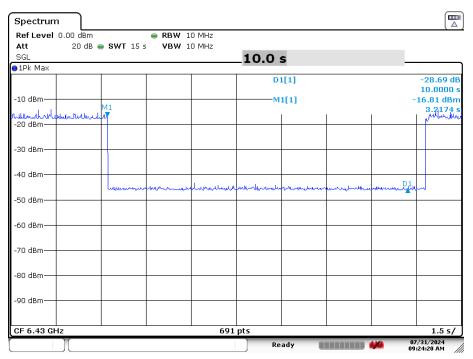


	 RBW 10 MHz T 20 s VBW 10 MHz 		
SGL 1Pk Min		6.455 GHz	
		D1[1]	-19.75 d
10 dBm		M1[1]	10.0000 -25.69 dBr 2.7536
20 dBm			
INI Territalian all and a second a second a second			monstallight
30 dBm			
40 dBm			
harmon	mulamanature	Hunderstand the marked and the second s	underensor
50 dBm			
60 dBm			
70 dBm			
80 dBm			
90 dBm			
CF 6.455 GHz		691 pts	2.0 s/

Date: 14.AUG.2024 10:28:08

Plot 7-198. Contention Based Protocol Timing Plot (20MHz (UNII Band 6) - Ch. 101)

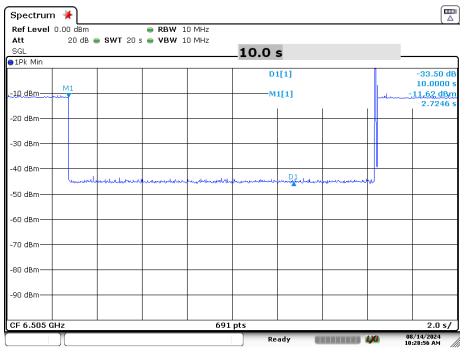


Date: 31.JUL.2024 09:24:19



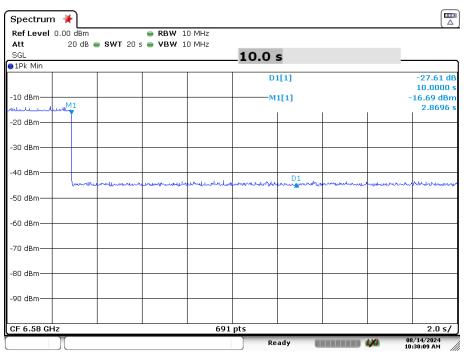
FCC ID: A3LSMX828U	MEASUREMENT REPORT		Approved by: Technical Manager
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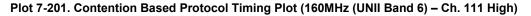


Date: 14.AUG.2024 10:28:55



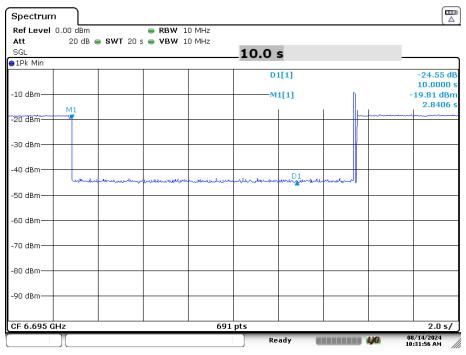


Date: 14.AUG.2024 10:30:09



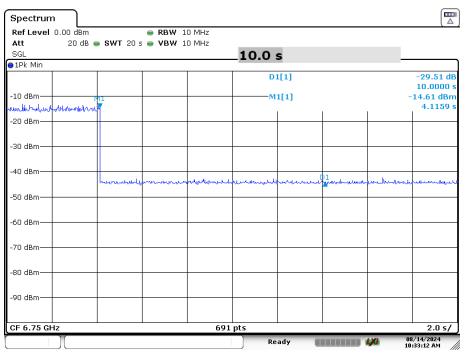
FCC ID: A3LSMX828U	MEASUREMENT REPORT		Approved by: Technical Manager
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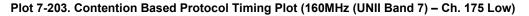


Date: 14.AUG.2024 10:31:56



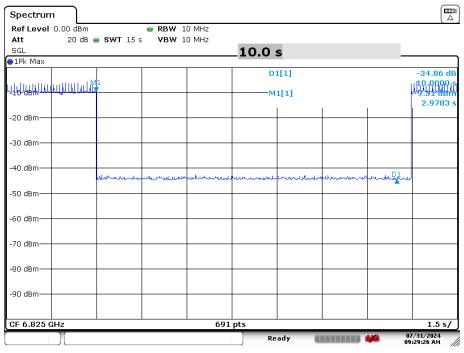


Date: 14.AUG.2024 10:33:12



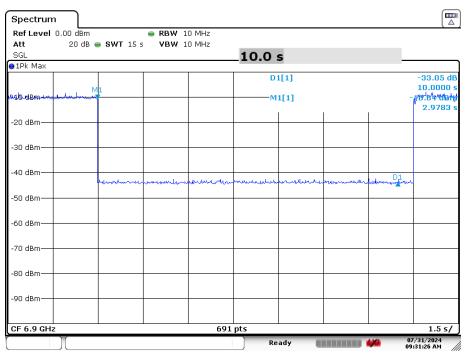
FCC ID: A3LSMX828U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 153 of 190
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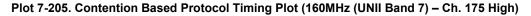


Date: 31.JUL.2024 09:29:26





Date: 31.JUL.2024 09:31:26



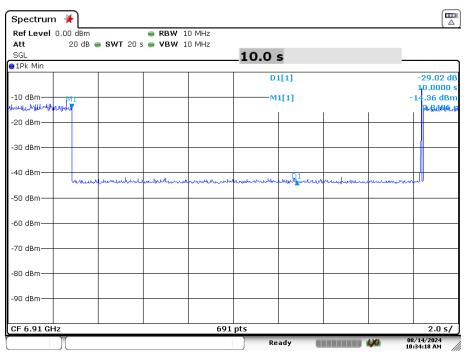
FCC ID: A3LSMX828U	MEASUREMENT REPORT		Approved by: Technical Manager
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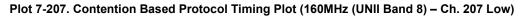
	20 dB 👄 SWT 19	s VBW 10					
SGL 1Pk Max			1	0.0 s		_	
illerderman	M1			D1[1] —_M1[1]		ī	-31.77 di 10.0000 12:45.dBp
-20 dBm						_	3.1957
-30 dBm							
40 dBm	mhumm	Jamperinander	manuter	when when when when w	manufacture	ungungenteraulige	
-50 dBm							
-60 dBm							
70 dBm							
-80 dBm							
00 00.00		1	1				

Date: 31.JUL.2024 09:45:08

Plot 7-206. Contention Based Protocol Timing Plot (20MHz (UNII Band 8) - Ch. 197)

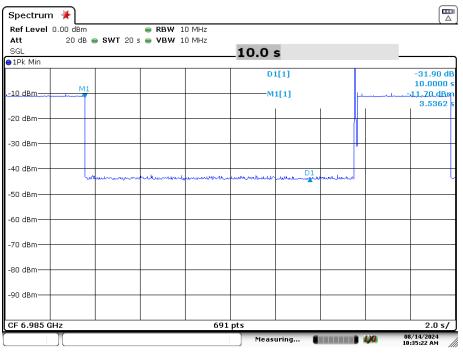


Date: 14.AUG.2024 10:34:18



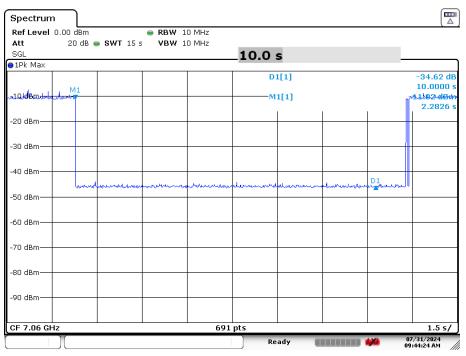
FCC ID: A3LSMX828U	MEASUREMENT REPORT		Approved by: Technical Manager
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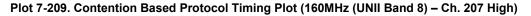


Date: 14.AUG.2024 10:35:22





Date: 31.JUL.2024 09:44:23



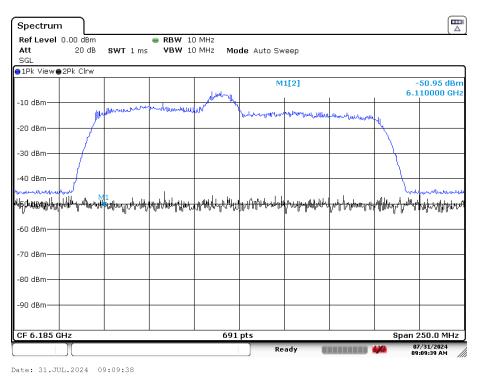
FCC ID: A3LSMX828U	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.3 Channel Move Plots

This section demonstrates the effect of injecting the AWGN signal at various locations throughout the 160MHz signal. The black trace shows the full 160MHz signal prior to AWGN injection while the blue trace shows the spectrum following AWGN injection. The following items were observed as demonstrated in the three plots shown below:

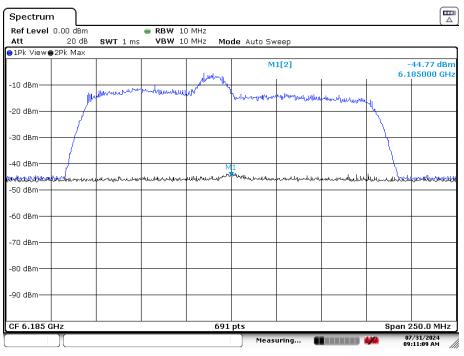
- When a 10 MHz AWGN signal centered at 6110 MHz (lower edge of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6185 MHz (middle of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6260 MHz (upper edge of channel) is injected, the channel completely stops transmitting.



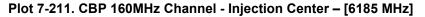
Plot 7-210. CBP 160MHz Channel - Injection Lower Edge – [6110 MHz]

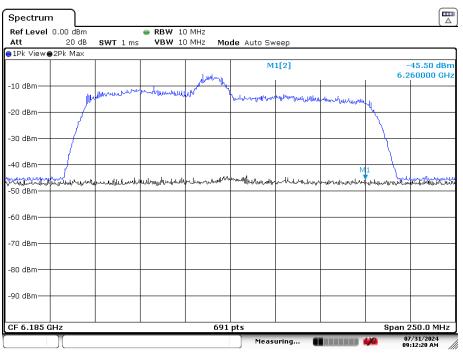
FCC ID: A3LSMX828U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 157 of 100
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Date: 31.JUL.2024 09:11:09





Date: 31.JUL.2024 09:12:21

Plot 7-212. CBP 160MHz Channel - Injection Upper Edge – [6260 MHz]

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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 its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. All channels, modes (e.g. 802.11ax (20/40/80/160MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz

Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

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 7-30. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 - Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings - Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

- 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 x 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.

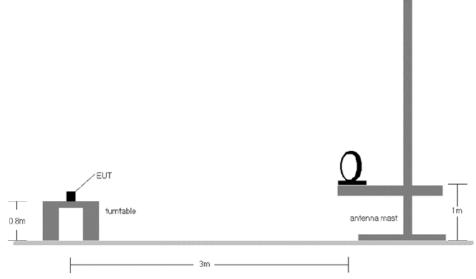
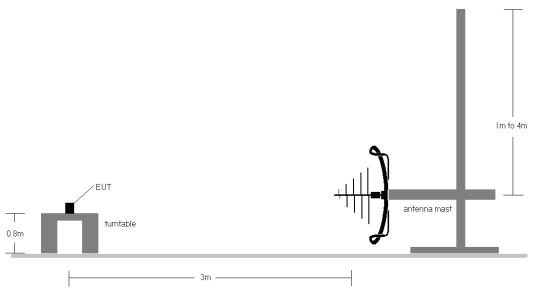
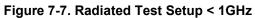


Figure 7-6. Radiated Test Setup < 30MHz

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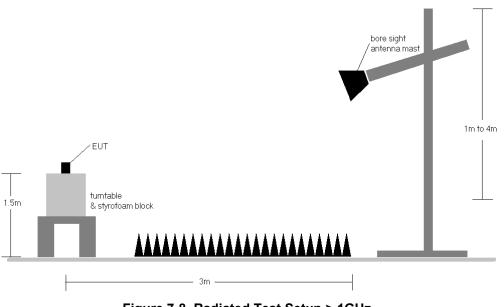


Figure 7-8	. Radiated	Test Setup	> 1GHz
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Test Notes

- All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
- All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dBµV/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
- 3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. N/A
- 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. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

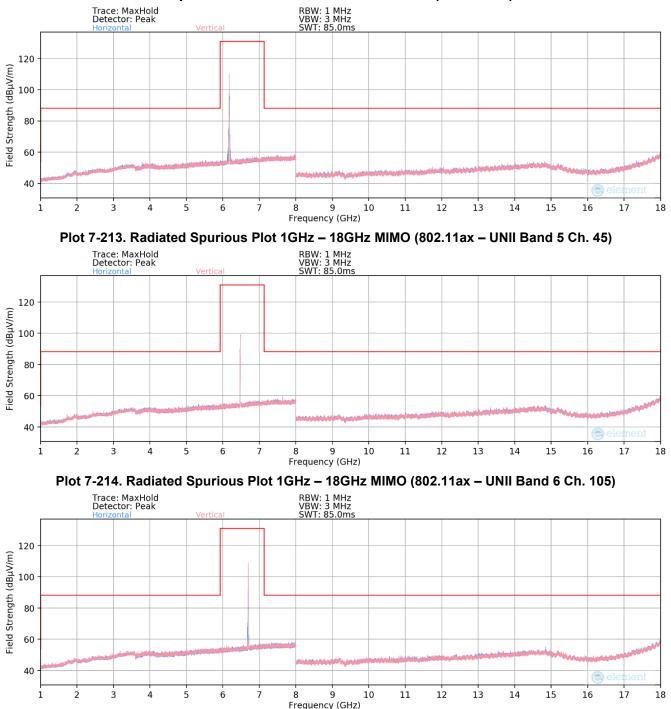
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

Radiated Band Edge Measurement Offset

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

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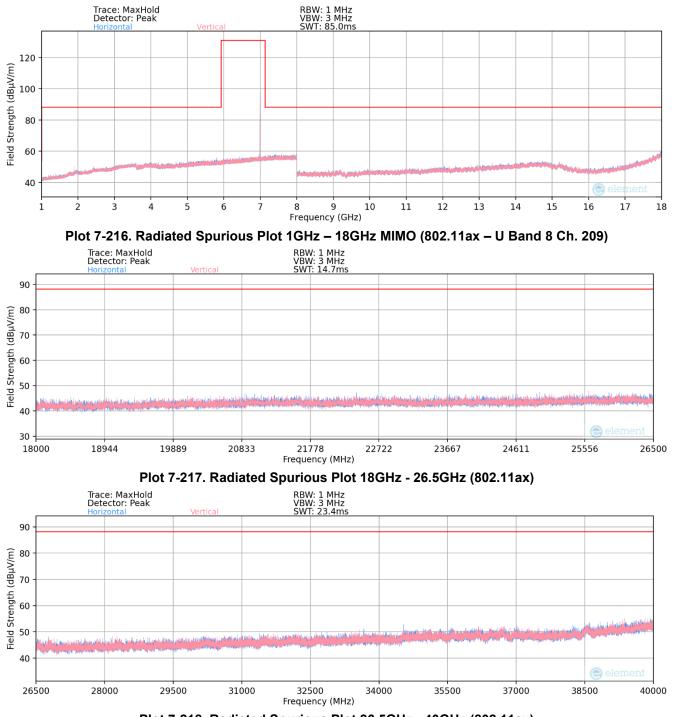


7.7.1 MIMO Radiated Spurious Emission Measurements (26 Tones)

Plot 7-215. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149)

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Plot 7-218. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

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7.7.1.1 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 5

Mode	Antenna	UNII Band	Channel	Channel	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth	Analyzer Level [dBm]	AFCL [dB/m]	Correction	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
				Freq		*	11870.00	A	v		[decree]	-82.41	18.86	Eactor [dB] 0.00	43.45	53.98	-10.53
								Average	-	-	-						
						*	11870.00	Peak	V	-	-	-70.62	18.86	0.00	55.24	73.98	-18.74
						*	17805.00	Average	v	-	-	-83.34	26.16	0.00	49.82	53.98	-4.16
			2	5935	4	*	17805.00	Peak	V	-	-	-71.15	26.16	0.00	62.01	73.98	-11.97
						*	23740.00	Average	V	-	-	-64.99	3.58	-9.54	36.05	53.98	-17.93
						*	23740.00	Peak	v	-	-	-55.33	3.58	-9.54	45.71	73.98	-28.27
							29675.00	Peak	v	-	-	-57.44	5.33	-9.54	45.34	68.20	-22.86
						*	12350.00	Average	V	-	-	-82.26	19.23	0.00	43.97	53.98	-10.01
802.11be	мімо	5				*	12350.00	Peak	v	-	-	-69.76	19.23	0.00	56.47	73.98	-17.51
RU 26T	MIMO	5	45	6175		*	18525.00	Average	v	-	-	-62.22	1.16	-9.54	36.40	53.98	-17.58
			45	01/5	4	*	18525.00	Peak	V	-	-	-55.30	1.16	-9.54	43.33	73.98	-30.65
							24700.00	Peak	v	-	-	-56.88	3.72	-9.54	44.30	68.20	-23.90
							30875.00	Peak	v	-	-	-57.17	6.32	-9.54	46.61	68.20	-21.59
							12830.00	Peak	V	-	-	-69.44	20.14	0.00	57.70	68.20	-10.50
						*	19245.00	Average	v	-	-	-63.43	1.84	-9.54	35.87	53.98	-18.11
			93	6415	4	*	19245.00	Peak	v	-	-	-56.40	1.84	-9.54	42.90	73.98	-31.08
							25660.00	Peak	v	-	-	-55.50	3.90	-9.54	45.86	68.20	-22.34
							32075.00	Peak	v	-	-	-57.13	6.64	-9.54	46.97	68.20	-21.23

Table 7-31. Radiated Measurements MIMO (26 Tones)

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7.7.1.2 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 6

Mode	Antenna	UNII Band	Channel	Channel	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth	Analyzer Level (dBm)	AFCL [dB/m]	Correction	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
							12870.00	Peak	V	-	-	-69.96	20.06	0.00	57.10	68.20	-11.10
						*	19305.00	Average	V	-	-	-64.52	1.64	-9.54	34.59	53.98	-19.39
			97	6435	4	*	19305.00	Peak	V	-	-	-55.90	1.64	-9.54	43.20	73.98	-30.78
							25740.00	Peak	V	-	-	-56.94	3.84	-9.54	44.36	68.20	-23.84
							32175.00	Peak	V	-	-	-57.42	6.80	-9.54	46.84	68.20	-21.36
							12950.00	Peak	V	-	-	-70.16	20.00	0.00	56.84	68.20	-11.36
						*	19425.00	Average	V	-	-	-63.71	1.80	-9.54	35.55	53.98	-18.43
802.11be RU 26T	MIMO	6	105	6475	4	*	19425.00	Peak	V	-	-	-55.23	1.80	-9.54	44.04	73.98	-29.94
							25900.00	Peak	V	-	-	-57.33	4.24	-9.54	44.37	68.20	-23.83
							32375.00	Peak	V	-	-	-57.24	6.46	-9.54	46.68	68.20	-21.52
							13030.00	Peak	V	-	-	-70.24	20.37	0.00	57.13	68.20	-11.07
						*	19545.00	Average	V	-	-	-64.52	1.84	-9.54	34.78	53.98	-19.20
			113	6515	4	*	19545.00	Peak	V	-	-	-56.88	1.84	-9.54	42.42	73.98	-31.56
							26060.00	Peak	v	-	-	-55.84	4.18	-9.54	45.81	68.20	-22.39
							32575.00	Peak	v	-	-	-57.47	6.18	-9.54	46.17	68.20	-22.03

 Table 7-32. Radiated Measurements MIMO (26 Tones)

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7.7.1.3 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 7

Mode	Antenna	UNII Band	Channel	l est Channel Freg	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	I urntable Azimuth	Analyzer Level (dBm)	AFCL [dB/m]	Distance Correction Eactor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
							13070.00	Peak	V	-	-	-70.47	20.29	0.00	56.82	68.20	-11.38
						*	19605.00	Average	V	-	-	-63.02	2.38	-9.54	36.82	53.98	-17.16
			117	6535	4	*	19605.00	Peak	V	-	-	-55.67	2.38	-9.54	44.17	73.98	-29.81
							26140.00	Peak	V	-	-	-56.80	4.03	-9.54	44.69	68.20	-23.51
							32675.00	Peak	V	-	-	-57.64	6.46	-9.54	46.27	68.20	-21.93
						*	13390.00	Average	V	-	-	-82.61	20.77	0.00	45.16	53.98	-8.82
						*	13390.00	Peak	v	-	-	-70.32	20.77	0.00	57.45	73.98	-16.53
802.11be	мімо	7	149	6695	4	*	20085.00	Average	v	-	-	-64.58	2.58	-9.54	35.46	53.98	-18.52
RU 26T	WINNO	<i>'</i>	149	0095	4	*	20085.00	Peak	v	-	-	-56.34	2.58	-9.54	43.70	73.98	-30.28
							26780.00	Peak	V	-	-	-55.71	4.33	-9.54	46.08	68.20	-22.12
							33475.00	Peak	V	-	-	-56.00	6.96	-9.54	48.41	68.20	-19.79
							13750.00	Peak	V	-	-	-70.78	21.34	0.00	57.56	68.20	-10.64
						*	20625.00	Average	V	-	-	-64.54	3.01	-9.54	35.93	53.98	-18.05
			185	6875	4	*	20625.00	Peak	V	-	-	-56.21	3.01	-9.54	44.26	73.98	-29.72
							27500.00	Peak	V	-	-	-57.13	3.97	-9.54	44.31	68.20	-23.89
							34375.00	Peak	v	-	-	-57.11	7.33	-9.54	47.68	68.20	-20.52

Table 7-33. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMX828U		MEASUREMENT REPORT				
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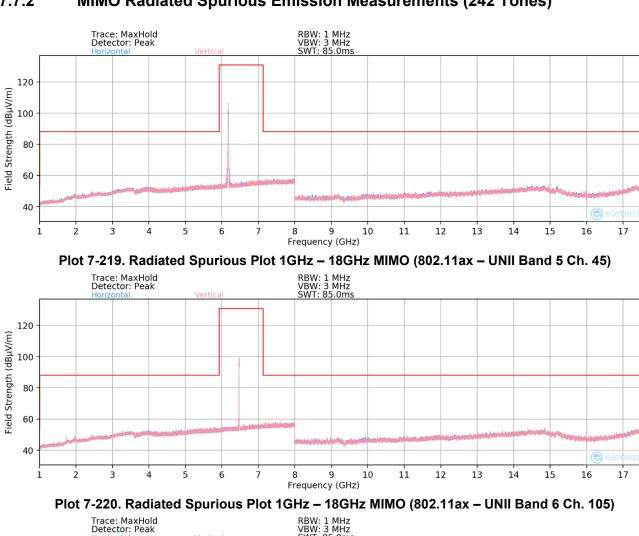
7.7.1.4 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 8

Mode	Antenna	UNII Band	Channel	Channel	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth	Analyzer Level (dBm)	AFCL [dB/m]	Correction	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
							13790.00	Peak	V	-	-	-70.34	21.59	0.00	58.25	68.20	-9.95
						*	20685.00	Average	V	-	-	-64.45	3.01	-9.54	36.02	53.98	-17.96
			189	6895	4	*	20685.00	Peak	V	-	-	-56.05	3.01	-9.54	44.42	73.98	-29.56
							27580.00	Peak	V	-	-	-56.31	4.40	-9.54	45.55	68.20	-22.65
							34475.00	Peak	V	-	-	-56.95	7.31	-9.54	47.83	68.20	-20.37
							13990.00	Peak	V	-	-	-70.02	21.24	0.00	58.22	68.20	-9.98
						*	20985.00	Average	V	-	-	-64.97	3.27	-9.54	35.75	53.98	-18.23
802.11be RU 26T	MIMO	8	209	6995	4	*	20985.00	Peak	V	-	-	-56.10	3.27	-9.54	44.63	73.98	-29.35
							27980.00	Peak	V	-	-	-57.23	4.40	-9.54	44.63	68.20	-23.57
							34975.00	Peak	V	-	-	-56.41	7.79	-9.54	48.83	68.20	-19.37
							14230.00	Peak	V	-	-	-70.63	21.94	0.00	58.31	68.20	-9.89
						*	21345.00	Average	V	-	-	-64.13	3.57	-9.54	36.90	53.98	-17.08
			233	7115	4	*	21345.00	Peak	V	-	-	-56.92	3.57	-9.54	44.11	73.98	-29.87
							28460.00	Peak	v	-	-	-57.21	5.01	-9.54	45.26	68.20	-22.94
							35575.00	Peak	v	-	-	-57.40	7.78	-9.54	47.84	68.20	-20.36

Table 7-34. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	Approved by: Technical Manager
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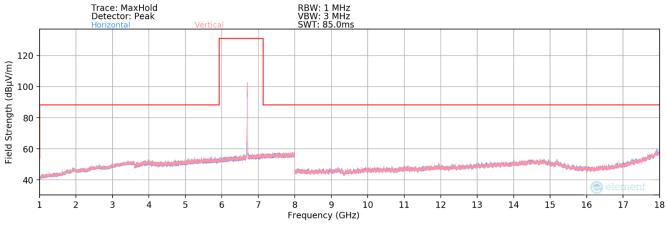




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18

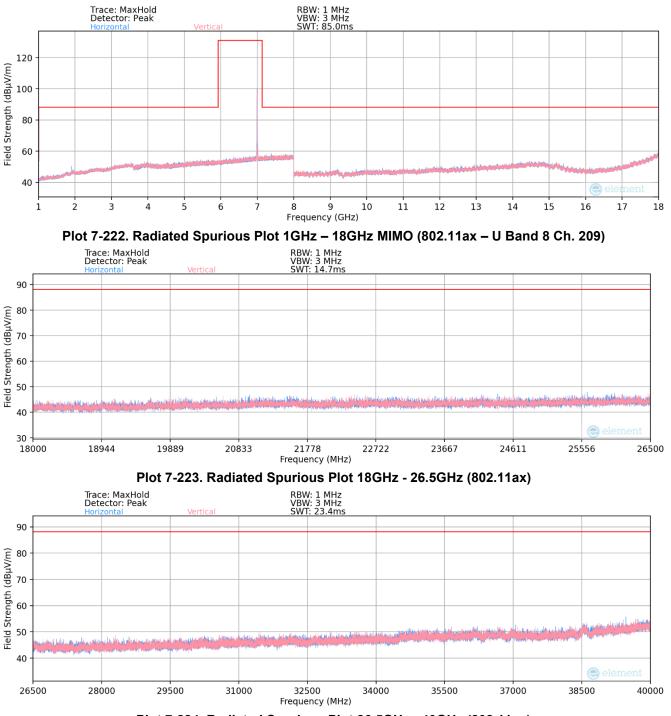
7.7.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-221. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dago 160 of 100
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Plot 7-224. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

FCC ID: A3LSMX828U		MEASUREMENT REPORT						
Test Report S/N:	Test Dates:	EUT Type:	Dage 170 of 100					
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7.7.2.1 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 5

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	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]
						*	11870.00	Average	v	-	-	-82.45	18.86	0.00	43.41	53.98	-10.57
						*	11870.00	Peak	V	-	-	-70.35	18.86	0.00	55.51	73.98	-18.47
						*	17805.00	Average	V	-	-	-83.40	26.16	0.00	49.76	53.98	-4.22
			2	5935	61	*	17805.00	Peak	V	-	-	-70.95	26.16	0.00	62.21	73.98	-11.77
						*	23740.00	Average	V	-	-	-64.83	3.58	-9.54	36.21	53.98	-17.77
						*	23740.00	Peak	V	-	-	-56.24	3.58	-9.54	44.80	73.98	-29.18
							29675.00	Peak	V	-	-	-56.58	5.33	-9.54	46.21	68.20	-21.99
						*	12350.00	Average	V	-	-	-82.16	19.23	0.00	44.07	53.98	-9.91
802.11be	мімо	5				*	12350.00	Peak	V	-	-	-69.77	19.23	0.00	56.46	73.98	-17.52
RU 242T	WINO	5	45	6175	61	*	18525.00	Average	V	-	-	-63.84	1.16	-9.54	34.79	53.98	-19.19
			45	0175	01	*	18525.00	Peak	V	-	-	-54.10	1.16	-9.54	44.52	73.98	-29.46
							24700.00	Peak	V	-	-	-55.95	3.72	-9.54	45.22	68.20	-22.98
							30875.00	Peak	V	-	-	-57.11	6.32	-9.54	46.68	68.20	-21.52
							12830.00	Peak	V	-	-	-69.76	20.14	0.00	57.38	68.20	-10.82
						*	19245.00	Average	V	-	-	-64.20	1.84	-9.54	35.10	53.98	-18.88
			93	6415	61	*	19245.00	Peak	V	-	-	-54.16	1.84	-9.54	45.14	73.98	-28.84
							25660.00	Peak	V	-	-	-56.39	3.90	-9.54	44.97	68.20	-23.23
							32075.00	Peak	V	-	-	-56.91	6.64	-9.54	47.19	68.20	-21.01

Table 7-35. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2.2 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 6

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	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]
							12870.00	Peak	V	-	-	-70.27	20.06	0.00	56.79	68.20	-11.41
						*	19305.00	Average	V	-	-	-64.11	1.64	-9.54	35.00	53.98	-18.98
			97	6435	61	*	19305.00	Peak	V	-	-	-56.48	1.64	-9.54	42.62	73.98	-31.36
							25740.00	Peak	V	-	-	-56.04	3.84	-9.54	45.27	68.20	-22.93
							32175.00	Peak	V	-	-	-56.55	6.80	-9.54	47.71	68.20	-20.49
							12950.00	Peak	V	-	-	-69.83	20.00	0.00	57.17	68.20	-11.03
						*	19425.00	Average	V	-	-	-63.98	1.80	-9.54	35.28	53.98	-18.70
802.11be RU 242T	MIMO	6	105	6475	61	*	19425.00	Peak	V	-	-	-56.64	1.80	-9.54	42.62	73.98	-31.36
							25900.00	Peak	V	-	-	-57.02	4.24	-9.54	44.68	68.20	-23.52
							32375.00	Peak	V	-	-	-57.63	6.46	-9.54	46.28	68.20	-21.92
							13030.00	Peak	V	-	-	-70.20	20.37	0.00	57.17	68.20	-11.03
						*	19545.00	Average	V	-	-	-64.41	1.84	-9.54	34.89	53.98	-19.09
			113	6515	61	*	19545.00	Peak	V	-	-	-56.11	1.84	-9.54	43.19	73.98	-30.79
							26060.00	Peak	V	-	-	-56.19	4.18	-9.54	45.45	68.20	-22.75
							32575.00	Peak	v	-	-	-56.23	6.18	-9.54	47.41	68.20	-20.79

Table 7-36. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2.3 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 7

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	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)
							13070.00	Peak	V	-	-	-70.33	20.29	0.00	56.96	68.20	-11.24
						*	19605.00	Average	V	-	-	-64.48	2.38	-9.54	35.35	53.98	-18.62
			117	6535	61	*	19605.00	Peak	V	-	-	-54.84	2.38	-9.54	45.00	73.98	-28.98
							26140.00	Peak	V	-	-	-55.80	4.03	-9.54	45.69	68.20	-22.51
							32675.00	Peak	V	-	-	-57.27	6.46	-9.54	46.65	68.20	-21.55
						*	13390.00	Average	V	-	-	-82.67	20.77	0.00	45.10	53.98	-8.88
						*	13390.00	Peak	V	-	-	-70.20	20.77	0.00	57.57	73.98	-16.41
802.11be	мімо	7	149	6695	61	*	20085.00	Average	V	-	-	-64.57	2.58	-9.54	35.47	53.98	-18.50
RU 242T	WINO	'	149	0095	01	*	20085.00	Peak	V	-	-	-56.47	2.58	-9.54	43.57	73.98	-30.41
							26780.00	Peak	V	-	-	-57.28	4.33	-9.54	44.50	68.20	-23.70
							33475.00	Peak	V	-	-	-56.73	6.96	-9.54	47.68	68.20	-20.52
							13750.00	Peak	V	-	-	-70.60	21.34	0.00	57.74	68.20	-10.46
						*	20625.00	Average	V	-	-	-64.97	3.01	-9.54	35.49	53.98	-18.49
			185	6875	61	*	20625.00	Peak	V		-	-56.53	3.01	-9.54	43.94	73.98	-30.04
							27500.00	Peak	V	-	-	-56.65	3.97	-9.54	44.78	68.20	-23.42
							34375.00	Peak	V	-	-	-56.79	7.33	-9.54	48.00	68.20	-20.20

Table 7-37. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.2.4 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 8

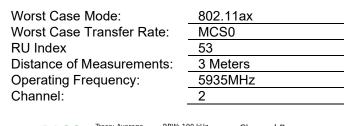
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
							13790.00	Peak	V	-	-	-70.36	21.59	0.00	58.23	68.20	-9.97
						*	20685.00	Average	V	-	-	-56.72	3.01	-9.54	43.75	53.98	-10.23
			189	6895	61	*	20685.00	Peak	V	-	-	-64.80	3.01	-9.54	35.68	73.98	-38.30
							27580.00	Peak	V	-	-	-56.73	4.40	-9.54	45.14	68.20	-23.06
							34475.00	Peak	V	-	-	-56.45	7.31	-9.54	48.32	68.20	-19.88
							13990.00	Peak	V	-	-	-69.79	21.24	0.00	58.45	68.20	-9.75
						*	20985.00	Average	V	-	-	-64.43	3.27	-9.54	36.30	53.98	-17.68
802.11be RU 242T	MIMO	8	209	6995	61	*	20985.00	Peak	V	-	-	-57.19	3.27	-9.54	43.54	73.98	-30.44
							27980.00	Peak	V	-	-	-57.33	4.40	-9.54	44.53	68.20	-23.67
							34975.00	Peak	V	-	-	-56.57	7.79	-9.54	48.68	68.20	-19.52
							14230.00	Peak	V	-	-	-70.55	21.94	0.00	58.39	68.20	-9.81
						*	21345.00	Average	V	-	-	-64.81	3.57	-9.54	36.22	53.98	-17.76
			233	7115	61	*	21345.00	Peak	V	-	-	-56.33	3.57	-9.54	44.70	73.98	-29.28
							28460.00	Peak	V	-	-	-56.18	5.01	-9.54	46.29	68.20	-21.91
							35575.00	Peak	v	-	-	-57.46	7.78	-9.54	47.78	68.20	-20.42

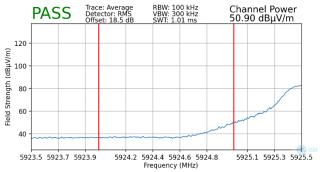
Table 7-38. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	Approved by: Technical Manager
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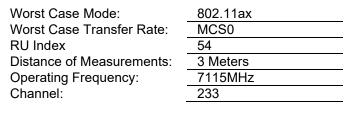


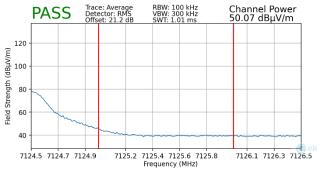
7.7.3 SISO ANT1 Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)



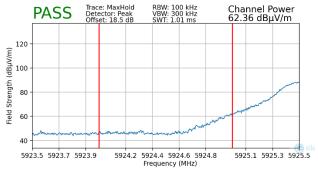


Plot 7-225. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 5 – 106T)

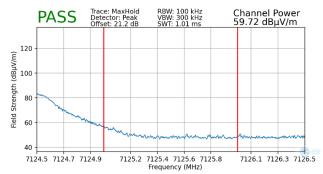




Plot 7-227. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 8 – 106T)



Plot 7-226. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 5 – 106T)

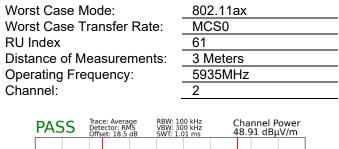


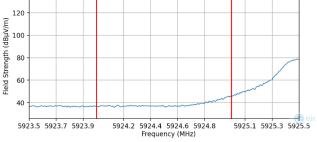
Plot 7-228. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 8 – 106T)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	
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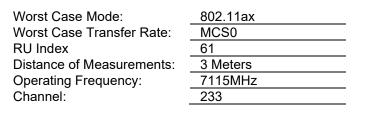


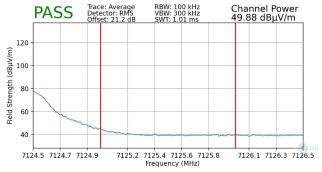
7.7.4 SISO ANT1 Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)



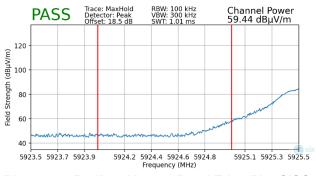




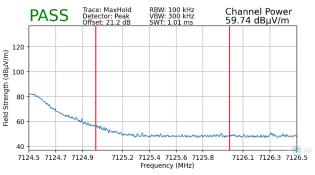




Plot 7-231. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 8 – 242T)





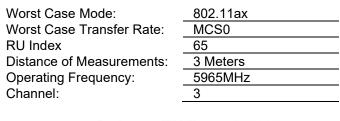


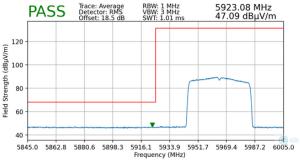
Plot 7-232. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 8 – 242T)

FCC ID: A3LSMX828U		MEASUREMENT REPORT	
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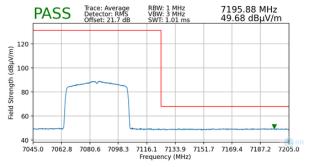
7.7.5 SISO ANT1 Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)



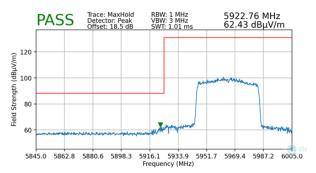


Plot 7-233. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 5 – 484T)

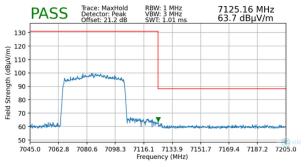
802.11ax
MCS0
65
3 Meters
7085MHz
227







Plot 7-234. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 5 – 484T)

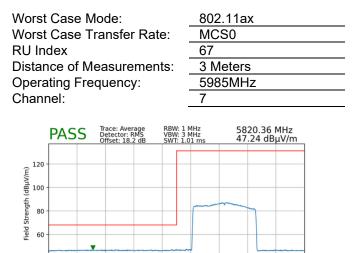


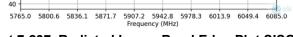
Plot 7-236. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 8 – 484T)

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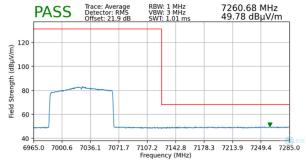
7.7.6 SISO ANT1 Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)



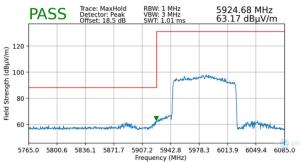




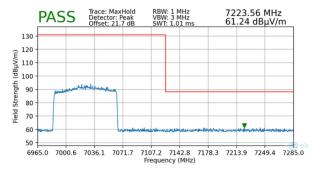
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215









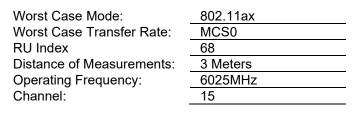


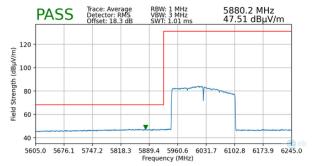
Plot 7-240. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 8 – 996T)

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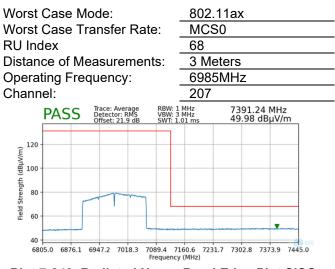


7.7.7 SISO ANT1 Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

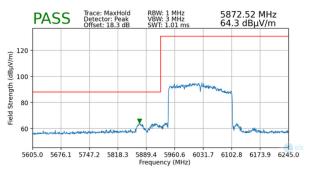




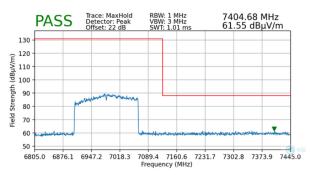










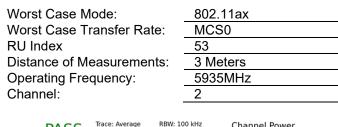


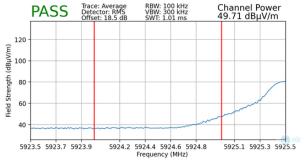
Plot 7-244. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 8 – 2x996T)

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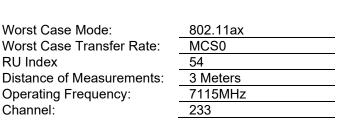


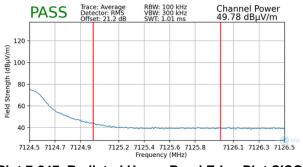
7.7.8 SISO ANT2 Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)



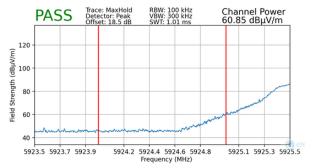


Plot 7-245. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 5 – 106T)

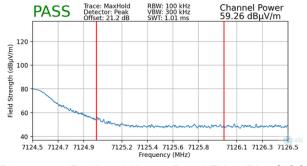




Plot 7-247. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 8 – 106T)



Plot 7-246. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 5 – 106T)

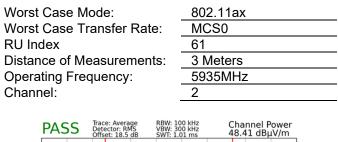


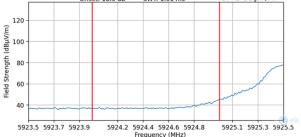
Plot 7-248. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 8 – 106T)

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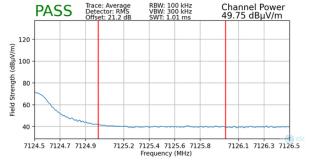
7.7.9 SISO ANT2 Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)



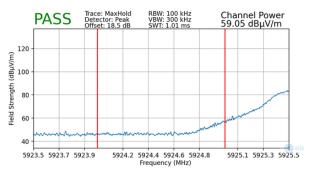




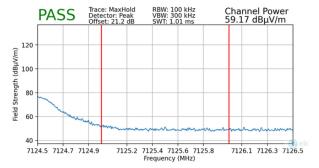
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233







Plot 7-250. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 5 – 242T)

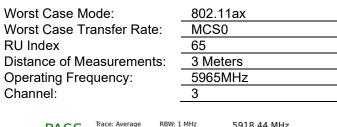


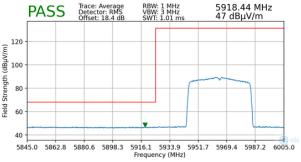
Plot 7-252. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 8 – 242T)

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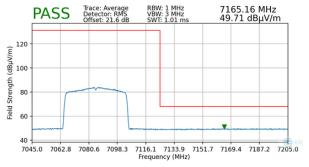
7.7.10 SISO ANT2 Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)



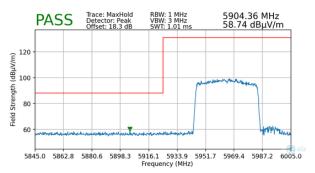


Plot 7-253. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 5 – 484T)

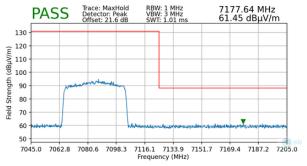
802.11ax
MCS0
65
3 Meters
7085MHz
227







Plot 7-254. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 5 – 484T)

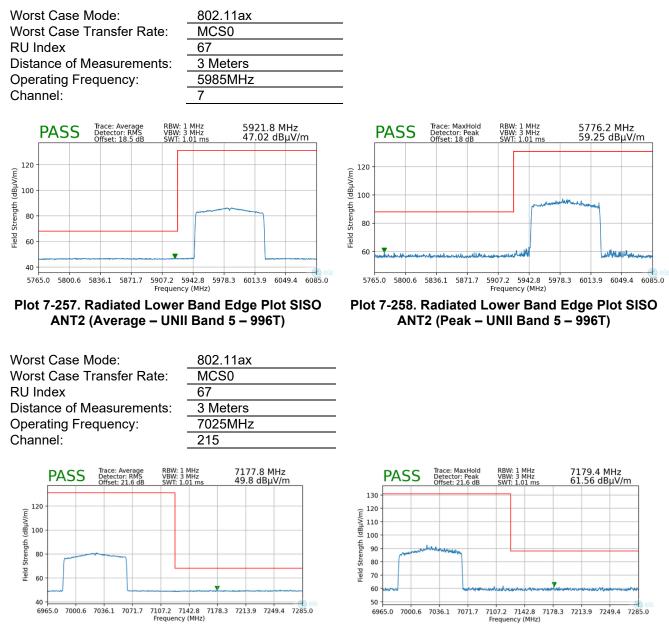


Plot 7-256. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 8 – 484T)

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7.7.11 SISO ANT2 Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)



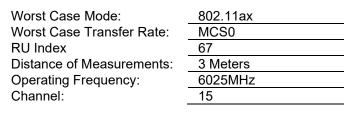
Plot 7-259. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 8 – 996T)

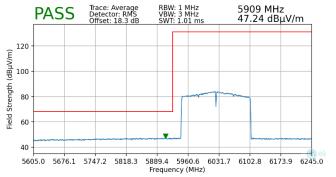


FCC ID: A3LSMX828U	MEASUREMENT REPORT		Approved by: Technical Manager
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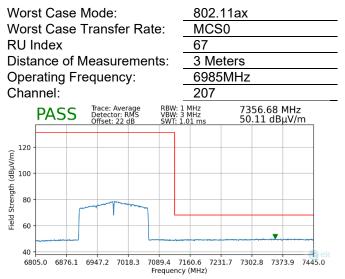


7.7.12 SISO ANT2 Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

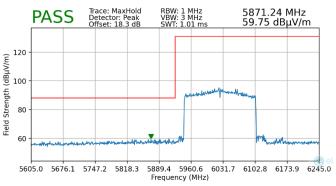




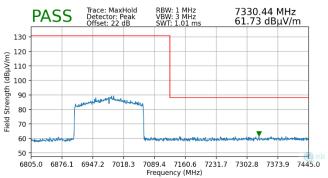
Plot 7-261. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 5 – 2x996T)



Plot 7-263. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 8 – 2x996T)



Plot 7-262. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 5 – 2x996T)

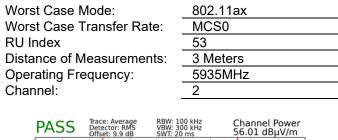


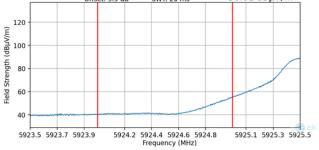
Plot 7-264. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 8 – 2x996T)

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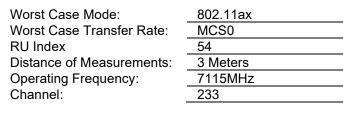


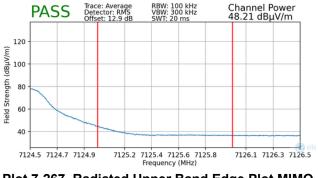
7.7.13 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)



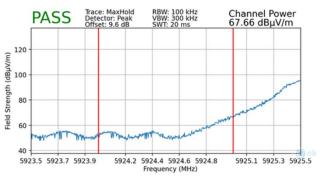




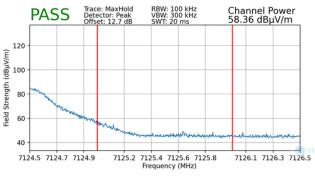










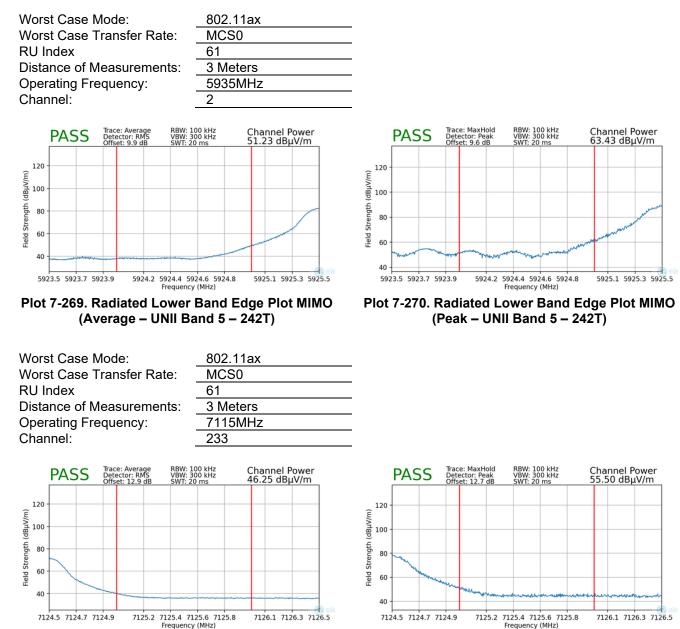




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7.7.14 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)



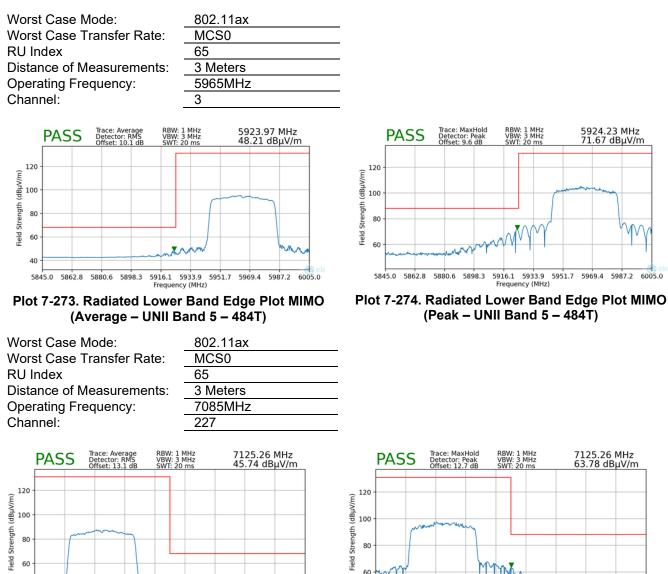
Plot 7-271. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242T)



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7.7.15 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)





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