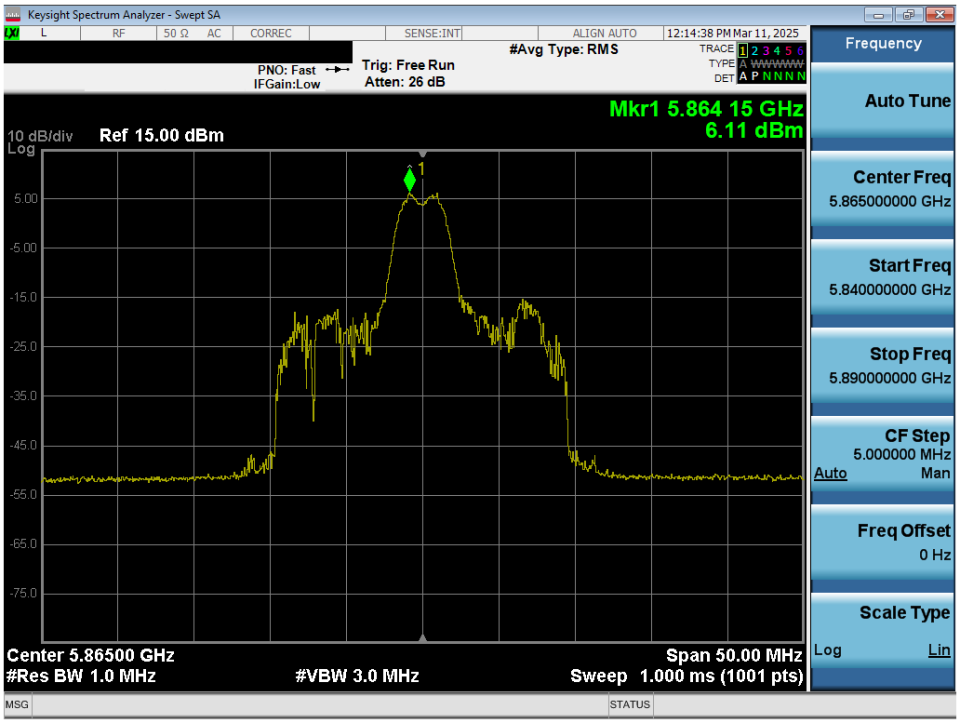
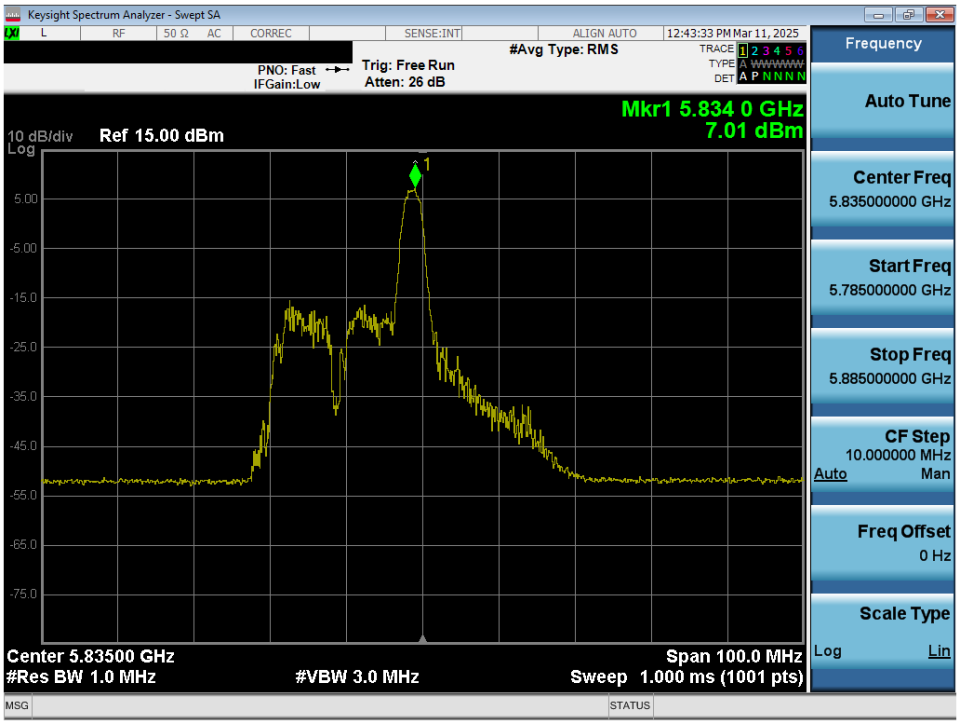


Plot 7-107. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (26 Tones) (UNII Band 4) – Ch. 173)



Plot 7-108. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (26 Tones) (UNII Band 3/4) – Ch. 167)

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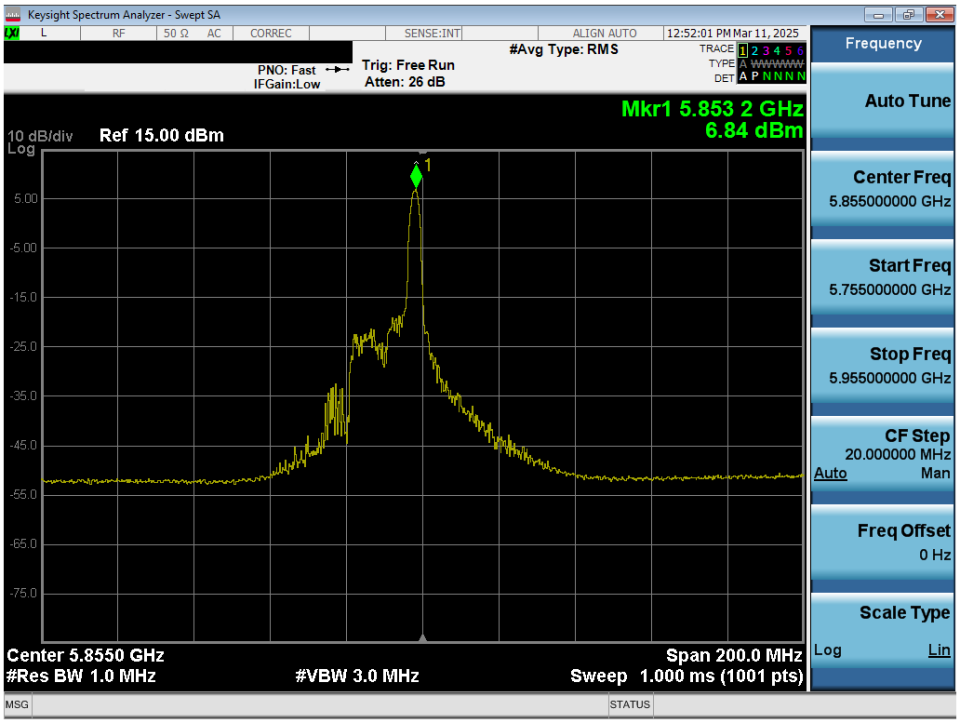
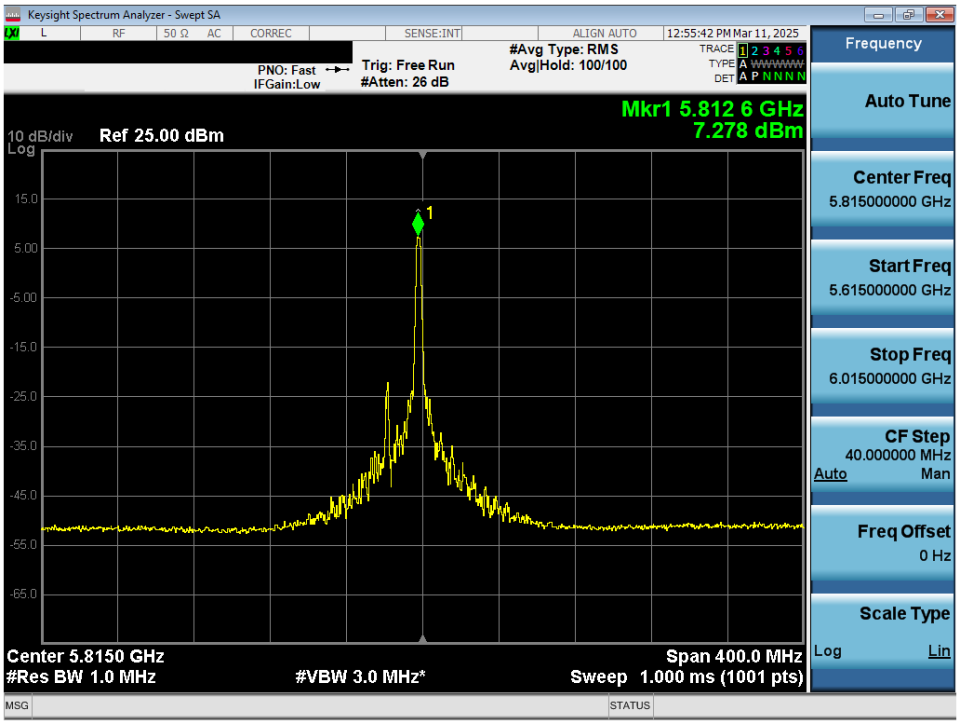


Plot 7-109. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax/be (26 Tones) (UNII Band 3/4) – Ch. 171)



Plot 7-110. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11ax/be (26 Tones) (UNII Band 3/4) – Ch. 163)

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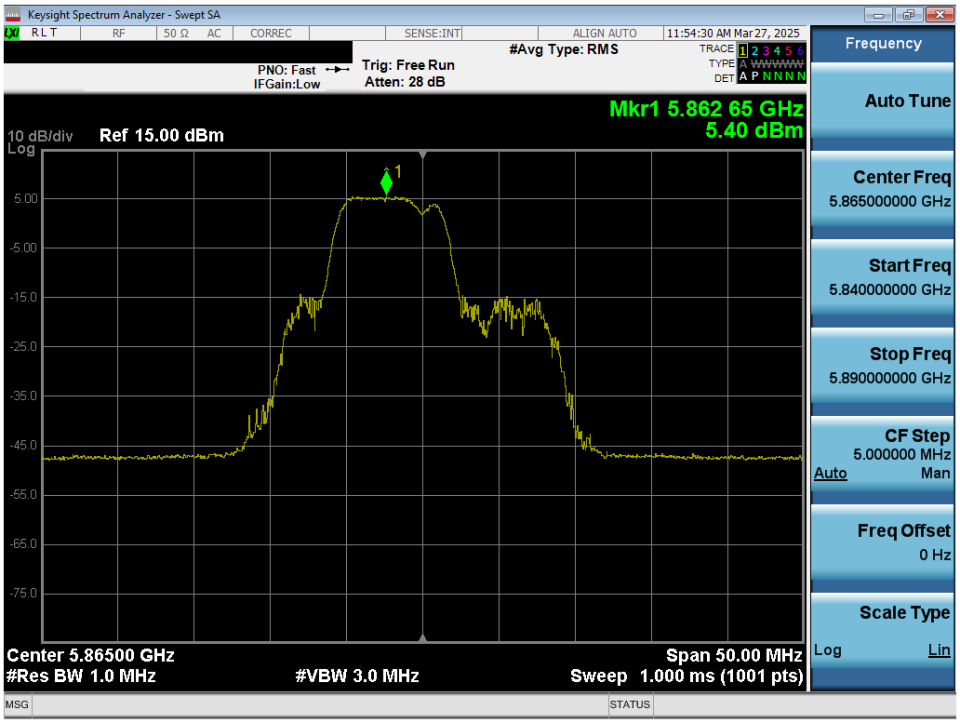
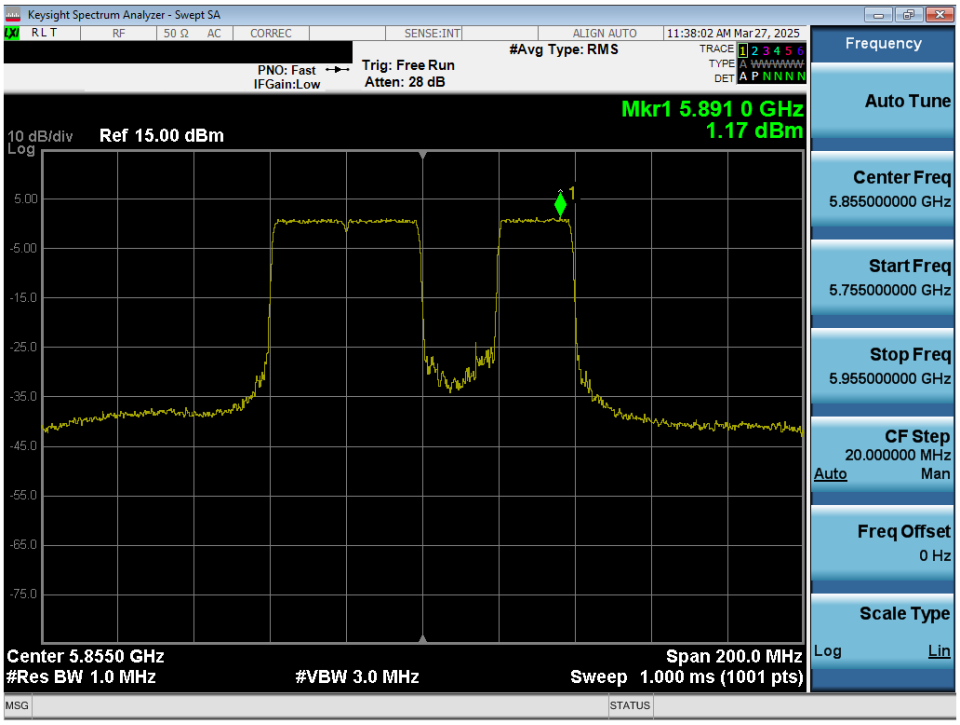


Plot 7-111. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11be (52+26 Tones) (UNII Band 4) – Ch. 173)



Plot 7-112. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11be (484+242 Tones) (UNII Band 3/4) – Ch. 171)

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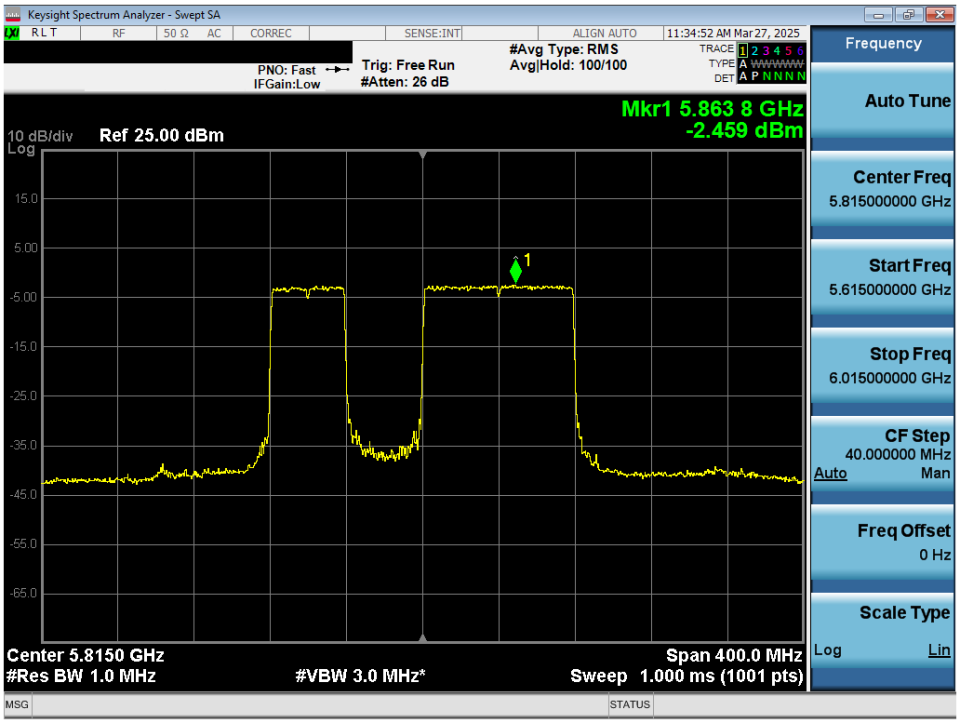
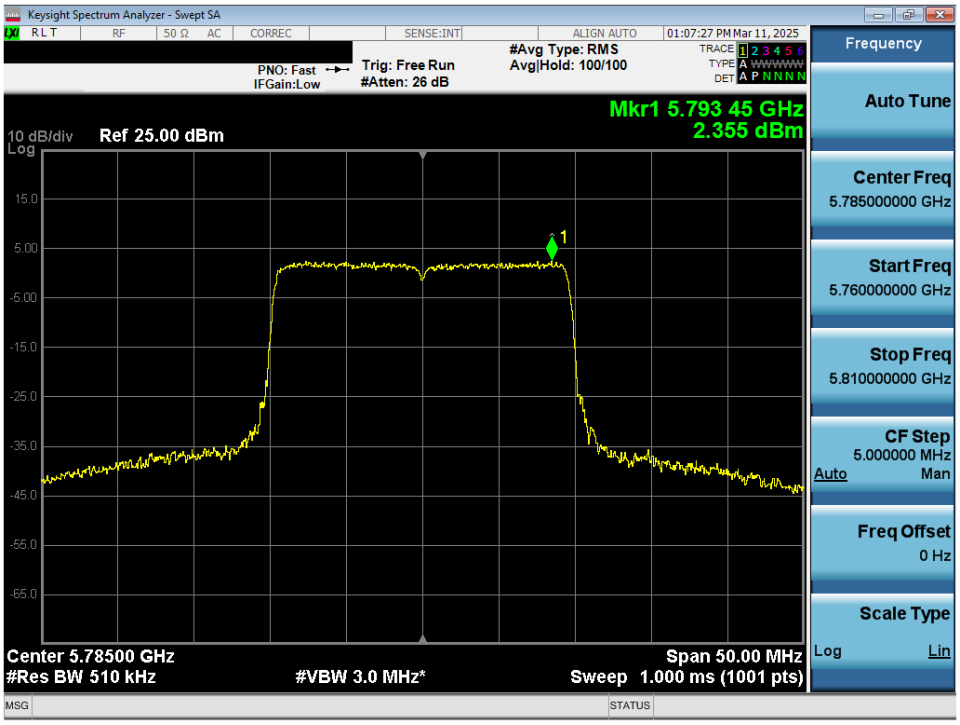


Plot 7-113. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11be (996+484 Tones) (UNII Band 3/4) – Ch. 163)



Plot 7-114. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (Full Tones) (UNII Band 3) – Ch. 157)

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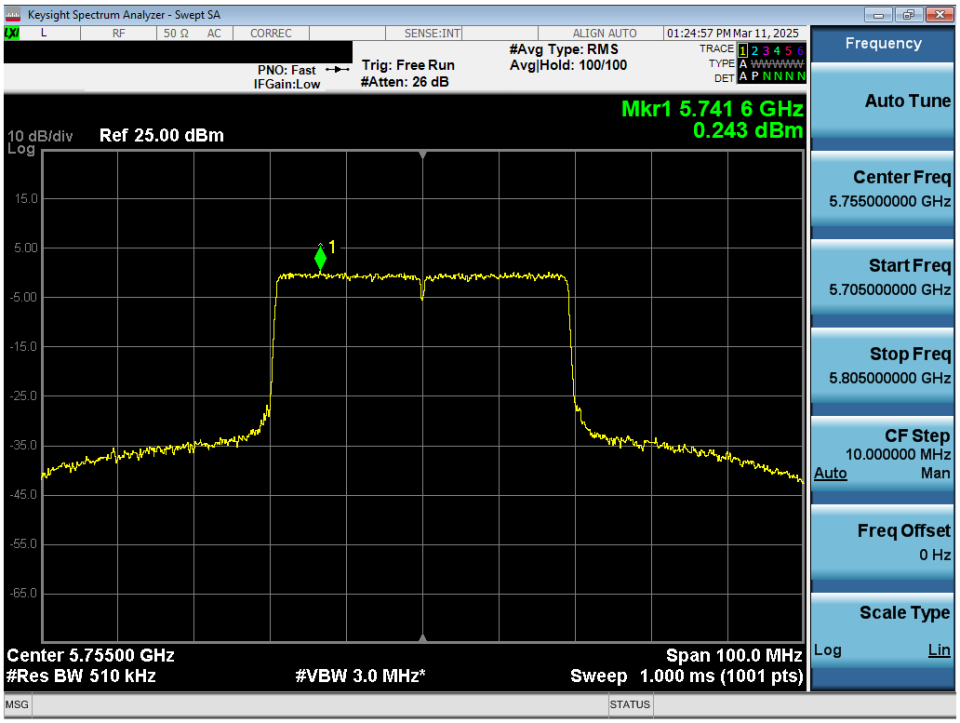
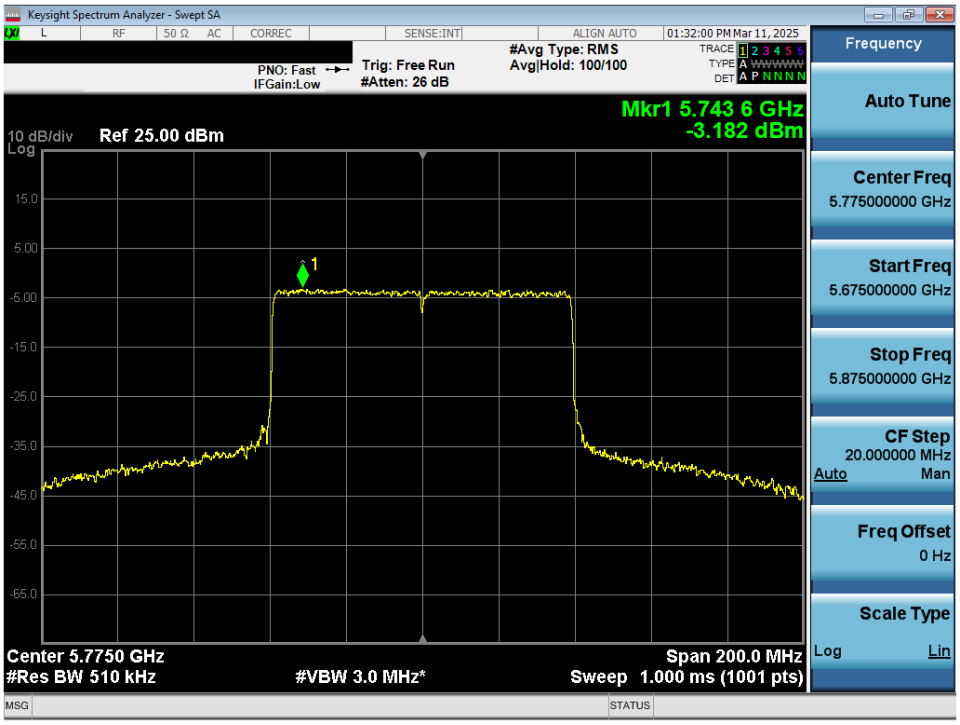


Plot 7-115. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (Full Tones) (UNII Band 3) – Ch. 151)



Plot 7-116. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax/be (Full Tones) (UNII Band 3) – Ch. 155)

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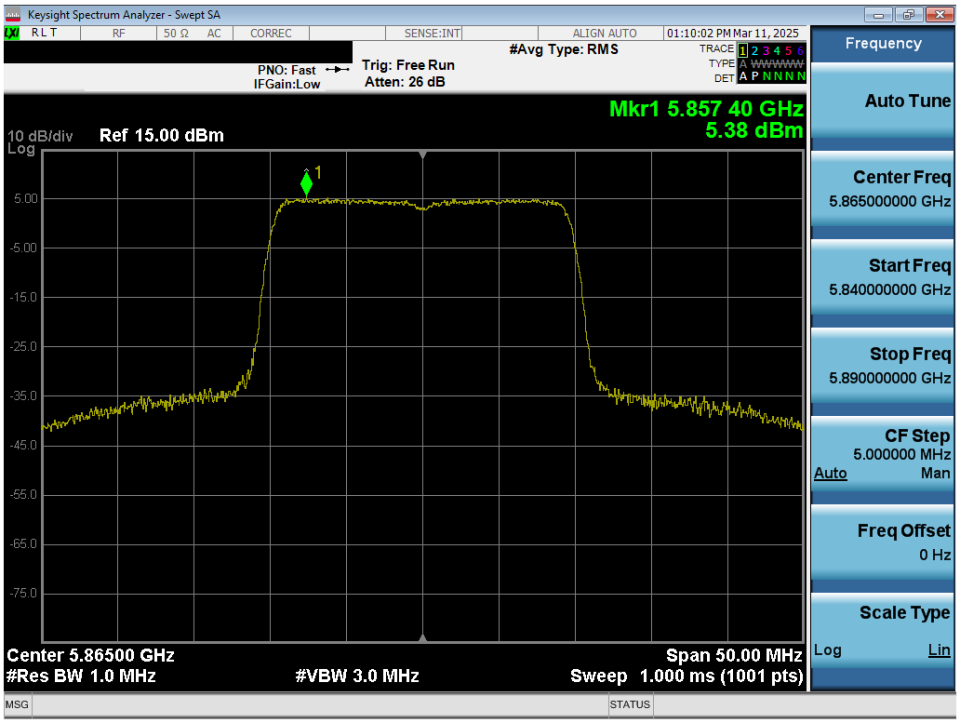
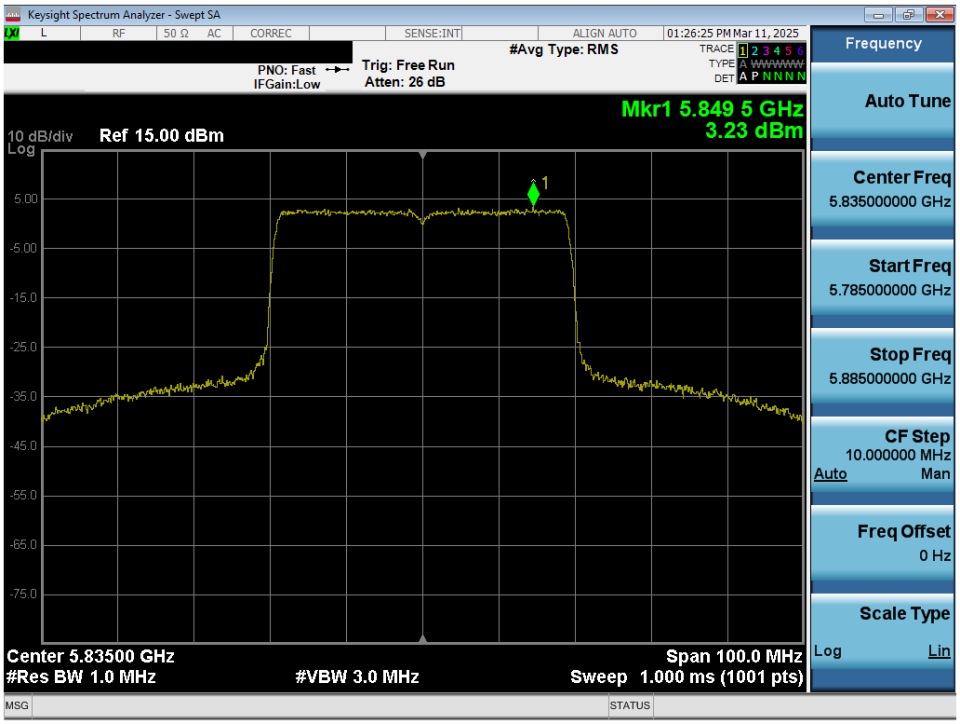


Plot 7-117. Power Spectral Density Plot MIMO ANT2 (20MHz 802.11ax/be (Full Tones) (UNII Band 4) – Ch. 173)



Plot 7-118. Power Spectral Density Plot MIMO ANT2 (40MHz 802.11ax/be (Full Tones) (UNII Band 3/4) – Ch. 167)

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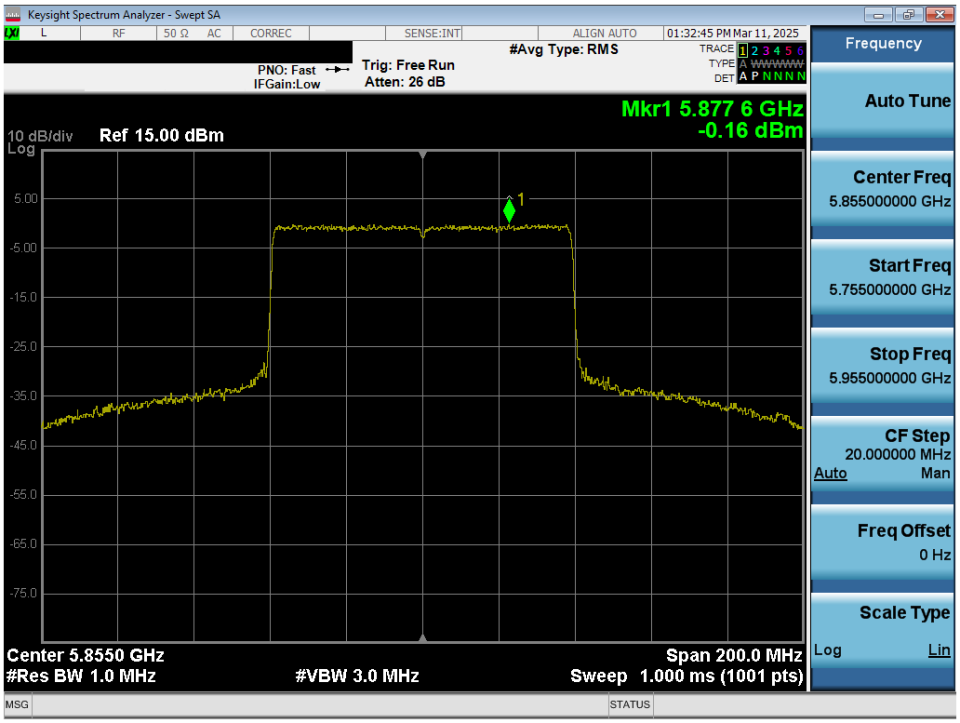
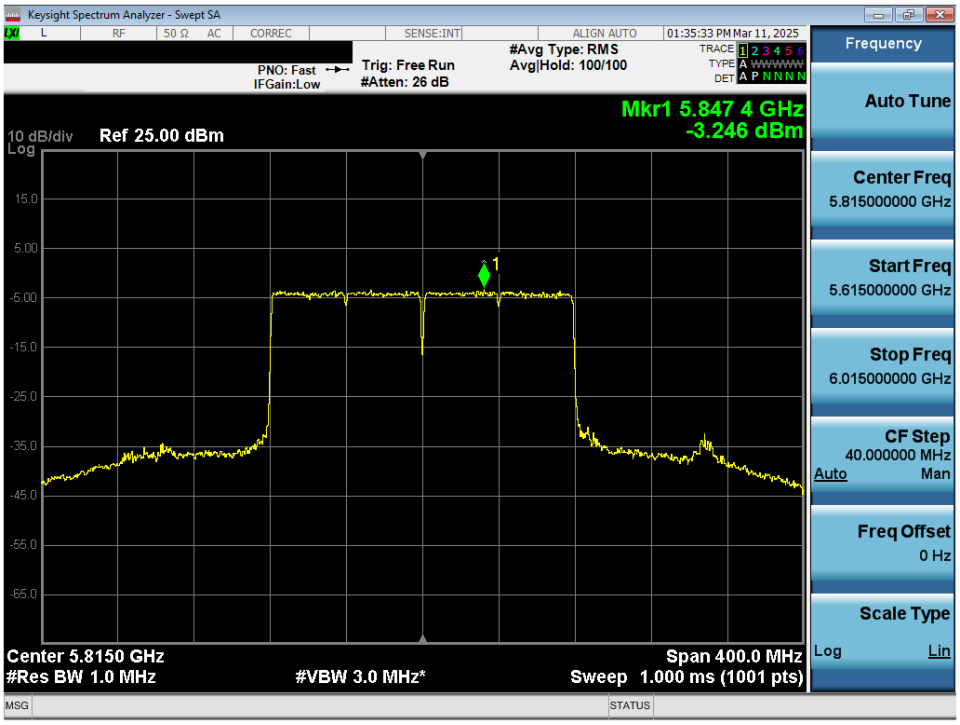


Plot 7-119. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11ax/be (Full Tones) (UNII Band 3/4) – Ch. 171)



Plot 7-120. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11ax/be (Full Tones) (UNII Band 3/4) – Ch. 163)

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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna-1 and Antenna-2 were first measured separately with reduced Antenna-1 and Antenna-2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

Assuming the antenna gain is -5.03 dBi for Antenna-1 and -4.87 dBi for Antenna-2.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \ldots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

$$= 10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] \text{ dBi}$$

$$= -1.94 \text{ dBi}$$

Sample MIMO Calculation:

Assuming the average conducted power spectral density was measured to be 7.52 dBm for Antenna-1 and 8.06 dBm for Antenna-2.

Antenna-1 + Antenna-2 = MIMO

(7.52 dBm + 8.06 dBm) = (5.651 mW + 6.391 mW) = 12.042 mW = 10.81 dBm

Sample e.i.r.p Power Spectral Density Calculation:
Assuming the average MIMO power density was calculated to be 10.81 dBm with directional gain of -1.94 dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + directional gain (dBi)

10.81 dBm + (-1.94) dBi = 8.87 dBm

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7.6 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 KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes, 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 in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For transmitters operating in the 5.850 – 5.895 GHz band: all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of -5dBm/MHz and shall decrease linearly up to an e.i.r.p. of -27dBm/MHz at or above 5.925GHz, and all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27dBm/MHz at 5.65 GHz increasing linearly to 10dBm/MHz at 5.7GHz and from 5.7GHz increasing linearly to a level of 15.6dMb/MHz at 5.72GHz, and from 5.72GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.

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 in the table below per 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 7-55. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 (Radiated Spurious Emissions)
ANSI C63.10-2013 – Section 12.7.4.4 (Band Edge Measurements)

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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 ≥ 2 x span\\RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

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.

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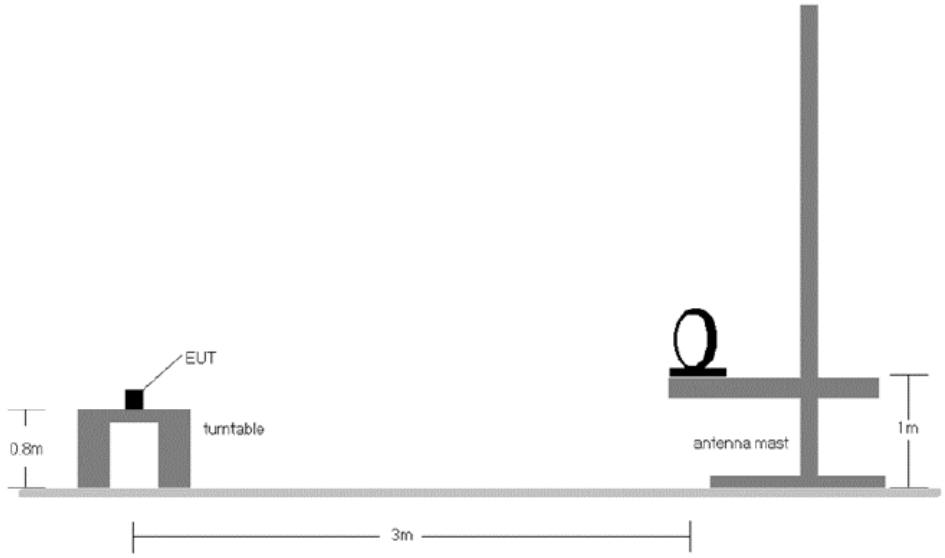

Figure 7-5. Radiated Test Setup < 30MHz

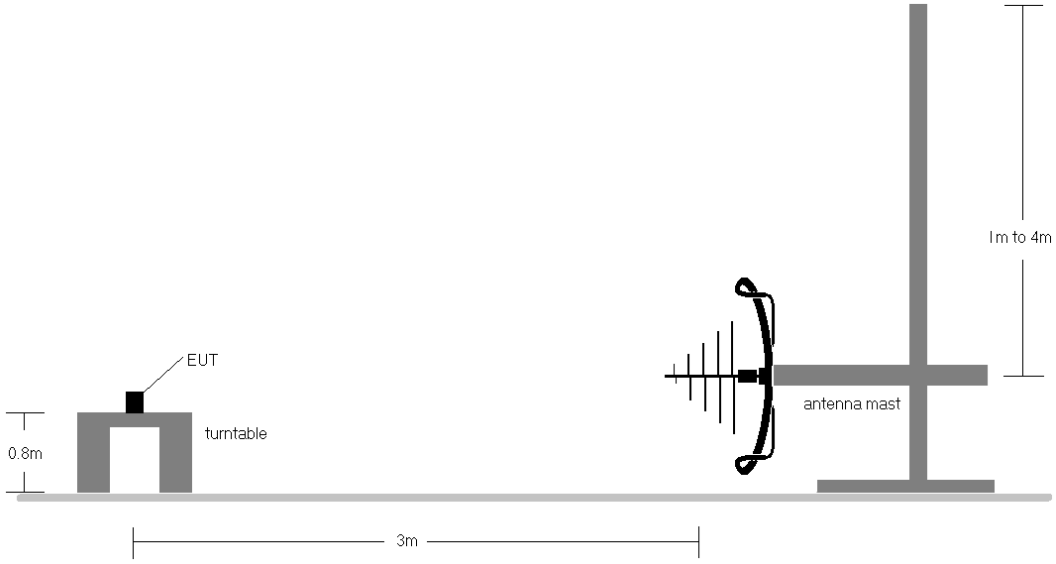

Figure 7-6. Radiated Test Setup < 1GHz

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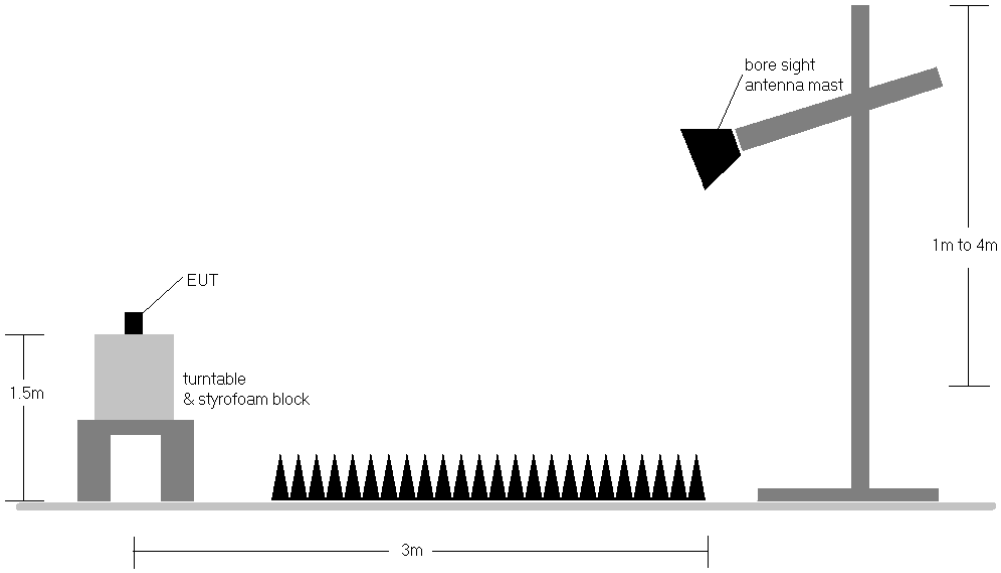

Figure 7-7. Radiated Test Setup > 1GHz

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Test Notes

1. 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.
2. 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. 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. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
10. 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.
11. 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.

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Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious Emission Measurements – Above 1GHz was calculated using the formula:
  Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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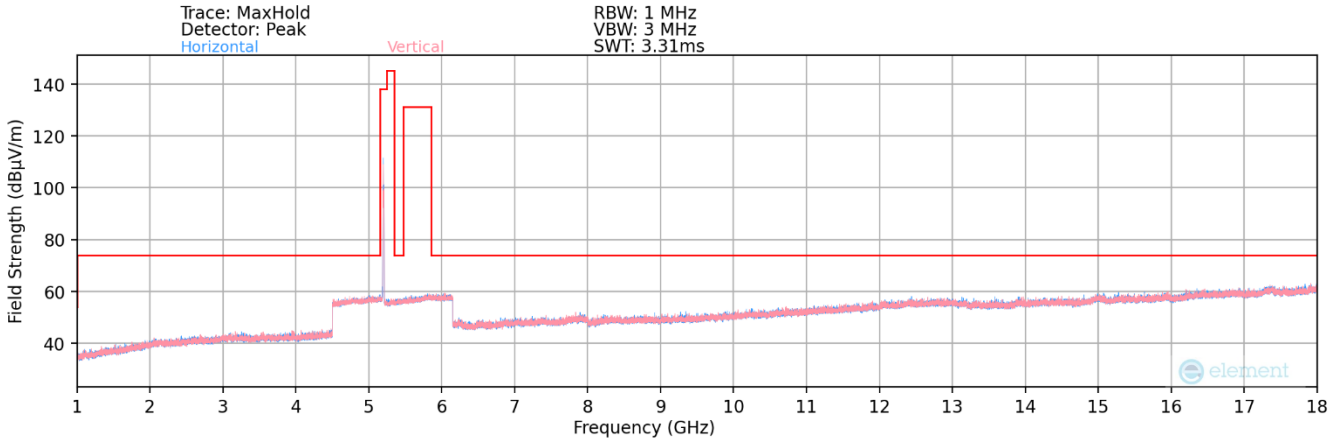
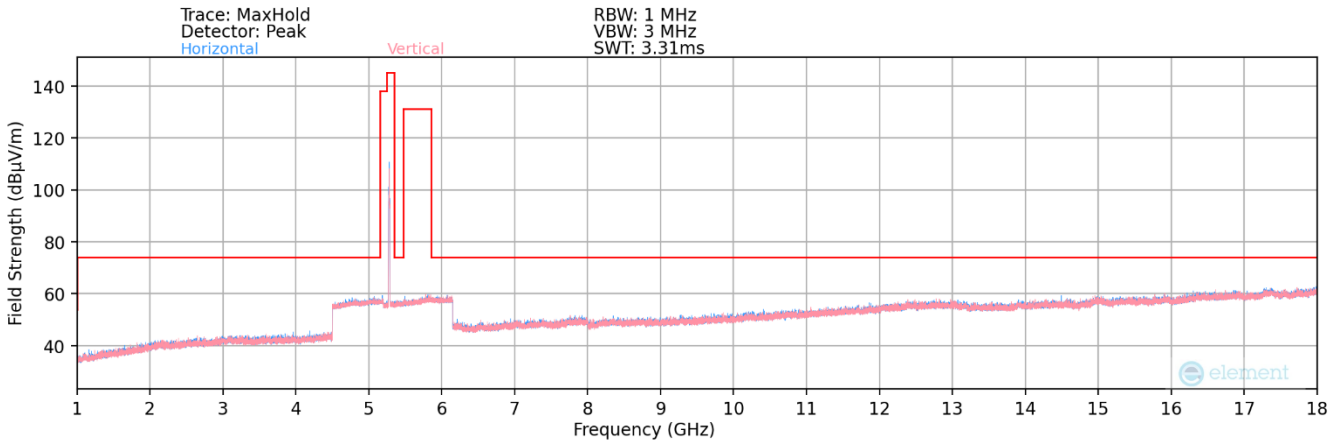
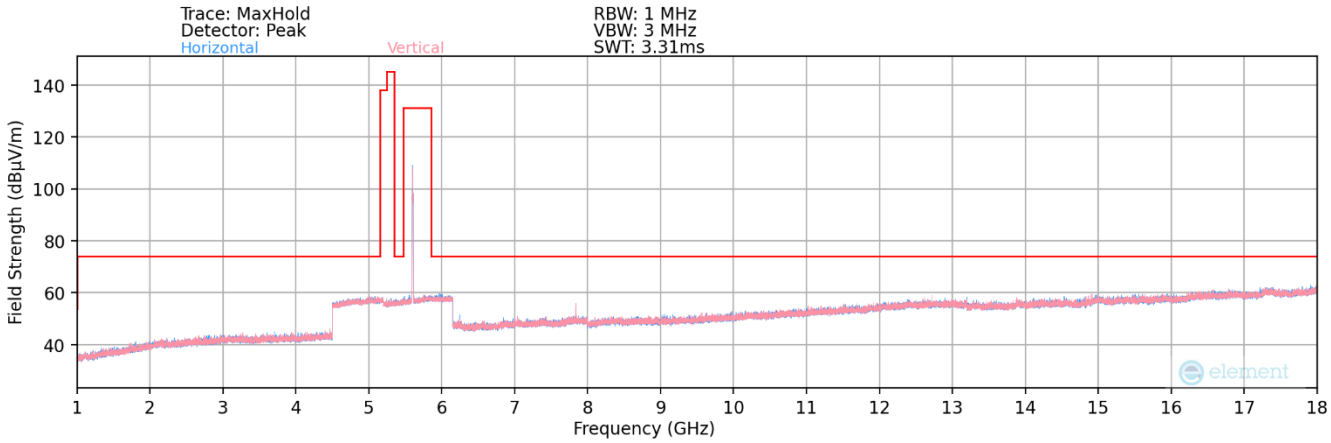
7.6.1 MIMO Radiated Spurious Emission Measurements (26 Tones)



Plot 7-121. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 1 Ch. 40)



Plot 7-122. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 2A Ch. 56)



Plot 7-123. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 2C Ch. 120)

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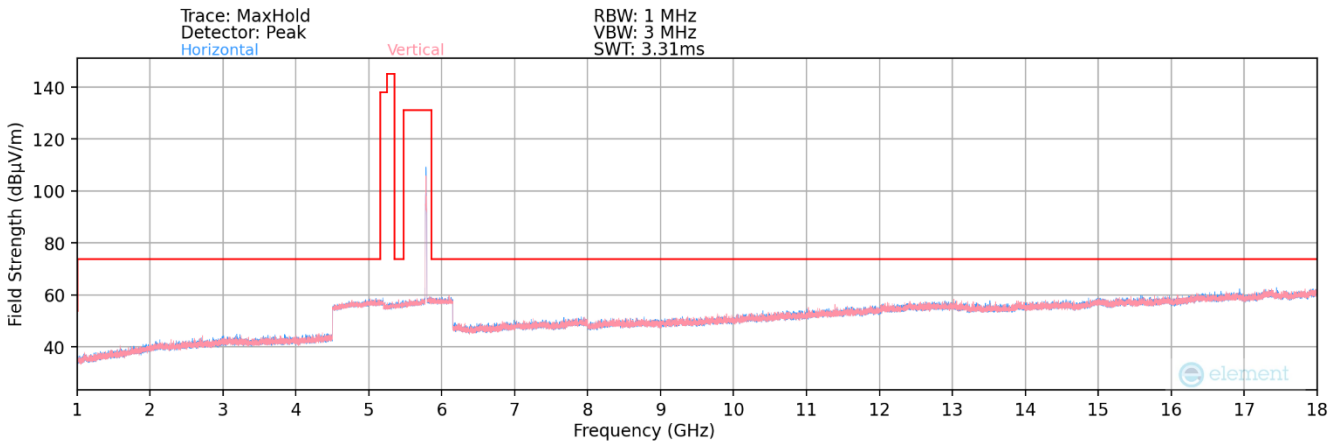
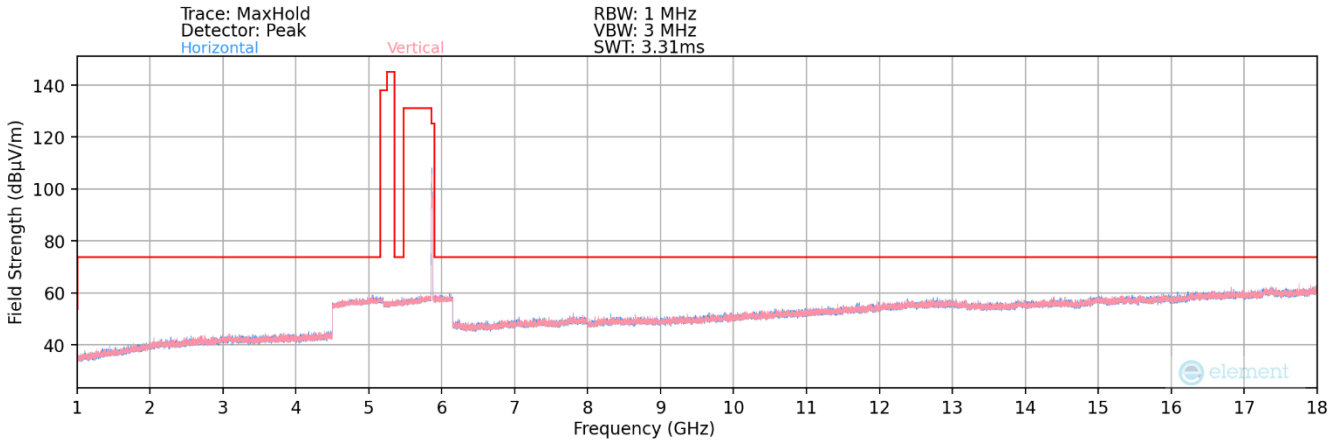
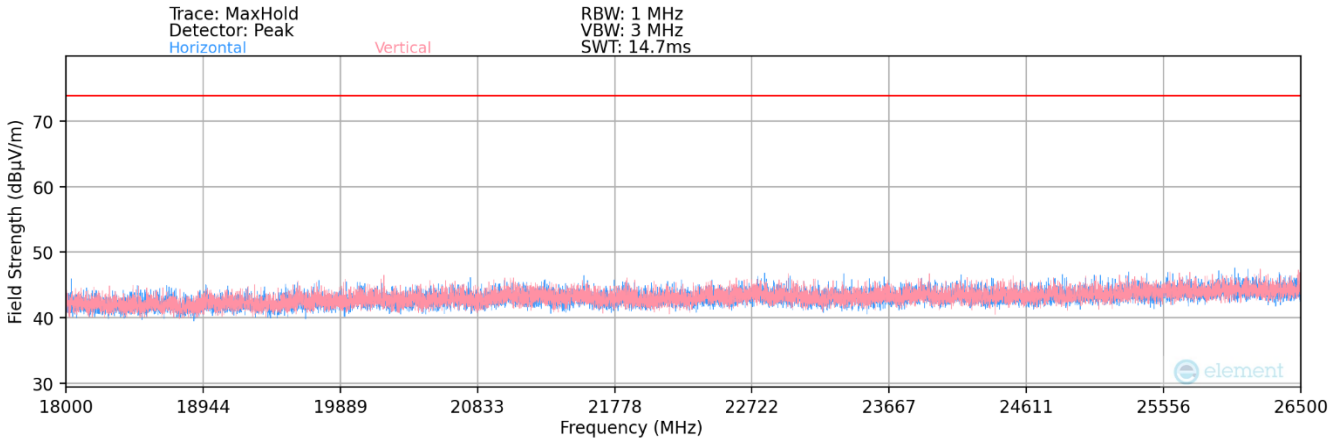


Plot 7-124. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 3 Ch. 157)



Plot 7-125. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 4 Ch. 173)



Plot 7-126. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)

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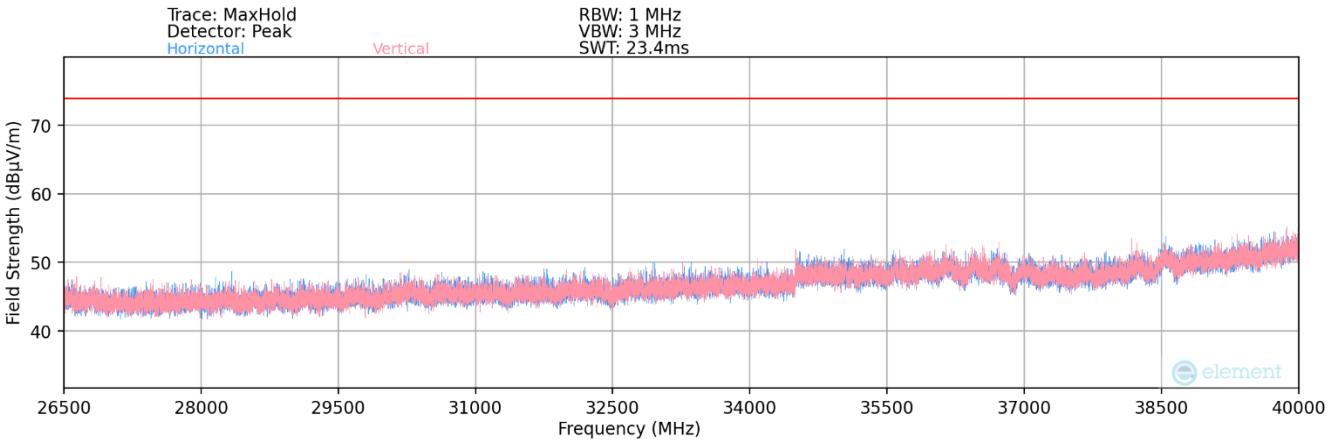

Plot 7-127. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

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MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII 1

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]
1	36	5180	4		10360.00	Peak	H	117	337	-70.00	16.03	0.00	53.03	68.20	-15.17
				*	15540.00	Average	H	-	-	-82.44	23.04	0.00	47.60	53.98	-6.38
				*	15540.00	Peak	H	-	-	-71.28	23.04	0.00	58.76	73.98	-15.22
				*	20720.00	Average	H	-	-	-66.32	3.16	-9.54	34.30	53.98	-19.68
				*	20720.00	Peak	H	-	-	-55.77	3.16	-9.54	44.85	73.98	-29.13
					25900.00	Peak	H	-	-	-56.21	4.24	-9.54	45.49	68.20	-22.71
				*	7252.00	Average	H	127	64	-78.87	12.64	0.00	40.77	53.98	-13.21
				*	7252.00	Peak	H	127	64	-68.45	12.64	0.00	51.19	73.98	-22.79
	40	5200	4		10400.00	Peak	H	123	338	-69.44	16.25	0.00	53.81	68.20	-14.39
				*	15600.00	Average	H	-	-	-82.06	23.40	0.00	48.34	53.98	-5.64
				*	15600.00	Peak	H	-	-	-71.01	23.40	0.00	59.39	73.98	-14.59
				*	20800.00	Average	H	-	-	-65.92	3.15	-9.54	34.69	53.98	-19.29
				*	20800.00	Peak	H	-	-	-55.60	3.15	-9.54	45.01	73.98	-28.97
					26000.00	Peak	H	-	-	-55.76	4.16	-9.54	45.86	68.20	-22.34
				*	7279.00	Average	H	137	66	-78.95	12.64	0.00	40.69	53.98	-13.29
				*	7279.00	Peak	H	137	66	-68.76	12.64	0.00	50.88	73.98	-23.10
	48	5240	4		10480.00	Peak	H	132	332	-69.30	16.26	0.00	53.96	68.20	-14.24
				*	15720.00	Average	H	-	-	-82.93	23.33	-9.54	37.86	53.98	-16.12
				*	15720.00	Peak	H	-	-	-70.61	23.33	-9.54	50.18	73.98	-23.80
					20960.00	Peak	H	-	-	-56.43	3.27	-9.54	44.31	68.20	-23.89
					26200.00	Peak	H	-	-	-55.76	3.96	-9.54	45.66	68.20	-22.54
				*	7335.00	Average	H	124	64	-78.89	12.97	0.00	41.08	53.98	-12.90
				*	7335.00	Peak	H	124	64	-68.36	12.97	0.00	51.61	73.98	-22.37

Table 7-56. Radiated Measurements MIMO (26 Tones)

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MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII 2A

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]
2A	52	5260	4		10520.00	Peak	H	123	338	-69.30	16.33	0.00	54.03	68.20	-14.17
				*	15780.00	Average	H	-	-	-82.95	23.33	0.00	47.38	53.98	-6.60
				*	15780.00	Peak	H	-	-	-71.55	23.33	0.00	58.78	73.98	-15.20
				*	21040.00	Average	H	-	-	-66.40	3.35	-9.54	34.41	53.98	-19.57
				*	21040.00	Peak	H	-	-	-56.08	3.35	-9.54	44.73	73.98	-29.25
					26300.00	Peak	H	-	-	-56.23	3.91	-9.54	45.14	68.20	-23.06
				*	7364.00	Average	H	130	66	-75.81	13.21	0.00	44.40	53.98	-9.58
				*	7364.00	Peak	H	130	66	-65.39	13.21	0.00	54.82	73.98	-19.16
	56	5280	4		10560.00	Peak	H	126	335	-70.36	16.58	0.00	53.22	68.20	-14.98
				*	15840.00	Average	H	-	-	-82.33	23.62	0.00	48.29	53.98	-5.69
				*	15840.00	Peak	H	-	-	-71.09	23.62	0.00	59.53	73.98	-14.45
				*	21120.00	Average	H	-	-	-66.19	3.46	-9.54	34.73	53.98	-19.25
				*	21120.00	Peak	H	-	-	-56.21	3.46	-9.54	44.71	73.98	-29.27
					26400.00	Peak	H	-	-	-55.91	3.71	-9.54	45.27	68.20	-22.93
				*	7390.00	Average	H	130	66	-78.31	13.26	0.00	41.95	53.98	-12.03
				*	7390.00	Peak	H	130	66	-67.73	13.26	0.00	52.53	73.98	-21.45
	64	5320	4	*	10640.00	Average	H	120	324	-80.91	16.85	0.00	42.94	53.98	-11.03
				*	10640.00	Peak	H	120	324	-70.23	16.85	0.00	53.62	73.98	-20.36
				*	15960.00	Average	H	-	-	-82.15	24.02	0.00	48.87	53.98	-5.11
				*	15960.00	Peak	H	-	-	-70.58	24.02	0.00	60.44	73.98	-13.54
				*	21280.00	Average	H	-	-	-66.55	3.58	-9.54	34.49	53.98	-19.49
				*	21280.00	Peak	H	-	-	-55.86	3.58	-9.54	45.18	73.98	-28.80
					26600.00	Peak	H	-	-	-56.36	3.91	-9.54	45.01	68.20	-23.19
				*	7448.00	Average	H	168	60	-77.65	12.64	0.00	41.99	53.98	-11.99
				*	7448.00	Peak	H	168	60	-66.76	12.64	0.00	52.88	73.98	-21.10

Table 7-57. Radiated Measurements MIMO (26 Tones)

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MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII 2C

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]
2C	100	5500	4	*	11000.00	Average	H	126	335	-81.15	17.49	0.00	43.34	53.98	-10.64
				*	11000.00	Peak	H	126	335	-68.32	17.49	0.00	56.17	73.98	-17.81
					16500.00	Peak	H	-	-	-71.03	25.00	-9.54	51.43	68.20	-16.77
					22000.00	Peak	H	-	-	-55.94	3.53	-9.54	45.05	68.20	-23.15
					27500.00	Peak	H	-	-	-55.25	3.97	-9.54	46.18	68.20	-22.02
				*	7700.00	Average	H	146	62	-76.31	13.15	0.00	43.84	53.98	-10.14
				*	7700.00	Peak	H	146	62	-66.14	13.15	0.00	54.01	73.98	-19.97
	120	5600	4	*	11200.00	Average	H	140	249	-80.49	17.61	0.00	44.12	53.98	-9.86
				*	11200.00	Peak	H	140	249	-67.20	17.61	0.00	57.41	73.98	-16.57
					16800.00	Peak	H	-	-	-71.19	24.98	0.00	60.79	68.20	-7.41
				*	22400.00	Average	H	-	-	-66.47	3.58	-9.54	34.57	53.98	-19.41
				*	22400.00	Peak	H	-	-	-55.84	3.58	-9.54	45.19	73.98	-28.79
					28000.00	Peak	H	-	-	-56.01	4.52	-9.54	45.97	68.20	-22.23
					7840.00	Peak	H	150	59	-61.63	13.56	0.00	58.93	68.20	-9.27
	144	5720	4	*	11440.00	Average	H	136	243	-81.34	18.15	0.00	43.81	53.98	-10.17
				*	11440.00	Peak	H	136	243	-69.83	18.15	0.00	55.32	73.98	-18.66
					17160.00	Peak	H	-	-	-71.07	25.10	0.00	61.03	68.20	-7.17
				*	22880.00	Average	H	-	-	-66.64	3.76	-9.54	34.57	53.98	-19.41
				*	22880.00	Peak	H	-	-	-56.02	3.76	-9.54	45.19	73.98	-28.79
					28600.00	Peak	H	-	-	-55.99	4.96	-9.54	46.43	68.20	-21.77
				*	8008.00	Average	H	159	57	-78.51	12.76	0.00	41.25	53.98	-12.73
				*	8008.00	Peak	H	159	57	-68.20	12.76	0.00	51.56	73.98	-22.42

Table 7-58. Radiated Measurements MIMO (26 Tones)

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MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII 3

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]
3	149	5745	4	*	11490.00	Average	H	133	253	-82.11	18.28	0.00	43.17	53.98	-10.81
				*	11490.00	Peak	H	133	253	-70.07	18.28	0.00	55.21	73.98	-18.77
					17235.00	Peak	H	-	-	-71.44	25.51	0.00	61.07	68.20	-7.13
				*	22980.00	Average	H	-	-	-67.27	3.66	-9.54	33.85	53.98	-20.13
				*	22980.00	Peak	H	-	-	-55.88	3.66	-9.54	45.24	73.98	-28.74
					28725.00	Peak	H	-	-	-56.78	5.05	-9.54	45.73	68.20	-22.47
				*	8044.00	Average	H	166	59	-79.45	12.61	0.00	40.16	53.98	-13.82
				*	8044.00	Peak	H	166	59	-68.78	12.61	0.00	50.83	73.98	-23.15
	157	5785	4	*	11570.00	Average	H	148	243	-81.34	18.16	0.00	43.82	53.98	-10.16
				*	11570.00	Peak	H	148	243	-69.64	18.16	0.00	55.52	73.98	-18.46
					17355.00	Peak	H	-	-	-71.88	26.74	0.00	61.86	68.20	-6.34
					23140.00	Peak	H	-	-	-56.05	3.65	-9.54	45.06	68.20	-23.14
					28925.00	Peak	H	-	-	-56.30	4.92	-9.54	46.08	68.20	-22.12
	165	5825	4	*	11650.00	Average	H	113	241	-81.22	18.25	0.00	44.03	53.98	-9.95
				*	11650.00	Peak	H	113	241	-69.29	18.25	0.00	55.96	73.98	-18.02
					17475.00	Peak	H	-	-	-71.92	26.50	0.00	61.58	68.20	-6.62
					23300.00	Peak	H	-	-	-56.35	3.55	-9.54	44.66	68.20	-23.54
					29125.00	Peak	H	-	-	-56.92	5.01	-9.54	45.55	68.20	-22.65

Table 7-59. Radiated Measurements MIMO (26 Tones)

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MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII 4

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]
4	169	5845	4	*	11690.00	Average	H	172	21	-81.05	18.65	0.00	44.60	53.98	-9.38
				*	11690.00	Peak	H	172	21	-67.34	18.65	0.00	58.31	73.98	-15.67
					17535.00	Peak	H	-	-	-70.83	26.34	0.00	62.51	68.20	-5.69
					23380.00	Peak	H	-	-	-55.90	3.53	-9.54	45.09	68.20	-23.11
					29225.00	Peak	H	-	-	-56.95	5.04	-9.54	45.55	68.20	-22.65
					35070.00	Peak	H	-	-	-56.55	7.60	-9.54	48.51	68.20	-19.69
	173	5865	4	*	11730.00	Average	H	159	25	-79.84	18.20	0.00	45.36	53.98	-8.62
				*	11730.00	Peak	H	159	25	-66.68	18.20	0.00	58.52	73.98	-15.46
					17595.00	Peak	H	-	-	-72.10	26.29	0.00	61.19	68.20	-7.01
					23460.00	Peak	H	-	-	-55.75	3.57	-9.54	45.28	68.20	-22.92
					29325.00	Peak	H	-	-	-55.59	5.14	-9.54	47.01	68.20	-21.19
					35190.00	Peak	H	-	-	-56.85	7.80	-9.54	48.41	68.20	-19.79
	177	5885	4	*	11770.00	Average	H	137	23	-78.51	18.48	0.00	46.97	53.98	-7.01
				*	11770.00	Peak	H	137	23	-65.36	18.48	0.00	60.12	73.98	-13.86
					17655.00	Peak	H	-	-	-72.07	26.16	0.00	61.09	68.20	-7.11
					23540.00	Peak	H	-	-	-55.41	3.57	-9.54	45.62	68.20	-22.58
					29425.00	Peak	H	-	-	-56.81	5.13	-9.54	45.78	68.20	-22.42
					35310.00	Peak	H	-	-	-56.72	7.91	-9.54	48.65	68.20	-19.55

Table 7-60. Radiated Measurements MIMO (26 Tones)

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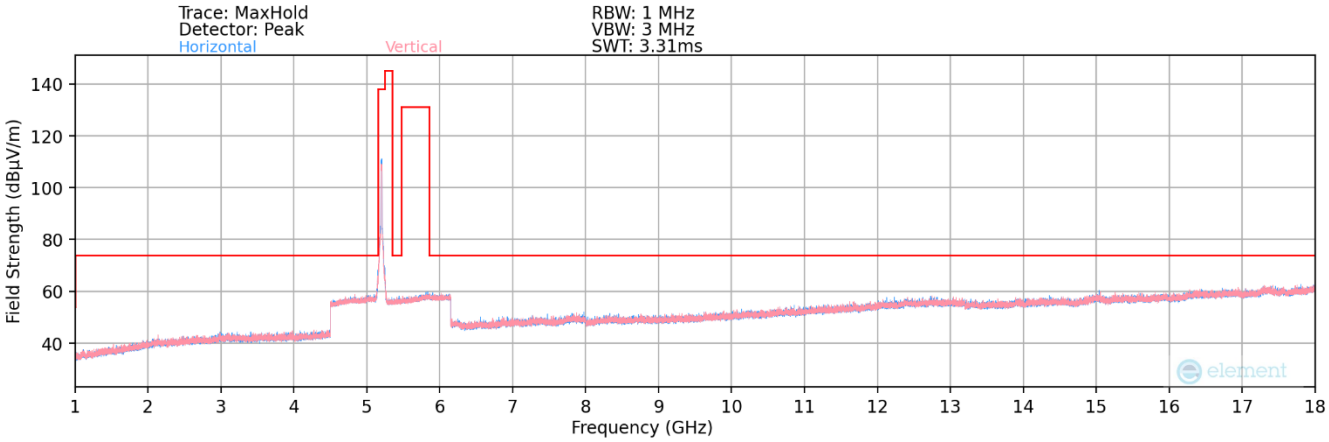
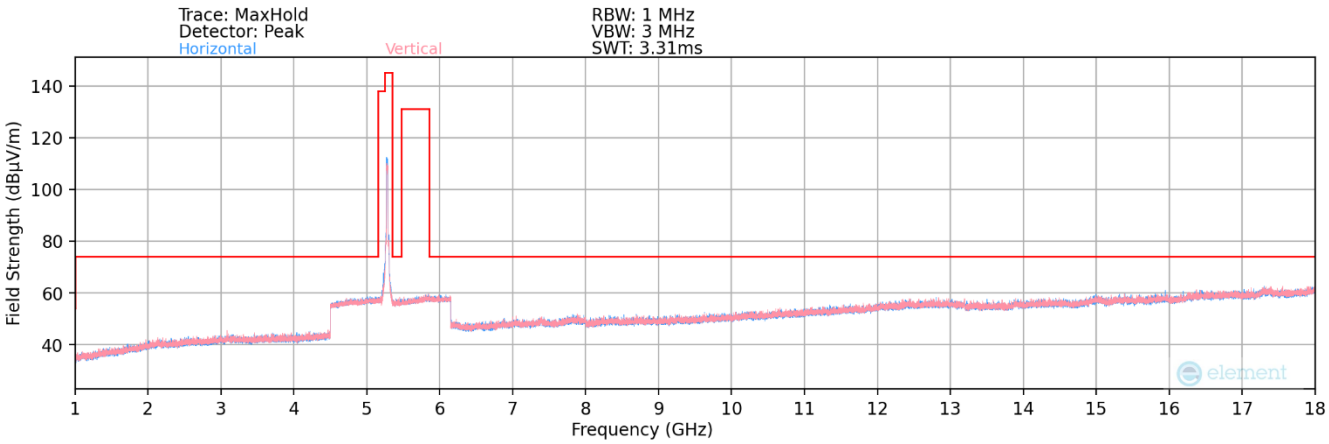
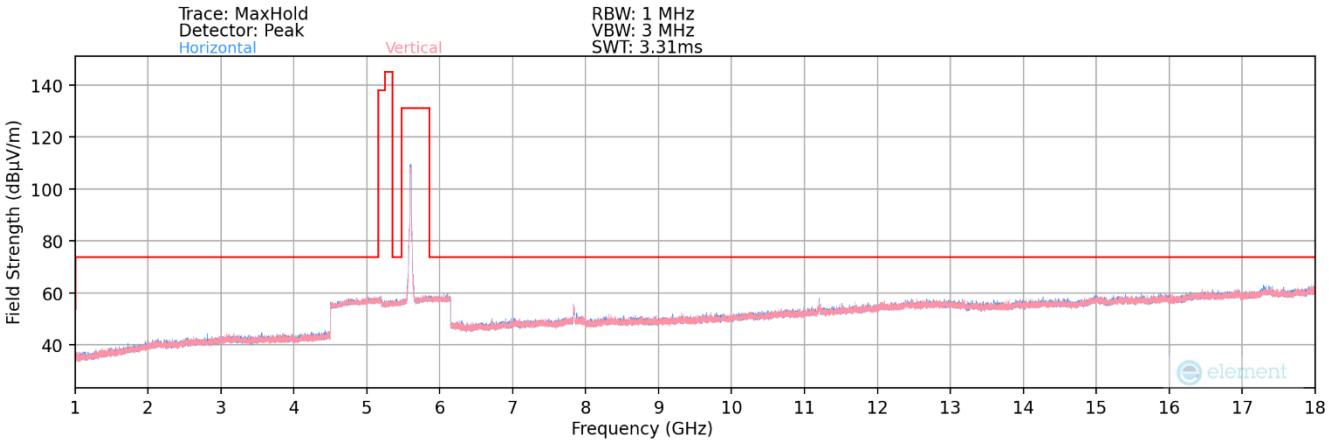
7.6.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-128. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 1 Ch. 40)



Plot 7-129. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 2A Ch. 56)



Plot 7-130. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 2C Ch. 120)

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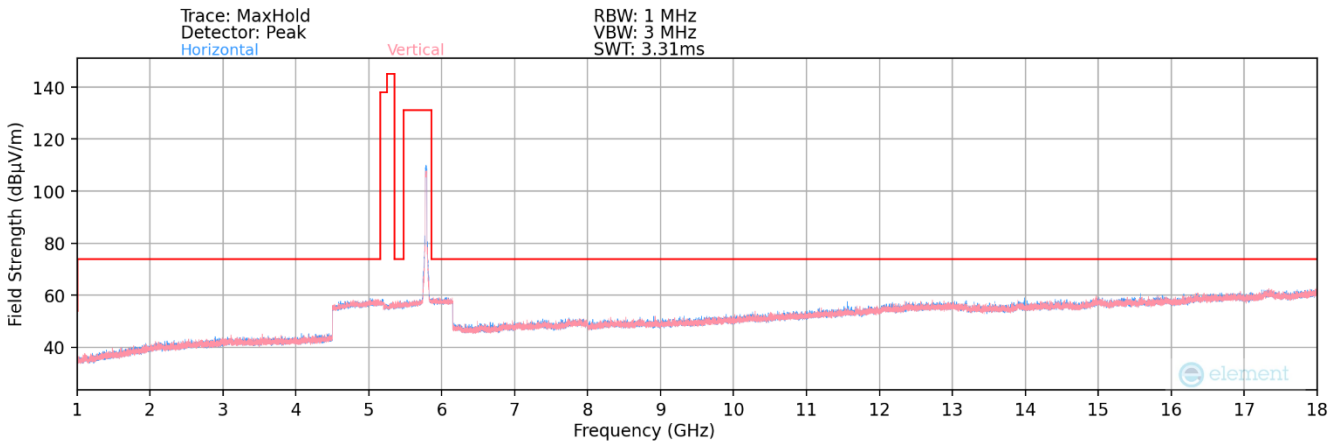
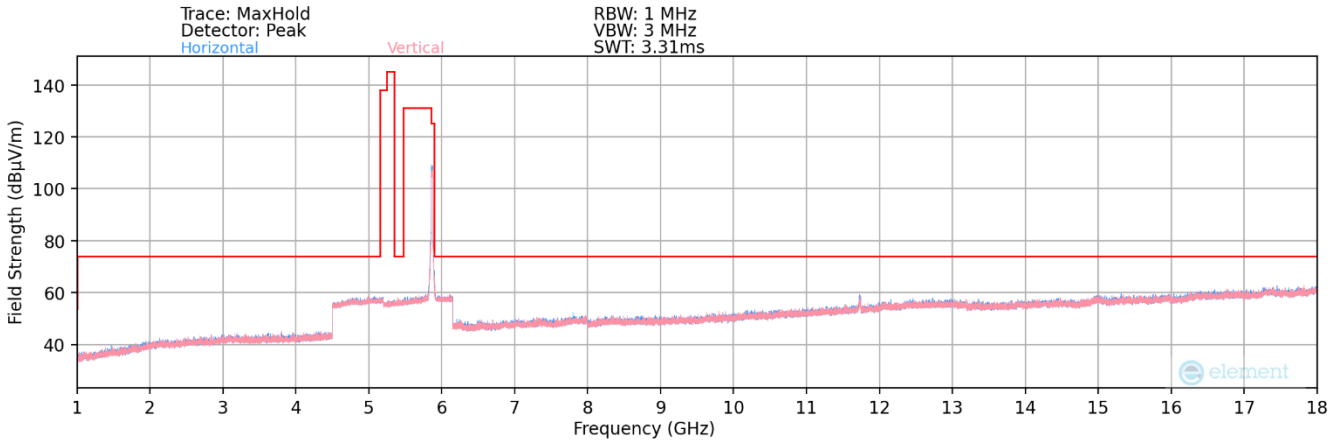
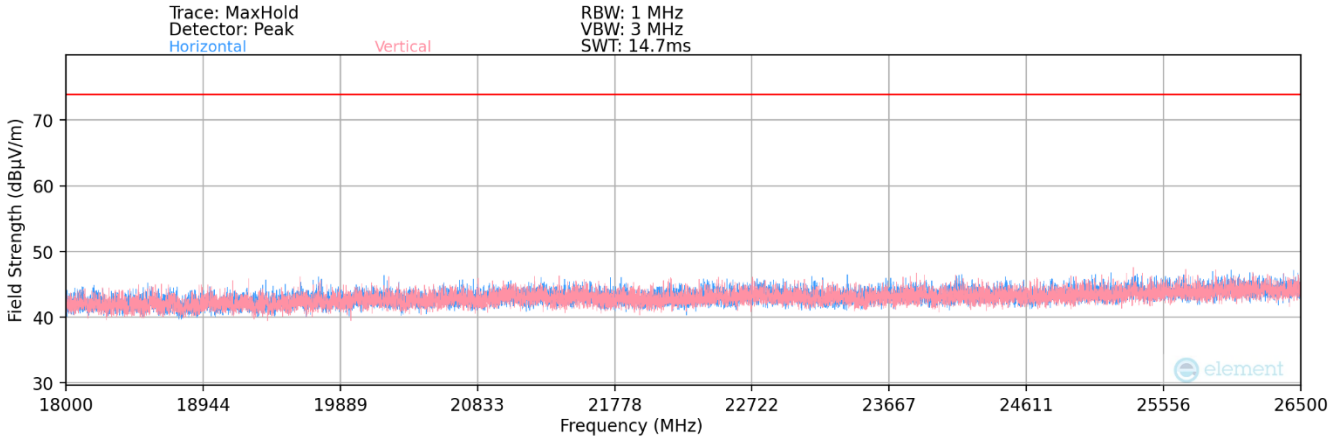


Plot 7-131. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 3 Ch. 157)



Plot 7-132. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 4 Ch. 173)



Plot 7-133. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)

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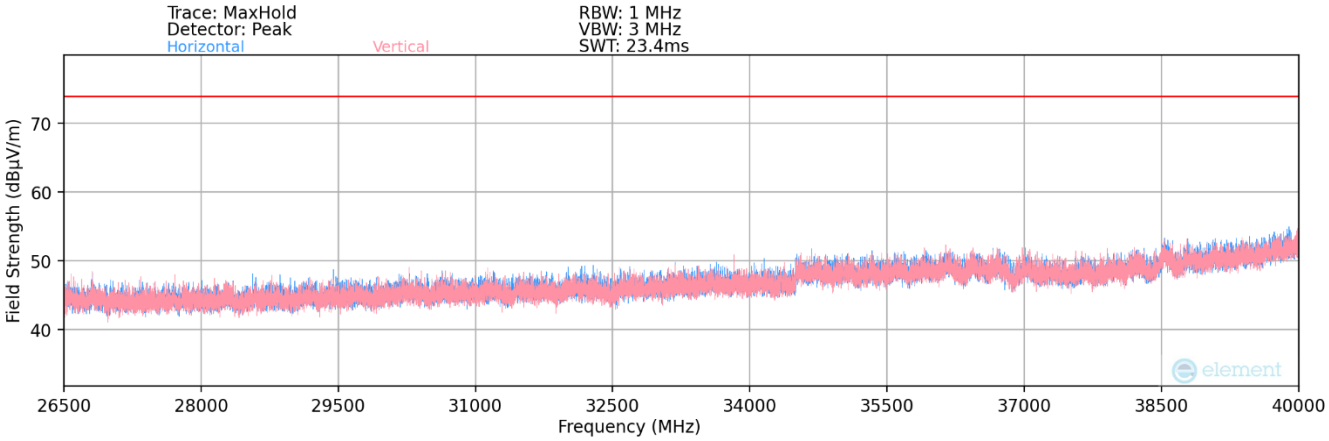

Plot 7-134. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

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MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII 1

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]
1	36	5180	61		10360.00	Peak	H	117	337	-68.76	16.03	0.00	54.27	68.20	-13.93
				*	15540.00	Average	H	-	-	-82.54	23.04	0.00	47.50	53.98	-6.48
				*	15540.00	Peak	H	-	-	-70.94	23.04	0.00	59.10	73.98	-14.88
				*	20720.00	Average	H	-	-	-66.51	3.16	-9.54	34.11	53.98	-19.87
				*	20720.00	Peak	H	-	-	-55.78	3.16	-9.54	44.84	73.98	-29.14
					25900.00	Peak	H	-	-	-55.91	4.24	-9.54	45.78	68.20	-22.42
				*	7252.00	Average	H	127	64	-79.00	12.64	0.00	40.64	53.98	-13.34
				*	7252.00	Peak	H	127	64	-67.33	12.64	0.00	52.31	73.98	-21.67
	40	5200	61		10400.00	Peak	H	123	338	-69.69	16.25	0.00	53.56	68.20	-14.64
				*	15600.00	Average	H	-	-	-82.31	23.40	0.00	48.09	53.98	-5.89
				*	15600.00	Peak	H	-	-	-70.57	23.40	0.00	59.83	73.98	-14.15
				*	20800.00	Average	H	-	-	-66.08	3.15	-9.54	34.53	53.98	-19.45
				*	20800.00	Peak	H	-	-	-54.97	3.15	-9.54	45.64	73.98	-28.34
					26000.00	Peak	H	-	-	-56.02	4.16	-9.54	45.60	68.20	-22.60
				*	7279.00	Average	H	137	66	-77.86	12.64	0.00	41.78	53.98	-12.20
				*	7279.00	Peak	H	137	66	-68.17	12.64	0.00	51.47	73.98	-22.51
	48	5240	61		10480.00	Peak	H	132	332	-69.08	16.26	0.00	54.18	68.20	-14.02
				*	15720.00	Average	H	-	-	-82.89	23.33	0.00	47.44	53.98	-6.54
				*	15720.00	Peak	H	-	-	-70.18	23.33	0.00	60.15	73.98	-13.83
					20960.00	Peak	H	-	-	-55.54	3.27	-9.54	45.19	68.20	-23.01
					26200.00	Peak	H	-	-	-56.23	3.96	-9.54	45.19	68.20	-23.01
				*	7335.00	Average	H	124	64	-79.16	12.97	0.00	40.81	53.98	-13.17
				*	7335.00	Peak	H	124	64	-68.09	12.97	0.00	51.88	73.98	-22.10

Table 7-61. Radiated Measurements MIMO (242 Tones)

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MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII 2A

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]
2A	52	5260	61		10520.00	Peak	H	123	338	-68.49	16.33	0.00	54.84	68.20	-13.36
				*	15780.00	Average	H	-	-	-82.95	23.33	0.00	47.38	53.98	-6.60
				*	15780.00	Peak	H	-	-	-71.58	23.33	0.00	58.75	73.98	-15.23
				*	21040.00	Average	H	-	-	-66.25	3.35	-9.54	34.55	53.98	-19.43
				*	21040.00	Peak	H	-	-	-55.86	3.35	-9.54	44.95	73.98	-29.03
					26300.00	Peak	H	-	-	-56.35	3.91	-9.54	45.02	68.20	-23.18
				*	7364.00	Average	H	130	66	-75.63	13.21	0.00	44.58	53.98	-9.40
				*	7364.00	Peak	H	130	66	-64.44	13.21	0.00	55.77	73.98	-18.21
	56	5280	61		10560.00	Peak	H	126	335	-69.00	16.58	0.00	54.58	68.20	-13.62
				*	15840.00	Average	H	-	-	-82.81	23.62	0.00	47.81	53.98	-6.17
				*	15840.00	Peak	H	-	-	-70.81	23.62	0.00	59.81	73.98	-14.17
				*	21120.00	Average	H	-	-	-66.53	3.46	-9.54	34.39	53.98	-19.59
				*	21120.00	Peak	H	-	-	-55.91	3.46	-9.54	45.02	73.98	-28.96
					26400.00	Peak	H	-	-	-56.06	3.71	-9.54	45.12	68.20	-23.08
				*	7390.00	Average	H	130	66	-78.91	13.26	0.00	41.35	53.98	-12.63
				*	7390.00	Peak	H	130	66	-66.22	13.26	0.00	54.04	73.98	-19.94
	64	5320	61	*	10640.00	Average	H	120	324	-80.71	16.85	0.00	43.14	53.98	-10.83
				*	10640.00	Peak	H	120	324	-69.11	16.85	0.00	54.74	73.98	-19.24
				*	15960.00	Average	H	-	-	-82.40	24.02	0.00	48.62	53.98	-5.36
				*	15960.00	Peak	H	-	-	-70.34	24.02	0.00	60.68	73.98	-13.30
				*	21280.00	Average	H	-	-	-66.68	3.58	-9.54	34.36	53.98	-19.62
				*	21280.00	Peak	H	-	-	-55.67	3.58	-9.54	45.37	73.98	-28.61
					26600.00	Peak	H	-	-	-56.35	3.91	-9.54	45.02	68.20	-23.18
				*	7448.00	Average	H	159	57	-78.24	12.64	0.00	41.40	53.98	-12.58
				*	7448.00	Peak	H	159	57	-67.01	12.64	0.00	52.63	73.98	-21.35

Table 7-62. Radiated Measurements MIMO (242 Tones)

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MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII 2C

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]
2C	100	5500	61	*	11000.00	Average	H	126	335	-80.02	17.49	0.00	44.47	53.98	-9.51
				*	11000.00	Peak	H	126	335	-68.14	17.49	0.00	56.35	73.98	-17.63
					16500.00	Peak	H	-	-	-71.49	25.00	-9.54	50.97	68.20	-17.23
					22000.00	Peak	H	-	-	-56.16	3.53	-9.54	44.83	68.20	-23.37
					27500.00	Peak	H	-	-	-56.31	3.97	-9.54	45.13	68.20	-23.07
				*	7700.00	Average	H	146	62	-76.91	13.15	0.00	43.24	53.98	-10.74
				*	7700.00	Peak	H	146	62	-66.03	13.15	0.00	54.12	73.98	-19.86
	120	5600	61	*	11200.00	Average	H	140	249	-78.29	17.61	0.00	46.32	53.98	-7.66
				*	11200.00	Peak	H	140	249	-66.77	17.61	0.00	57.84	73.98	-16.14
					16800.00	Peak	H	-	-	-71.77	24.98	0.00	60.21	68.20	-7.99
				*	22400.00	Average	H	-	-	-66.61	3.58	-9.54	34.42	53.98	-19.56
				*	22400.00	Peak	H	-	-	-55.55	3.58	-9.54	45.49	73.98	-28.49
					28000.00	Peak	H	-	-	-56.51	4.52	-9.54	45.47	68.20	-22.73
					7840.00	Peak	H	150	59	-61.15	13.56	0.00	59.41	68.20	-8.79
	144	5720	61	*	11440.00	Average	H	136	243	-80.52	18.15	0.00	44.63	53.98	-9.35
				*	11440.00	Peak	H	136	243	-69.17	18.15	0.00	55.98	73.98	-18.00
					17160.00	Peak	H	-	-	-71.09	25.10	0.00	61.01	68.20	-7.19
				*	22880.00	Average	H	-	-	-66.73	3.76	-9.54	34.49	53.98	-19.49
				*	22880.00	Peak	H	-	-	-55.89	3.76	-9.54	45.33	73.98	-28.65
					28600.00	Peak	H	-	-	-56.76	4.96	-9.54	45.67	68.20	-22.53
				*	8008.00	Average	H	159	57	-78.56	12.76	0.00	41.20	53.98	-12.78
				*	8008.00	Peak	H	159	57	-68.20	12.76	0.00	51.56	73.98	-22.42

Table 7-63. Radiated Measurements MIMO (242 Tones)

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MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII 3

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]
3	149	5745	61	*	11490.00	Average	H	133	253	-81.43	18.28	0.00	43.85	53.98	-10.13
				*	11490.00	Peak	H	133	253	-69.41	18.28	0.00	55.87	73.98	-18.11
					17235.00	Peak	H	-	-	-70.88	25.51	0.00	61.63	68.20	-6.57
				*	22980.00	Average	H	-	-	-67.30	3.66	-9.54	33.82	53.98	-20.16
				*	22980.00	Peak	H	-	-	-56.32	3.66	-9.54	44.80	73.98	-29.18
					28725.00	Peak	H	-	-	-56.56	5.05	-9.54	45.95	68.20	-22.25
				*	8044.00	Average	H	166	59	-79.93	12.61	0.00	39.68	53.98	-14.30
				*	8044.00	Peak	H	166	59	-68.73	12.61	0.00	50.88	73.98	-23.10
	157	5785	61	*	11570.00	Average	H	148	243	-80.34	18.16	0.00	44.82	53.98	-9.16
				*	11570.00	Peak	H	148	243	-68.85	18.16	0.00	56.31	73.98	-17.67
					17355.00	Peak	H	-	-	-71.21	26.74	0.00	62.53	68.20	-5.67
					23140.00	Peak	H	-	-	-55.00	3.65	-9.54	46.12	68.20	-22.08
					28925.00	Peak	H	-	-	-56.28	4.92	-9.54	46.09	68.20	-22.11
	165	5825	61	*	11650.00	Average	H	113	241	-80.44	18.25	0.00	44.81	53.98	-9.17
				*	11650.00	Peak	H	113	241	-69.16	18.25	0.00	56.09	73.98	-17.89
					17475.00	Peak	H	-	-	-71.71	26.50	0.00	61.79	68.20	-6.41
					23300.00	Peak	H	-	-	-56.21	3.55	-9.54	44.80	68.20	-23.40
					29125.00	Peak	H	-	-	-57.12	5.01	-9.54	45.35	68.20	-22.85

Table 7-64. Radiated Measurements MIMO (242 Tones)

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MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII 4

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]
4	169	5845	61	*	11690.00	Average	H	172	21	-78.08	18.65	0.00	47.57	53.98	-6.41
				*	11690.00	Peak	H	172	21	-66.99	18.65	0.00	58.66	73.98	-15.32
					17535.00	Peak	H	-	-	-71.70	26.34	0.00	61.64	68.20	-6.56
					23380.00	Peak	H	-	-	-55.99	3.53	-9.54	45.00	68.20	-23.20
					29225.00	Peak	H	-	-	-56.75	5.04	-9.54	45.75	68.20	-22.45
					35070.00	Peak	H	-	-	-56.53	7.60	-9.54	48.53	68.20	-19.67
	173	5865	61	*	11730.00	Average	H	159	25	-76.81	18.20	0.00	48.39	53.98	-5.59
				*	11730.00	Peak	H	159	25	-65.18	18.20	0.00	60.02	73.98	-13.96
					17595.00	Peak	H	-	-	-72.01	26.29	0.00	61.28	68.20	-6.92
					23460.00	Peak	H	-	-	-55.47	3.57	-9.54	45.57	68.20	-22.63
					29325.00	Peak	H	-	-	-55.42	5.14	-9.54	47.18	68.20	-21.02
					35190.00	Peak	H	-	-	-56.66	7.80	-9.54	48.60	68.20	-19.60
	177	5885	61	*	11770.00	Average	H	137	23	-77.06	18.48	0.00	48.42	53.98	-5.56
				*	11770.00	Peak	H	137	23	-65.87	18.48	0.00	59.61	73.98	-14.37
					17655.00	Peak	H	-	-	-72.10	26.16	0.00	61.06	68.20	-7.14
					23540.00	Peak	H	-	-	-56.18	3.57	-9.54	44.86	68.20	-23.34
					29425.00	Peak	H	-	-	-56.72	5.13	-9.54	45.87	68.20	-22.33
					35310.00	Peak	H	-	-	-57.22	7.91	-9.54	48.15	68.20	-20.05

Table 7-65. Radiated Measurements MIMO (242 Tones)

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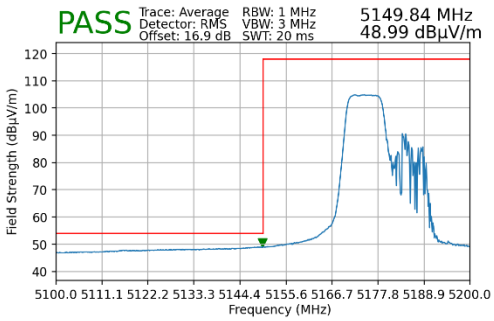
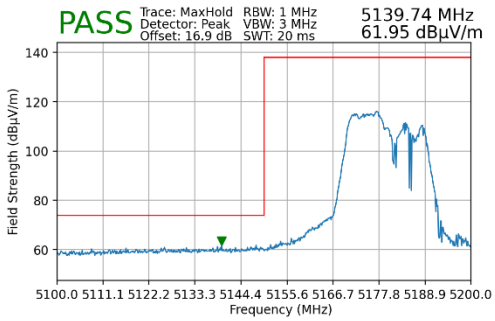
7.6.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

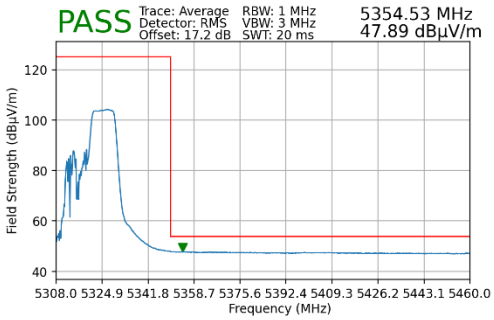


Plot 7-135. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106 Tones)

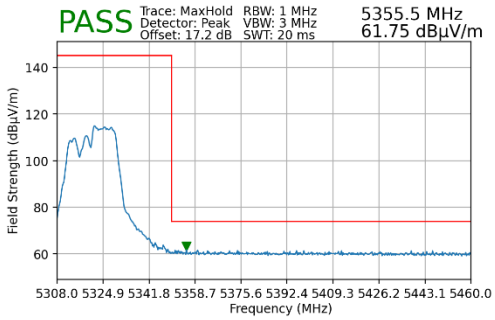


Plot 7-136. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-137. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106 Tones)



Plot 7-138. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)

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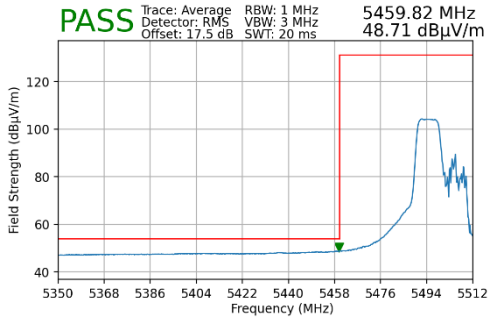
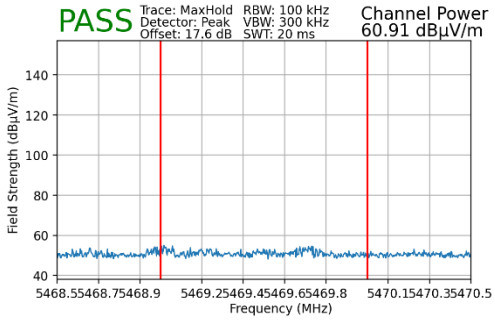
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

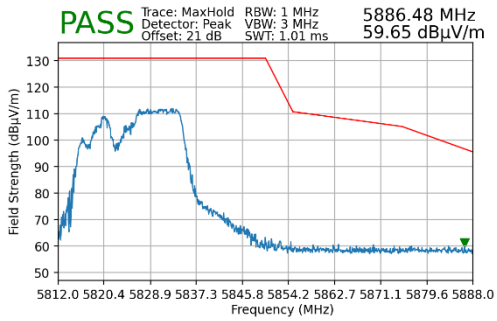


Plot 7-139. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 106 Tones)



Plot 7-140. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-141. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 106 Tones)

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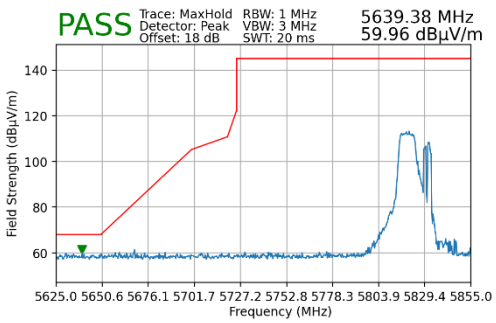
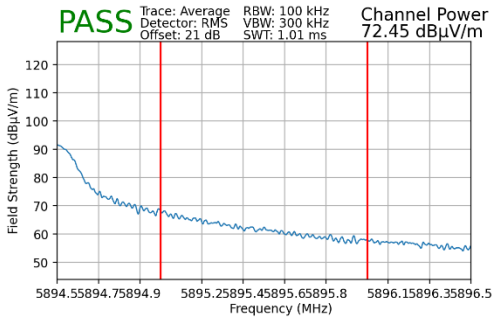
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5845MHz
Channel:	169

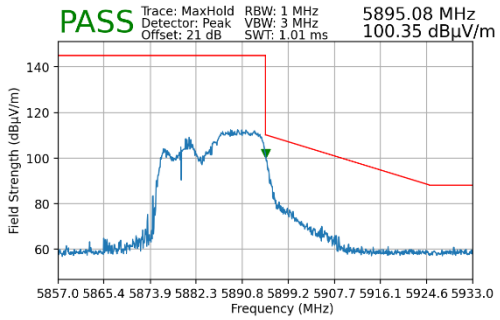


Plot 7-142. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177



Plot 7-143. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 106 Tones)



Plot 7-144. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 106 Tones)

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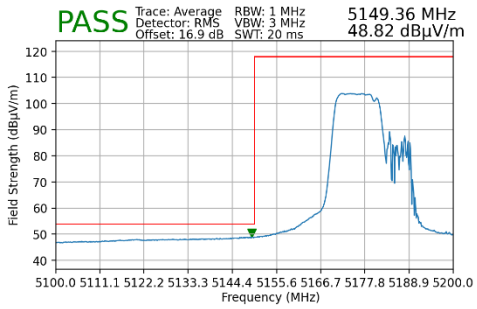
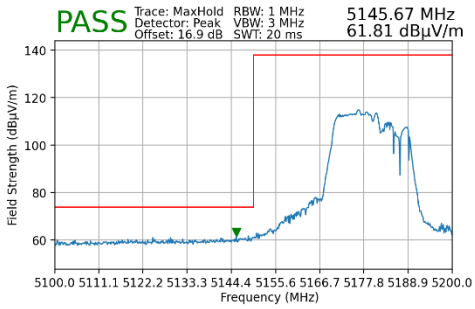
7.6.4 MIMO Radiated Band Edge Measurements (20MHz BW – MRU – 106+26T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	82
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

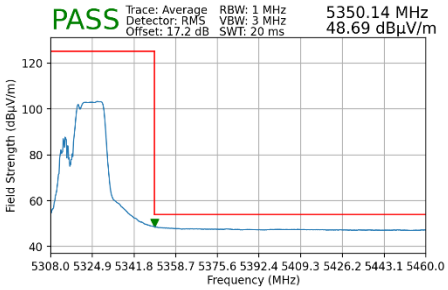


Plot 7-145. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106+26 Tones)

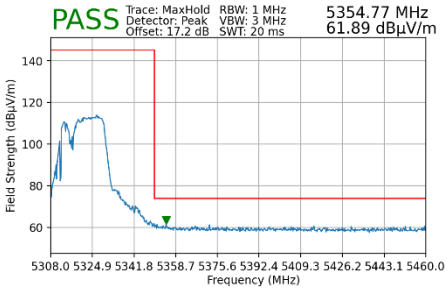


Plot 7-146. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 106+26 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	83
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-147. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106+26 Tones)



Plot 7-148. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106+26 Tones)

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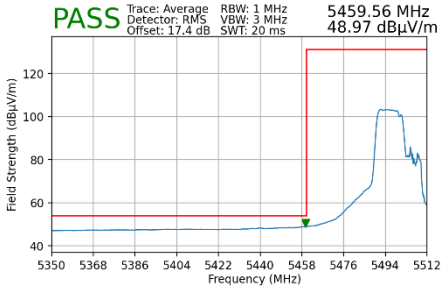
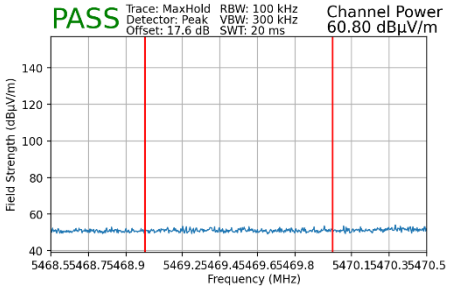
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	82
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

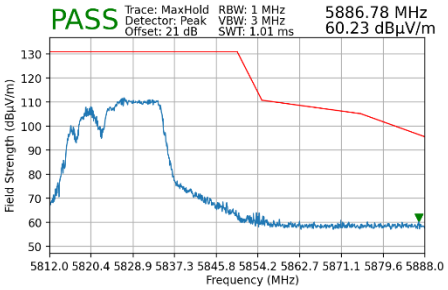


Plot 7-149. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 106+26 Tones)



Plot 7-150. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106+26 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	83
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-151. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 106+26 Tones)

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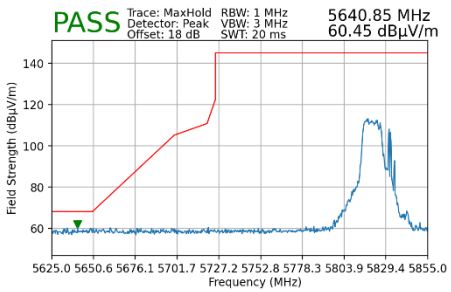
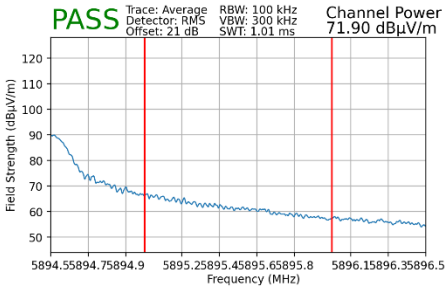
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	82
Distance of Measurements:	3 Meters
Operating Frequency:	5845MHz
Channel:	169

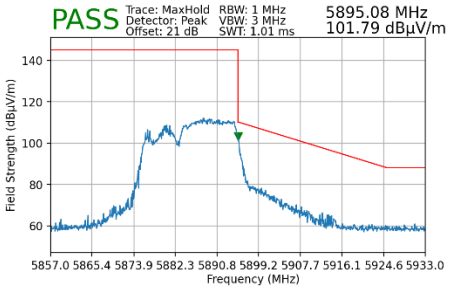


Plot 7-152. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 106+26 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	83
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177



Plot 7-153. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 106+26 Tones)



Plot 7-154. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 106+26 Tones)

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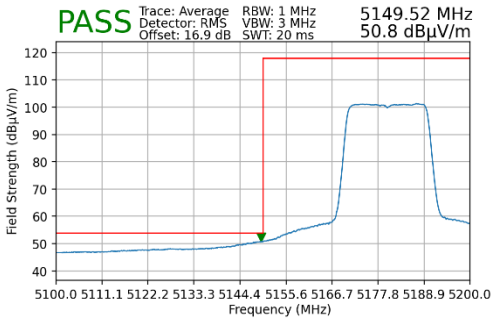
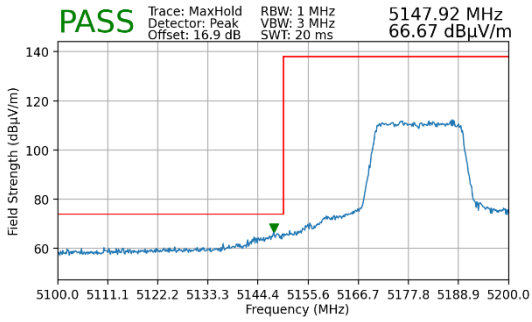
7.6.5 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

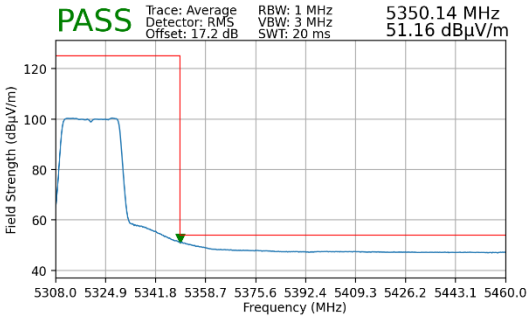


Plot 7-155. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

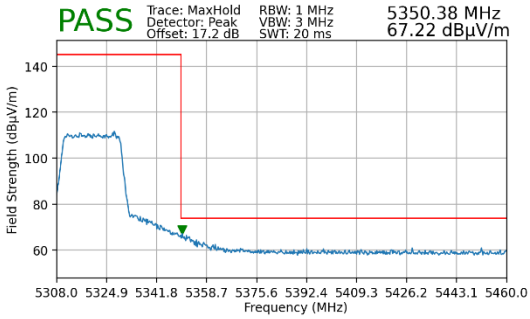


Plot 7-156. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-157. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



Plot 7-158. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

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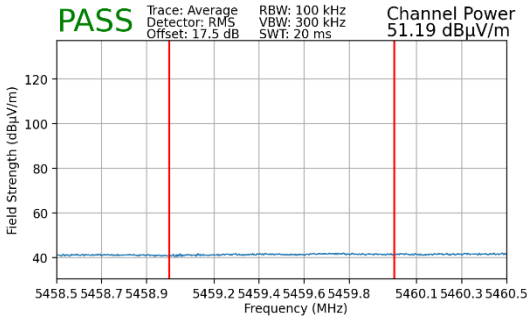
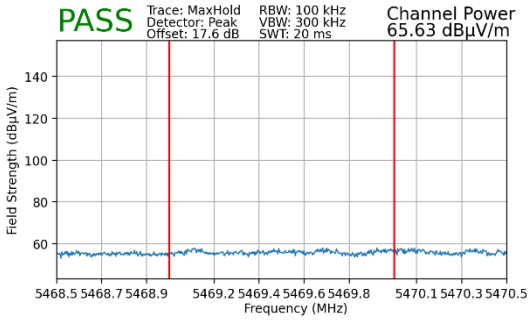
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

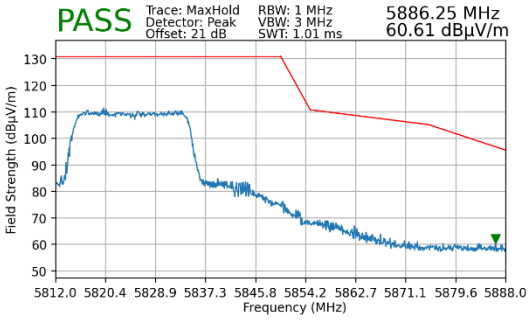


Plot 7-159. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-160. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-161. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

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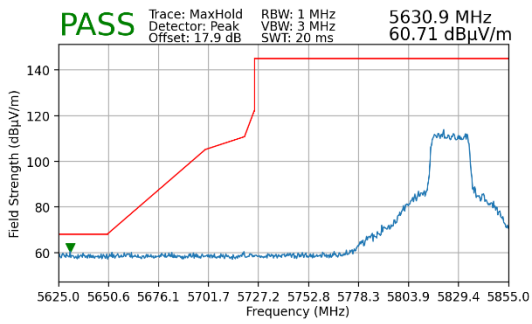
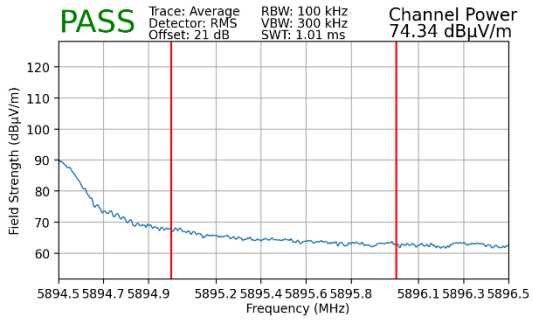
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5845MHz
Channel:	169

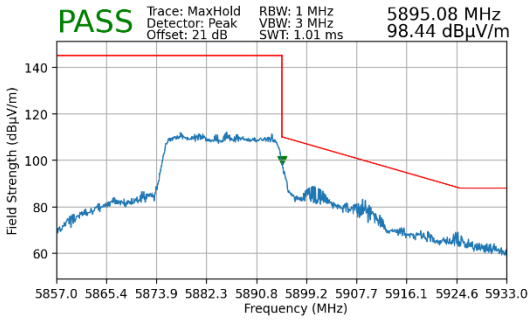


Plot 7-162. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177



Plot 7-163. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 242 Tones)



Plot 7-164. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 242 Tones)

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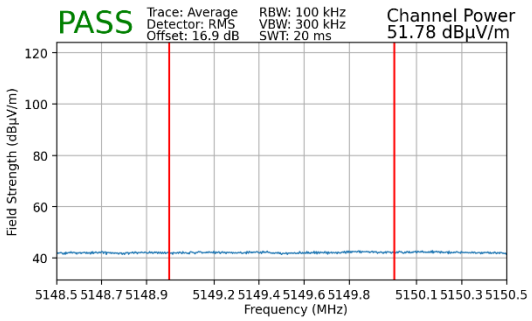
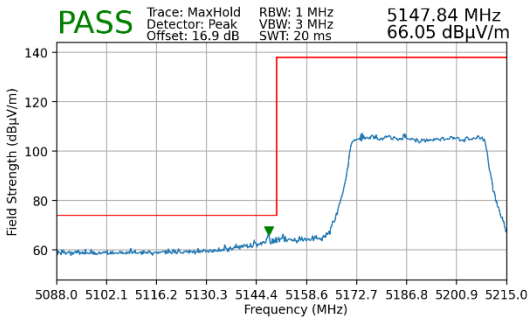
7.6.6 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

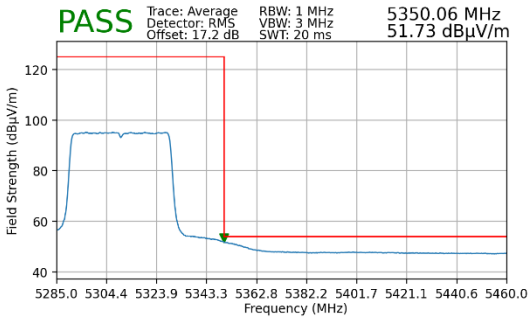


Plot 7-165. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

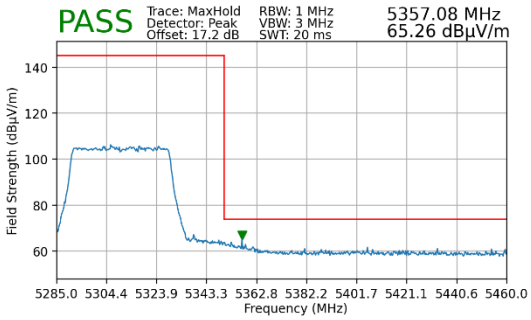


Plot 7-166. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-167. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)



Plot 7-168. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

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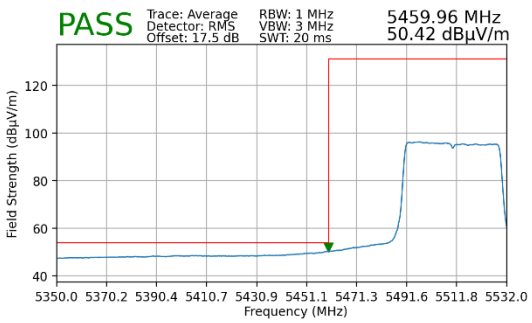
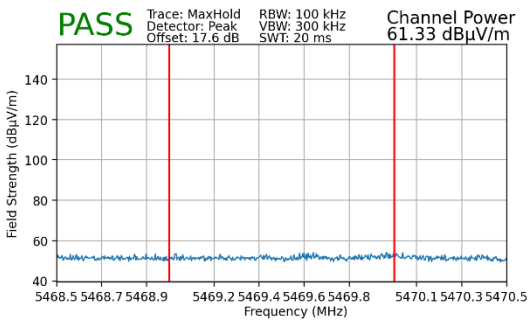
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

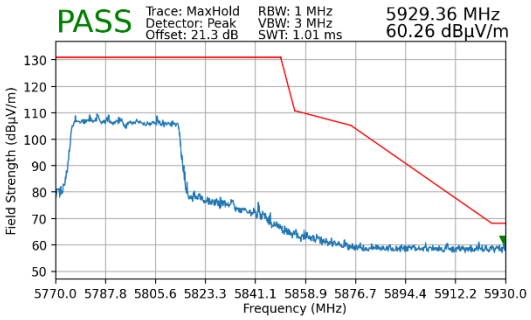


Plot 7-169. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-170. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-171. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

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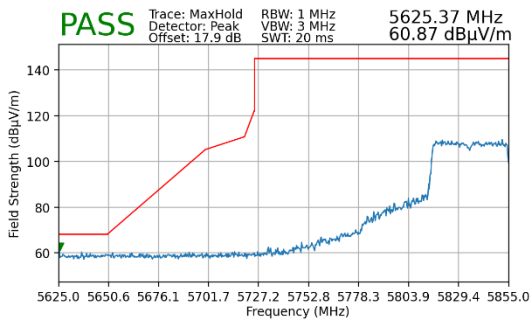
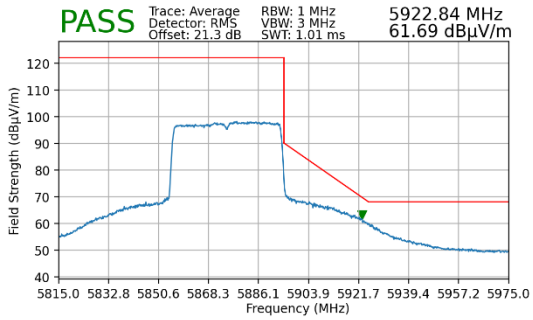
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5835MHz
Channel:	167

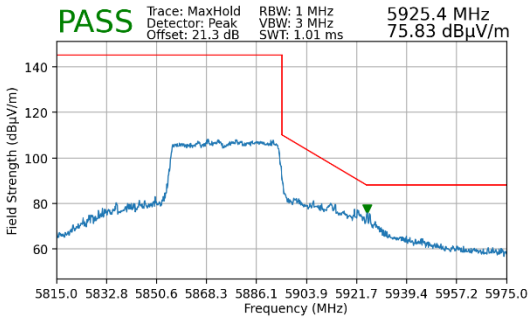


Plot 7-172. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5875MHz
Channel:	175



Plot 7-173. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 484 Tones)



Plot 7-174. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 484 Tones)

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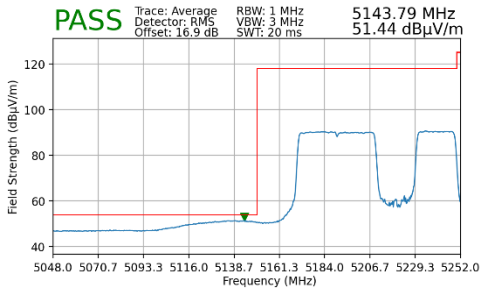
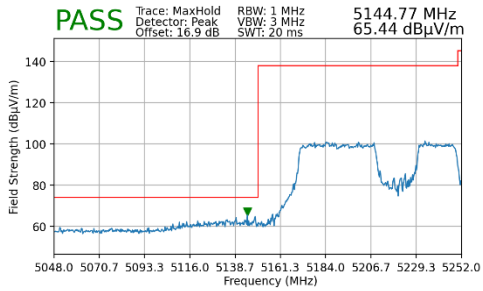
7.6.7 MIMO Radiated Band Edge Measurements (80MHz BW – MRU – 484+242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	92
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

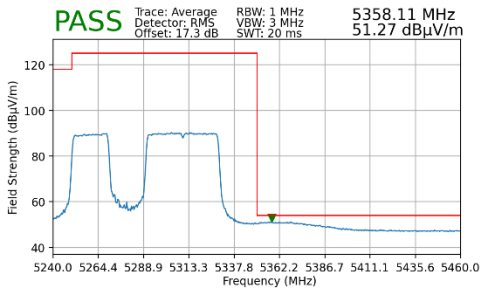


Plot 7-175. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484+242 Tones)

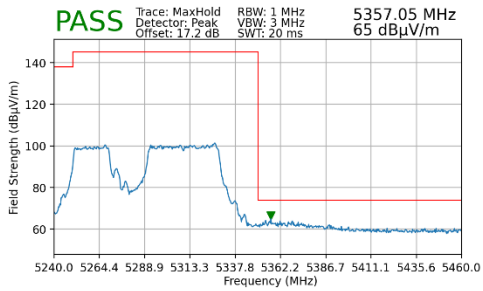


Plot 7-176. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484+242 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCs0
RU Index:	91
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-177. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484+242 Tones)



Plot 7-178. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484+242 Tones)

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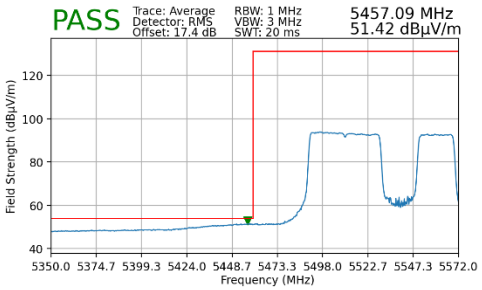
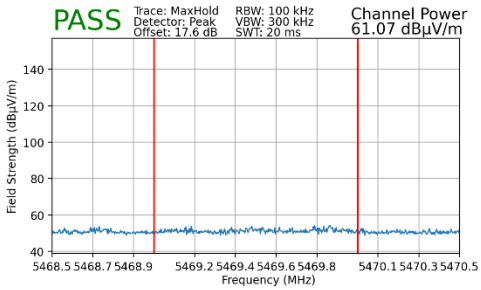
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	92
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

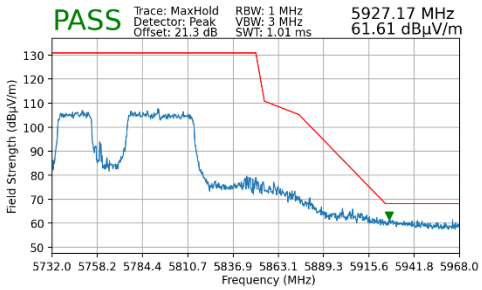


Plot 7-179. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484+242 Tones)



Plot 7-180. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484+242 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	91
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-181. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484+242 Tones)

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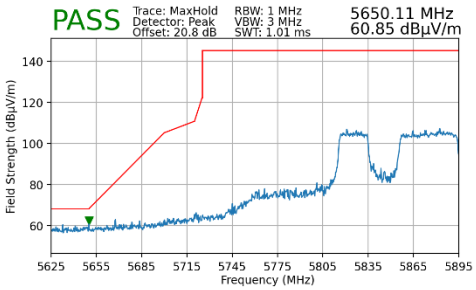
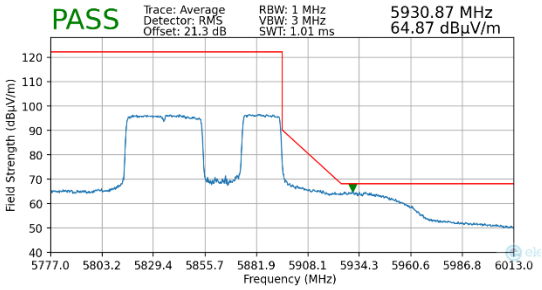
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	91
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171

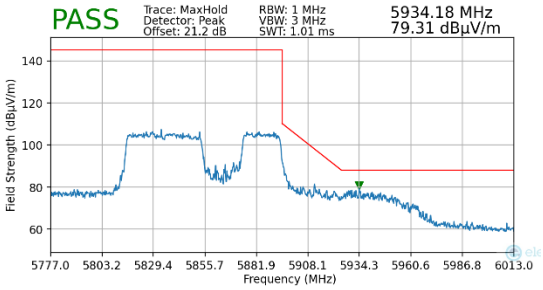


Plot 7-182. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 484+242 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	92
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171



Plot 7-183. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 484+242 Tones)



Plot 7-184. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 484+242 Tones)

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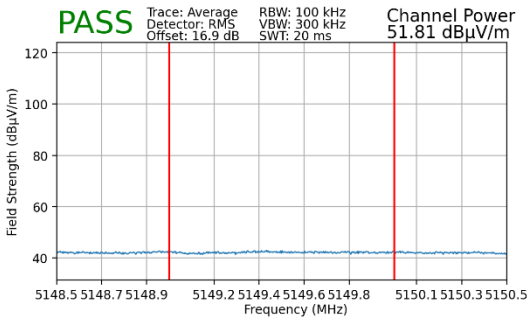
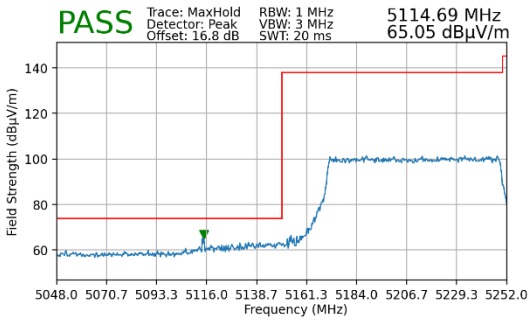
7.6.8 MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

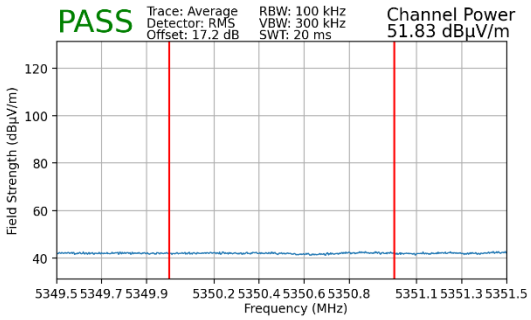


Plot 7-185. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)

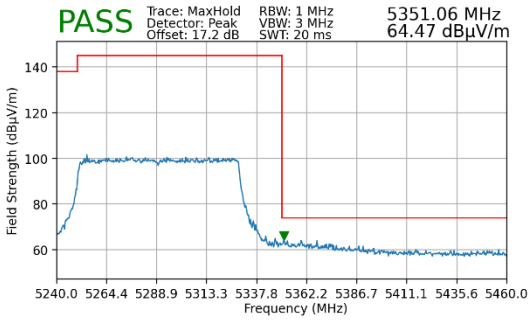


Plot 7-186. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-187. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)



Plot 7-188. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

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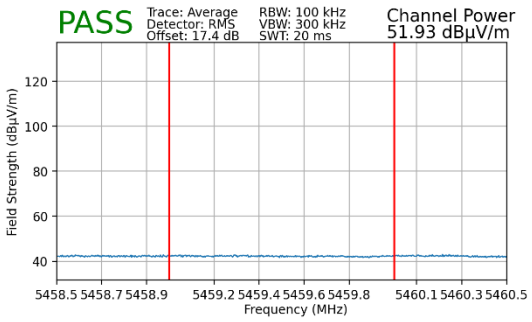
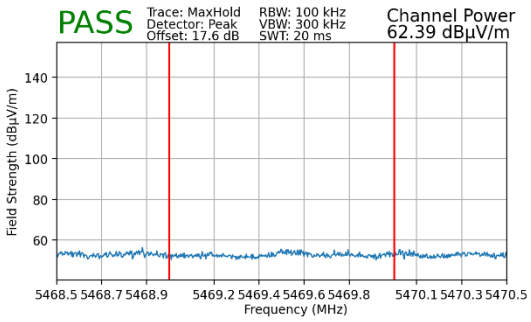
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

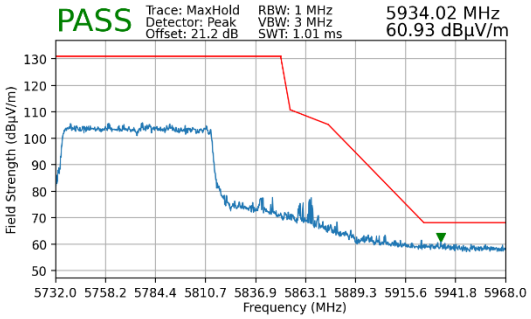


Plot 7-189. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-190. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-191. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

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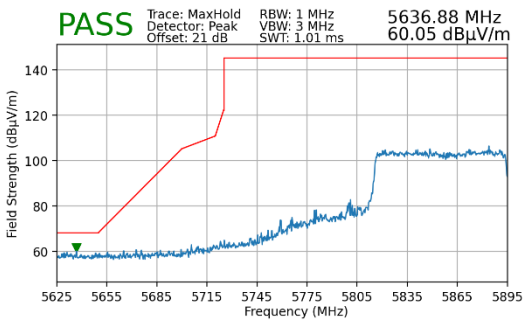
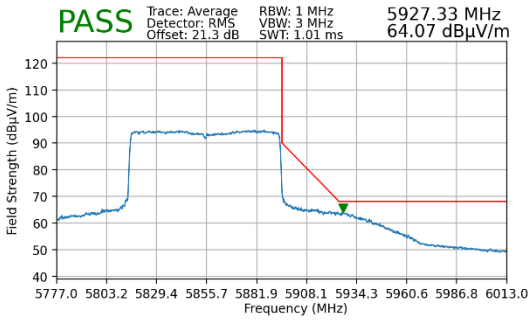
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171

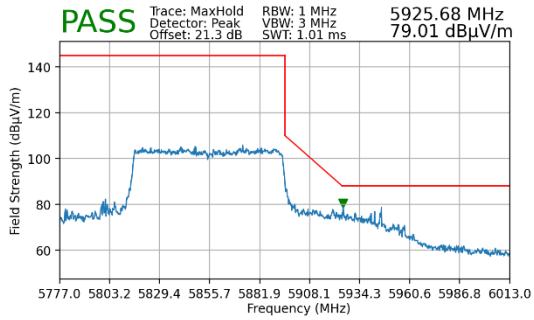


Plot 7-192. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171



Plot 7-193. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 996 Tones)



Plot 7-194. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 996 Tones)

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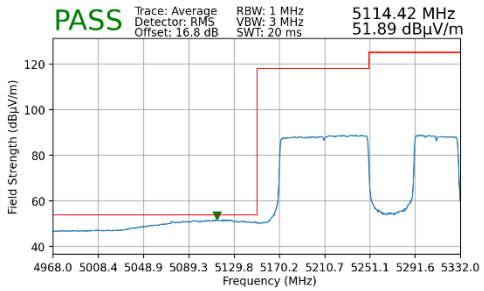
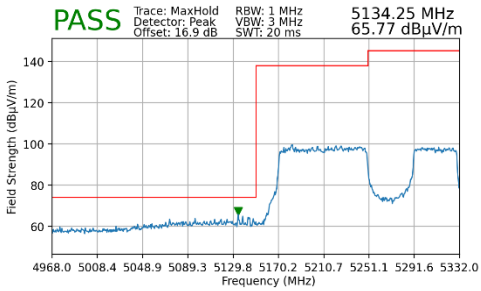
7.6.9 MIMO Radiated Band Edge Measurements (160MHz BW – MRU – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	1094
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

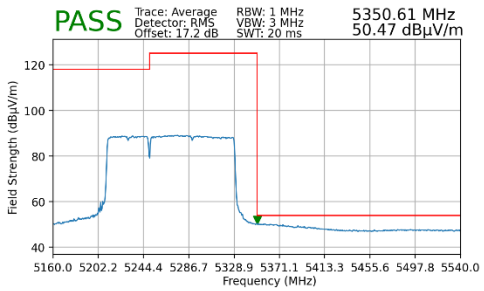


Plot 7-195. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996+484 Tones)

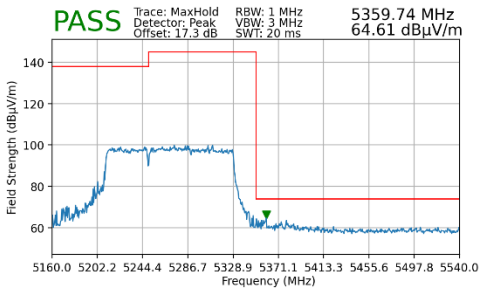


Plot 7-196. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996+484 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	94
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



Plot 7-197. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996+484 Tones)



Plot 7-198. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996+484 Tones)

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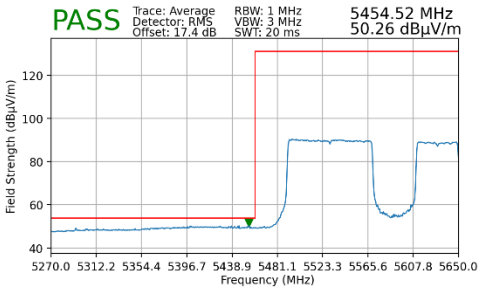
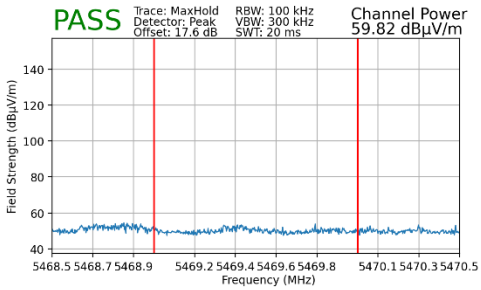
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	1094
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114



Plot 7-199. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996+484 Tones)



Plot 7-200. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996+484 Tones)

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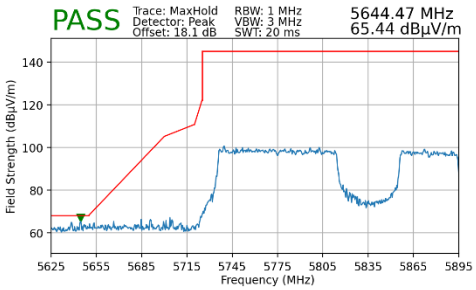
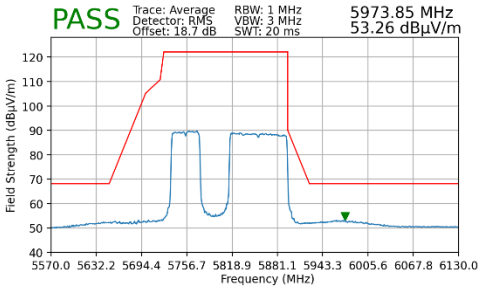
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	1094
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163

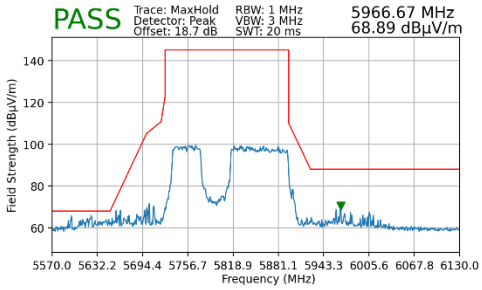


Plot 7-201. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 996+484 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	95
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



Plot 7-202. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 996+484 Tones)



Plot 7-203. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 996+484 Tones)

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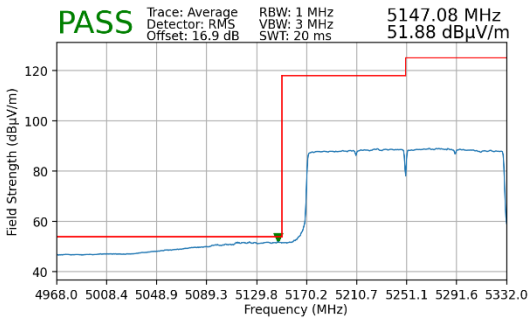
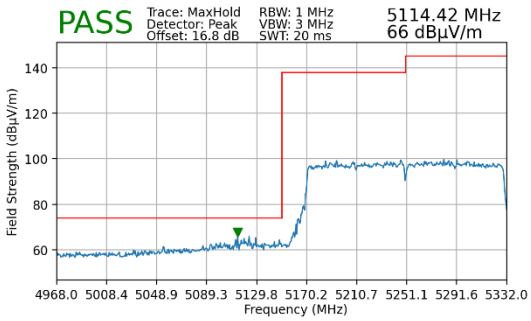
7.6.10 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

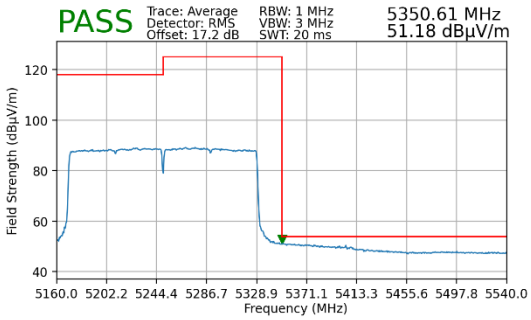


Plot 7-204. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 2x996 Tones)

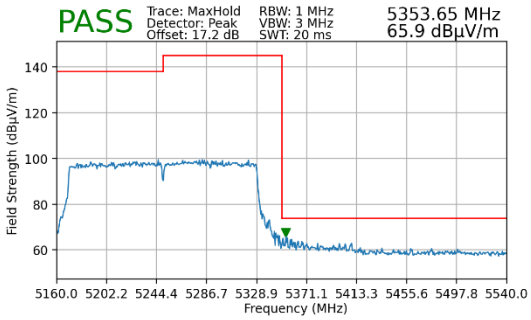


Plot 7-205. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 2x996 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



Plot 7-206. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 2x996 Tones)



Plot 7-207. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 2x996 Tones)

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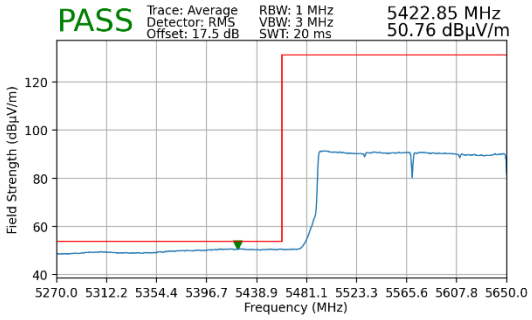
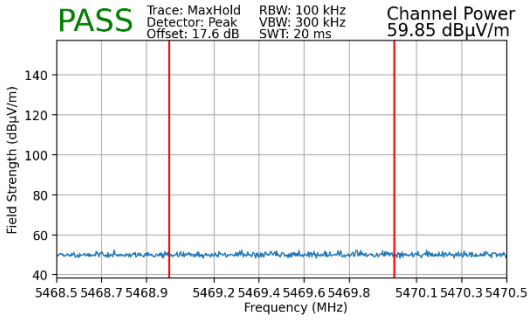
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114



Plot 7-208. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 2x996 Tones)



Plot 7-209. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 2x996 Tones)

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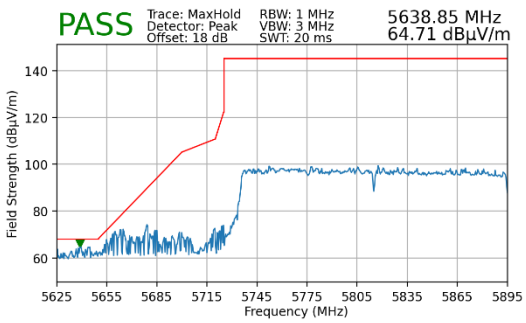
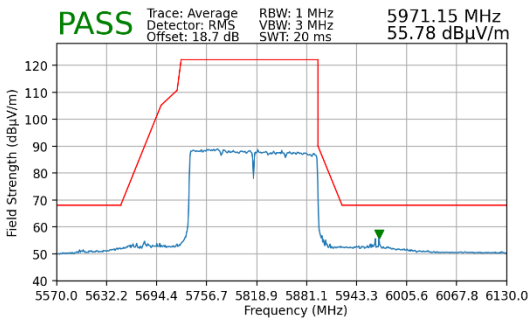
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163

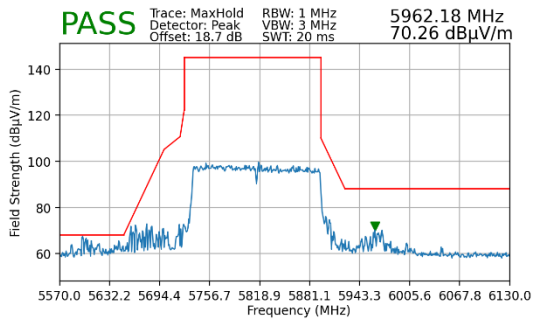


Plot 7-210. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 2x996 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



Plot 7-211. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 2x996 Tones)



Plot 7-212. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 2x996 Tones)

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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: A3LSMF966B** is in compliance with FCC Part Subpart E (15.407) of the FCC rules.

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9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

Overview

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

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2013.

Notes

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

Conducted Spot-Checks – SM-F966B

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm) RU Index 61			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
1	5200	40	242T	17.99	17.92	20.97	23.98	-3.01
2A	5280	56	242T	17.86	17.66	20.77	23.98	-3.21
2C	5600	120	242T	17.54	17.99	20.78	23.98	-3.20
3	5785	157	242T	17.36	17.99	20.70	30	-9.30
4	5865	173	242T	17.63	17.86	20.76	-	-

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

Radiated Spot-Checks – SM-F966B

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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
802.11ax RU 26T	ANT1	4	177	5885	4	*	11770.00	Average	H	130	25	-79.41	18.48	46.07	53.98	-7.91
						*	11770.00	Peak	H	137	23	-64.90	18.48	60.58	73.98	-13.40

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

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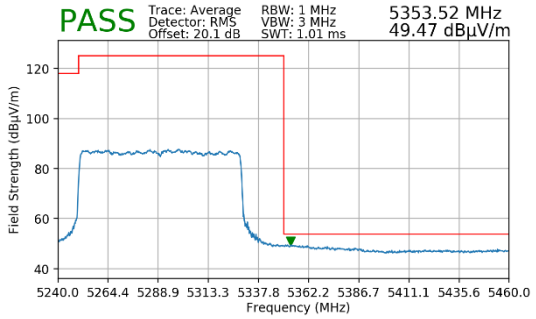
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 9-1. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-F966U	Variant Model: SM-F966B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
2.1046, 15.407(a)(8)	Conducted Output Power	Mid Channel Each UNII Band - 802.11be 242T	dBm	N/A	20.52	20.97	0.45	1	PASS
15.209, 15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4)	Radiated Spurious Emissions	802.11ax MIMO 26 Tone Ch.177- 11770 MHz - Average	dBm	53.98	46.97	46.07	-0.90	3	PASS
15.209	Radiated Band Edge Emissions	802.11be MIMO 996T Ch.58 - Average	dBm	53.98	51.83	49.47	-2.36	3	PASS

Table 9-3. Summary of Spot-checks

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