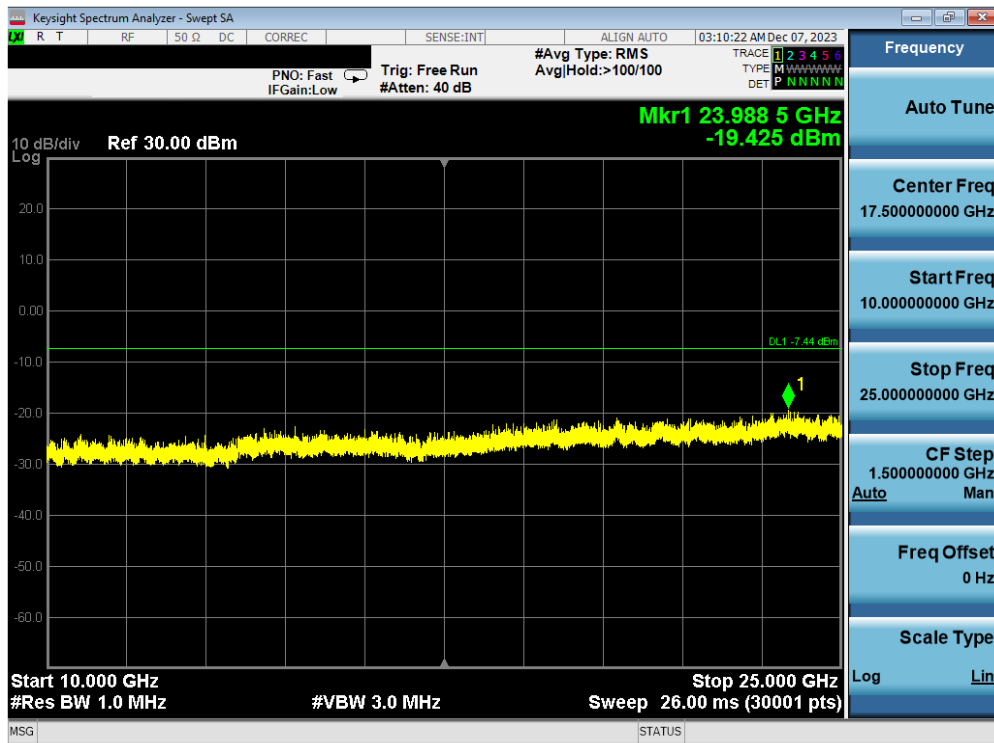
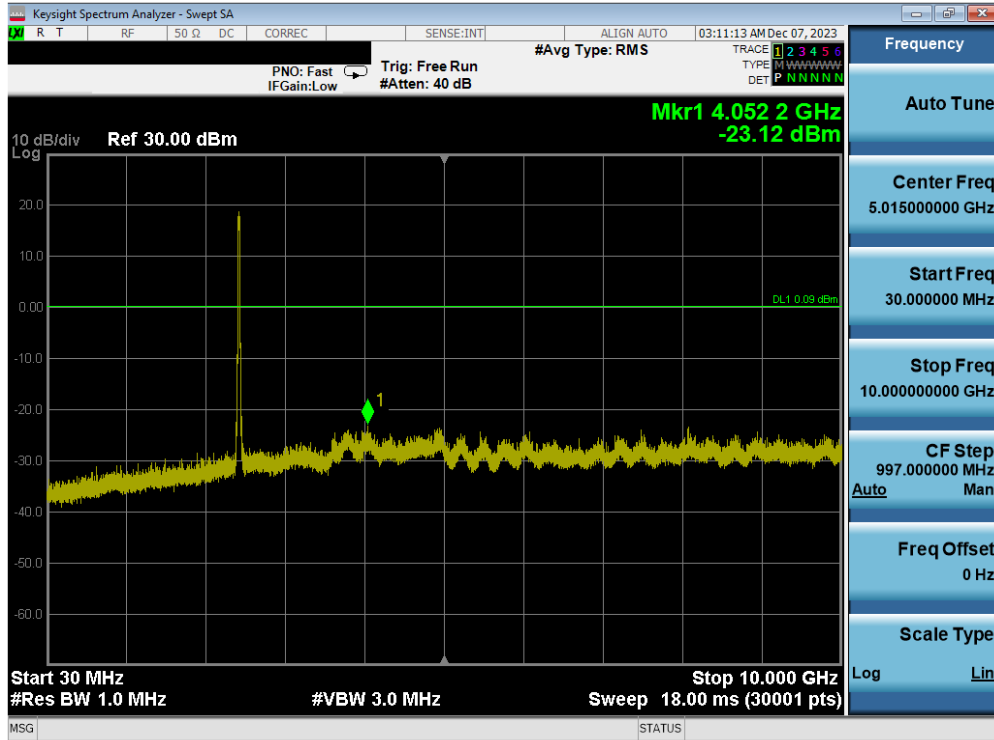


Plot 7-123. Conducted Spurious Plot Antenna 1a (802.11ax OFDMA – RU242 – Ch. 1)

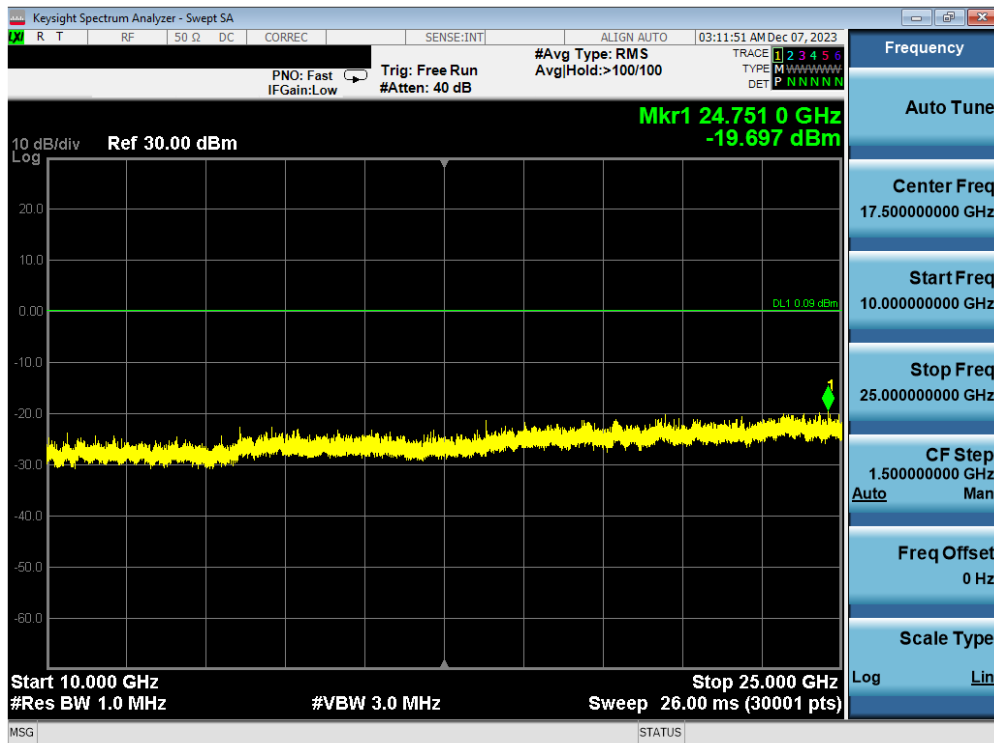


Plot 7-124. Conducted Spurious Plot Antenna 1a (802.11ax OFDMA – RU242 – Ch. 1)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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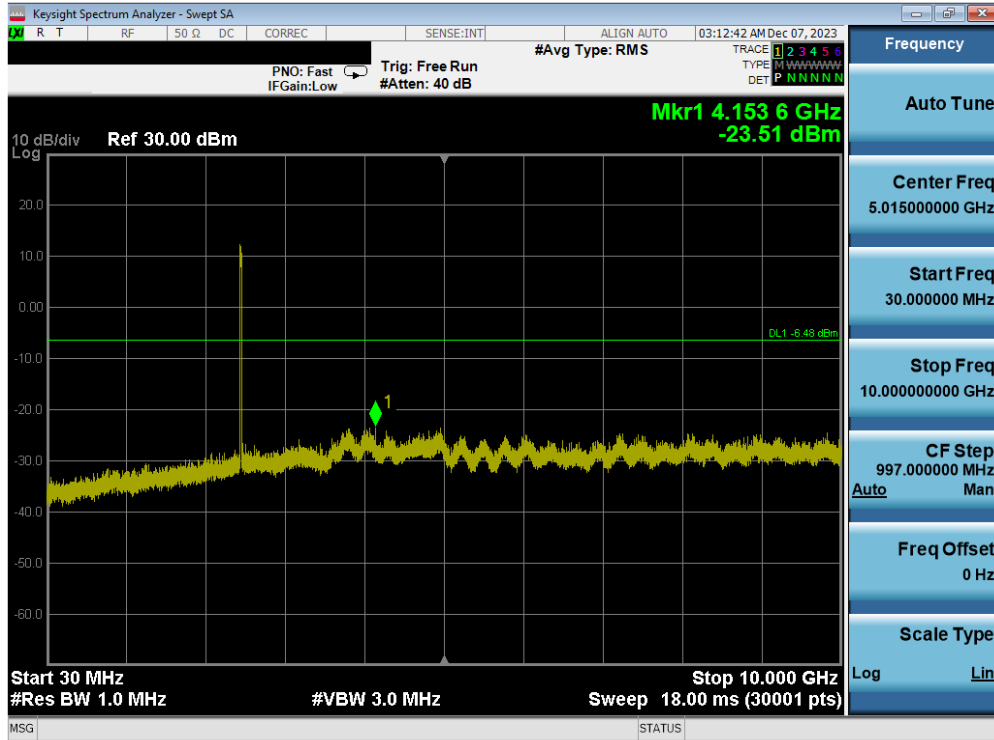


Plot 7-125. Conducted Spurious Plot Antenna 1a (802.11ax OFDMA – RU242 – Ch. 6)

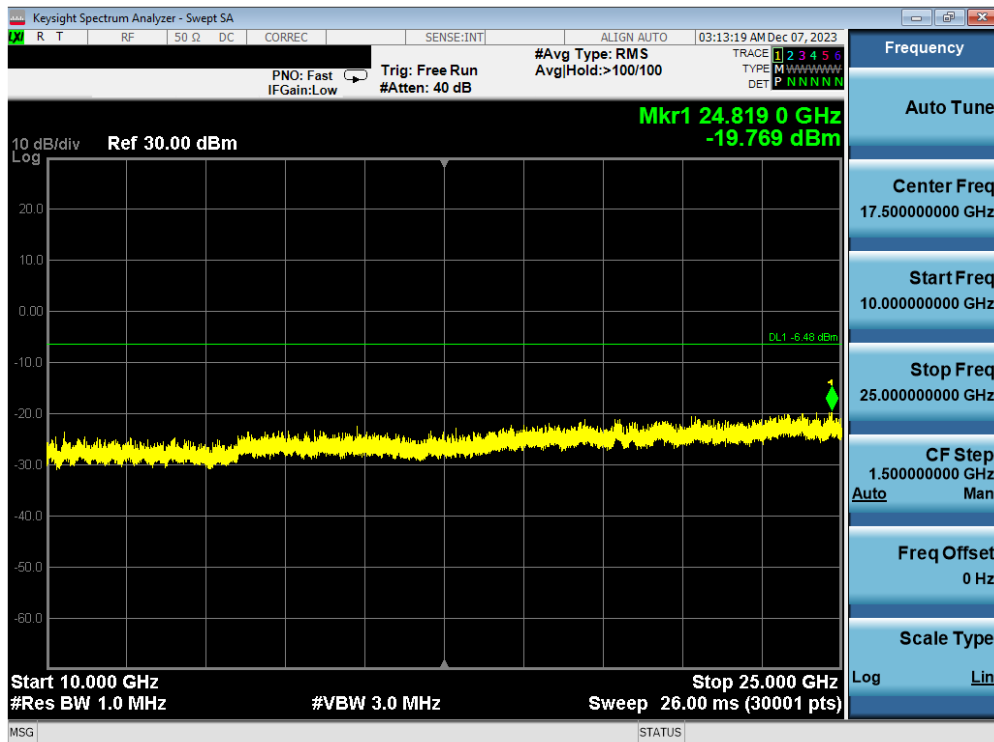


Plot 7-126. Conducted Spurious Plot Antenna 1a (802.11ax OFDMA – RU242 – Ch. 6)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-127. Conducted Spurious Plot Antenna 1a (802.11ax OFDMA – RU242 – Ch. 11)



Plot 7-128. Conducted Spurious Plot Antenna 1a (802.11ax OFDMA – RU242 – Ch. 11)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7 Radiated Spurious Emissions – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-19 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-19. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Subclause 6.6.4.3
KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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

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Test Setup

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

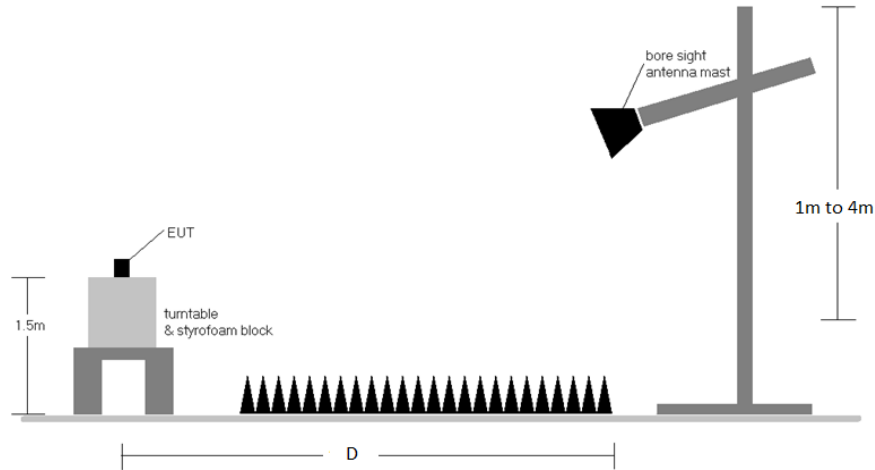


Figure 7-6. Radiated Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All Radiated Spurious Emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-19.
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.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters 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. All data rates were investigated and only the worst case is reported.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all 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 $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

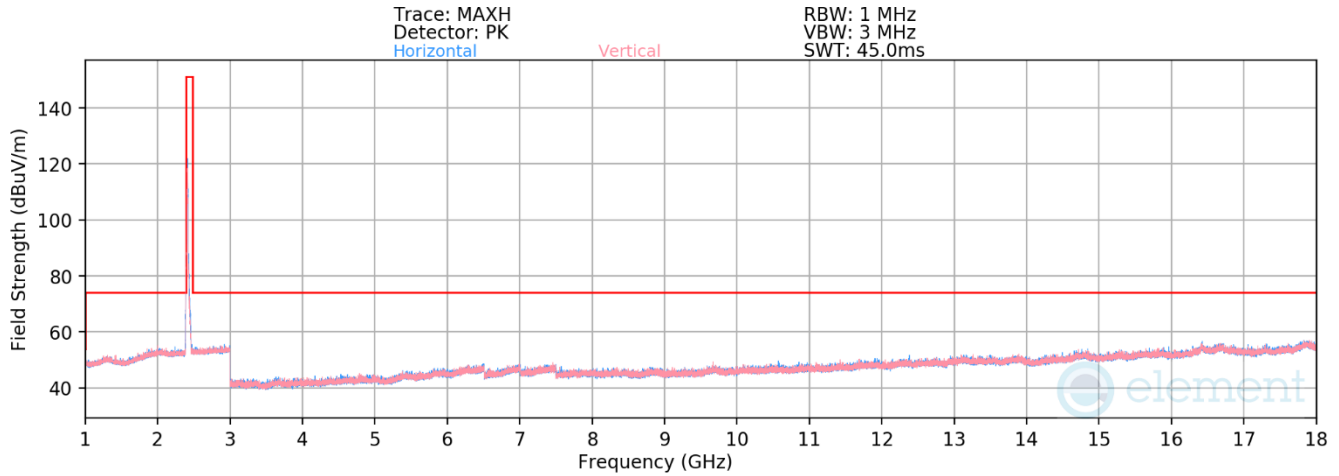
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.4, 7.7.5, and 7.7.6 were calculated using the formula:

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

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7.7.1 Antenna 3a Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



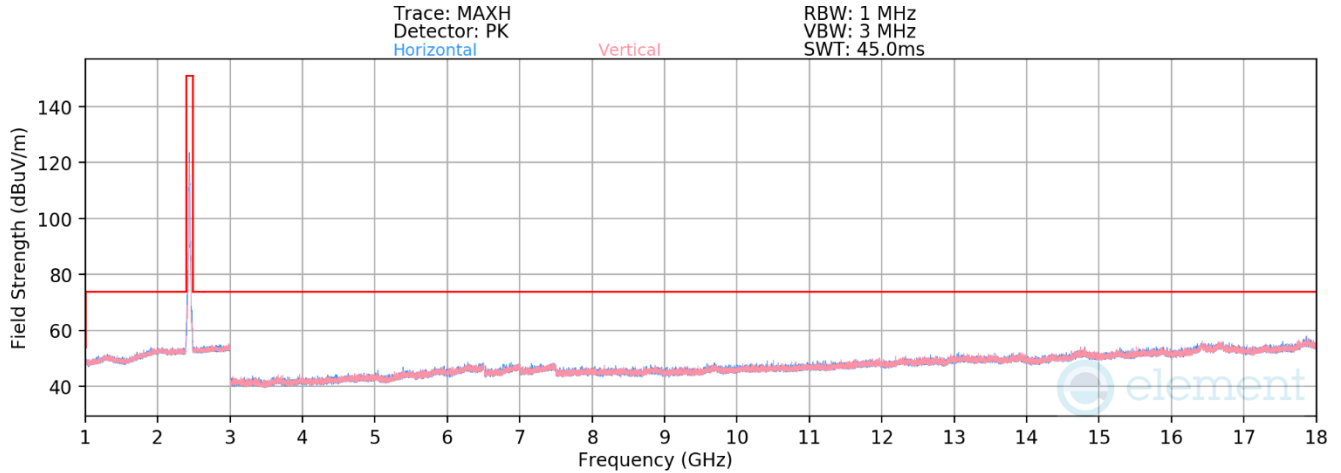
Plot 7-129. Radiated Spurious Emissions above 1GHz Antenna 3a (802.11ax OFDMA – RU26 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	-	-	-	-78.27	4.31	33.04	53.98	-20.94
4824.00	Peak	-	-	-	-66.23	4.41	45.18	73.98	-28.80
12060.00	Avg	-	-	-	-81.00	12.93	38.94	53.98	-15.04
12060.00	Peak	-	-	-	-69.78	12.84	50.06	73.98	-23.92

Table 7-20. Radiated Measurements Antenna 3a (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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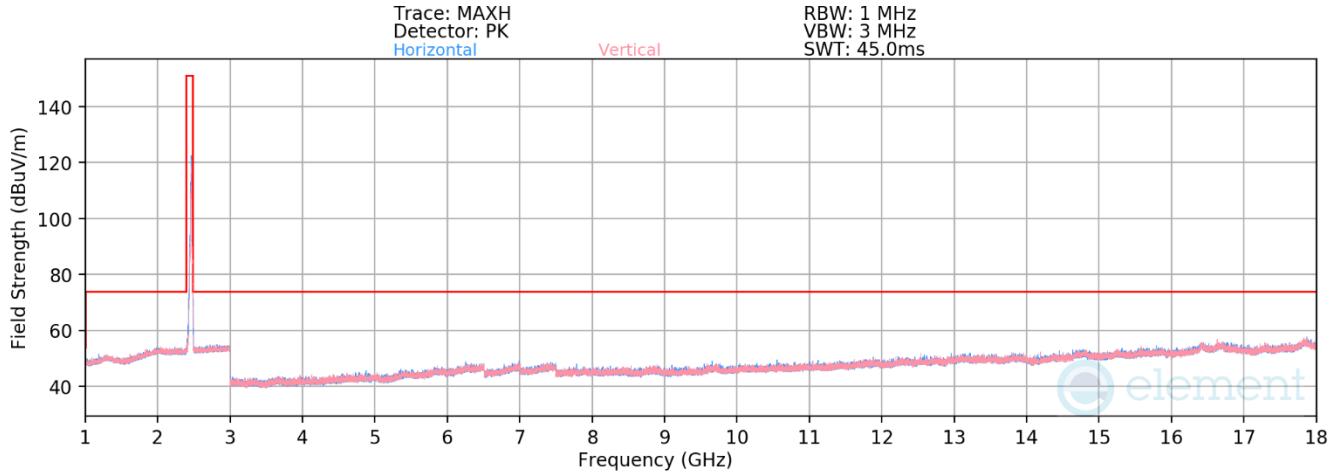
Plot 7-130. Radiated Spurious Emissions above 1GHz Antenna 3a (802.11ax OFDMA – RU26 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	-	-	-	-78.08	4.53	33.45	53.98	-20.53
4874.00	Peak	-	-	-	-66.59	4.53	44.94	73.98	-29.04
7311.00	Avg	-	-	-	-79.32	8.97	36.64	53.98	-17.33
7311.00	Peak	-	-	-	-67.07	8.91	48.84	73.98	-25.14
12185.00	Avg	-	-	-	-81.52	13.77	39.24	53.98	-14.73
12185.00	Peak	-	-	-	-70.09	13.77	50.68	73.98	-23.30

Table 7-21. Radiated Measurements Antenna 3a (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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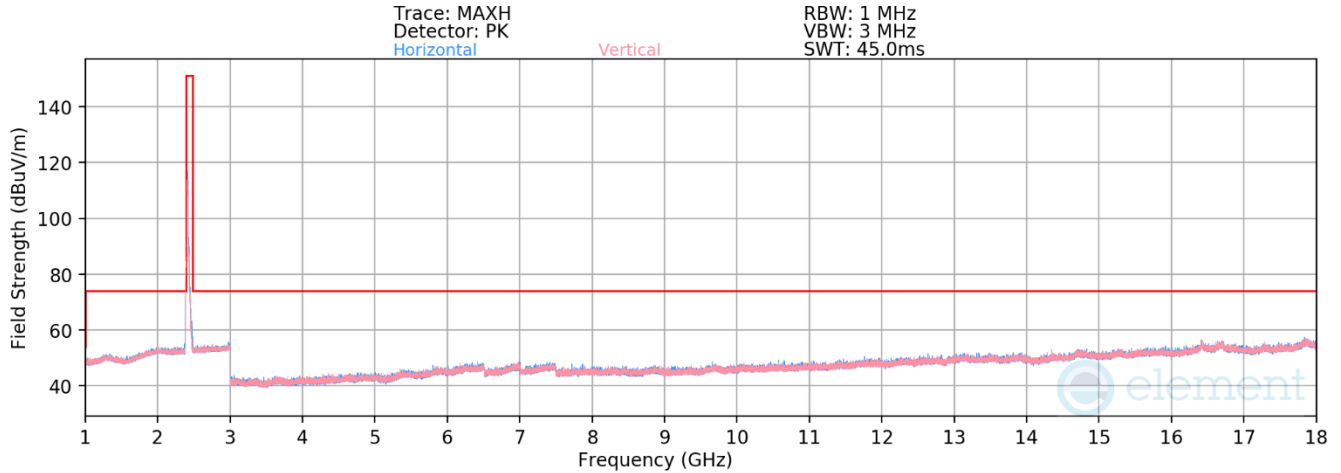
Plot 7-131. Radiated Spurious Emissions above 1GHz Antenna 3a (802.11ax OFDMA – RU26 – Ch. 11)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	-	-	-	-77.84	4.50	33.66	53.98	-20.32
4924.00	Peak	-	-	-	-65.97	4.50	45.53	73.98	-28.45
7386.00	Avg	-	-	-	-79.03	9.04	37.01	53.98	-16.97
7386.00	Peak	-	-	-	-67.53	9.14	48.60	73.98	-25.38
12310.00	Avg	-	-	-	-81.02	13.88	39.86	53.98	-14.12
12310.00	Peak	-	-	-	-69.81	13.88	51.07	73.98	-22.91

Table 7-22. Radiated Measurements Antenna 3a (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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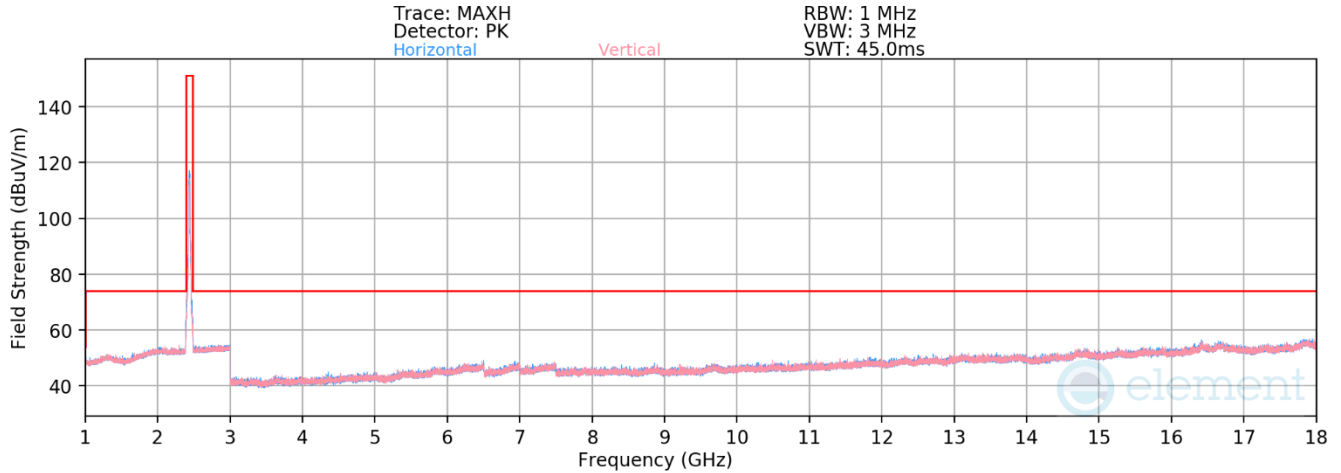
Plot 7-132. Radiated Spurious Emissions above 1GHz Antenna 3a (802.11ax OFDMA – RU242 – Ch. 1)

Worst Case Mode:	<u>802.11ax OFDMA</u>
Worst Case Transfer Rate:	<u>MCS9</u>
RU Index:	<u>61</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2412MHz</u>
Channel:	<u>01</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	-	-	-	-77.71	4.05	33.34	53.98	-20.64
4824.00	Peak	-	-	-	-65.16	4.05	45.89	73.98	-28.09
12060.00	Avg	-	-	-	-81.08	12.88	38.81	53.98	-15.17
12060.00	Peak	-	-	-	-69.46	12.88	50.42	73.98	-23.56

Table 7-23. Radiated Measurements Antenna 3a (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device		Page 103 of 152



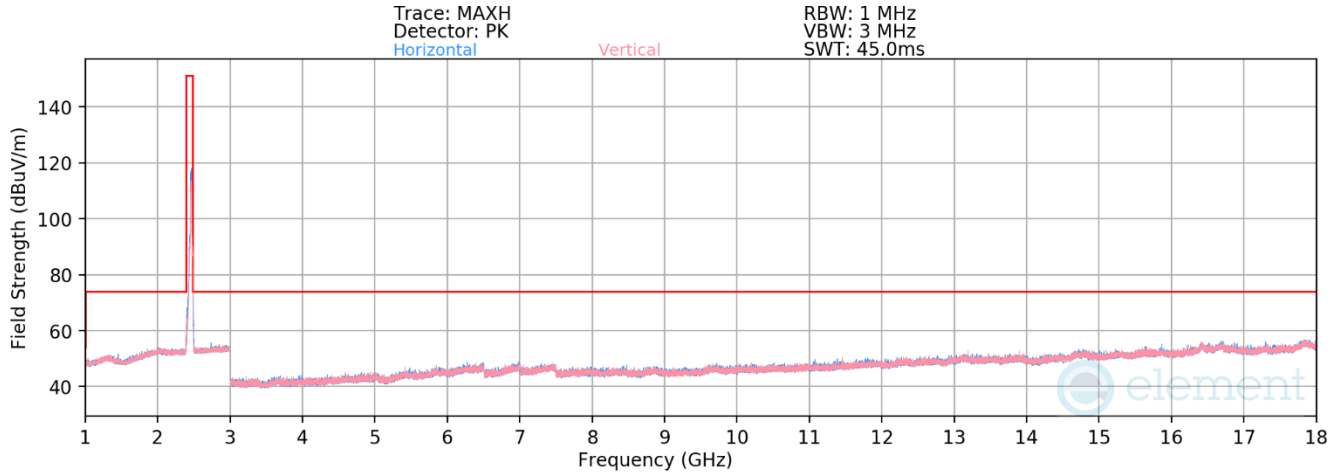
Plot 7-133. Radiated Spurious Emissions above 1GHz Antenna 3a (802.11ax OFDMA – RU242 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	-	-	-	-77.38	4.53	34.15	53.98	-19.83
4874.00	Peak	-	-	-	-66.23	4.53	45.30	73.98	-28.68
7311.00	Avg	-	-	-	-79.24	8.87	36.63	53.98	-17.35
7311.00	Peak	-	-	-	-66.95	8.87	48.92	73.98	-25.06
12185.00	Avg	-	-	-	-81.41	13.92	39.51	53.98	-14.47
12185.00	Peak	-	-	-	-70.15	13.92	50.77	73.98	-23.21

Table 7-24. Radiated Measurements Antenna 3a (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-134. Radiated Spurious Emissions above 1GHz Antenna 3a (802.11ax OFDMA – RU242 – Ch. 11)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

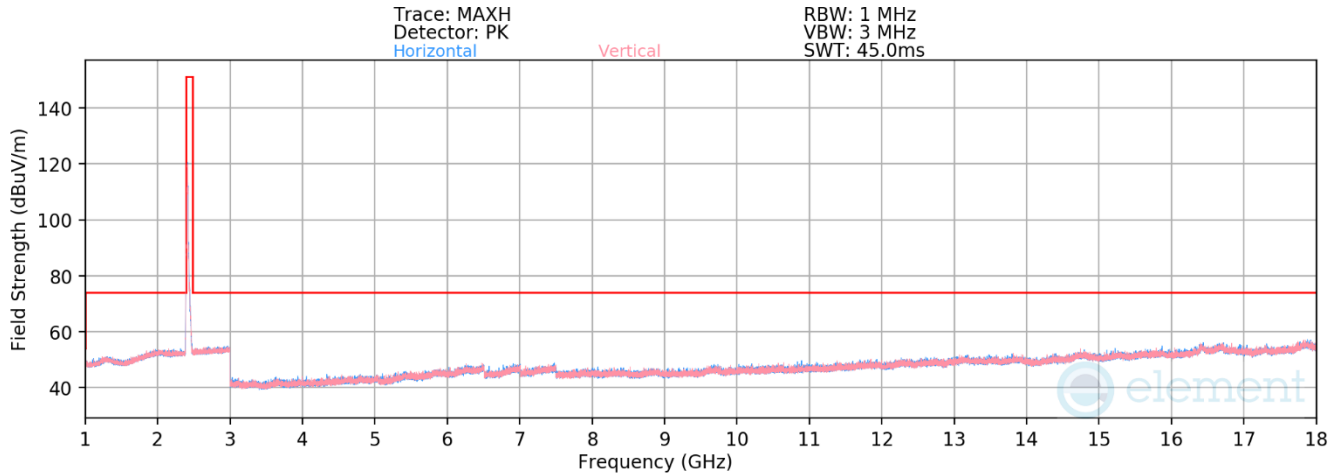
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	-	-	-	-77.80	4.50	33.70	53.98	-20.28
4924.00	Peak	-	-	-	-66.01	4.50	45.49	73.98	-28.49
7386.00	Avg	-	-	-	-79.20	9.14	36.94	53.98	-17.04
7386.00	Peak	-	-	-	-67.69	9.07	48.38	73.98	-25.60
12310.00	Avg	-	-	-	-81.61	13.76	39.15	53.98	-14.83
12310.00	Peak	-	-	-	-69.97	13.80	50.83	73.98	-23.15

Table 7-25. Radiated Measurements Antenna 3a (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7.2 Antenna 1a Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



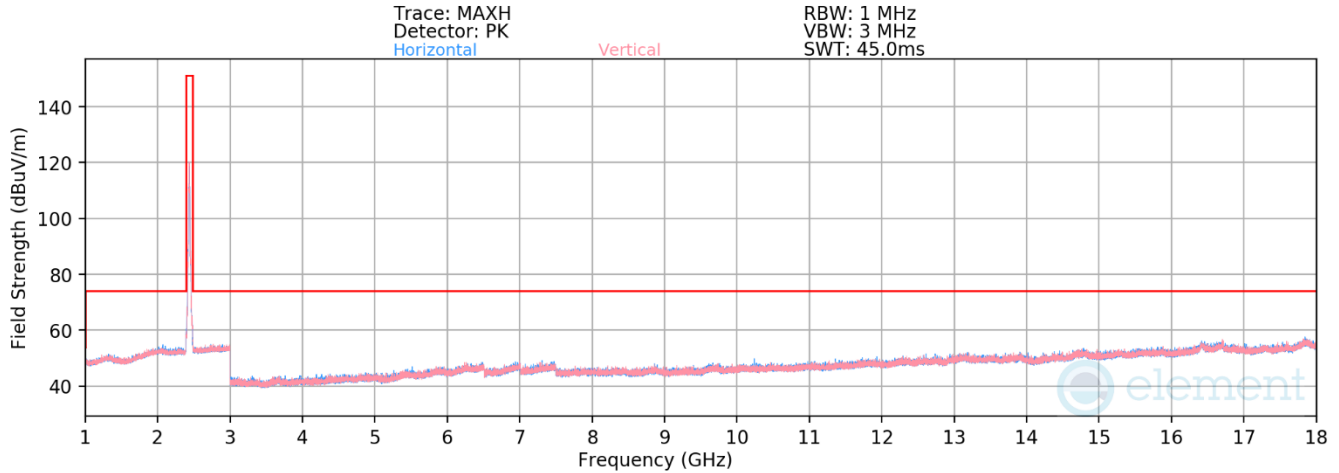
Plot 7-135. Radiated Spurious Emissions above 1GHz Antenna 1a (802.11ax OFDMA – RU26 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	-	-	-	-78.16	4.31	33.15	53.98	-20.83
4824.00	Peak	-	-	-	-66.55	4.31	44.76	73.98	-29.22
12060.00	Avg	-	-	-	-81.22	12.93	38.71	53.98	-15.27
12060.00	Peak	-	-	-	-69.77	12.93	50.16	73.98	-23.82

Table 7-26. Radiated Measurements Antenna 1a (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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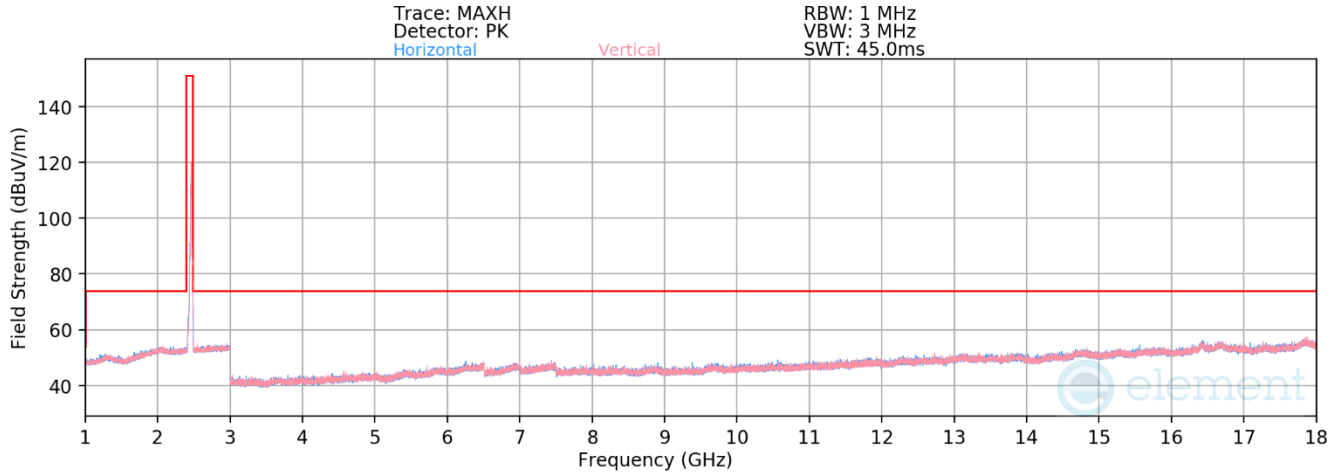
Plot 7-136. Radiated Spurious Emissions above 1GHz Antenna 1a (802.11ax OFDMA – RU26 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	-	-	-	-78.17	4.53	33.36	53.98	-20.62
4874.00	Peak	-	-	-	-66.67	4.56	44.89	73.98	-29.09
7311.00	Avg	-	-	-	-79.36	8.97	36.61	53.98	-17.37
7311.00	Peak	-	-	-	-67.91	8.91	48.00	73.98	-25.98
12185.00	Avg	-	-	-	-81.36	13.77	39.40	53.98	-14.58
12185.00	Peak	-	-	-	-69.77	13.77	51.00	73.98	-22.98

Table 7-27. Radiated Measurements Antenna 1a (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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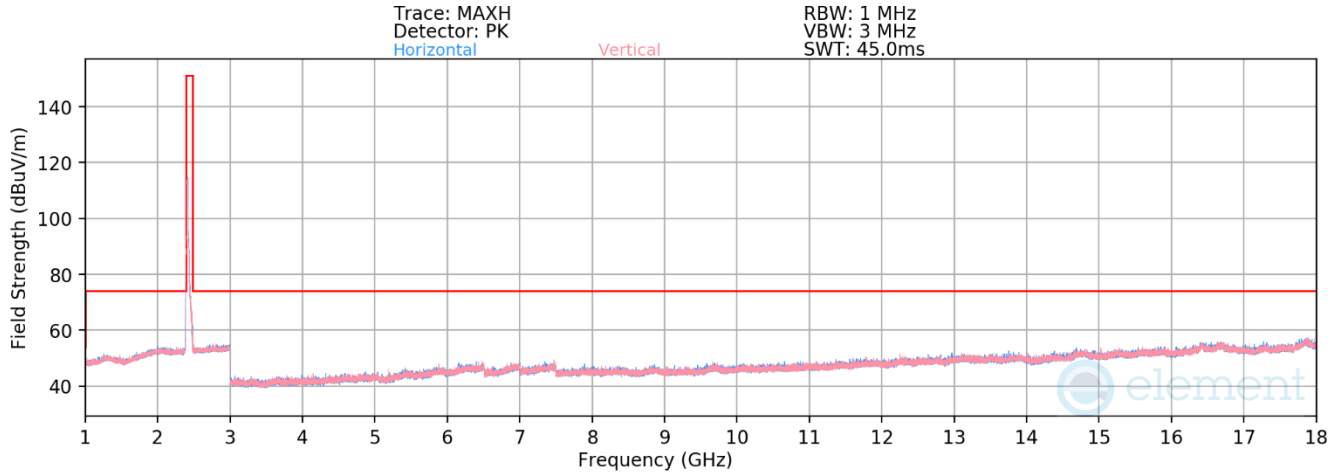
Plot 7-137. Radiated Spurious Emissions above 1GHz Antenna 1a (802.11ax OFDMA – RU26 – Ch. 11)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	-	-	-	-77.70	4.40	33.69	53.98	-20.29
4924.00	Peak	-	-	-	-66.48	4.50	45.02	73.98	-28.96
7386.00	Avg	-	-	-	-78.97	9.04	37.07	53.98	-16.91
7386.00	Peak	-	-	-	-67.48	9.04	48.57	73.98	-25.41
12310.00	Avg	-	-	-	-81.15	13.88	39.73	53.98	-14.25
12310.00	Peak	-	-	-	-69.58	13.88	51.30	73.98	-22.68

Table 7-28. Radiated Measurements Antenna 1a (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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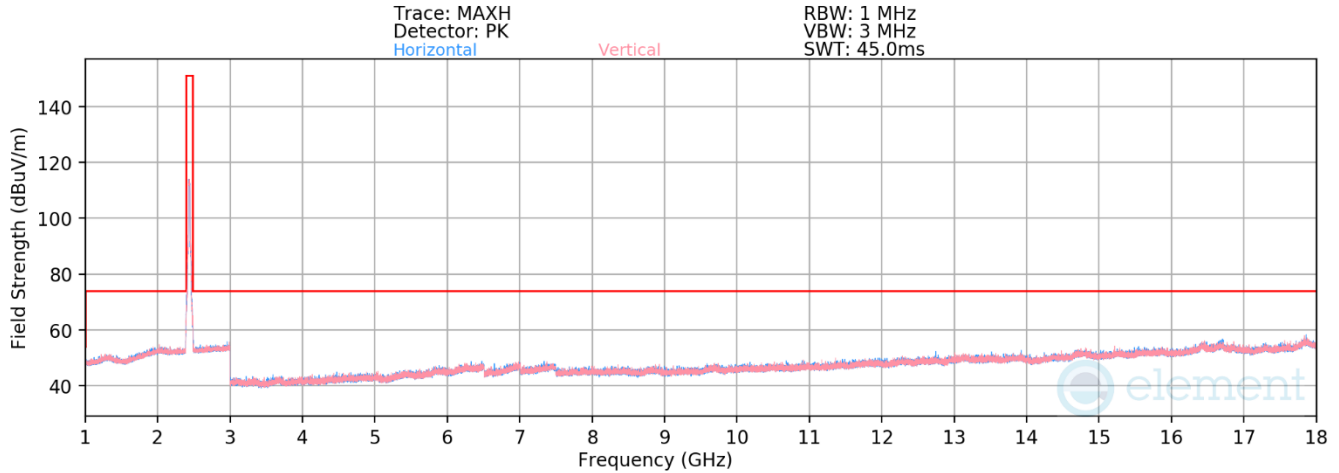
Plot 7-138. Radiated Spurious Emissions above 1GHz Antenna 1a (802.11ax OFDMA – RU242 – Ch. 1)

Worst Case Mode:	<u>802.11ax OFDMA</u>
Worst Case Transfer Rate:	<u>MCS9</u>
RU Index:	<u>61</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2412MHz</u>
Channel:	<u>01</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	-	-	-	-77.92	4.22	33.30	53.98	-20.68
4824.00	Peak	-	-	-	-66.54	4.31	44.77	73.98	-29.21
12060.00	Avg	-	-	-	-81.06	12.78	38.71	53.98	-15.27
12060.00	Peak	-	-	-	-69.48	12.84	50.36	73.98	-23.62

Table 7-29. Radiated Measurements Antenna 1a (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 109 of 152



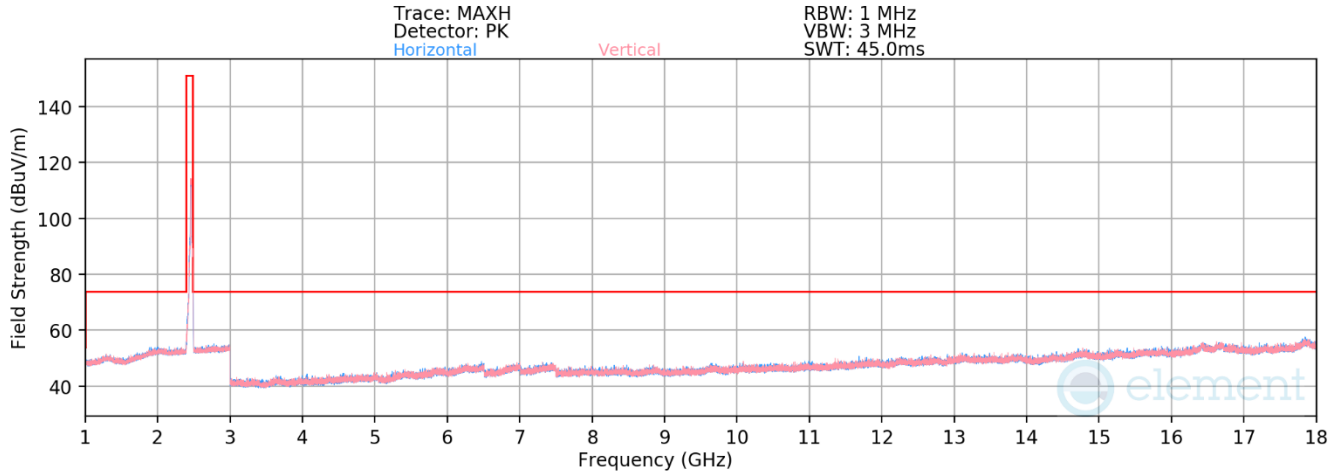
Plot 7-139. Radiated Spurious Emissions above 1GHz Antenna 1a (802.11ax OFDMA – RU242 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	-	-	-	-77.96	4.44	33.47	53.98	-20.50
4874.00	Peak	-	-	-	-66.02	4.44	45.41	73.98	-28.57
7311.00	Avg	-	-	-	-79.09	8.83	36.74	53.98	-17.24
7311.00	Peak	-	-	-	-66.97	8.97	49.00	73.98	-24.98
12185.00	Avg	-	-	-	-81.27	13.55	39.27	53.98	-14.71
12185.00	Peak	-	-	-	-69.55	13.55	50.99	73.98	-22.99

Table 7-30. Radiated Measurements Antenna 1a (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 110 of 152



Plot 7-140. Radiated Spurious Emissions above 1GHz Antenna 1a (802.11ax OFDMA – RU242 – Ch. 11)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

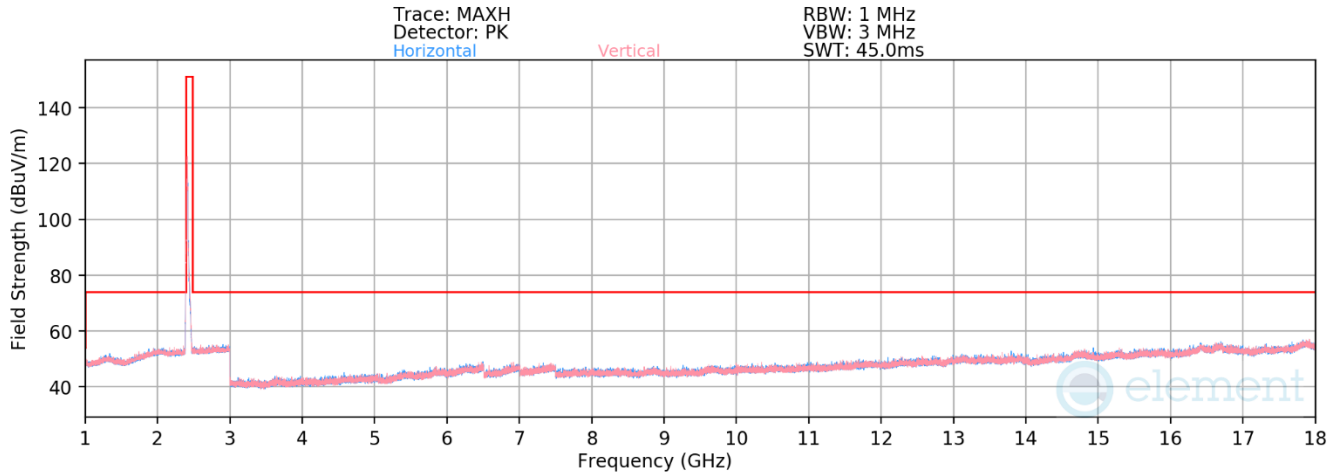
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	-	-	-	-77.62	4.40	33.78	53.98	-20.20
4924.00	Peak	-	-	-	-66.32	4.50	45.19	73.98	-28.79
7386.00	Avg	-	-	-	-79.10	9.04	36.94	53.98	-17.04
7386.00	Peak	-	-	-	-66.38	9.04	49.66	73.98	-24.32
12310.00	Avg	-	-	-	-81.24	13.94	39.70	53.98	-14.28
12310.00	Peak	-	-	-	-69.46	13.94	51.48	73.98	-22.50

Table 7-31. Radiated Measurements Antenna 1a (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 111 of 152

7.7.3 CDD Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



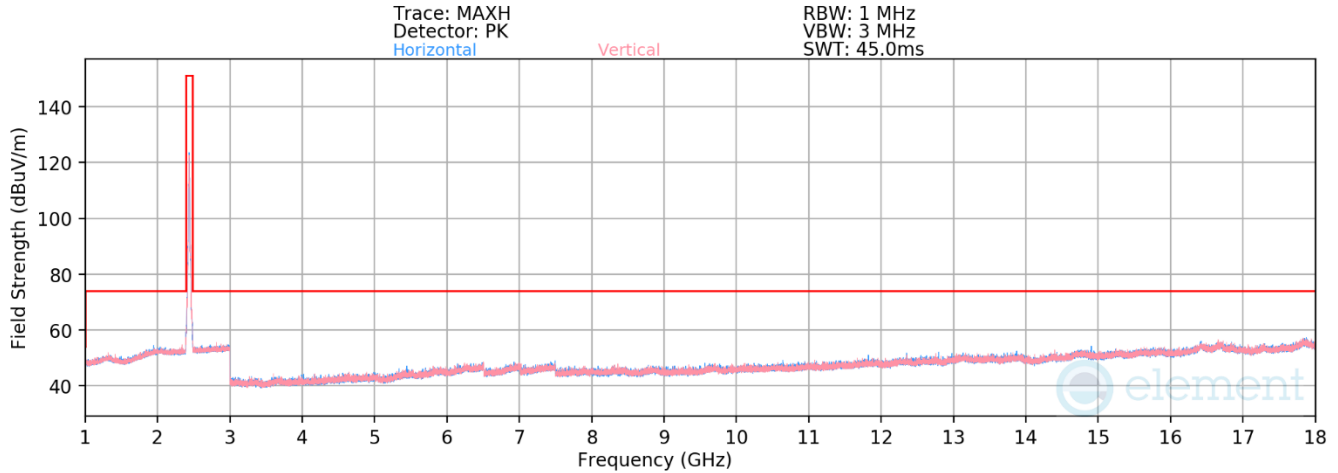
Plot 7-141. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	-	-	-	-78.42	4.31	32.89	53.98	-21.09
4824.00	Peak	-	-	-	-66.43	4.31	44.88	73.98	-29.10
12060.00	Avg	-	-	-	-81.18	12.93	38.75	53.98	-15.23
12060.00	Peak	-	-	-	-68.98	12.93	50.95	73.98	-23.03

Table 7-32. Radiated Measurements CDD (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device		Page 112 of 152



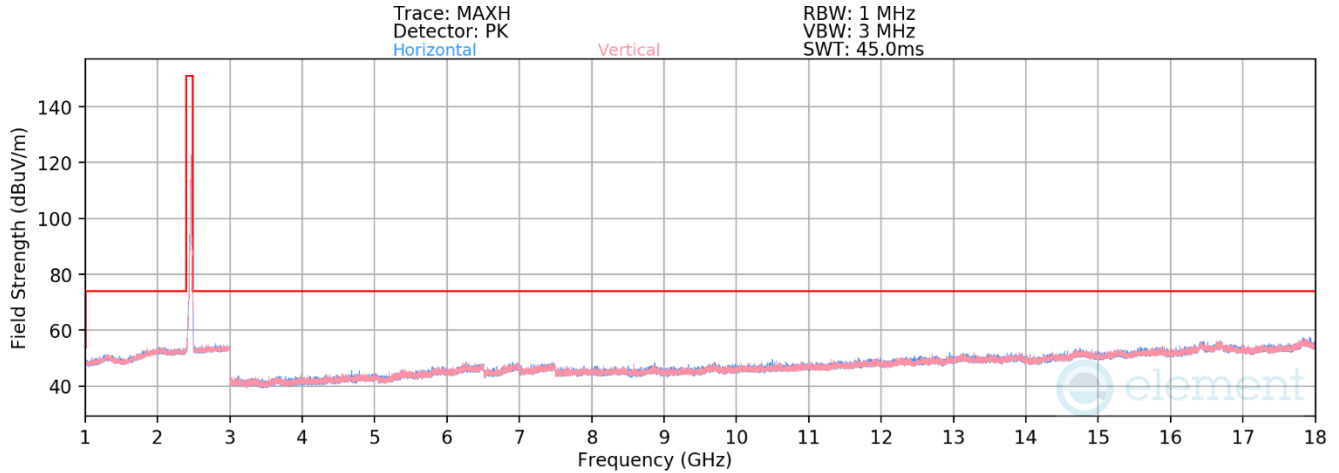
Plot 7-142. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	-	-	-	-78.08	4.53	33.44	53.98	-20.54
4874.00	Peak	-	-	-	-66.25	4.53	45.28	73.98	-28.70
7311.00	Avg	-	-	-	-79.40	8.97	36.56	53.98	-17.41
7311.00	Peak	-	-	-	-67.21	8.91	48.70	73.98	-25.28
12185.00	Avg	-	-	-	-81.64	13.92	39.28	53.98	-14.70
12185.00	Peak	-	-	-	-70.17	13.77	50.60	73.98	-23.38

Table 7-33. Radiated Measurements CDD (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 113 of 152



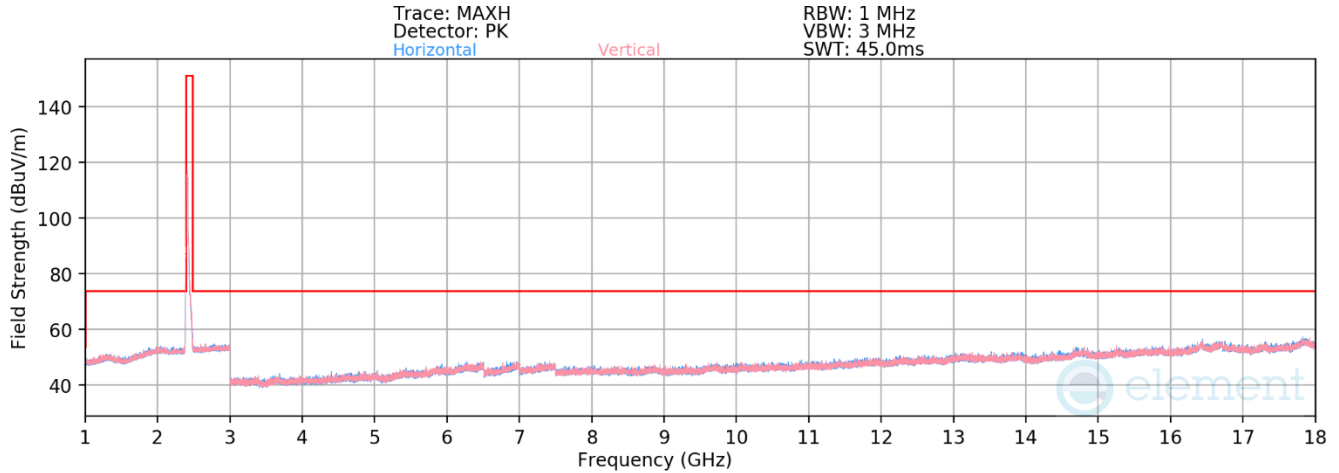
Plot 7-143. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 11)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	-	-	-	-77.88	4.50	33.62	53.98	-20.36
4924.00	Peak	-	-	-	-66.31	4.50	45.19	73.98	-28.79
7386.00	Avg	-	-	-	-79.02	9.04	37.02	53.98	-16.96
7386.00	Peak	-	-	-	-67.36	9.04	48.68	73.98	-25.30
12310.00	Avg	-	-	-	-81.26	13.80	39.54	53.98	-14.44
12310.00	Peak	-	-	-	-69.22	13.80	51.58	73.98	-22.40

Table 7-34. Radiated Measurements CDD (RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 114 of 152



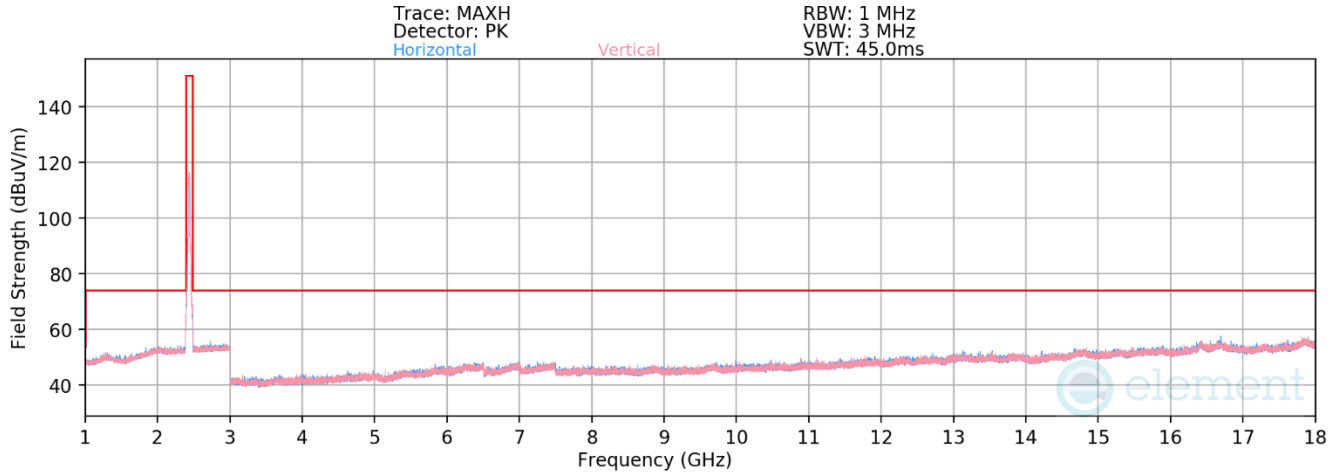
Plot 7-144. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 1)

Worst Case Mode:	<u>802.11ax OFDMA</u>
Worst Case Transfer Rate:	<u>MCS9</u>
RU Index:	<u>61</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2412MHz</u>
Channel:	<u>01</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	-	-	-	-78.03	4.05	33.02	53.98	-20.96
4824.00	Peak	-	-	-	-66.04	4.22	45.18	73.98	-28.80
12060.00	Avg	-	-	-	-80.99	12.78	38.78	53.98	-15.20
12060.00	Peak	-	-	-	-69.78	12.88	50.11	73.98	-23.87

Table 7-35. Radiated Measurements CDD (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 115 of 152



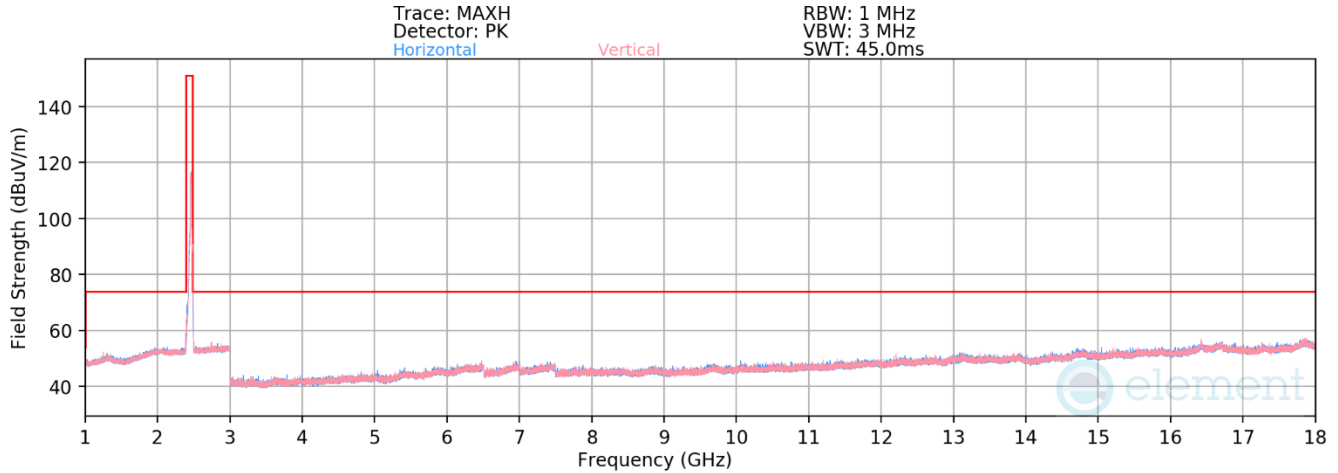
Plot 7-145. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	-	-	-	-77.63	4.53	33.89	53.98	-20.08
4874.00	Peak	-	-	-	-65.73	4.53	45.79	73.98	-28.19
7311.00	Avg	-	-	-	-79.27	8.91	36.64	53.98	-17.34
7311.00	Peak	-	-	-	-67.48	8.91	48.43	73.98	-25.55
12185.00	Avg	-	-	-	-81.29	13.81	39.52	53.98	-14.45
12185.00	Peak	-	-	-	-69.98	13.81	50.83	73.98	-23.15

Table 7-36. Radiated Measurements CDD (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 116 of 152



Plot 7-146. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 11)

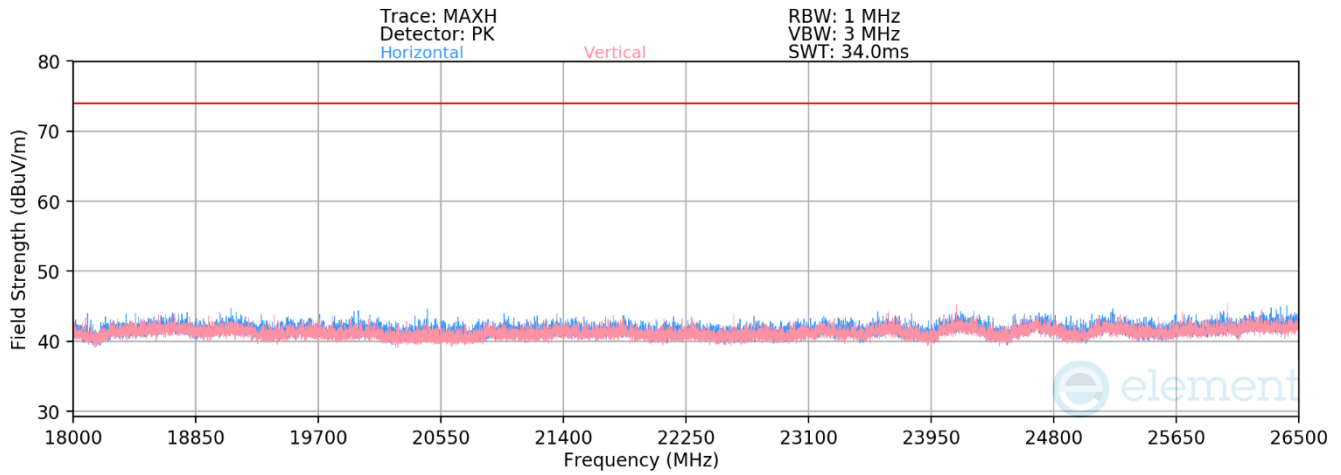
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	-	-	-	-77.72	4.50	33.78	53.98	-20.20
4924.00	Peak	-	-	-	-66.14	4.57	45.43	73.98	-28.55
7386.00	Avg	-	-	-	-78.99	9.14	37.14	53.98	-16.84
7386.00	Peak	-	-	-	-67.56	9.03	48.47	73.98	-25.51
12310.00	Avg	-	-	-	-81.67	13.80	39.12	53.98	-14.86
12310.00	Peak	-	-	-	-69.88	13.76	50.88	73.98	-23.10

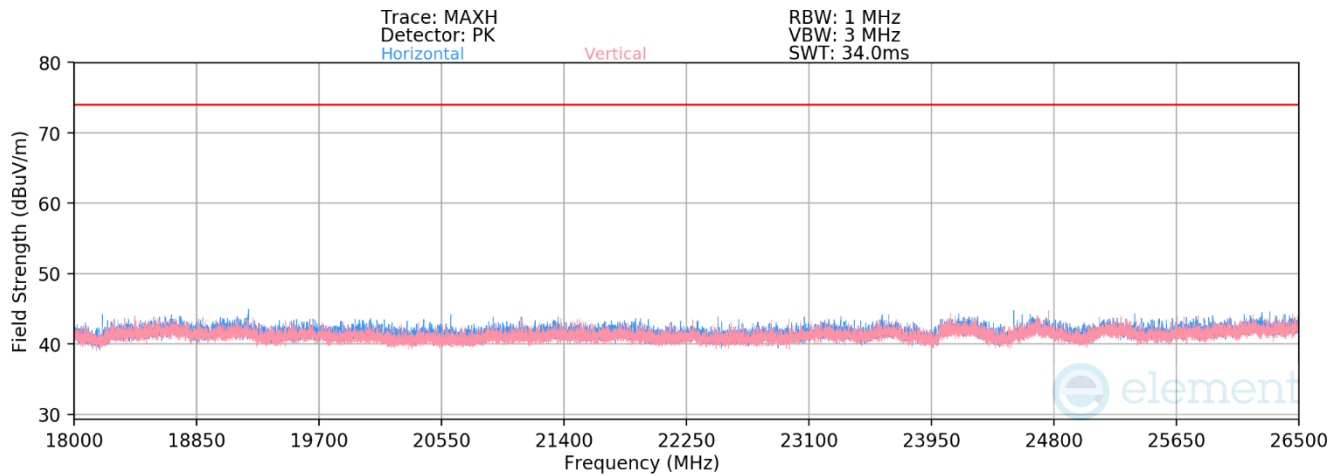
Table 7-37. Radiated Measurements CDD (RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 117 of 152

Radiated Spurious Emissions Above 18GHz CDD



Plot 7-147. Radiated Spurious Emissions above 18GHz CDD (802.11ax OFDMA – RU26 – Ch. 6)



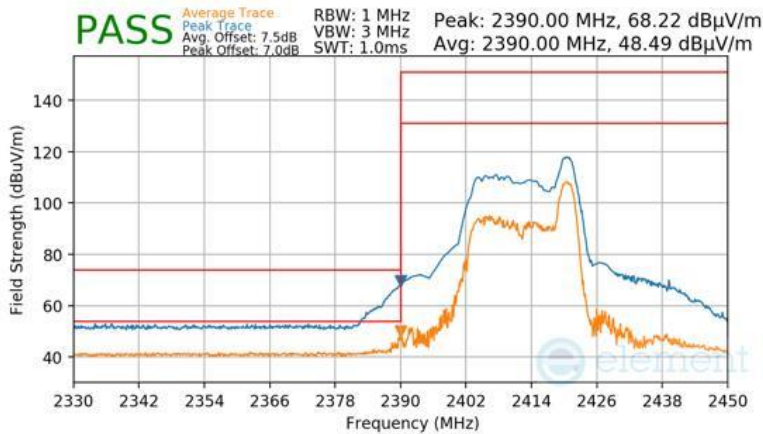
Plot 7-148. Radiated Spurious Emissions above 18GHz CDD (802.11ax OFDMA – RU242 – Ch. 6)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 118 of 152

7.7.4 Antenna 3a Radiated Restricted Band Edge Measurements

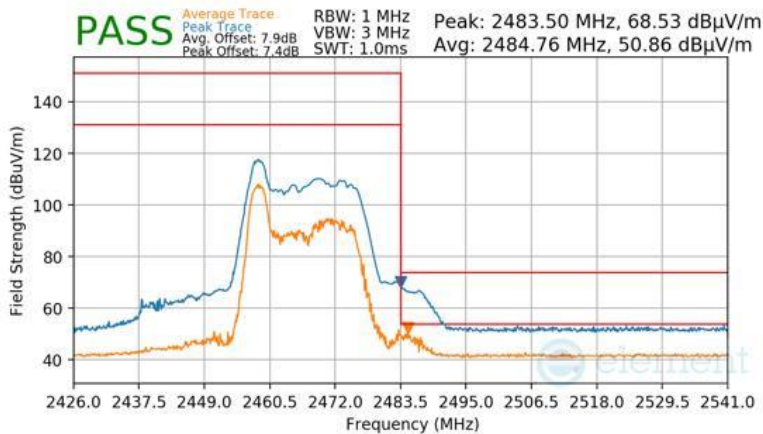
\$15.205 \$15.209; RSS-Gen [8.9]
RU26

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-149 Radiated Restricted Lower Band Edge Measurement Antenna 3a (Peak & Average – RU26)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12

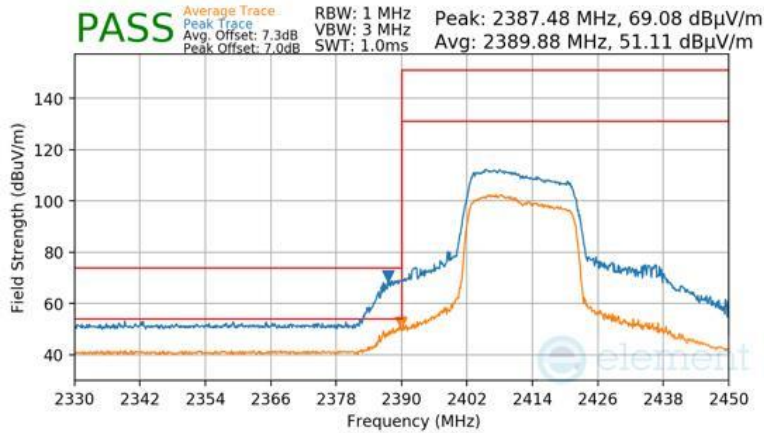


Plot 7-150 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 119 of 152

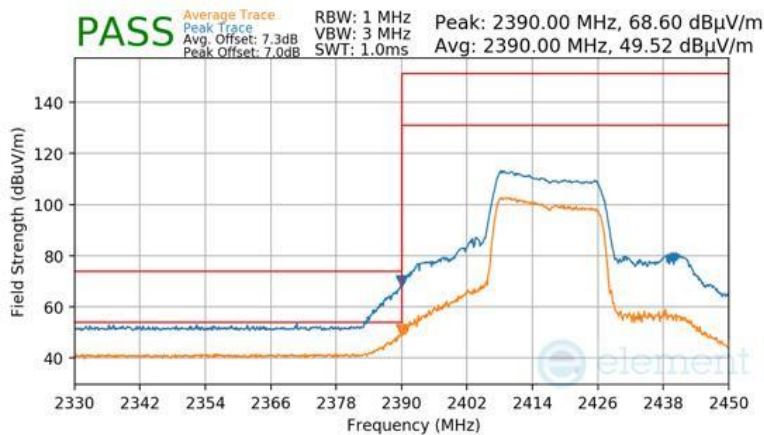
RU242

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-151 Radiated Restricted Lower Band Edge Measurement Antenna 3a (Peak & Average – RU242)

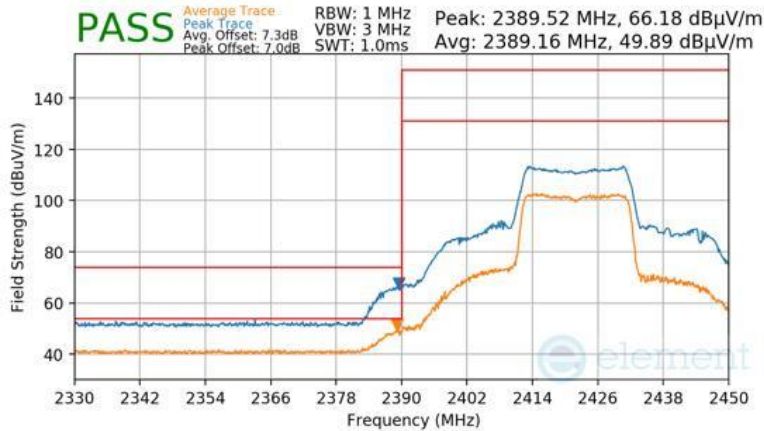
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



Plot 7-152 Radiated Restricted Lower Band Edge Measurement Antenna 3a (Peak & Average – RU242)

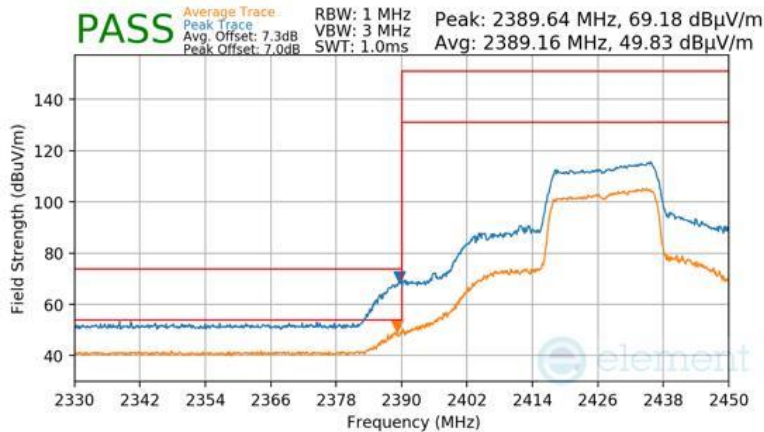
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 120 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-153 Radiated Restricted Lower Band Edge Measurement Antenna 3a (Peak & Average – RU242)

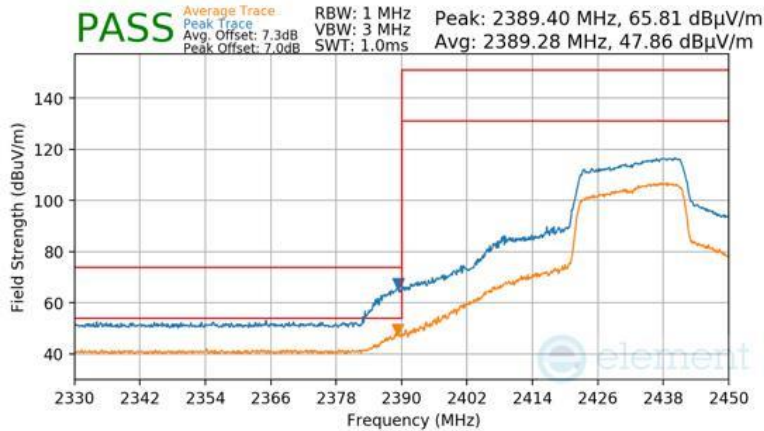
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-154 Radiated Restricted Lower Band Edge Measurement Antenna 3a (Peak & Average – RU242)

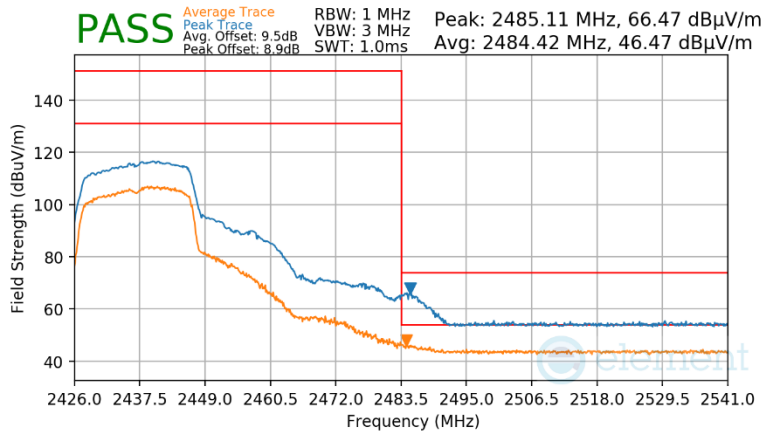
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 121 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2432MHz
 Channel: 5



Plot 7-155 Radiated Restricted Lower Band Edge Measurement Antenna 3a (Peak & Average – RU242)

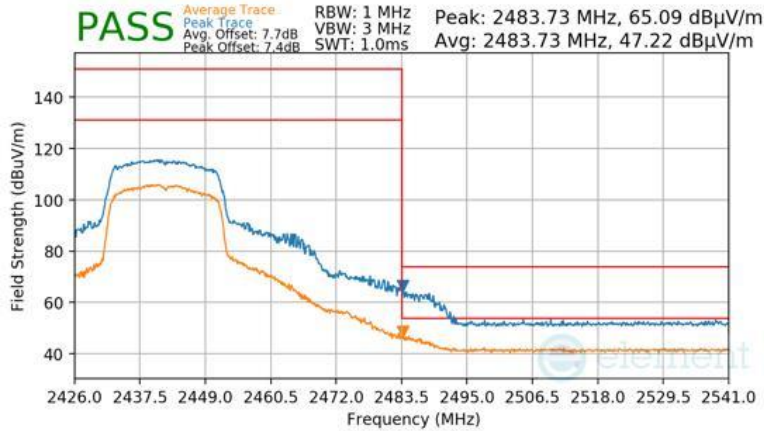
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-156 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU242)

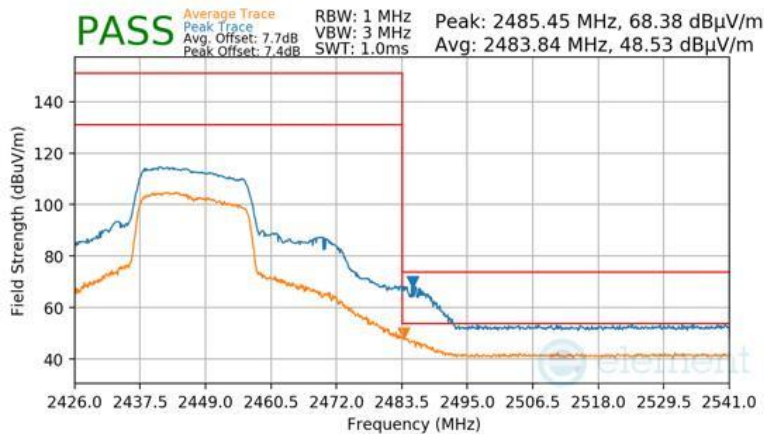
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 122 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-157 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU242)

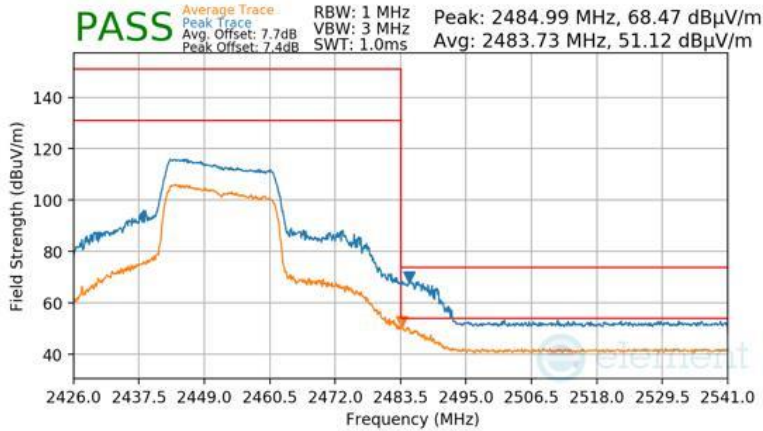
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



Plot 7-158 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU242)

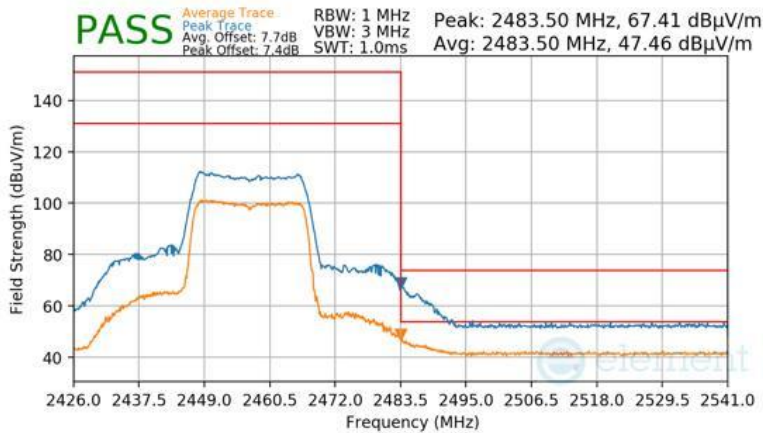
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 123 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-159 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU242)

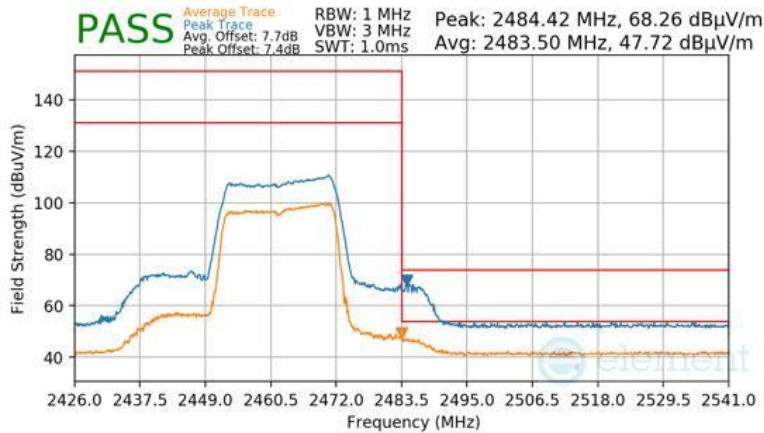
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-160 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU242)

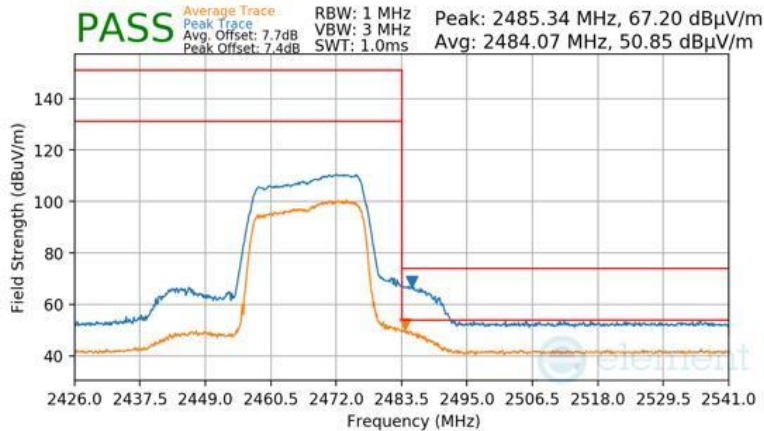
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 124 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-161 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU242)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



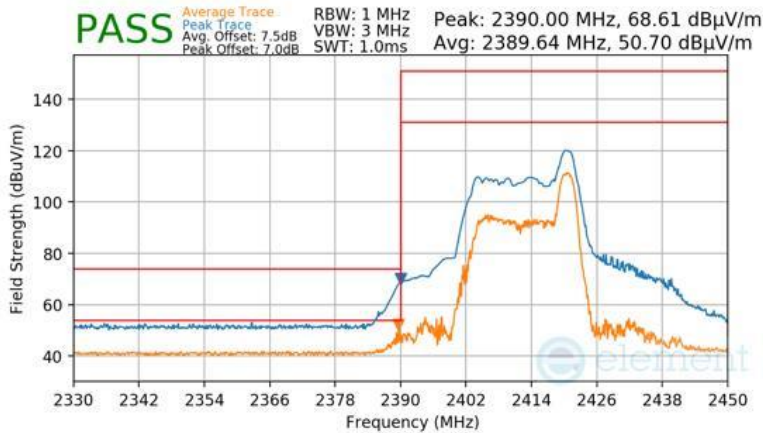
Plot 7-162 Radiated Restricted Upper Band Edge Measurement Antenna 3a (Peak & Average – RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 125 of 152

7.7.5 Antenna 1a Radiated Restricted Band Edge Measurements

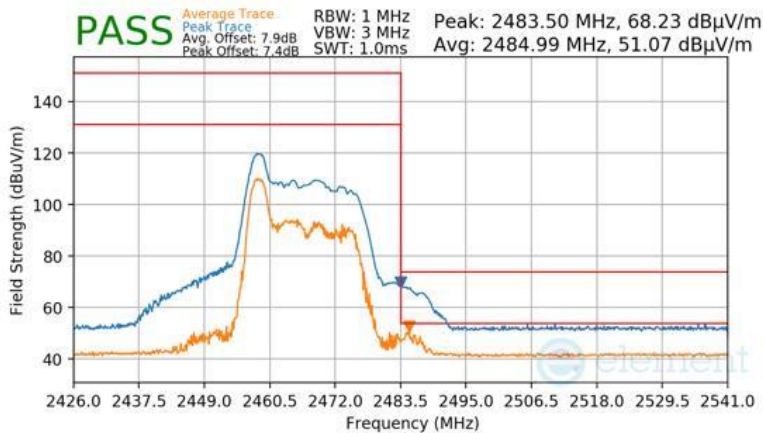
\$15.205 \$15.209; RSS-Gen [8.9]
RU26

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-163 Radiated Restricted Lower Band Edge Measurement Antenna 1a (Peak & Average – RU26)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12

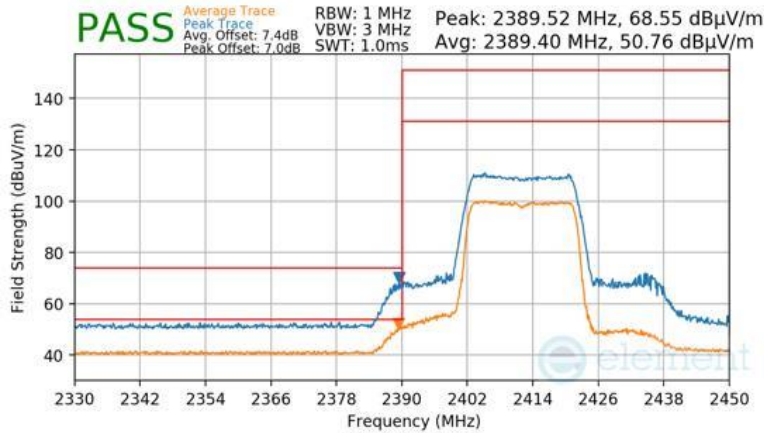


Plot 7-164 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 126 of 152

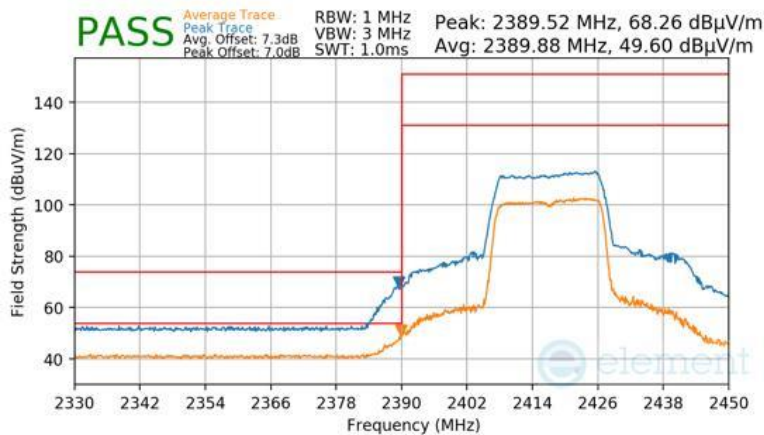
RU242

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-165 Radiated Restricted Lower Band Edge Measurement Antenna 1a (Peak & Average – RU242)

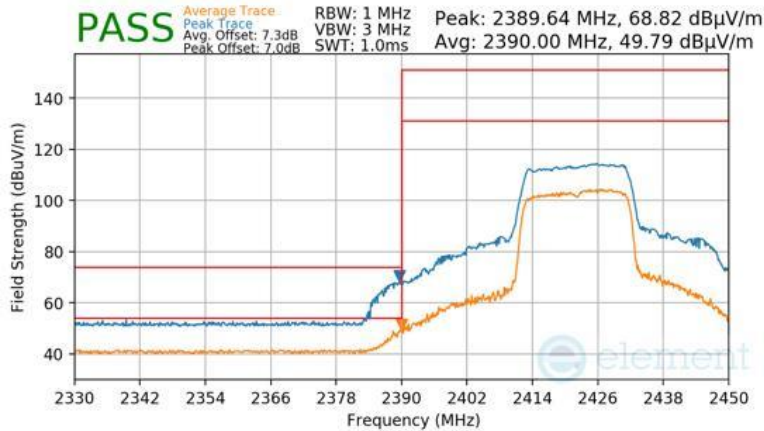
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



Plot 7-166 Radiated Restricted Lower Band Edge Measurement Antenna 1a (Peak & Average – RU242)

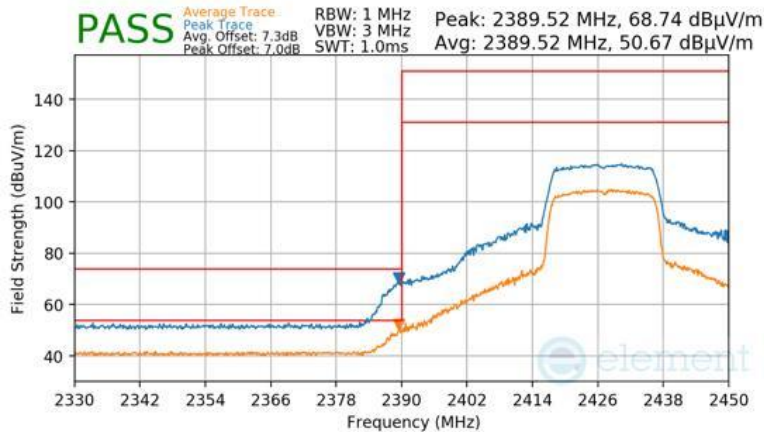
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 127 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-167 Radiated Restricted Lower Band Edge Measurement Antenna 1a (Peak & Average – RU242)

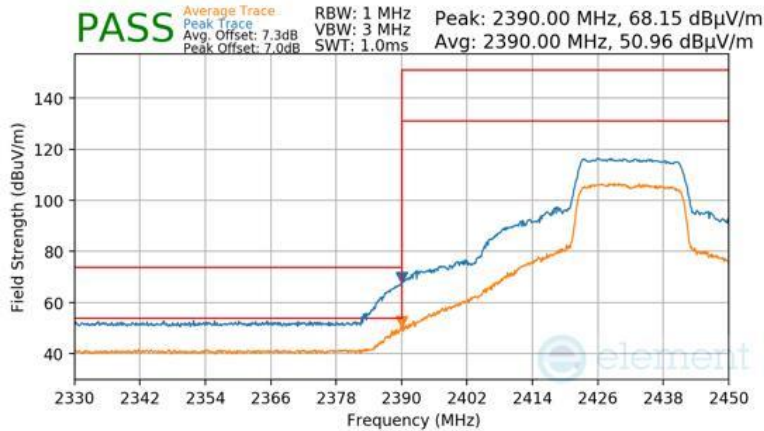
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-168 Radiated Restricted Lower Band Edge Measurement Antenna 1a (Peak & Average – RU242)

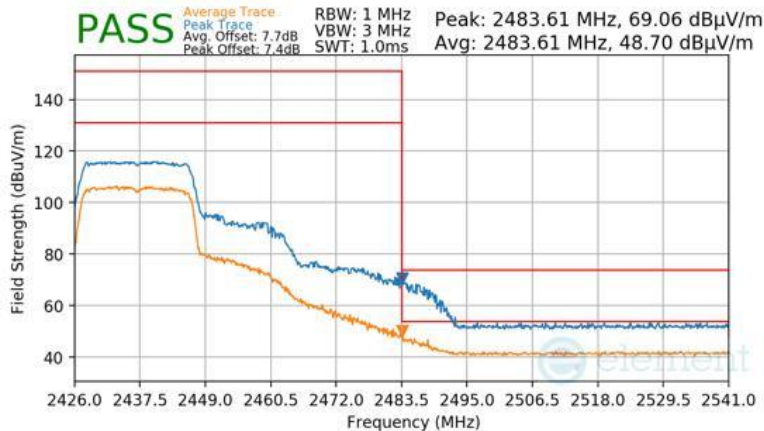
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 128 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2432MHz
 Channel: 5



Plot 7-169 Radiated Restricted Lower Band Edge Measurement Antenna 1a (Peak & Average – RU242)

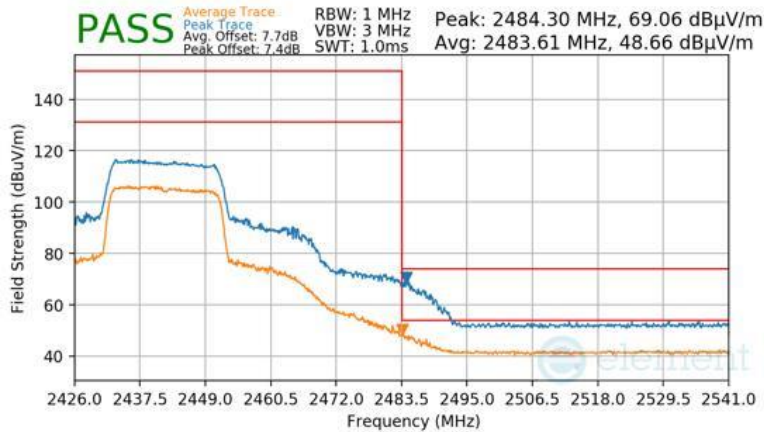
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-170 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU242)

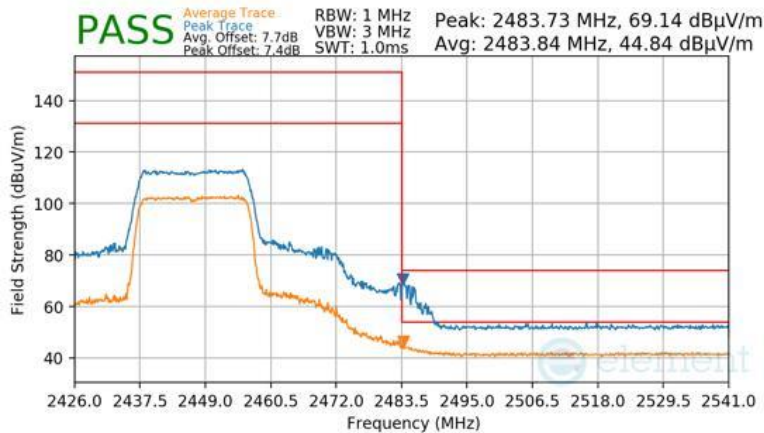
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 129 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-171 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU242)

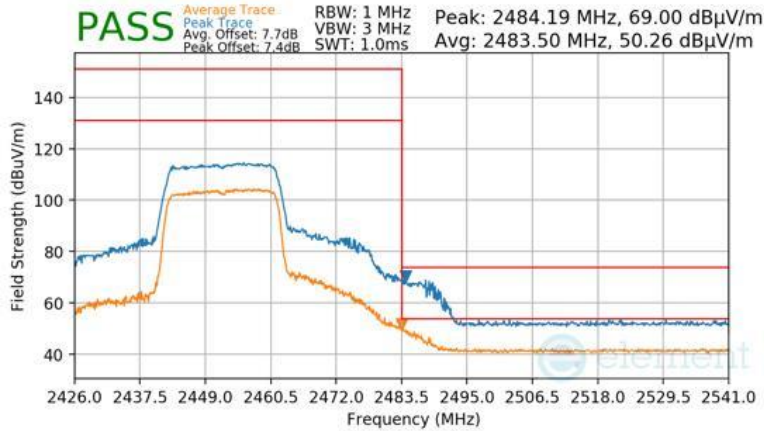
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



Plot 7-172 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU242)

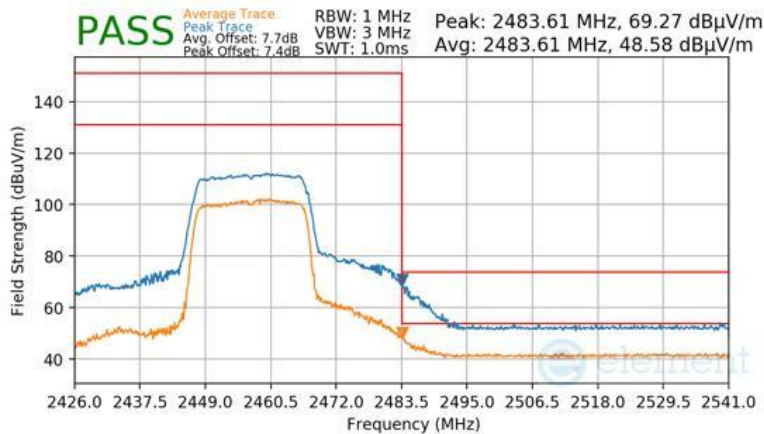
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 130 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-173 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU242)

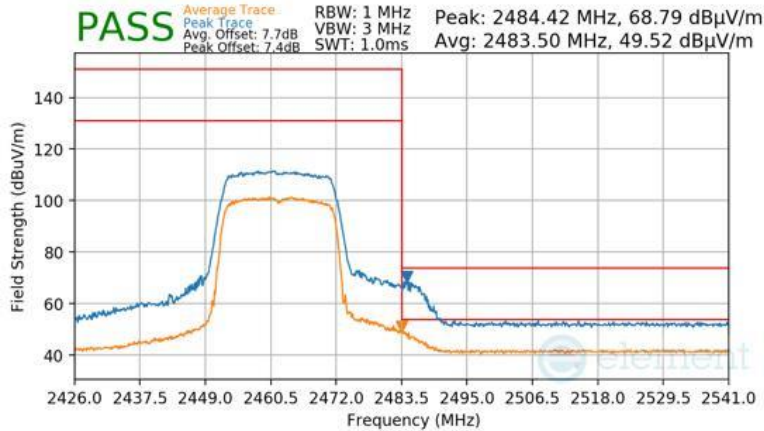
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-174 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU242)

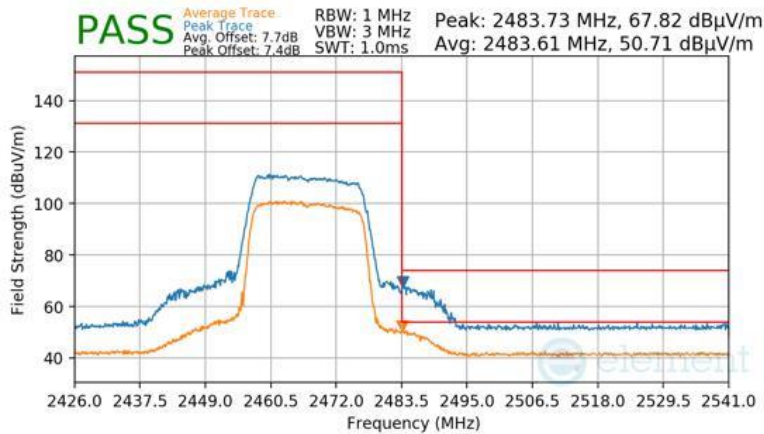
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 131 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-175 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU242)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-176 Radiated Restricted Upper Band Edge Measurement Antenna 1a (Peak & Average – RU242)

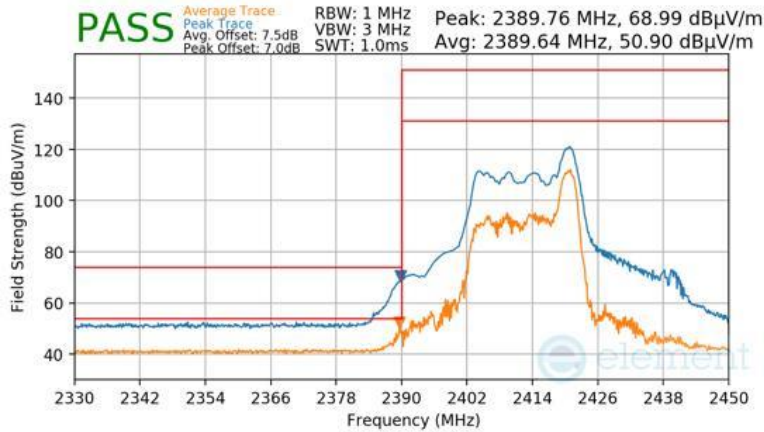
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 132 of 152

7.7.6 CDD Radiated Restricted Band Edge Measurements

\$15.205 \$15.209; RSS-Gen [8.9]

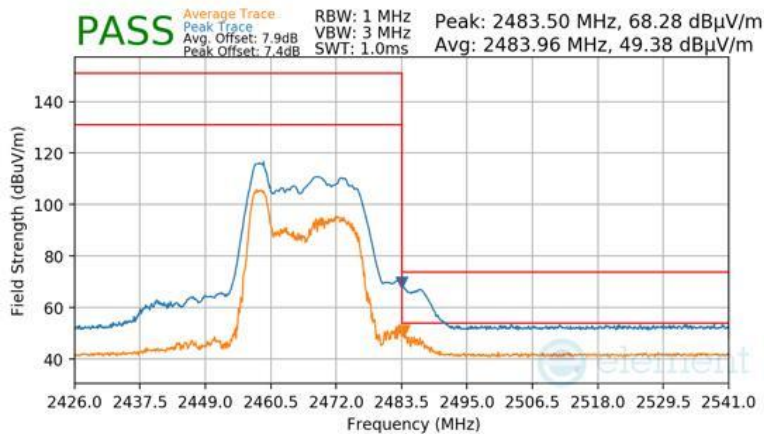
RU26

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-177 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12

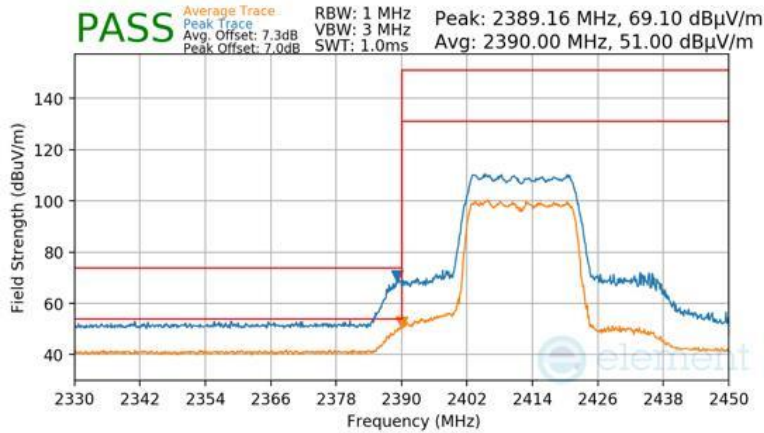


Plot 7-178 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 133 of 152

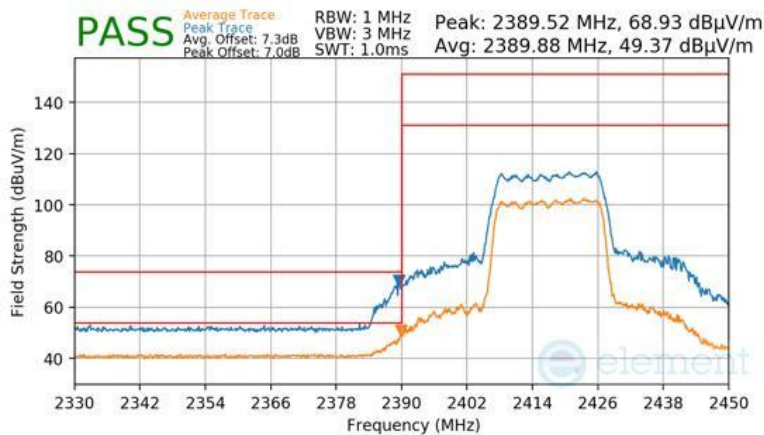
RU242

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-179 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

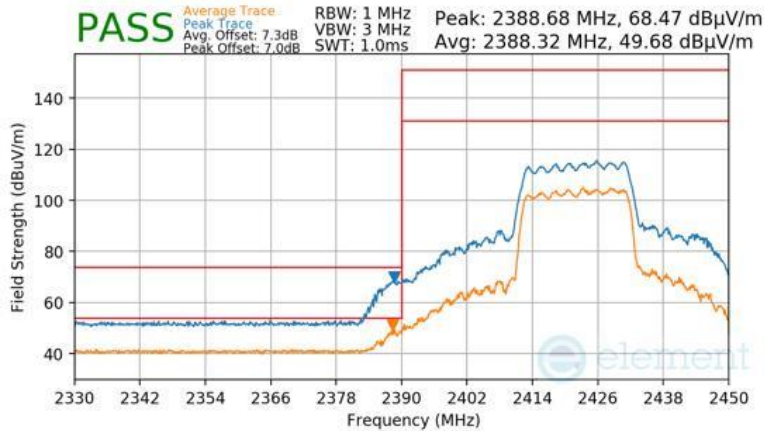
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



Plot 7-180 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

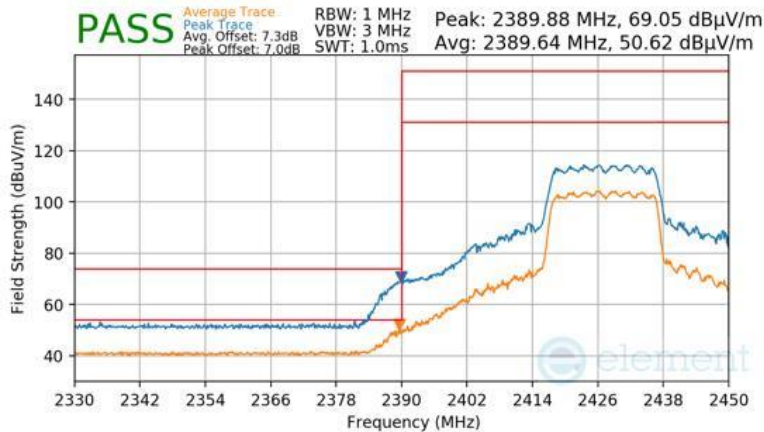
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 134 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-181 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

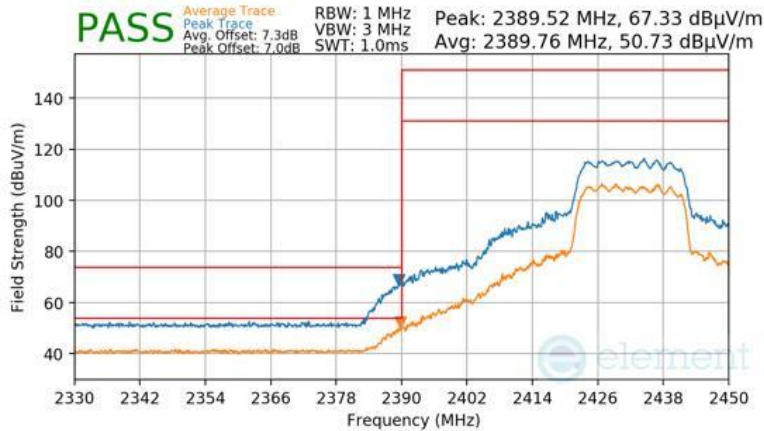
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-182 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

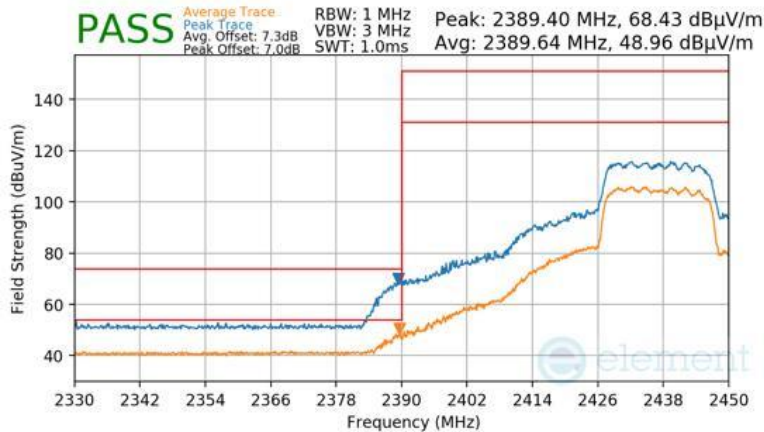
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 135 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2432MHz
 Channel: 5



Plot 7-183 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

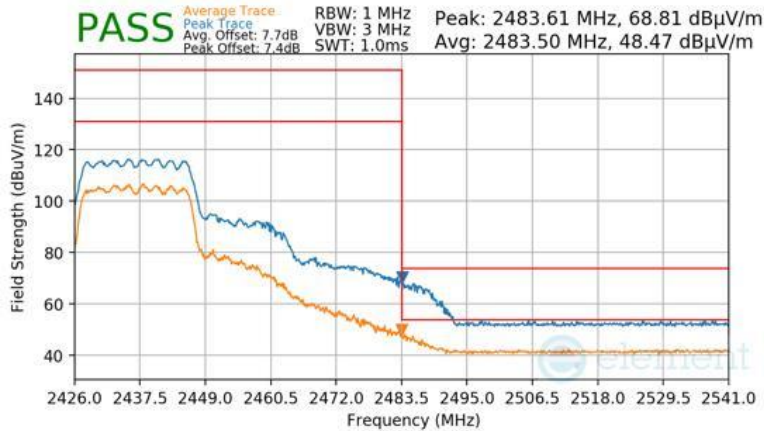
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-184 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

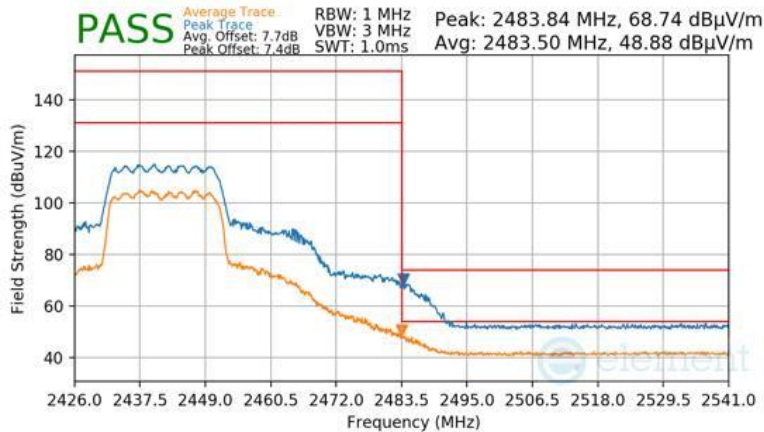
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 136 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-185 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

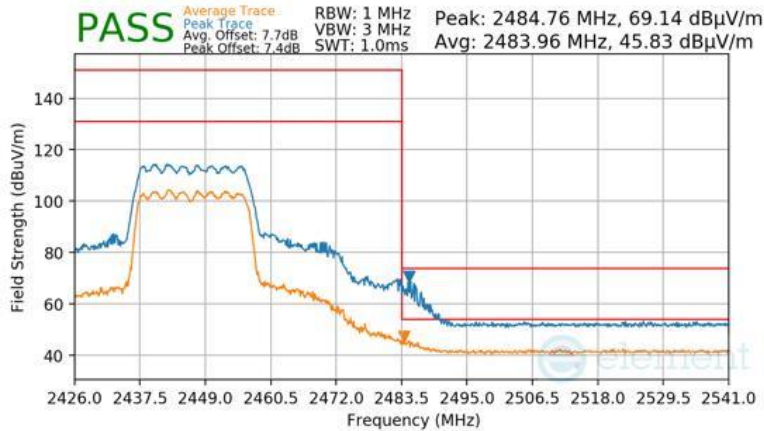
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-186 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

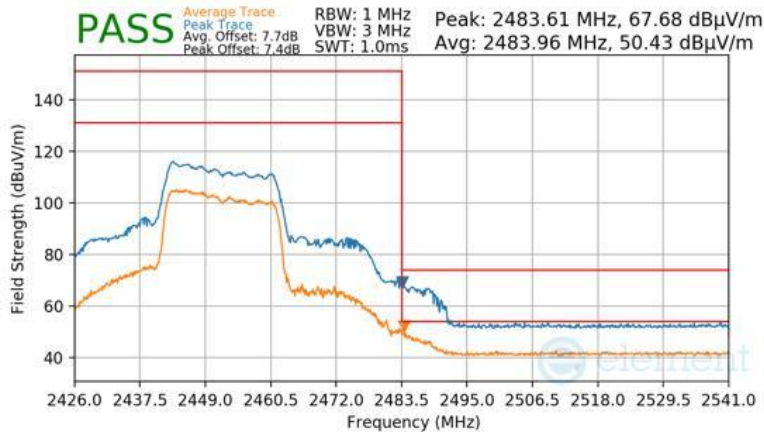
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 137 of 152

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2447MHz
Channel:	8



Plot 7-187 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

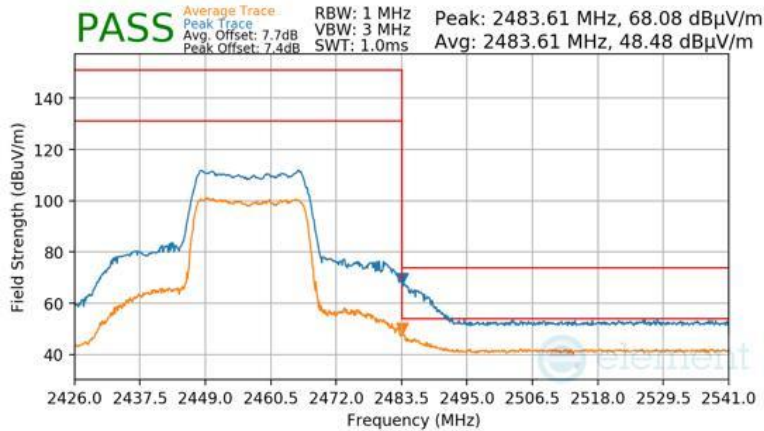
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2452MHz
Channel:	9



Plot 7-188 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

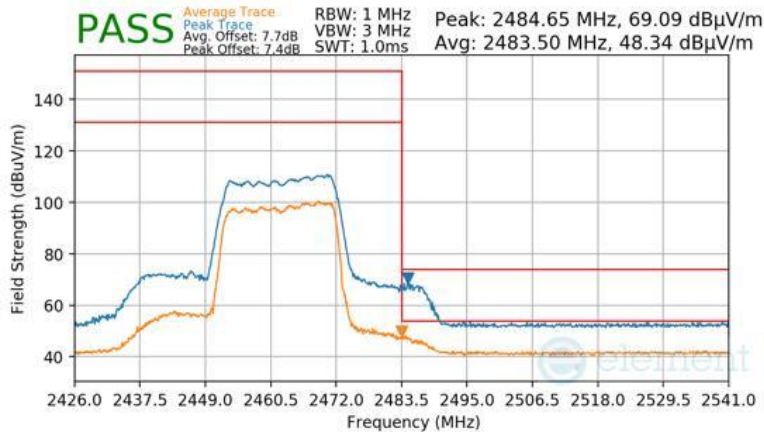
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 138 of 152

Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-189 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

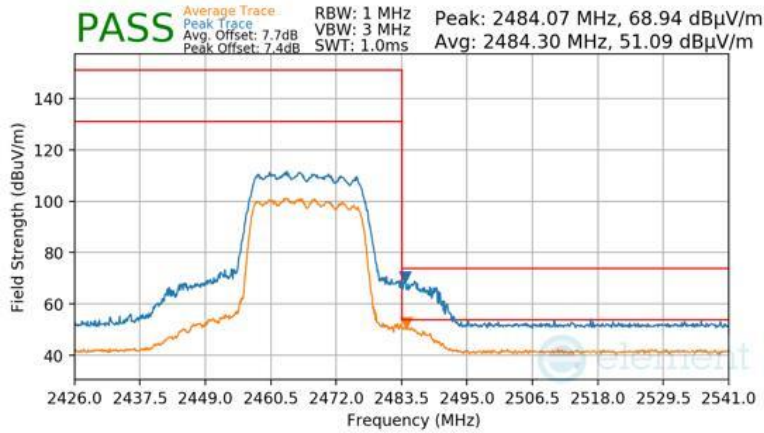
Mode: 802.11ax OFDMA
 Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-190 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 139 of 152

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12



Plot 7-191 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2899 IC: 579C-A2899	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device
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7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-38 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-38. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

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

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. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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V 10.5 12/15/2021

Test Setup

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

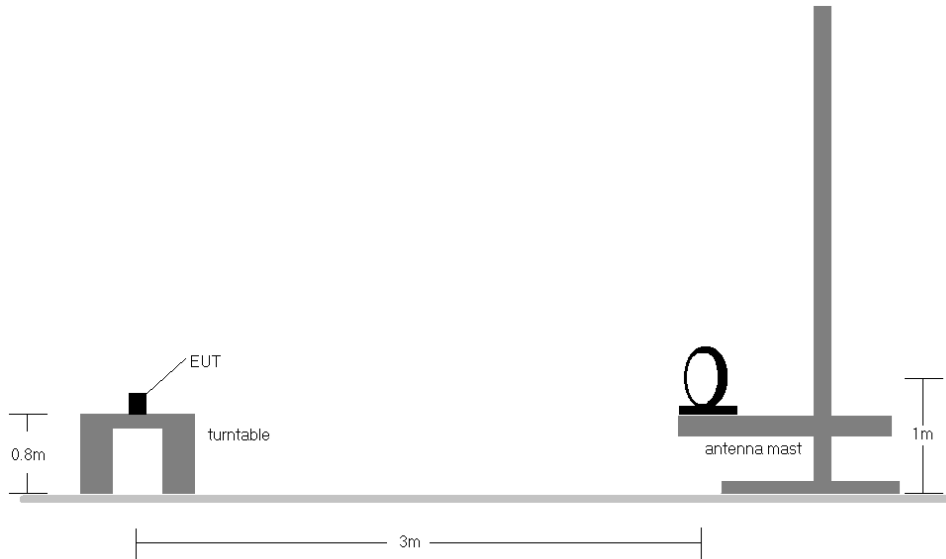


Figure 7-7. Radiated Test Setup < 30MHz

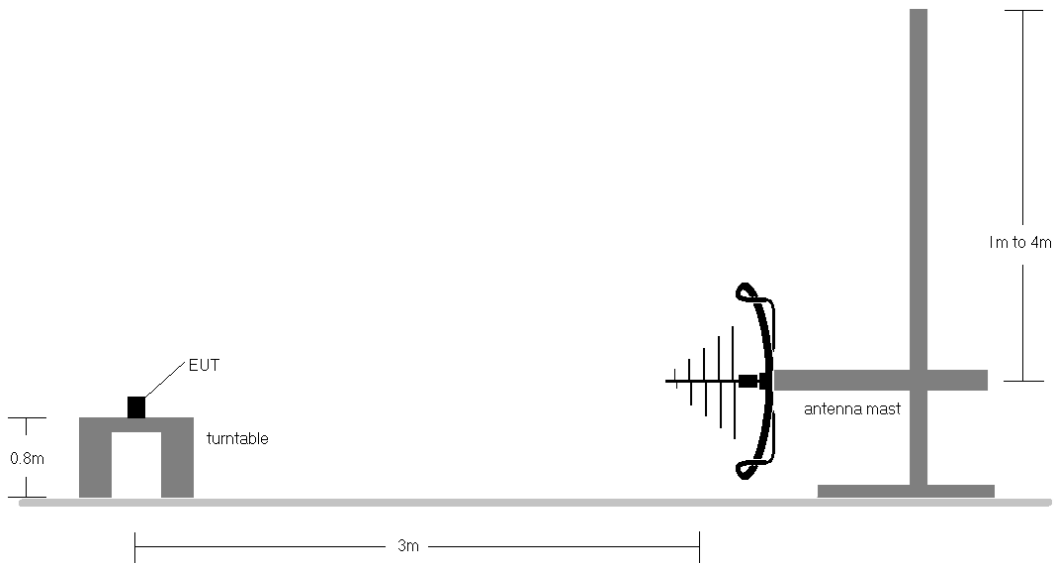


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2899 IC: 579C-A2899	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-38.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is 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.
9. All antenna configurations and data rates were investigated and only the worst case are reported.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.
11. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

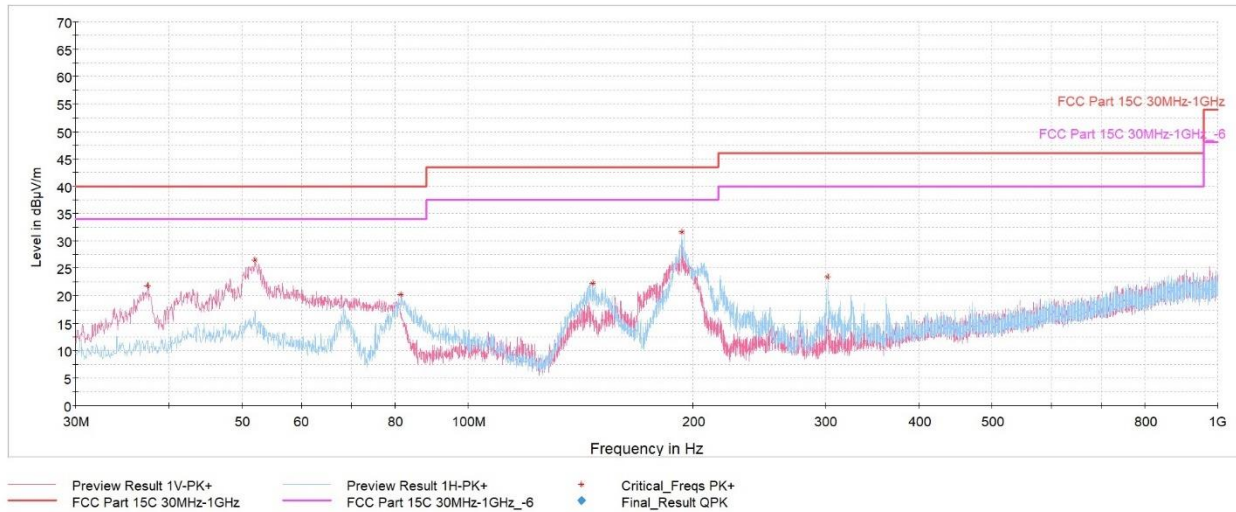
Sample Calculations

Determining Spurious Emissions Levels

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

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 143 of 152

CDD Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]

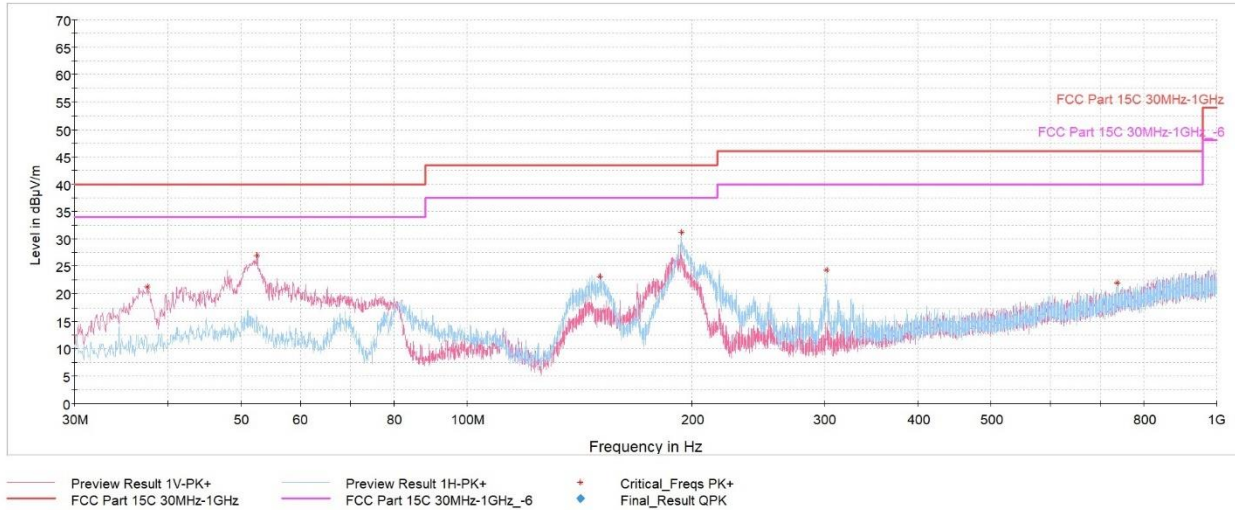


Plot 7-192. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

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]
37.47	Max-Peak	V	100	5	-70.10	-15.12	21.78	40.00	-18.22
52.07	Max-Peak	V	100	10	-67.36	-13.15	26.49	40.00	-13.51
81.46	Max-Peak	H	200	325	-65.83	-20.91	20.26	40.00	-19.74
146.74	Max-Peak	H	200	211	-64.28	-20.42	22.30	43.52	-21.22
192.86	Max-Peak	H	100	43	-58.14	-17.17	31.69	43.52	-11.83
301.84	Max-Peak	H	100	25	-69.06	-14.52	23.42	46.02	-22.60

Table 7-39. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270066-17.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device		Page 144 of 152



Plot 7-193. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC Adapter

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]
37.52	Max-Peak	V	100	277	-70.68	-15.11	21.21	40.00	-18.79
52.60	Max-Peak	V	100	33	-66.69	-13.29	27.02	40.00	-12.98
150.72	Max-Peak	H	200	221	-63.70	-20.18	23.12	43.52	-20.40
193.30	Max-Peak	H	100	27	-58.78	-17.09	31.13	43.52	-12.39
301.84	Max-Peak	H	100	32	-68.10	-14.52	24.38	46.02	-21.64
736.84	Max-Peak	H	100	52	-79.29	-5.70	22.01	46.02	-24.01

Table 7-40. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC Adapter

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7.9 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

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

Table 7-41. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Subclause 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

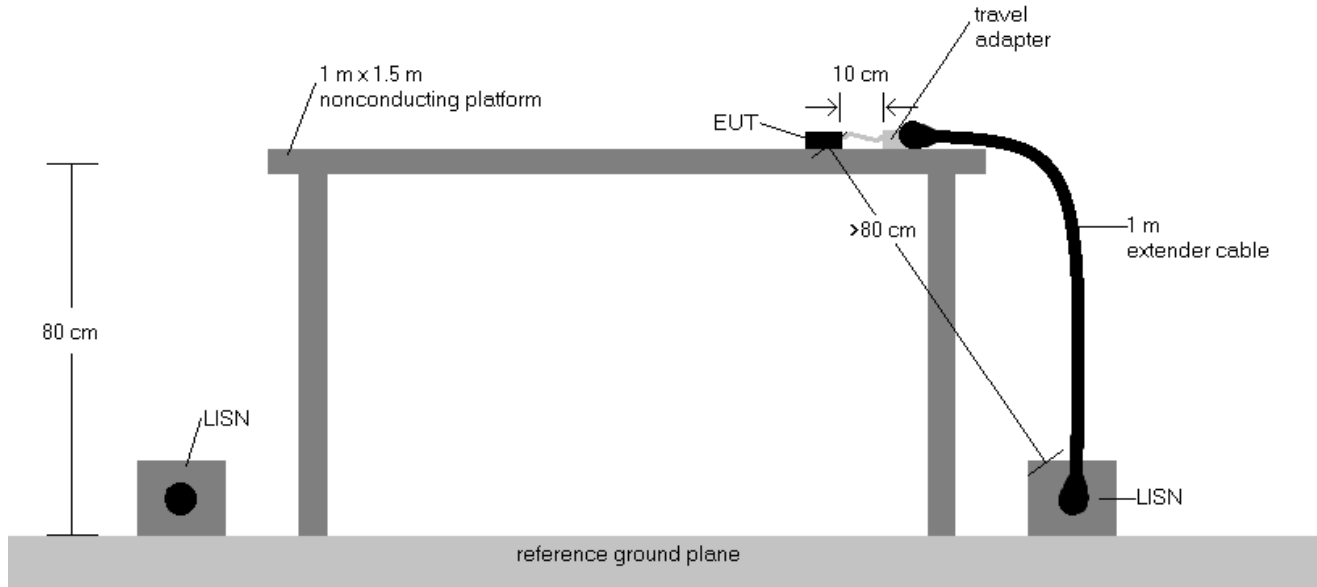


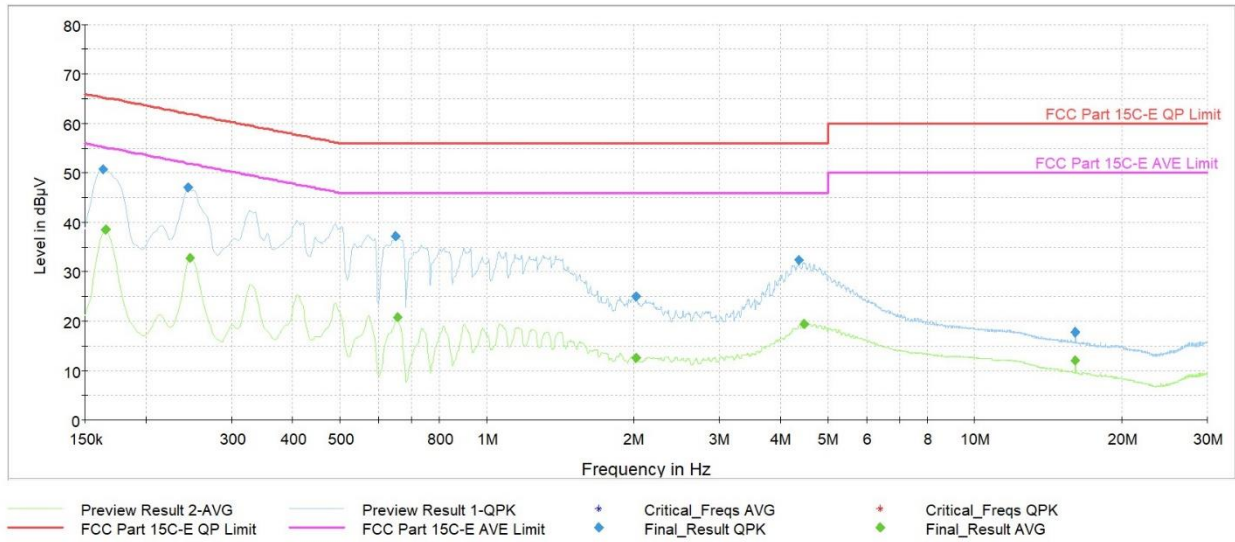
Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plot are made using quasi peak and average detectors.
8. Deviations to the Specifications: None.
9. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's are reported.

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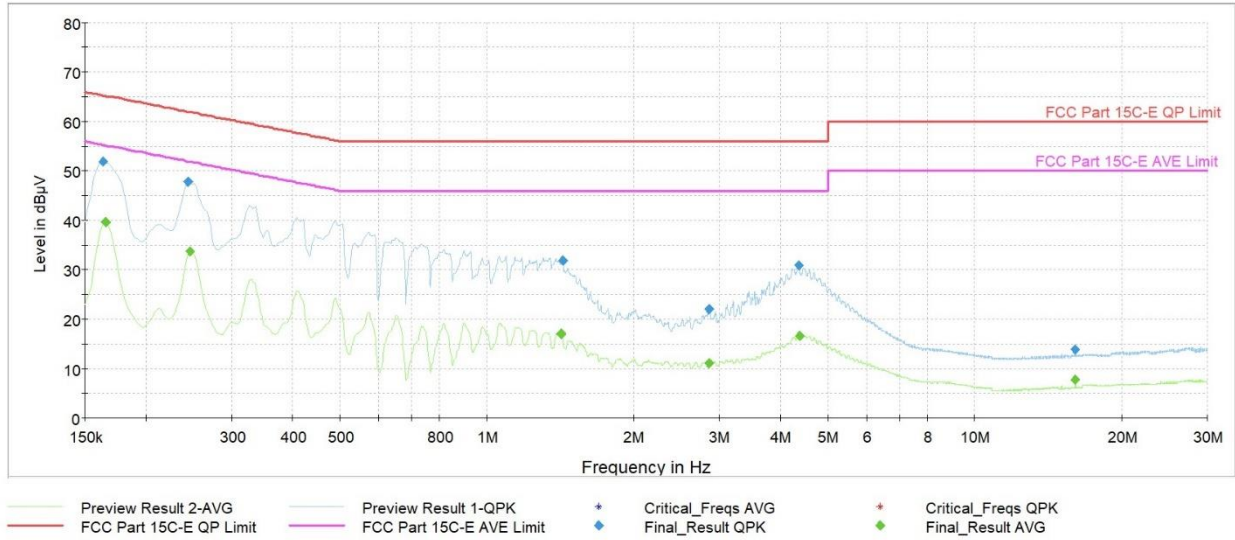


Plot 7-194. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	50.8	—	65.28	-14.52	L1	GND
0.166	FINAL	—	38.49	55.17	-16.68	L1	GND
0.245	FINAL	47.0	—	61.94	-14.97	L1	GND
0.247	FINAL	—	32.78	51.87	-19.09	L1	GND
0.652	FINAL	37.2	—	56.00	-18.77	L1	GND
0.656	FINAL	—	20.67	46.00	-25.33	L1	GND
2.020	FINAL	—	12.61	46.00	-33.39	L1	GND
2.022	FINAL	25.1	—	56.00	-30.93	L1	GND
4.355	FINAL	32.3	—	56.00	-23.66	L1	GND
4.468	FINAL	—	19.37	46.00	-26.63	L1	GND
16.080	FINAL	17.8	—	60.00	-42.19	L1	GND
16.082	FINAL	—	12.11	50.00	-37.89	L1	GND

Table 7-42. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (L1, with AC/DC Adapter)

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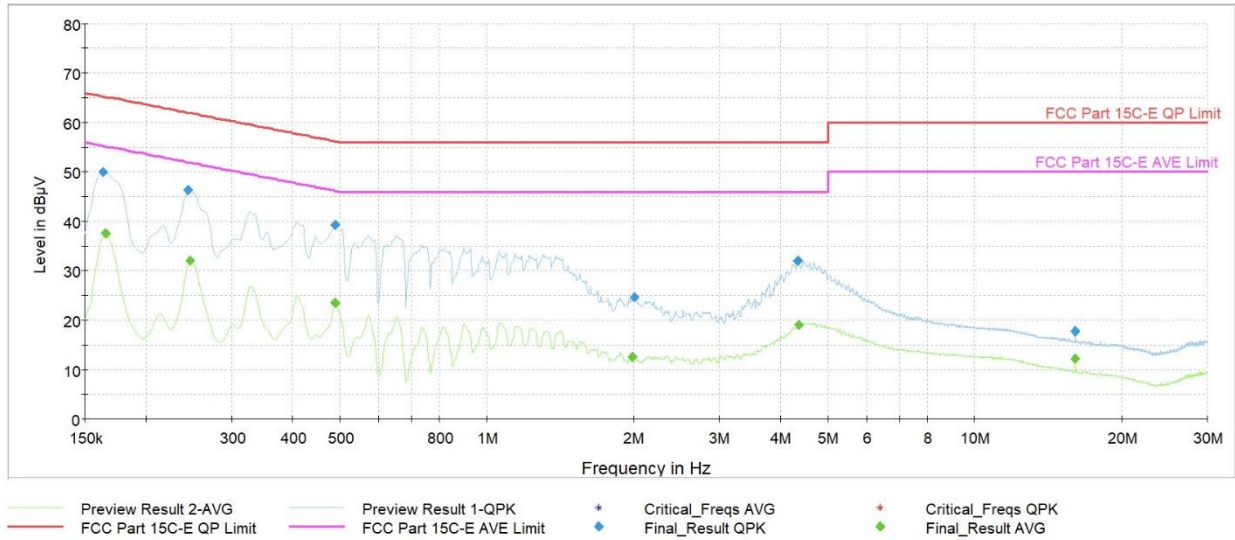


Plot 7-195. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (N, with AC/DC Charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	51.8	—	65.28	-13.47	N	GND
0.166	FINAL	—	39.69	55.17	-15.48	N	GND
0.245	FINAL	47.9	—	61.94	-14.08	N	GND
0.247	FINAL	—	33.75	51.87	-18.11	N	GND
1.419	FINAL	—	16.95	46.00	-29.05	N	GND
1.433	FINAL	31.9	—	56.00	-24.11	N	GND
2.857	FINAL	—	11.19	46.00	-34.81	N	GND
2.859	FINAL	22.0	—	56.00	-34.04	N	GND
4.358	FINAL	30.9	—	56.00	-25.11	N	GND
4.371	FINAL	—	16.60	46.00	-29.40	N	GND
16.082	FINAL	—	7.76	50.00	-42.24	N	GND
16.082	FINAL	13.9	—	60.00	-46.13	N	GND

Table 7-43. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (N, with AC/DC Charger)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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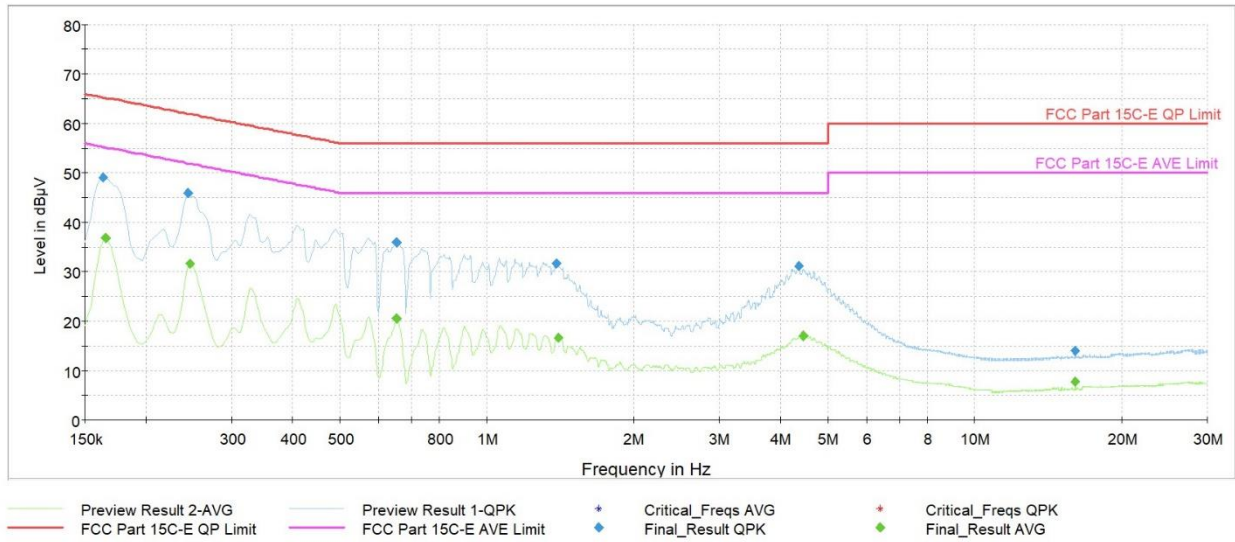


Plot 7-196. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (L1, with AC/DC Charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	49.9	—	65.28	-15.36	L1	GND
0.166	FINAL	—	37.52	55.17	-17.65	L1	GND
0.245	FINAL	46.3	—	61.94	-15.65	L1	GND
0.247	FINAL	—	31.96	51.87	-19.91	L1	GND
0.490	FINAL	39.3	—	56.17	-16.86	L1	GND
0.490	FINAL	—	23.44	46.17	-22.73	L1	GND
1.986	FINAL	—	12.59	46.00	-33.41	L1	GND
2.009	FINAL	24.6	—	56.00	-31.45	L1	GND
4.349	FINAL	32.1	—	56.00	-23.93	L1	GND
4.355	FINAL	—	19.03	46.00	-26.97	L1	GND
16.078	FINAL	—	12.25	50.00	-37.75	L1	GND
16.078	FINAL	17.9	—	60.00	-42.14	L1	GND

Table 7-44. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (L1, with AC/DC Charger)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-197. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (N, with AC/DC Charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	49.1	—	65.28	-16.22	N	GND
0.166	FINAL	—	36.80	55.17	-18.37	N	GND
0.245	FINAL	45.8	—	61.94	-16.10	N	GND
0.247	FINAL	—	31.69	51.87	-20.18	N	GND
0.654	FINAL	—	20.56	46.00	-25.44	N	GND
0.654	FINAL	35.9	—	56.00	-20.14	N	GND
1.388	FINAL	31.7	—	56.00	-24.32	N	GND
1.401	FINAL	—	16.72	46.00	-29.28	N	GND
4.355	FINAL	31.1	—	56.00	-24.93	N	GND
4.459	FINAL	—	16.96	46.00	-29.04	N	GND
16.080	FINAL	—	7.85	50.00	-42.15	N	GND
16.080	FINAL	14.1	—	60.00	-45.93	N	GND

Table 7-45. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (N, with AC/DC Charger)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2899, IC: 579C-A2899** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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