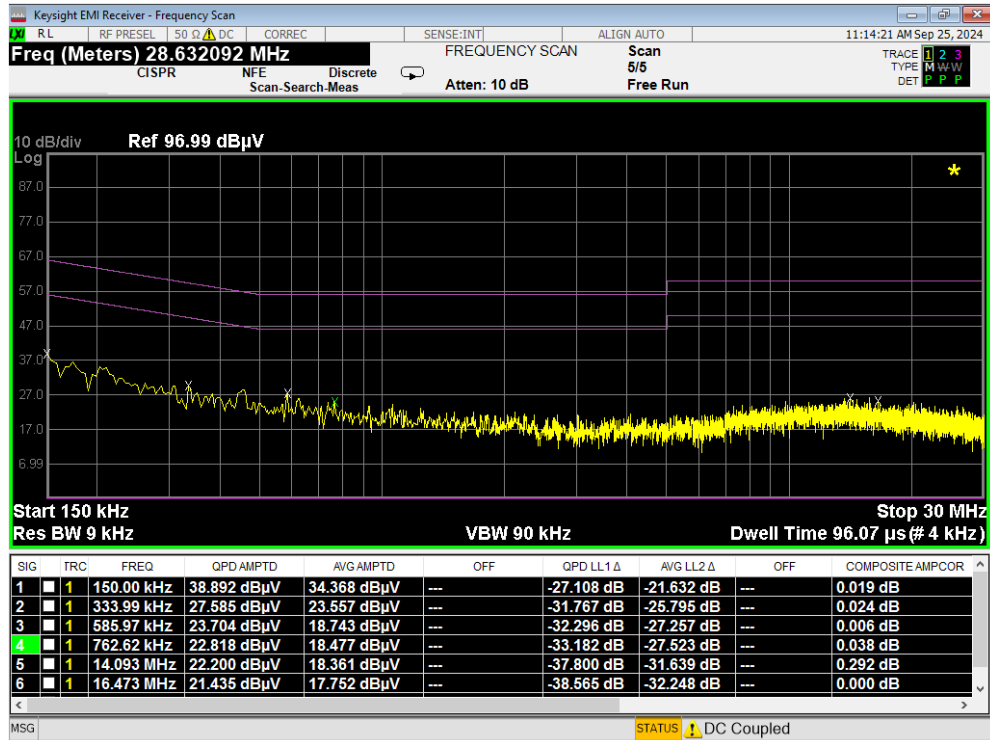


Plot 7-128. Line Conducted Plot with 802.11a UNII Band 2C (L1)

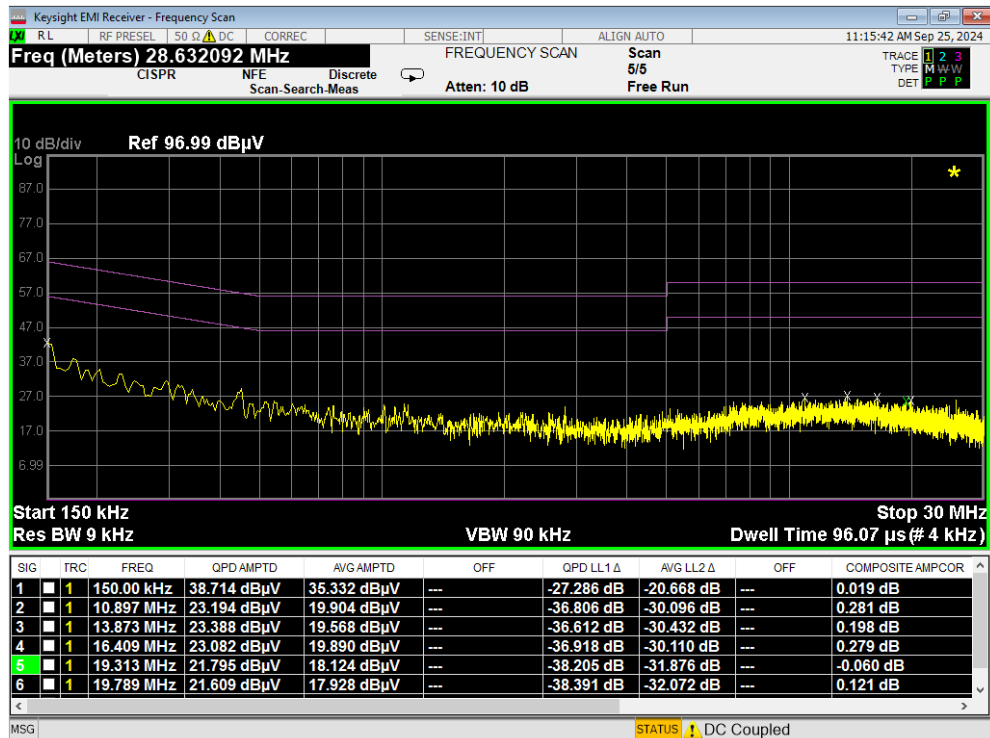


Plot 7-129. Line Conducted Plot with 802.11a UNII Band 2C (N)

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Plot 7-130. Line Conducted Plot with 802.11a UNII Band 3 (L1)



Plot 7-131. Line Conducted Plot with 802.11a UNII Band 3 (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Device FCC ID: A3LSMI610** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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