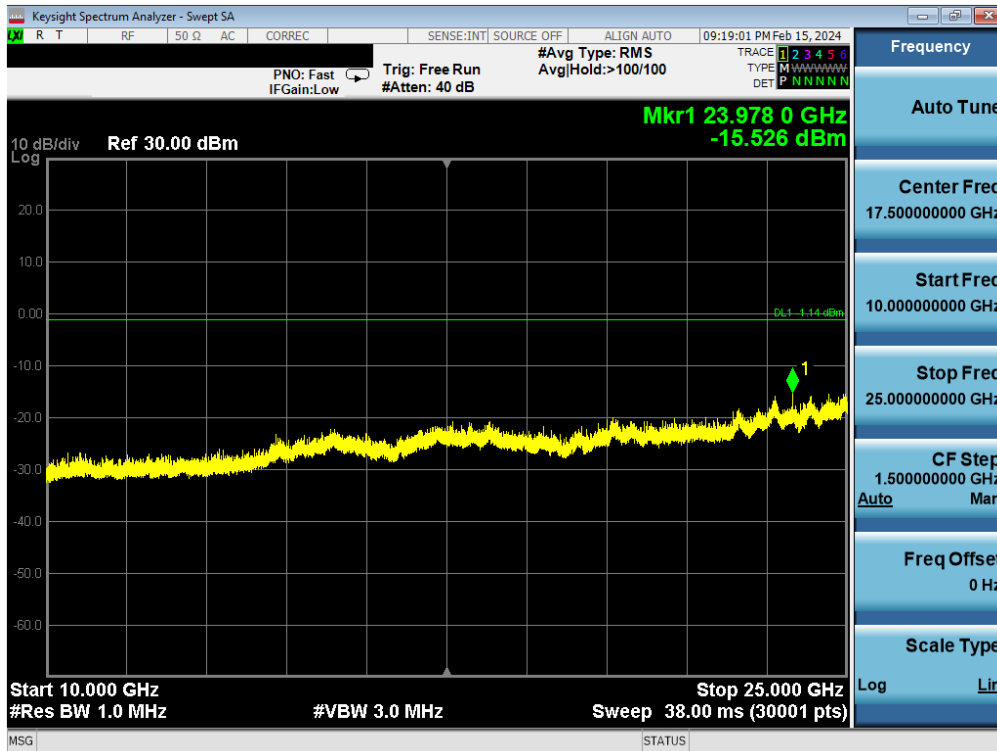
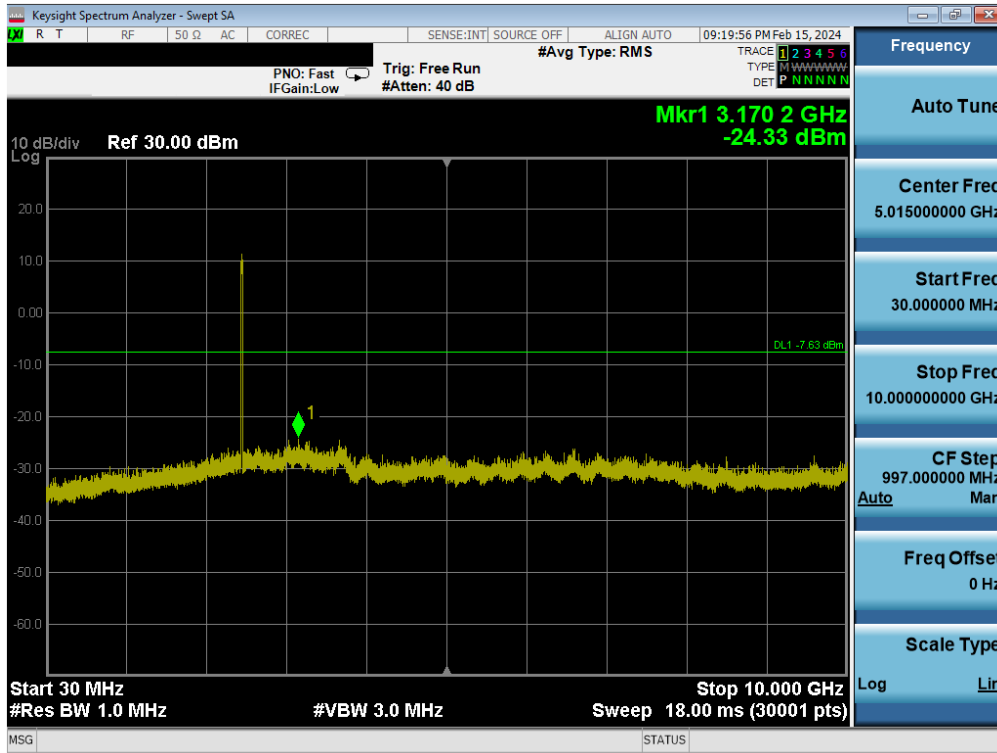


Plot 7-121. Conducted Spurious Plot Antenna 2a (802.11ax OFDMA – RU242 – Ch. 6)

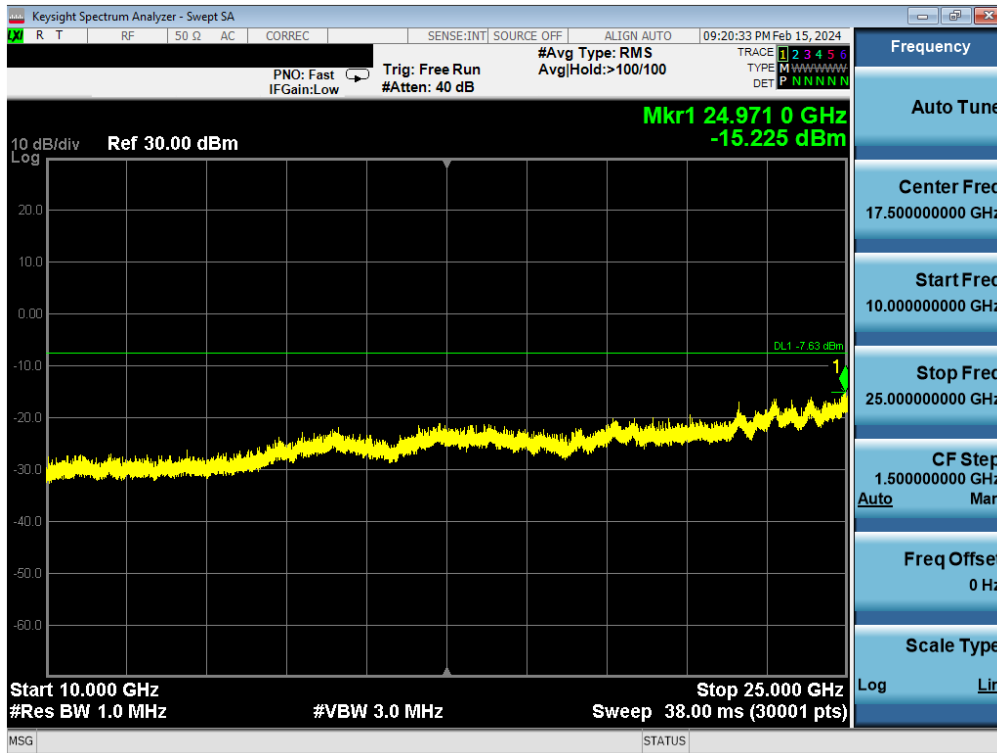


Plot 7-122. Conducted Spurious Plot Antenna 2a (802.11ax OFDMA – RU242 – Ch. 6)

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Plot 7-123. Conducted Spurious Plot Antenna 2a (802.11ax OFDMA – RU242 – Ch. 11)



Plot 7-124. Conducted Spurious Plot Antenna 2a (802.11ax OFDMA – RU242 – Ch. 11)

FCC ID: BCGA2837 IC: 579C-A2837		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

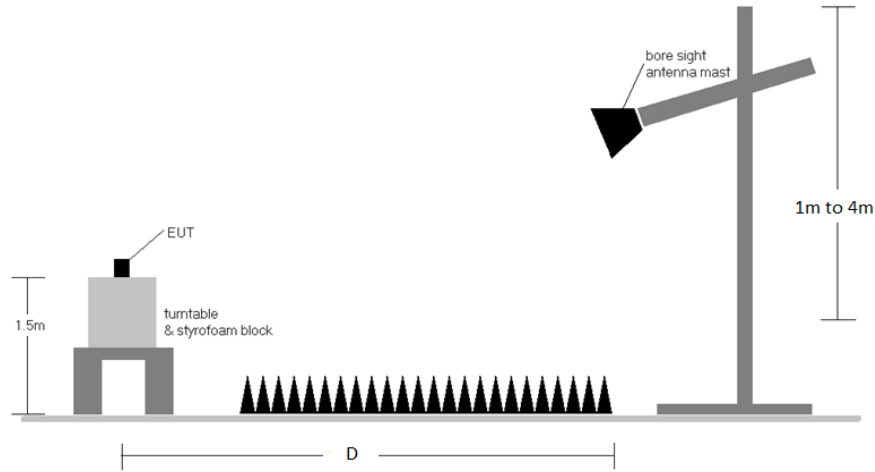
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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

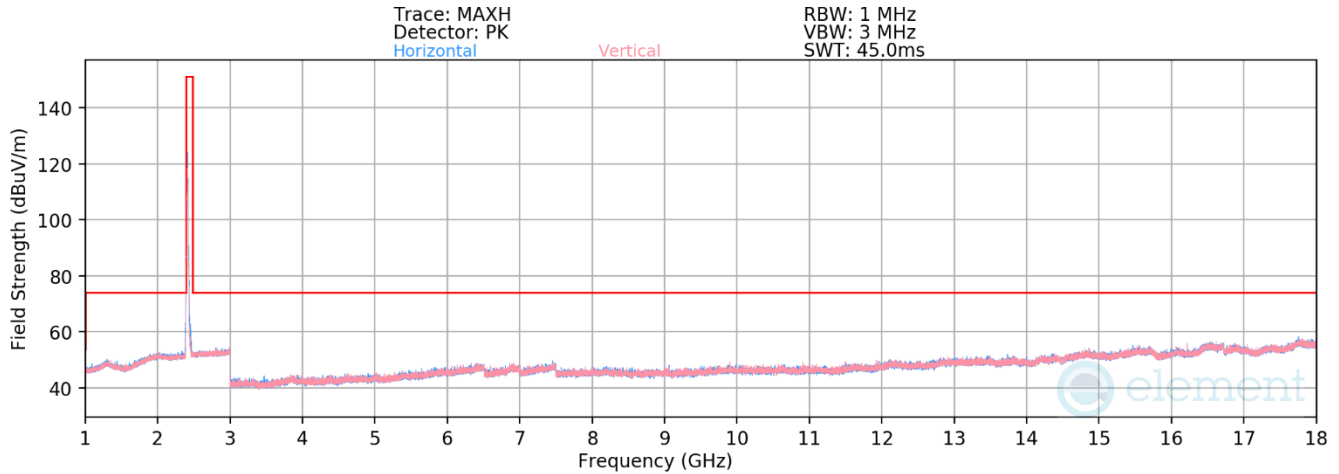
**Radiated Band Edge Measurement Offset**

- The amplitude offset shown in the radiated restricted band edge plots in Sections 7.7.4, 7.7.5, and 7.7.6 was 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 4a Radiated Spurious Emission Measurements

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



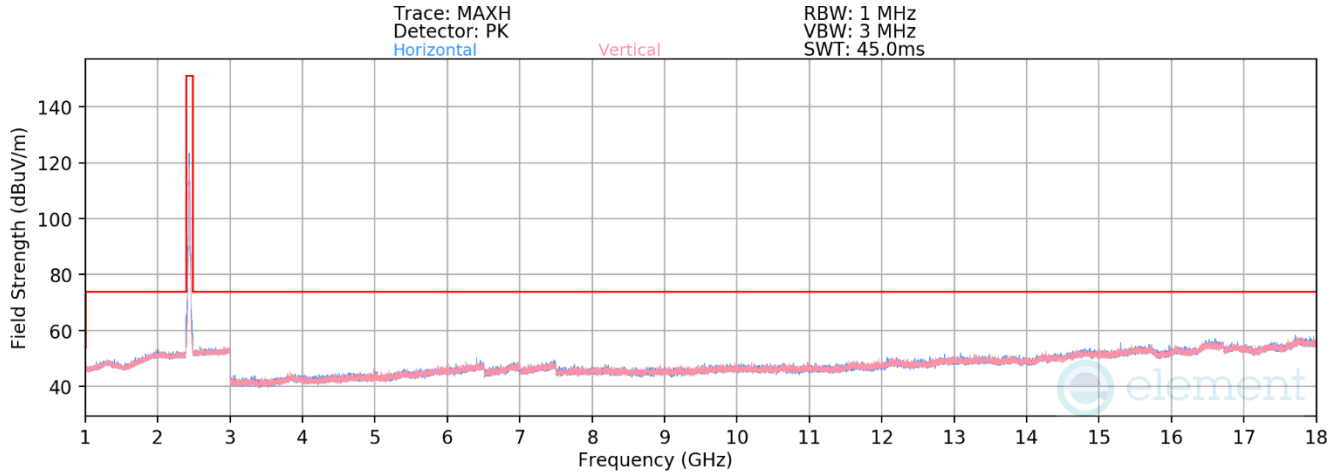
**Plot 7-125. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU26 – Ch. 1)**

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	Average	H	-	-	-77.40	4.22	33.82	53.98	-20.16
4824.00	Peak	H	-	-	-65.48	4.22	45.73	73.98	-28.25
12060.00	Average	H	-	-	-80.33	12.13	38.81	53.98	-15.17
12060.00	Peak	H	-	-	-67.73	11.95	51.22	73.98	-22.76

**Table 7-20. Radiated Measurements Antenna 4a (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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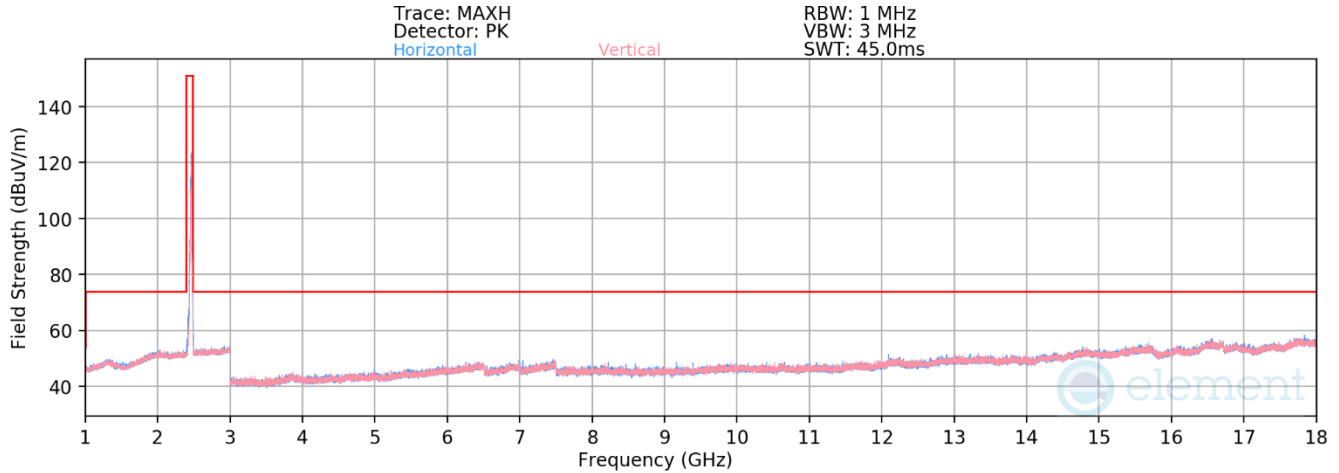
**Plot 7-126. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU26 – Ch. 6)**

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	Average	H	-	-	-77.58	4.32	33.74	53.98	-20.24
4874.00	Peak	H	-	-	-65.87	4.32	45.45	73.98	-28.53
7311.00	Average	H	-	-	-78.57	8.92	37.35	53.98	-16.63
7311.00	Peak	H	-	-	-66.96	8.92	48.96	73.98	-25.02
12185.00	Average	H	-	-	-80.41	12.42	39.01	53.98	-14.97
12185.00	Peak	H	-	-	-68.96	12.46	50.50	73.98	-23.48

**Table 7-21. Radiated Measurements Antenna 4a (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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**Plot 7-127. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU26 – Ch. 11)**

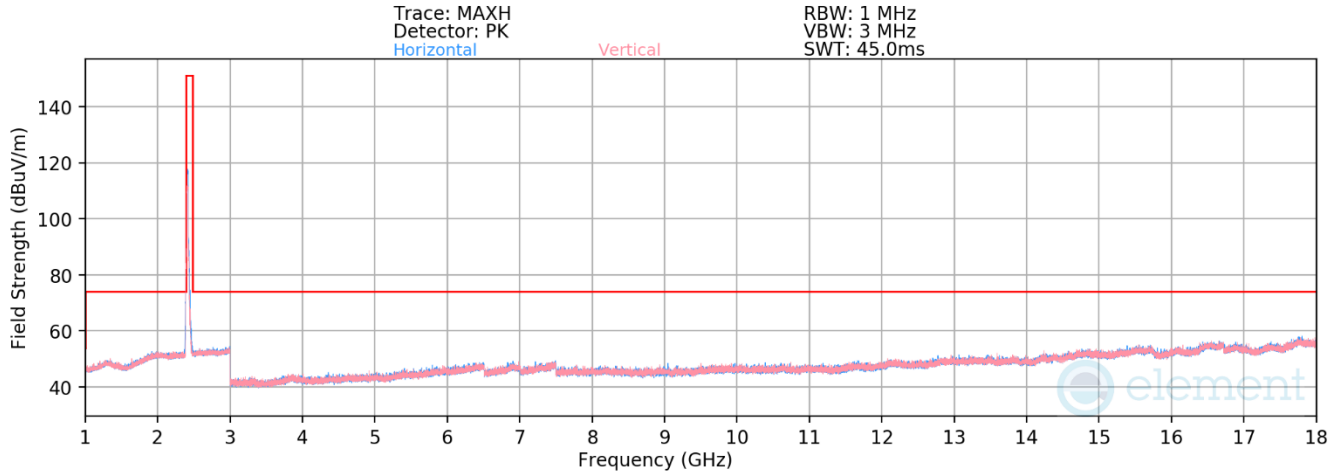
Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS9  
 RU Index: 4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

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	Average	H	-	-	-77.45	4.19	33.74	53.98	-20.24
4924.00	Peak	H	-	-	-65.80	4.19	45.39	73.98	-28.59
7386.00	Average	H	-	-	-78.23	8.52	37.29	53.98	-16.69
7386.00	Peak	H	-	-	-66.30	8.52	49.21	73.98	-24.77
12310.00	Average	H	-	-	-80.51	12.43	38.92	53.98	-15.06
12310.00	Peak	H	-	-	-68.99	12.43	50.44	73.98	-23.54

**Table 7-22. Radiated Measurements Antenna 4a (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 99 of 150





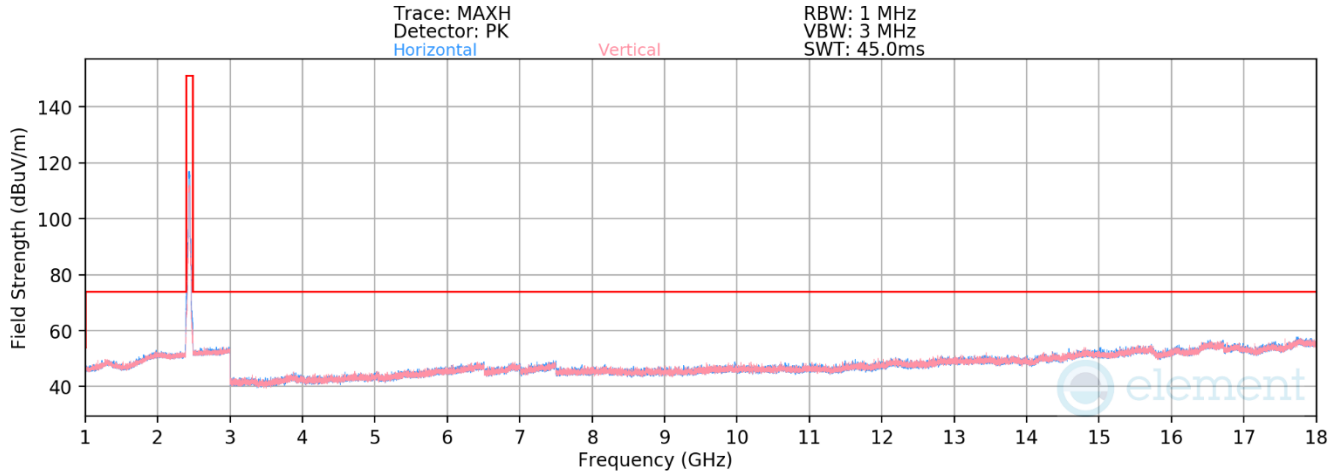
**Plot 7-128. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU242 – Ch. 1)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS9  
 RU Index: 61  
 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 [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4824.00	Average	H	-	-	-77.48	4.22	33.73	53.98	-20.25
4824.00	Peak	H	-	-	-65.85	4.29	45.45	73.98	-28.53
12060.00	Average	H	-	-	-80.55	12.27	38.72	53.98	-15.26
12060.00	Peak	H	-	-	-68.87	12.13	50.26	73.98	-23.72

**Table 7-23. Radiated Measurements Antenna 4a (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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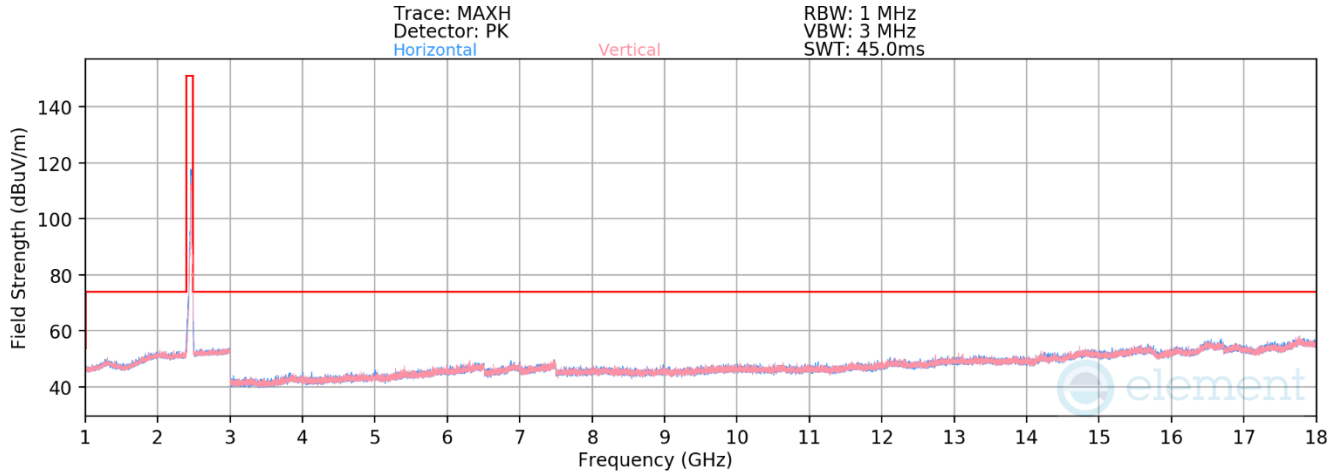
**Plot 7-129. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU242 – Ch. 6)**

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	Average	H	-	-	-77.17	4.32	34.16	53.98	-19.82
4874.00	Peak	H	-	-	-65.01	4.32	46.31	73.98	-27.67
7311.00	Average	H	-	-	-78.75	8.92	37.18	53.98	-16.80
7311.00	Peak	H	-	-	-66.79	8.92	49.13	73.98	-24.85
12185.00	Average	H	-	-	-80.43	12.46	39.03	53.98	-14.95
12185.00	Peak	H	-	-	-68.61	12.46	50.85	73.98	-23.13

**Table 7-24. Radiated Measurements Antenna 4a (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
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**Plot 7-130. Radiated Spurious Emissions above 1GHz Antenna 4a (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

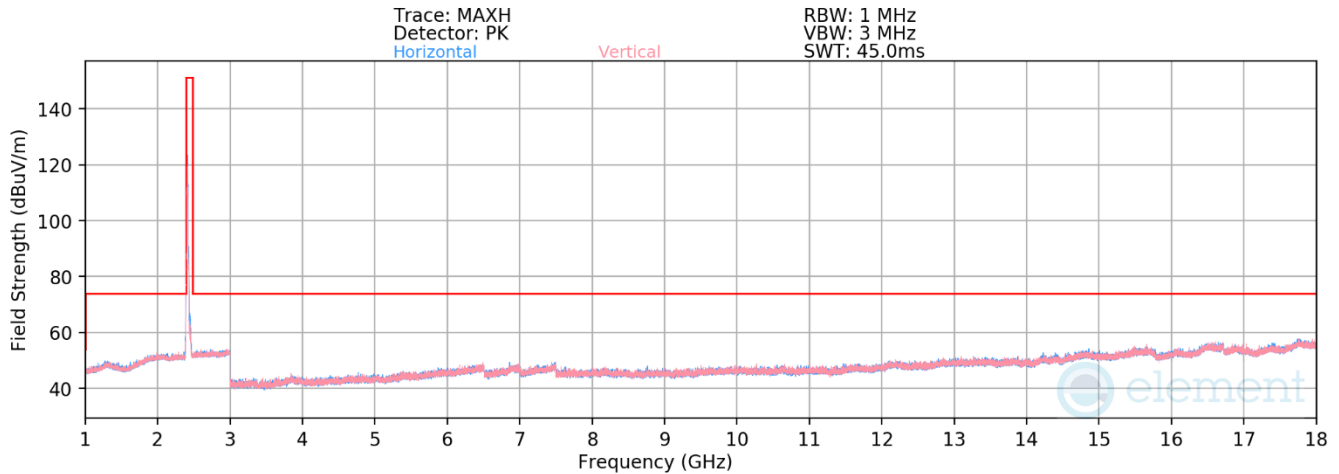
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4924.00	Average	H	-	-	-77.60	4.39	33.79	53.98	-20.19
4924.00	Peak	H	-	-	-65.80	4.39	45.60	73.98	-28.38
7386.00	Average	H	-	-	-78.51	8.61	37.10	53.98	-16.88
7386.00	Peak	H	-	-	-66.93	8.61	48.68	73.98	-25.30
12310.00	Average	H	-	-	-80.78	12.41	38.63	53.98	-15.35
12310.00	Peak	H	-	-	-68.95	12.41	50.46	73.98	-23.52

**Table 7-25. Radiated Measurements Antenna 4a (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 7.7.2 Antenna 2a Radiated Spurious Emission Measurements

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



**Plot 7-131. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU26 – Ch. 1)**

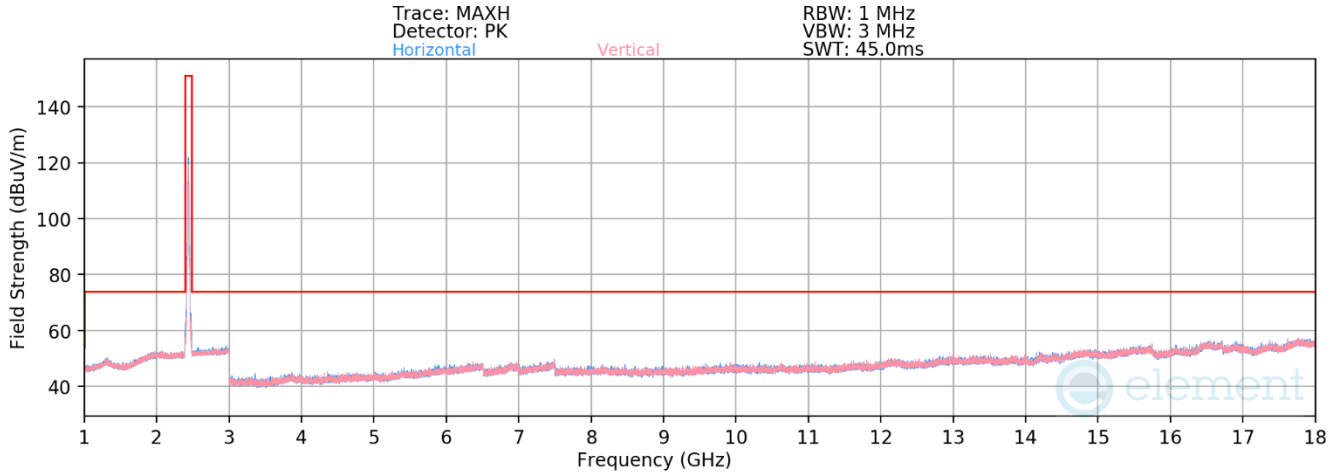
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS9
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

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	Average	H	-	-	-77.52	4.22	33.70	53.98	-20.28
4824.00	Peak	H	-	-	-65.46	4.22	45.75	73.98	-28.23
12060.00	Average	H	-	-	-80.14	12.13	38.99	53.98	-14.99
12060.00	Peak	H	-	-	-68.35	11.95	50.60	73.98	-23.38

**Table 7-26. Radiated Measurements Antenna 2a (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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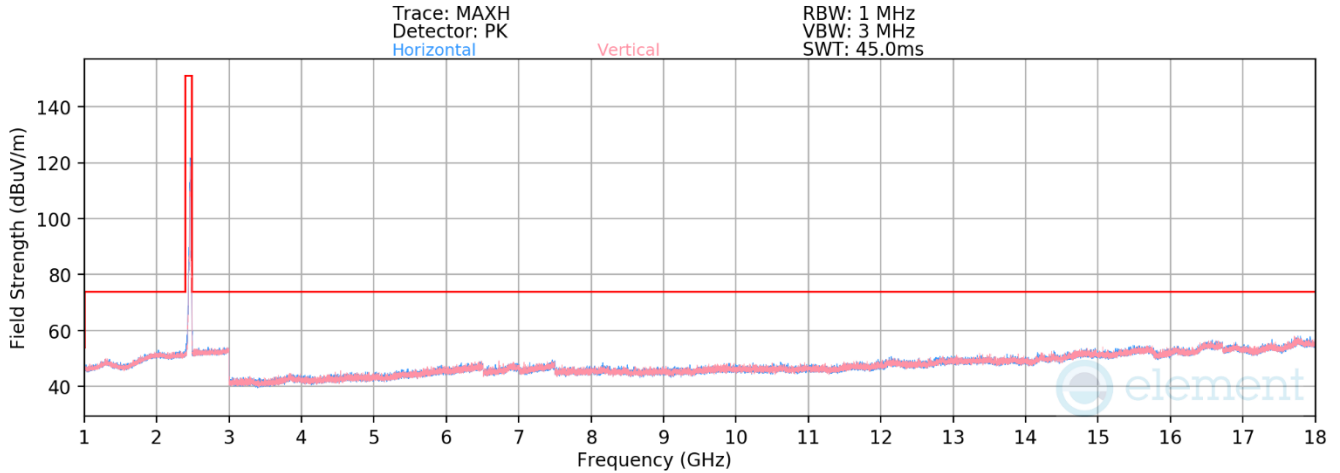
**Plot 7-132. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU26 – Ch. 6)**

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	Average	H	-	-	-77.42	4.32	33.91	53.98	-20.07
4874.00	Peak	H	-	-	-65.49	4.32	45.84	73.98	-28.14
7311.00	Average	H	-	-	-78.52	8.84	37.32	53.98	-16.66
7311.00	Peak	H	-	-	-66.44	8.84	49.39	73.98	-24.59
12185.00	Average	H	-	-	-80.53	12.46	38.93	53.98	-15.05
12185.00	Peak	H	-	-	-69.43	12.42	49.99	73.98	-23.99

**Table 7-27. Radiated Measurements Antenna 2a (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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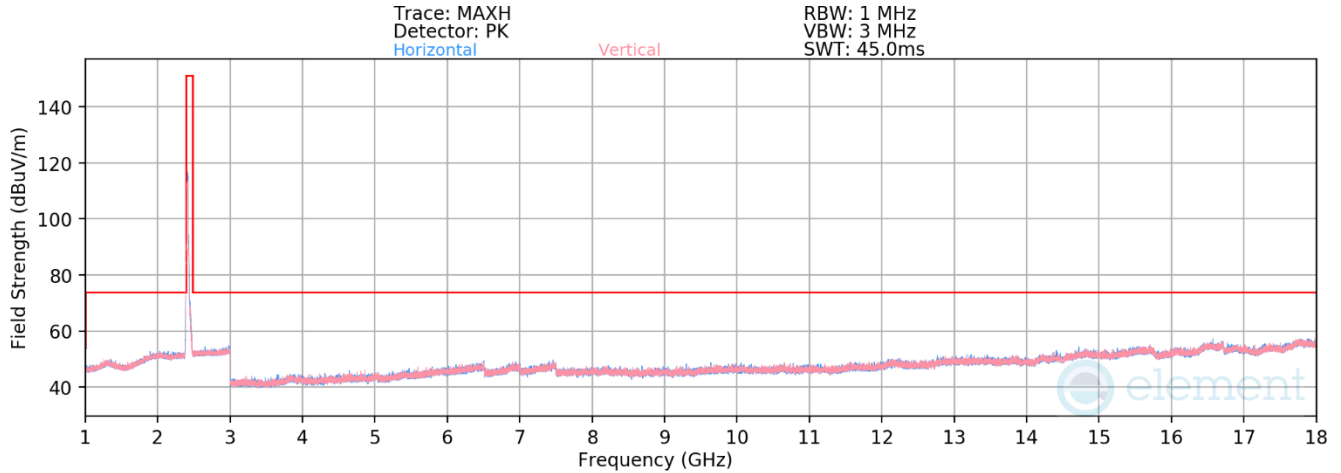
**Plot 7-133. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU26 – Ch. 11)**

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	Average	H	-	-	-77.60	4.31	33.71	53.98	-20.27
4924.00	Peak	H	-	-	-65.83	4.31	45.48	73.98	-28.50
7386.00	Average	H	-	-	-78.22	8.52	37.30	53.98	-16.68
7386.00	Peak	H	-	-	-66.35	8.52	49.17	73.98	-24.81
12310.00	Average	H	-	-	-80.71	12.48	38.77	53.98	-15.21
12310.00	Peak	H	-	-	-68.63	12.34	50.71	73.98	-23.27

**Table 7-28. Radiated Measurements Antenna 2a (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 105 of 150



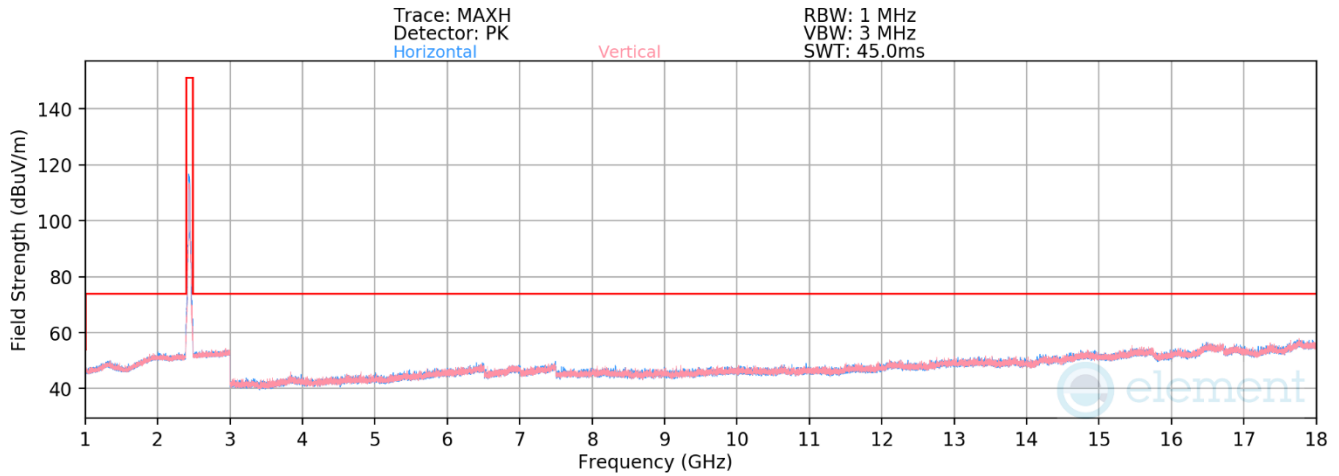
**Plot 7-134. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU242 – Ch. 1)**

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	Average	H	-	-	-77.59	4.22	33.64	53.98	-20.34
4824.00	Peak	H	-	-	-65.79	4.22	45.43	73.98	-28.55
12060.00	Average	H	-	-	-80.14	11.75	38.60	53.98	-15.38
12060.00	Peak	H	-	-	-68.93	11.97	50.04	73.98	-23.94

**Table 7-29. Radiated Measurements Antenna 2a (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device		Page 106 of 150



**Plot 7-135. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU242 – Ch. 6)**

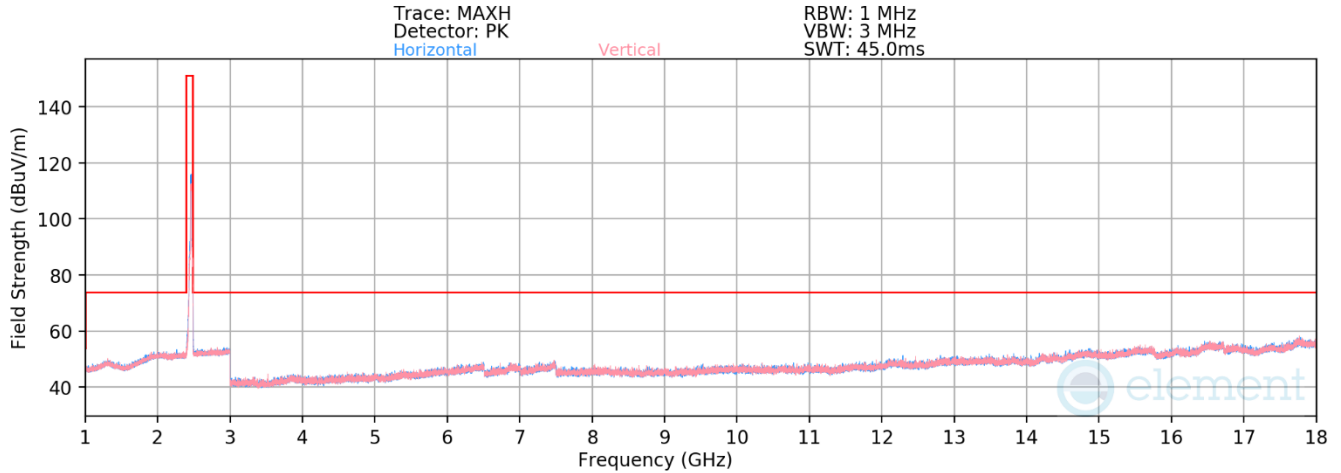
Worst Case Mode: 802.11ax OFDMA  
Worst Case Transfer Rate: MCS9  
RU Index: 61  
Distance of Measurements: 3 Meters  
Operating Frequency: 2437MHz  
Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4874.00	Average	H	-	-	-77.79	4.32	33.54	53.98	-20.44
4874.00	Peak	H	-	-	-66.16	4.32	45.17	73.98	-28.81
7311.00	Average	H	-	-	-78.47	8.84	37.37	53.98	-16.61
7311.00	Peak	H	-	-	-66.91	8.84	48.93	73.98	-25.05
12185.00	Average	H	-	-	-80.32	12.46	39.14	53.98	-14.84
12185.00	Peak	H	-	-	-68.63	12.46	50.83	73.98	-23.15

**Table 7-30. Radiated Measurements Antenna 2a (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device		Page 107 of 150





**Plot 7-136. Radiated Spurious Emissions above 1GHz Antenna 2a (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

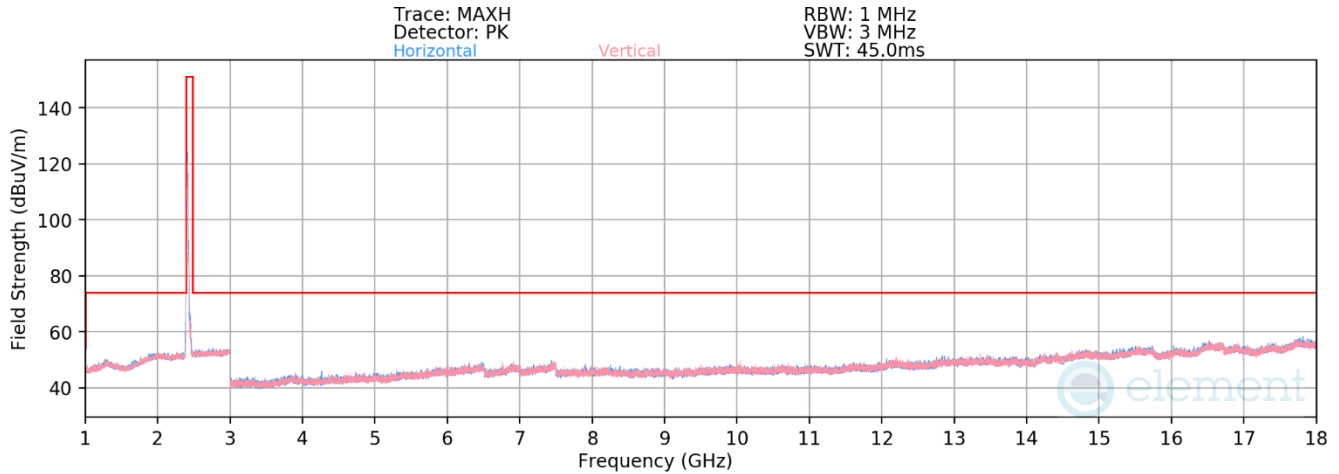
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4924.00	Average	H	-	-	-77.53	4.31	33.78	53.98	-20.20
4924.00	Peak	H	-	-	-65.51	4.31	45.80	73.98	-28.18
7386.00	Average	H	-	-	-78.38	8.69	37.30	53.98	-16.68
7386.00	Peak	H	-	-	-66.45	8.69	49.24	73.98	-24.74
12310.00	Average	H	-	-	-80.43	12.48	39.05	53.98	-14.93
12310.00	Peak	H	-	-	-68.88	12.43	50.55	73.98	-23.43

**Table 7-31. Radiated Measurements Antenna 2a (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device		Page 108 of 150

### 7.7.3 CDD Radiated Spurious Emission Measurements

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



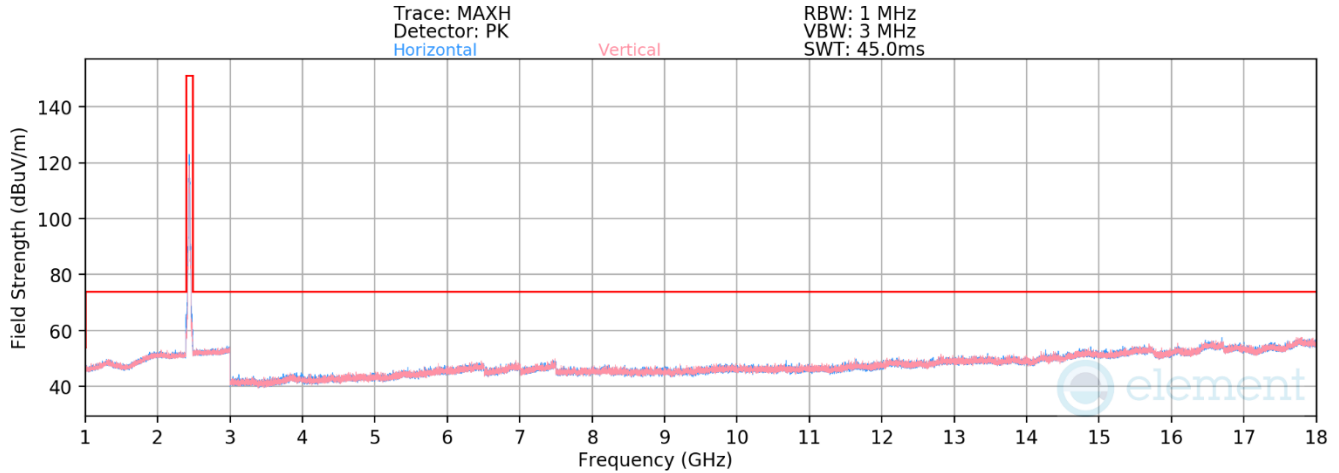
**Plot 7-137. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 1)**

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	Average	H	-	-	-77.38	4.22	33.84	53.98	-20.14
4824.00	Peak	H	-	-	-65.48	4.22	45.73	73.98	-28.25
12060.00	Average	H	-	-	-80.01	12.13	39.12	53.98	-14.86
12060.00	Peak	H	-	-	-68.80	12.13	50.33	73.98	-23.65

**Table 7-32. Radiated Measurements CDD (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device		Page 109 of 150



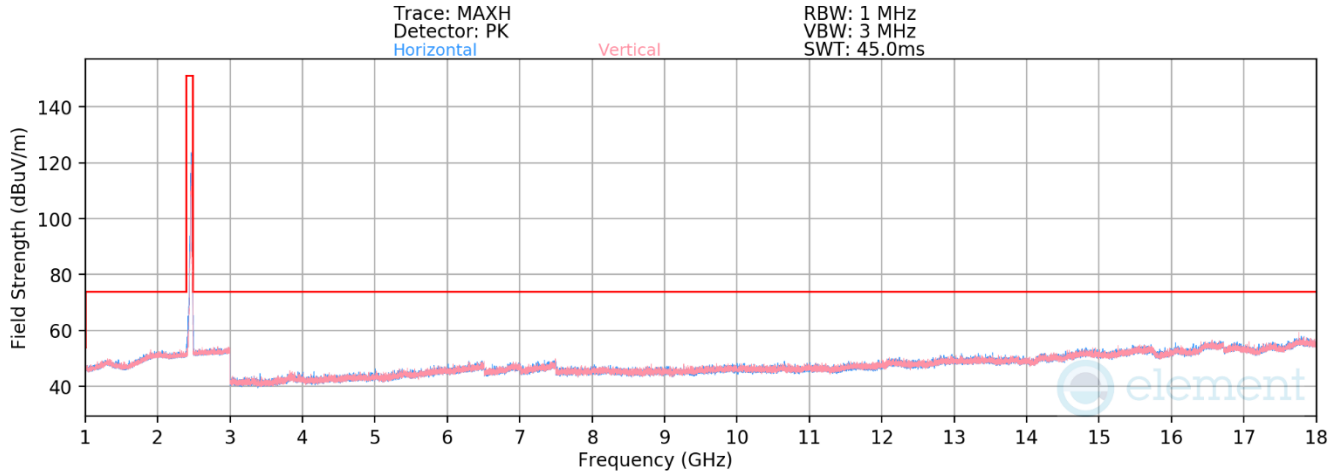
**Plot 7-138. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 6)**

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	Average	H	-	-	-77.49	4.32	33.83	53.98	-20.15
4874.00	Peak	H	-	-	-66.02	4.32	45.30	73.98	-28.68
7311.00	Average	H	-	-	-78.59	8.92	37.33	53.98	-16.65
7311.00	Peak	H	-	-	-66.50	8.92	49.42	73.98	-24.56
12185.00	Average	H	-	-	-80.41	12.46	39.05	53.98	-14.93
12185.00	Peak	H	-	-	-68.79	12.46	50.67	73.98	-23.31

**Table 7-33. Radiated Measurements CDD (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 110 of 150



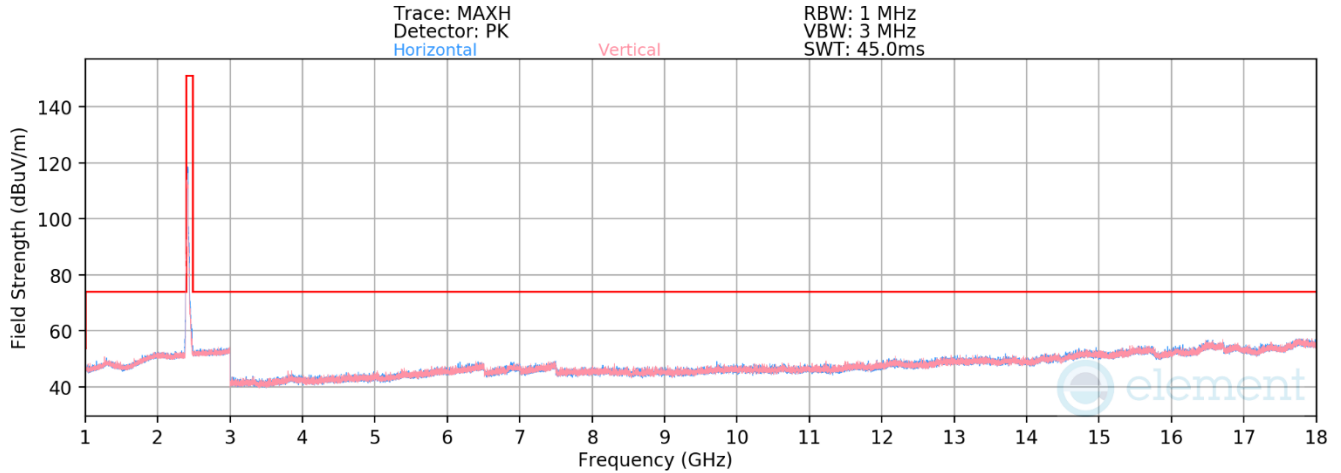
**Plot 7-139. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 11)**

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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Average	H	-	-	-77.20	4.19	33.99	53.98	-19.99
4924.00	Peak	H	-	-	-65.73	4.31	45.58	73.98	-28.40
7386.00	Average	H	-	-	-78.42	8.69	37.27	53.98	-16.71
7386.00	Peak	H	-	-	-66.52	8.69	49.17	73.98	-24.81
12310.00	Average	H	-	-	-80.46	12.43	38.97	53.98	-15.01
12310.00	Peak	H	-	-	-68.87	12.43	50.56	73.98	-23.42

**Table 7-34. Radiated Measurements CDD (RU26)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 111 of 150



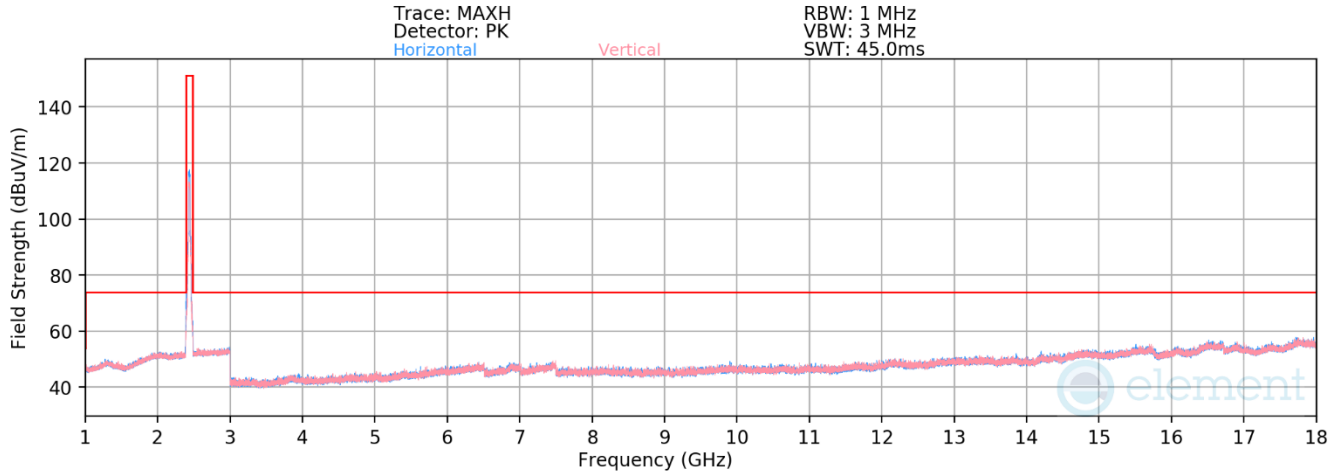
**Plot 7-140. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 1)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS9  
 RU Index: 61  
 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	Average	H	-	-	-77.31	4.22	33.91	53.98	-20.07
4824.00	Peak	H	-	-	-65.34	4.22	45.88	73.98	-28.10
12060.00	Average	H	-	-	-80.11	12.13	39.02	53.98	-14.96
12060.00	Peak	H	-	-	-68.20	11.95	50.75	73.98	-23.23

**Table 7-35. Radiated Measurements CDD (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 112 of 150



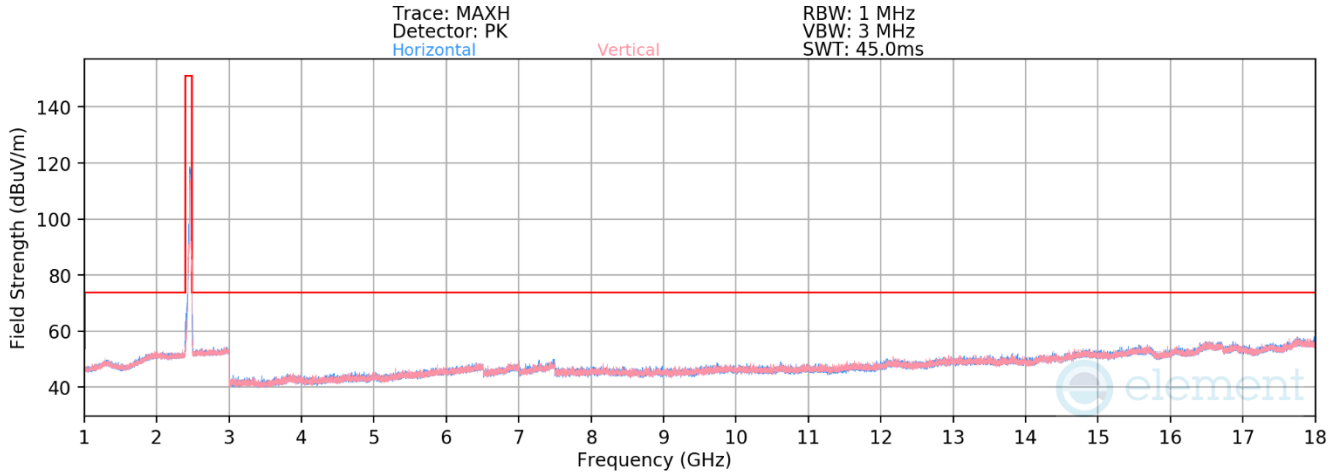
**Plot 7-141. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 6)**

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	Average	H	-	-	-77.50	4.32	33.83	53.98	-20.15
4874.00	Peak	H	-	-	-65.57	4.32	45.76	73.98	-28.22
7311.00	Average	H	-	-	-78.39	8.84	37.45	53.98	-16.53
7311.00	Peak	H	-	-	-66.84	8.84	49.00	73.98	-24.98
12185.00	Average	H	-	-	-79.99	12.28	39.30	53.98	-14.68
12185.00	Peak	H	-	-	-68.84	12.46	50.62	73.98	-23.36

**Table 7-36. Radiated Measurements CDD (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device		Page 113 of 150



**Plot 7-142. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 11)**

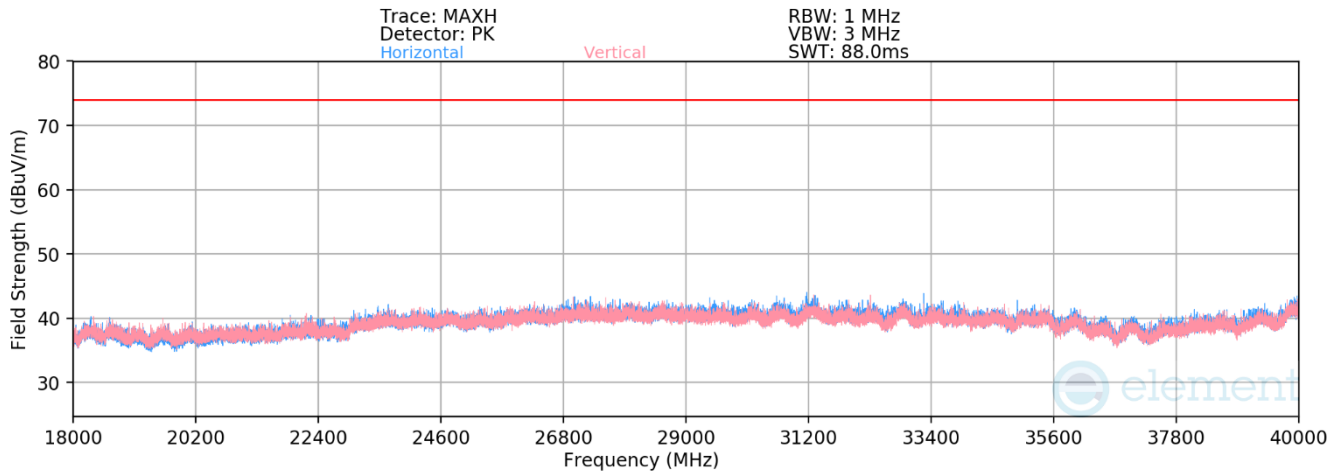
Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS9  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4924.00	Average	H	-	-	-77.30	4.31	34.01	53.98	-19.97
4924.00	Peak	H	-	-	-65.38	4.31	45.93	73.98	-28.05
7386.00	Average	H	-	-	-78.35	8.69	37.33	53.98	-16.65
7386.00	Peak	H	-	-	-66.41	8.65	49.23	73.98	-24.75
12310.00	Average	H	-	-	-80.79	12.48	38.69	53.98	-15.29
12310.00	Peak	H	-	-	-69.43	12.48	50.04	73.98	-23.94

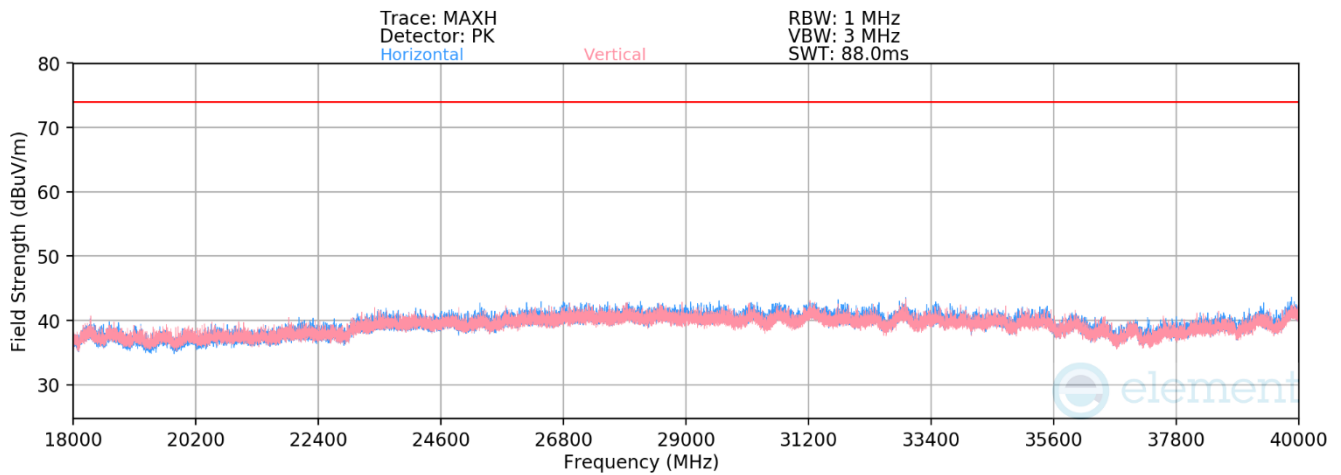
**Table 7-37. Radiated Measurements CDD (RU242)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device		Page 114 of 150

## Radiated Spurious Emissions Above 18GHz CDD



**Plot 7-143. Radiated Spurious Emissions above 18GHz CDD (802.11ax OFDMA – RU26 – Ch. 6)**



**Plot 7-144. Radiated Spurious Emissions above 18GHz CDD (802.11ax OFDMA – RU242 – Ch. 6)**

<b>FCC ID:</b> BCGA2837 <b>IC:</b> 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 115 of 150

V 10.6 09/14/2023

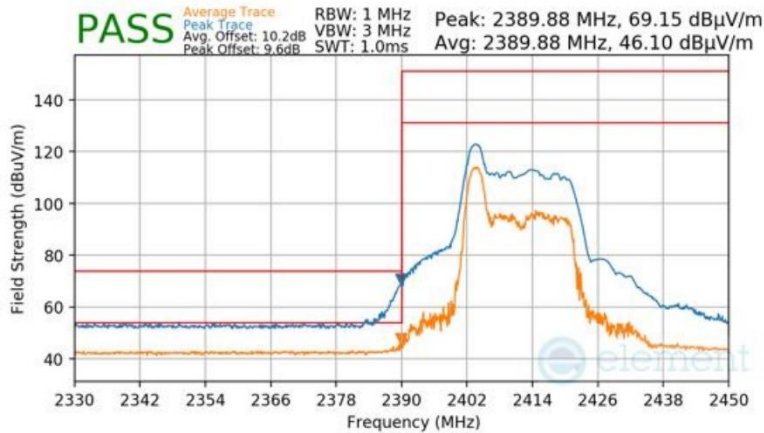


## 7.7.4 Antenna 4a Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

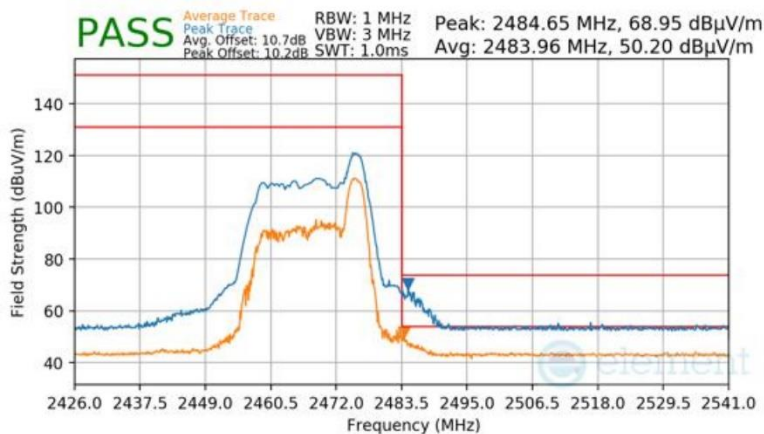
### RU26

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-145 Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU26)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12



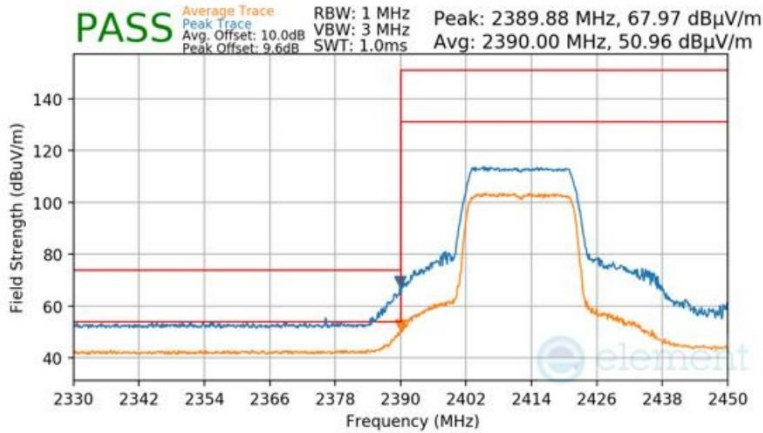
Plot 7-146 Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU26)

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 116 of 150

V 10.6 09/14/2023

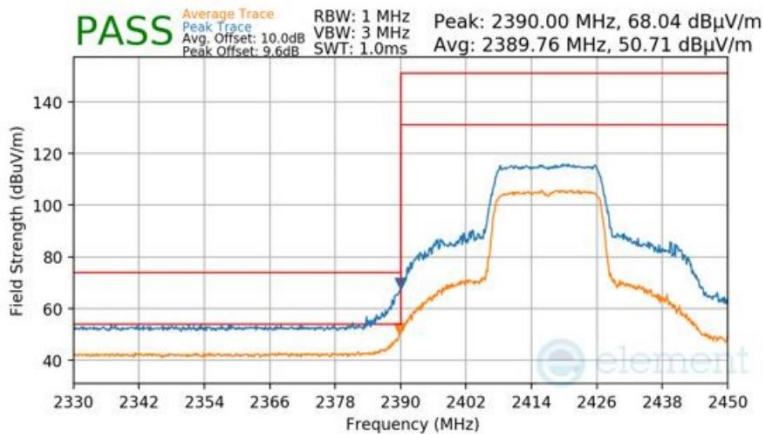
## RU242

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



Plot 7-147 Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

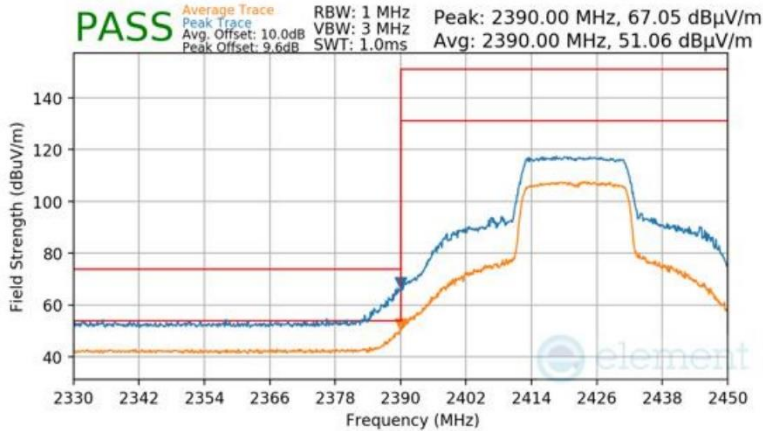
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



Plot 7-148 Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

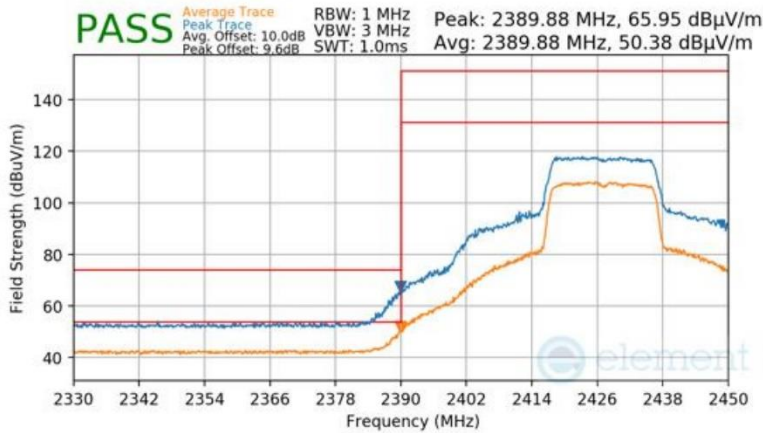
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 117 of 150

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



Plot 7-149 Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

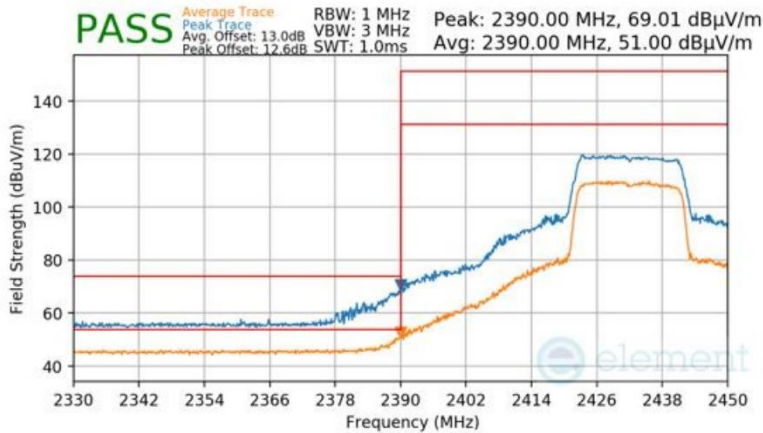
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2427MHz  
**Channel:** 4



Plot 7-150 Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

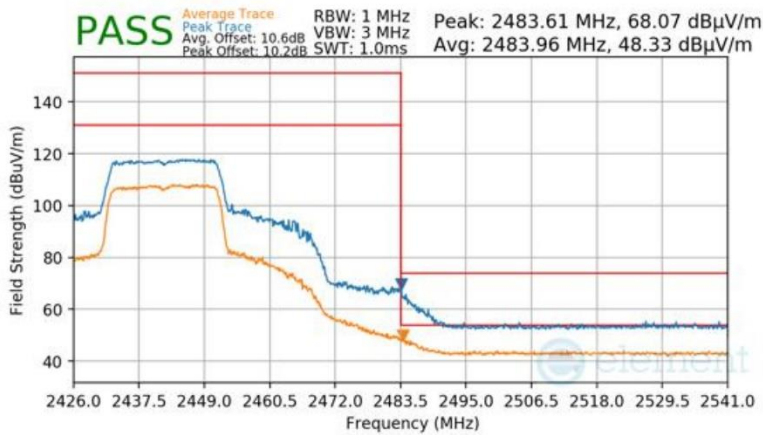
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 118 of 150

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



Plot 7-151 Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

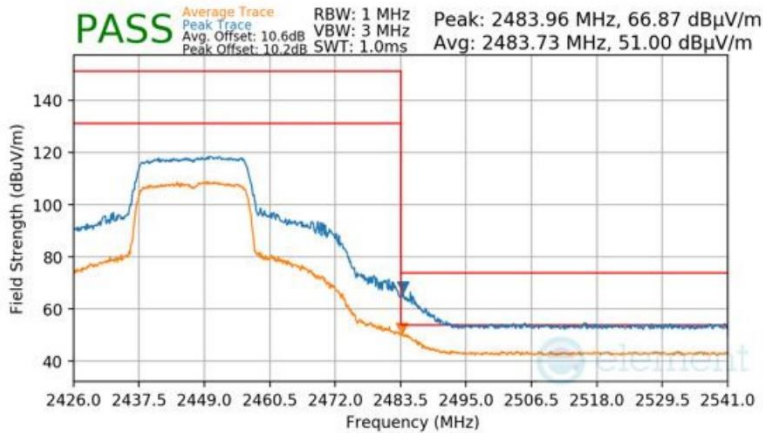
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2442MHz  
**Channel:** 7



Plot 7-152 Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

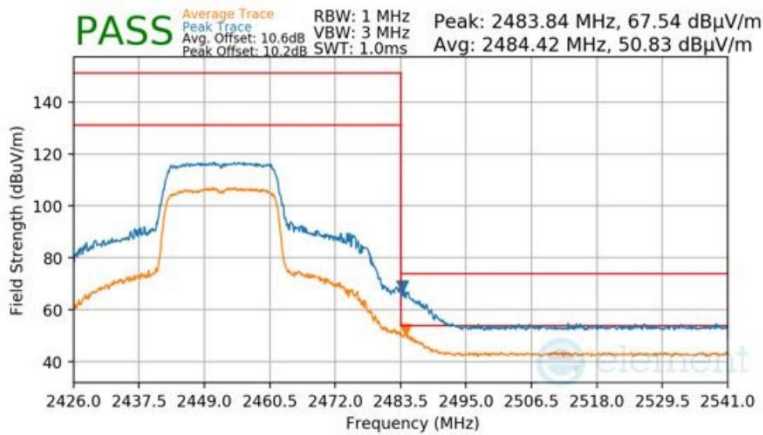
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 119 of 150

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



Plot 7-153 Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

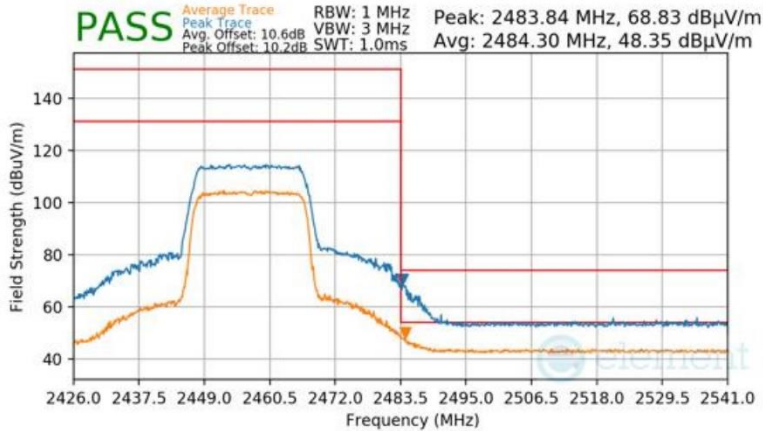
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2452MHz  
**Channel:** 9



Plot 7-154 Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

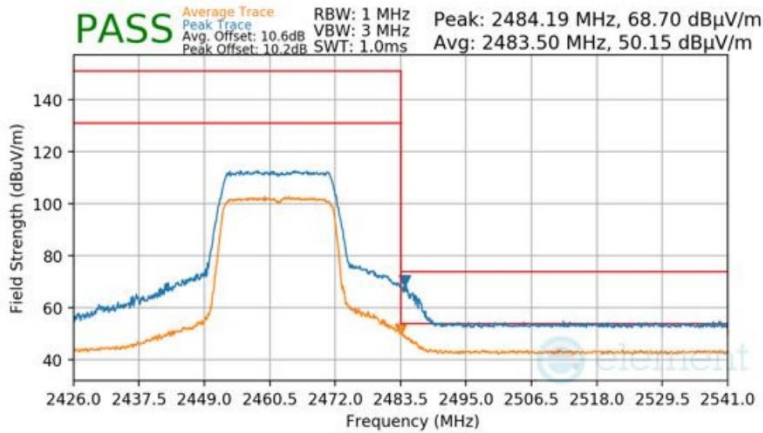
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 120 of 150

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



Plot 7-155 Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

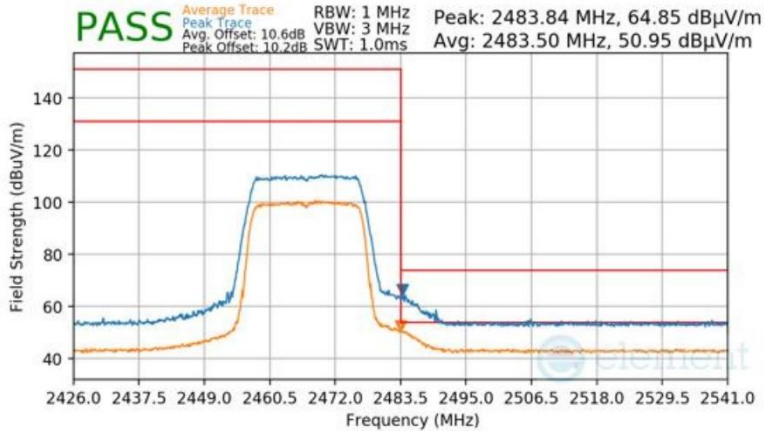
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2462MHz  
**Channel:** 11



Plot 7-156 Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 121 of 150

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



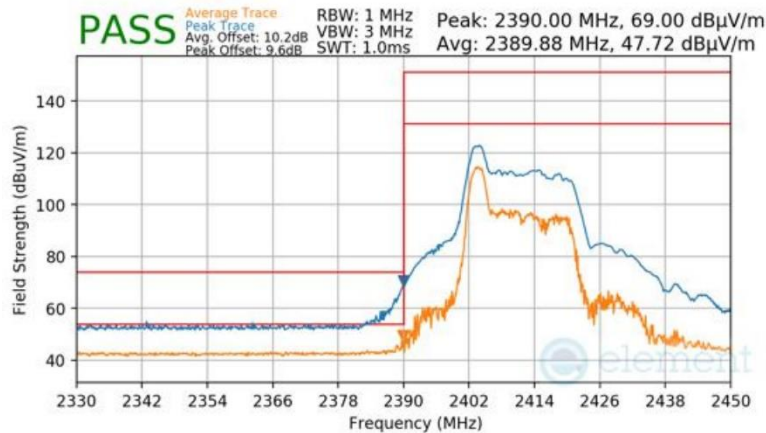
Plot 7-157 Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

FCC ID: BCGA2837 IC: 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG		<b>Test Dates:</b> 1/8/2024 - 3/15/2024

## 7.7.5 Antenna 2a Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

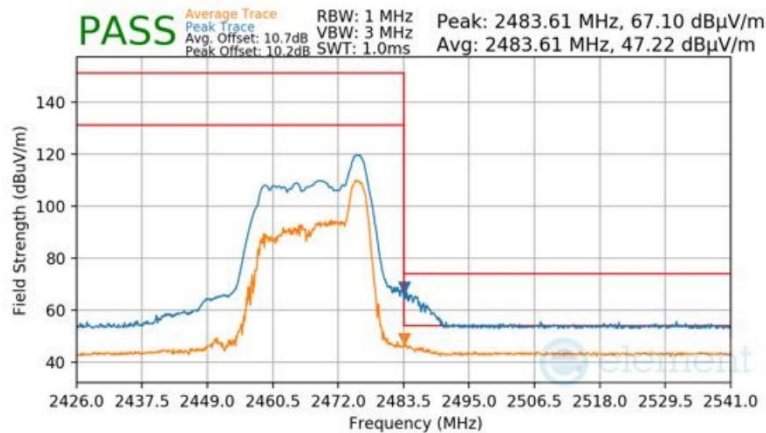
### RU26

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-158 Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12



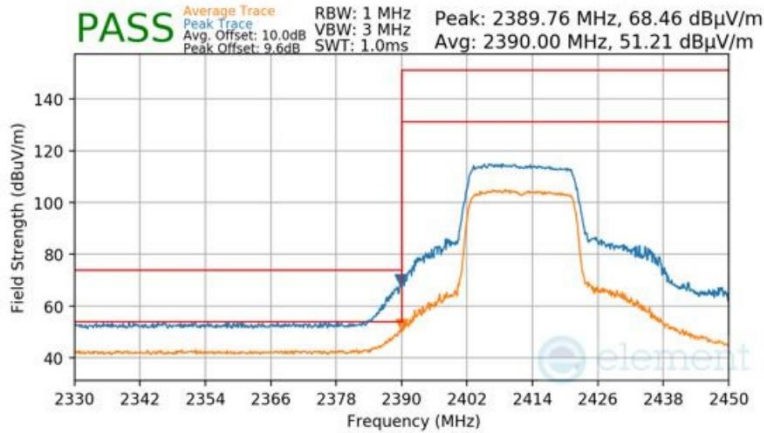
Plot 7-159 Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 123 of 150



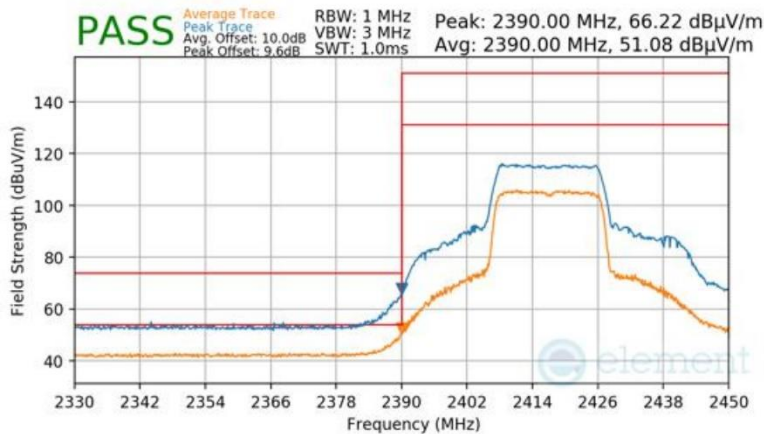
## RU242

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



Plot 7-160 Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

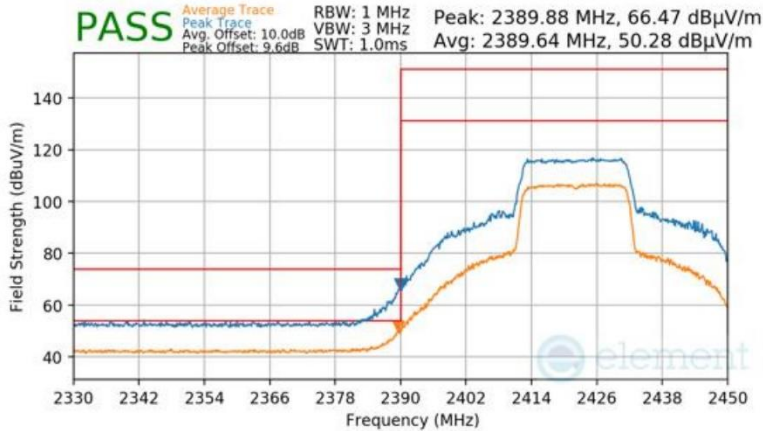
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



Plot 7-161 Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

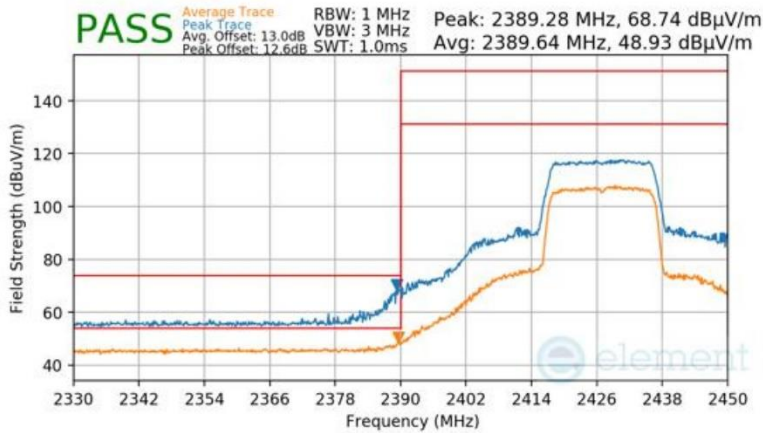
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 124 of 150

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



Plot 7-162 Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

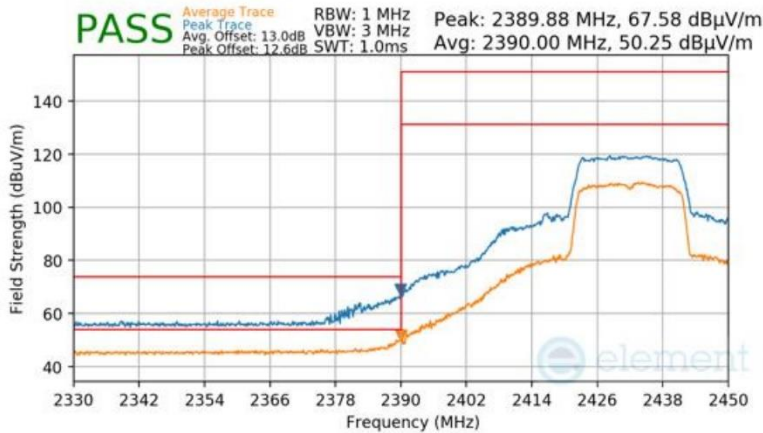
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2427MHz  
**Channel:** 4



Plot 7-163 Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

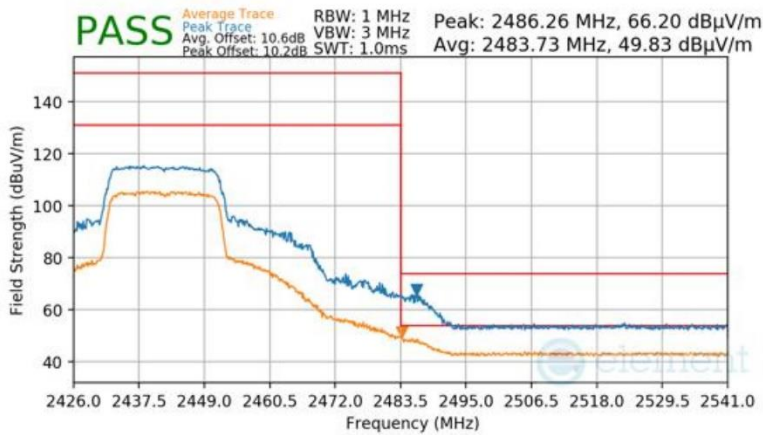
FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT</b> (CERTIFICATION)	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 125 of 150

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



Plot 7-164 Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

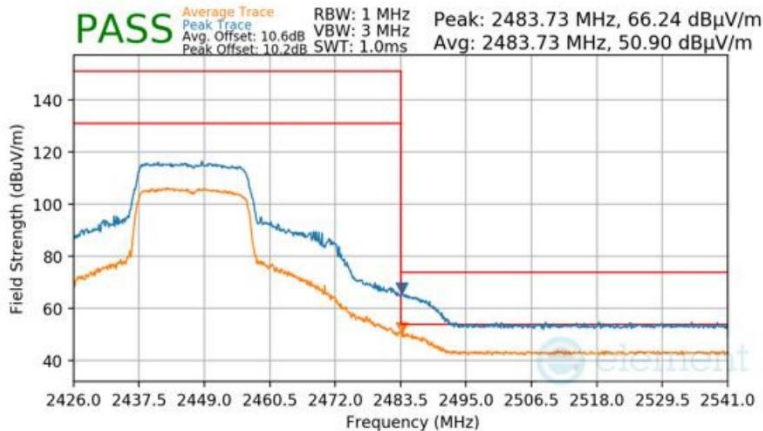
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2442MHz  
**Channel:** 7



Plot 7-165 Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

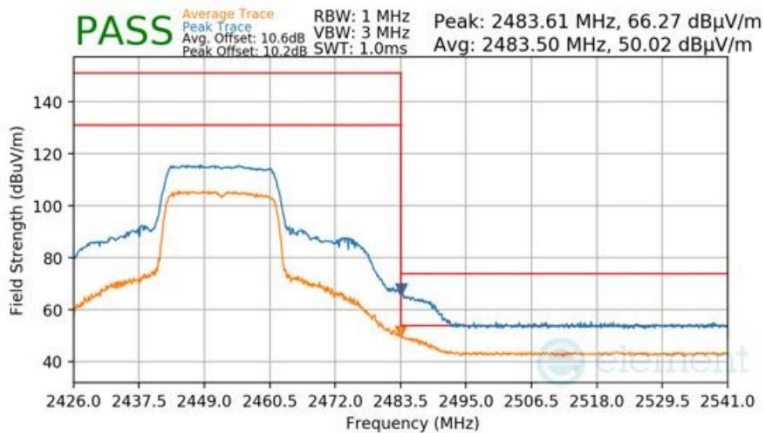
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 126 of 150

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



Plot 7-166 Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

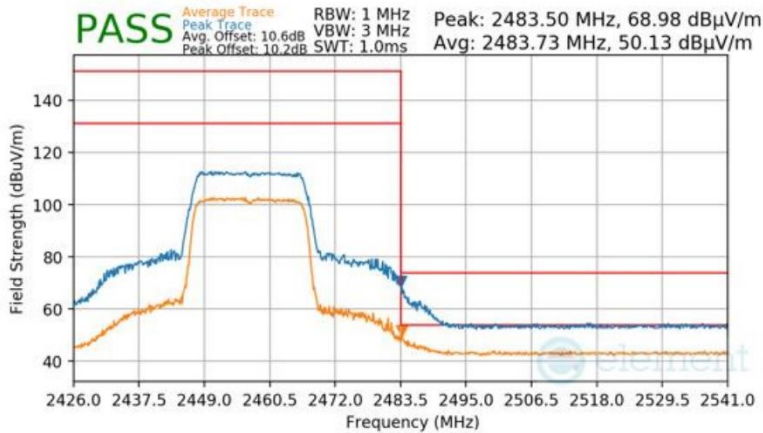
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2452MHz  
**Channel:** 9



Plot 7-167 Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

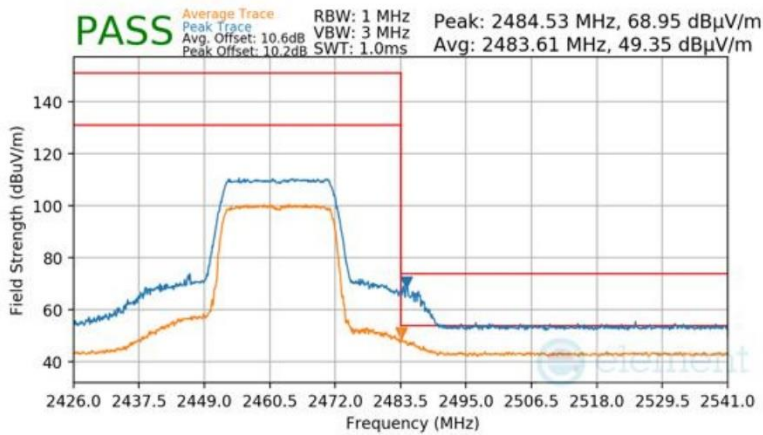
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 127 of 150

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



Plot 7-168 Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

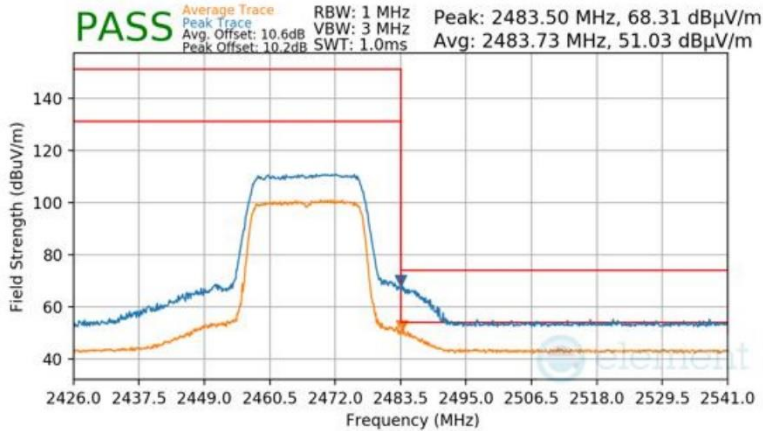
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2462MHz  
**Channel:** 11



Plot 7-169 Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 128 of 150

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



Plot 7-170 Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

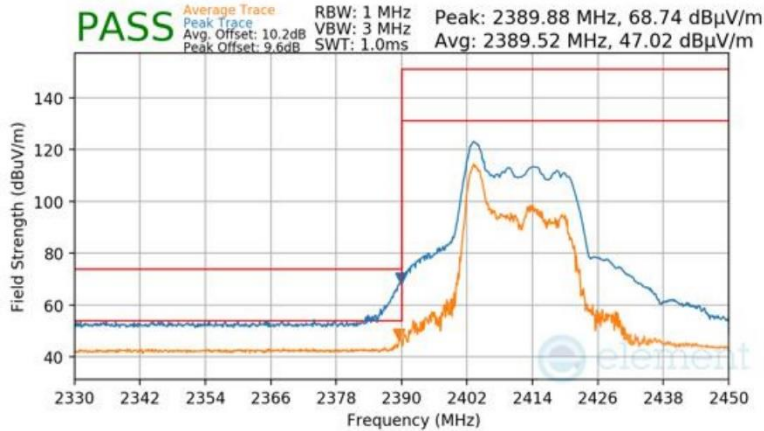
FCC ID: BCGA2837 IC: 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG		<b>Test Dates:</b> 1/8/2024 - 3/15/2024

## 7.7.6 CDD Primary Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

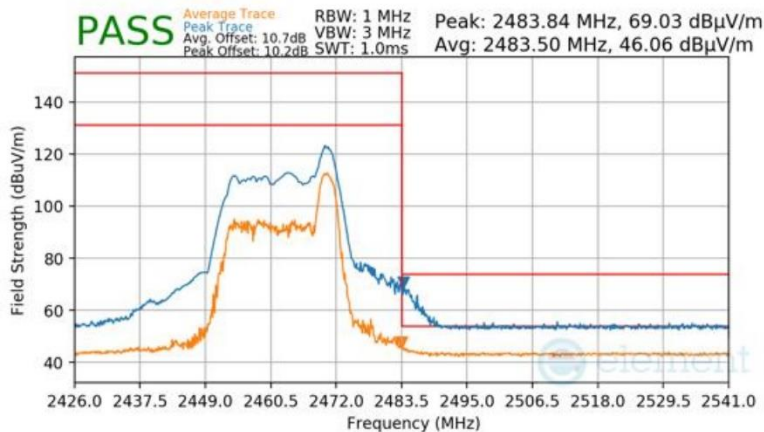
### RU26

Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-171 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

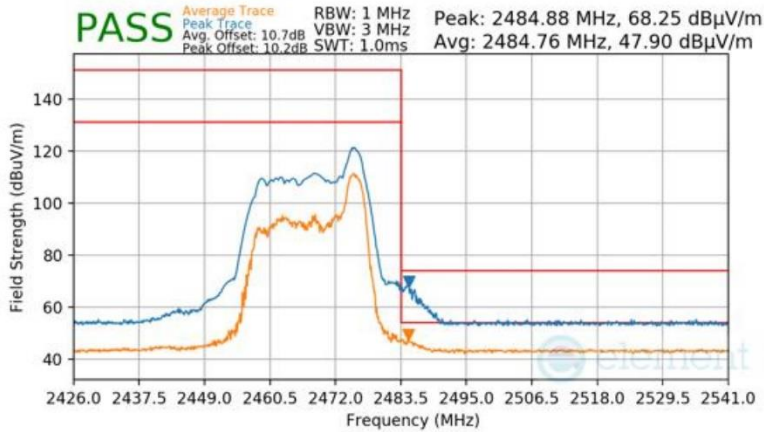
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



Plot 7-172 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 130 of 150

**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 8  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2467MHz  
**Channel:** 12



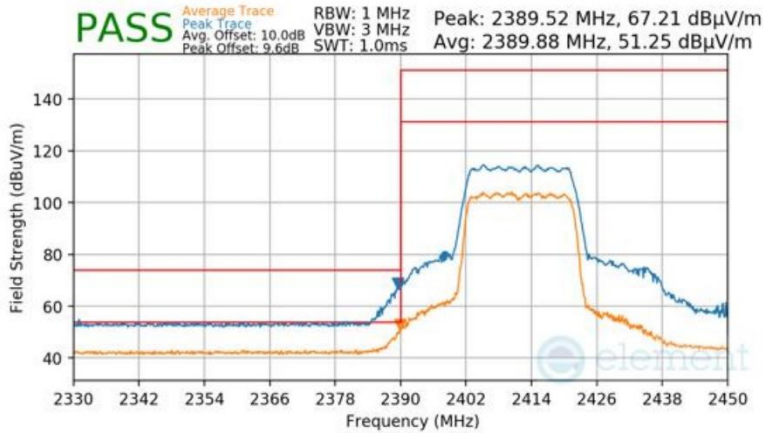
Plot 7-173 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

<b>FCC ID:</b> BCGA2837 <b>IC:</b> 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG		<b>Test Dates:</b> 1/8/2024 - 3/15/2024



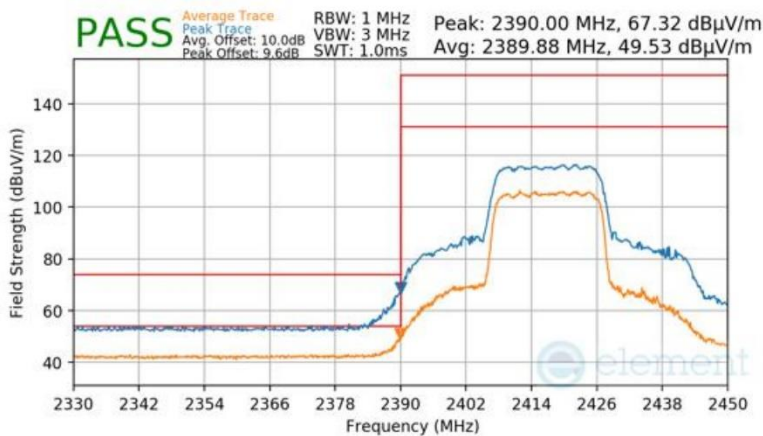
## RU242

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



Plot 7-174 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

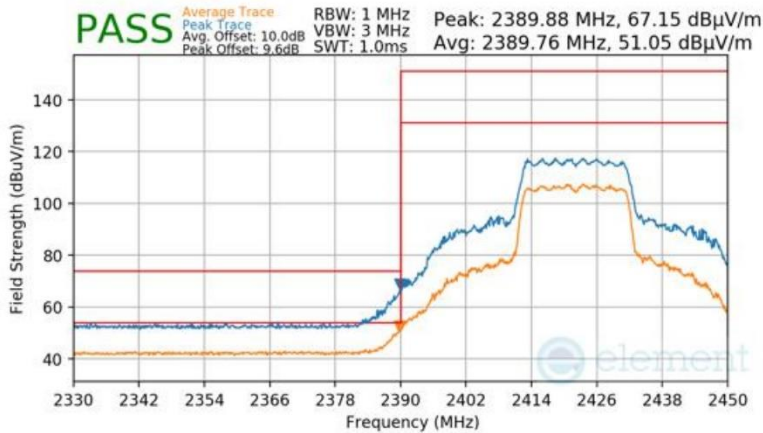
Mode:	802.11ax OFDMA
Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



Plot 7-175 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

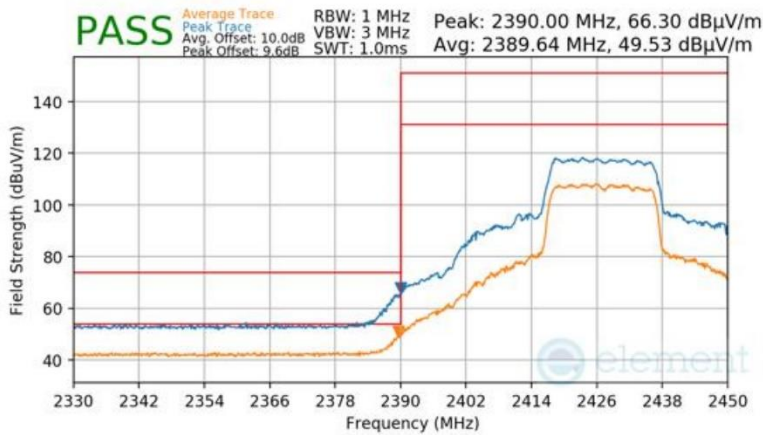
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 132 of 150

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



Plot 7-176 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

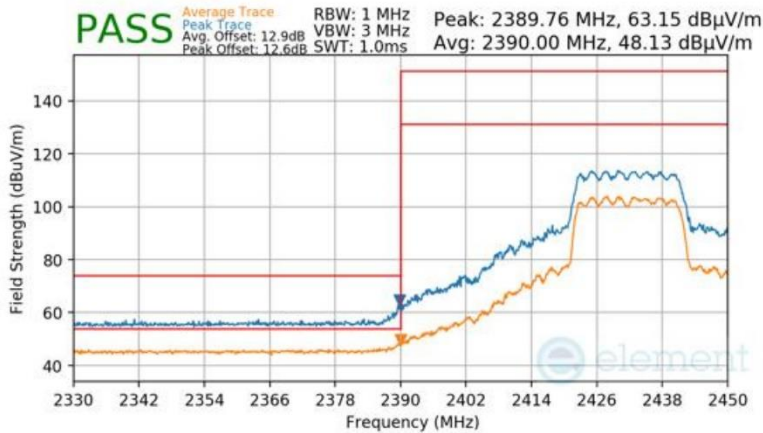
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2427MHz  
**Channel:** 4



Plot 7-177 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

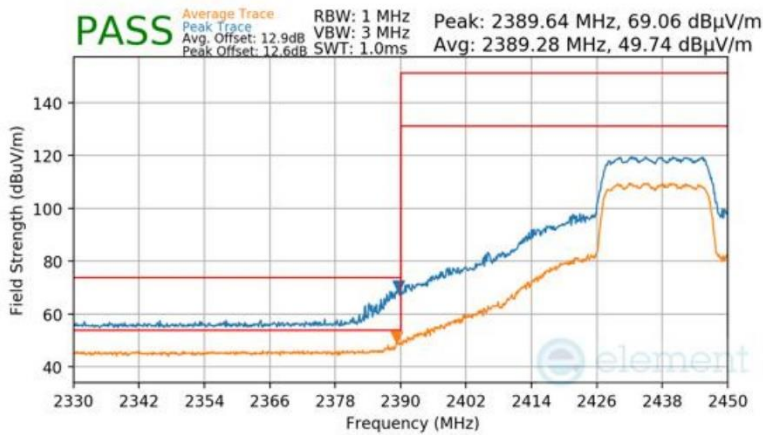
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 133 of 150

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



Plot 7-178 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

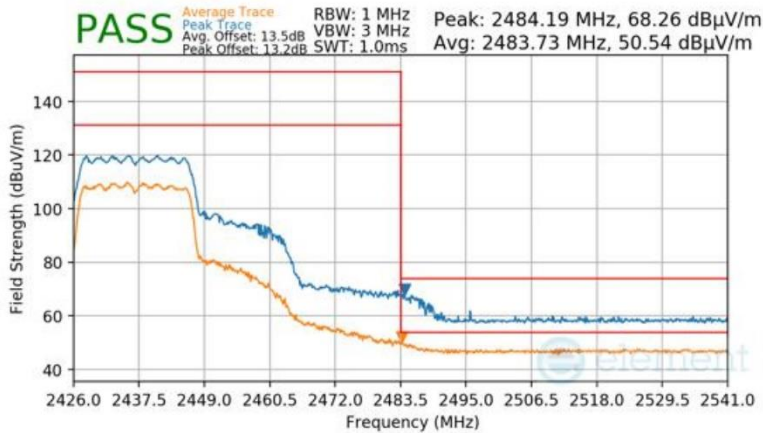
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2437MHz  
**Channel:** 6



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

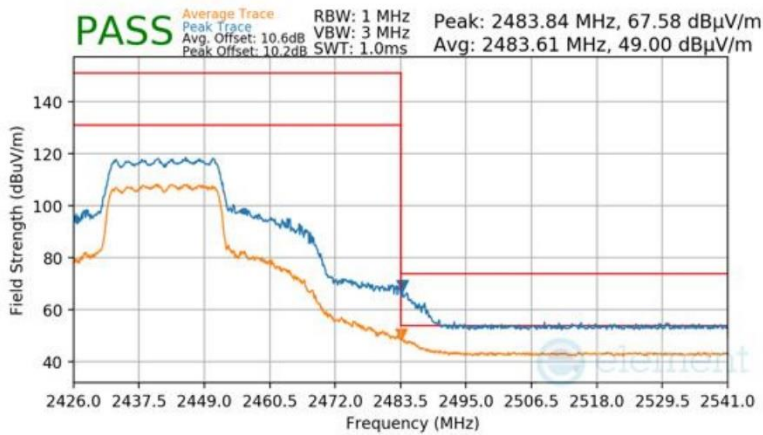
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 134 of 150

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



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

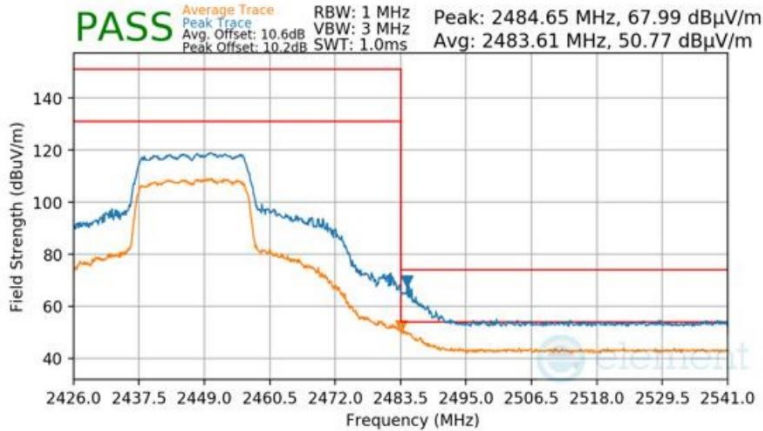
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2442MHz  
**Channel:** 7



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

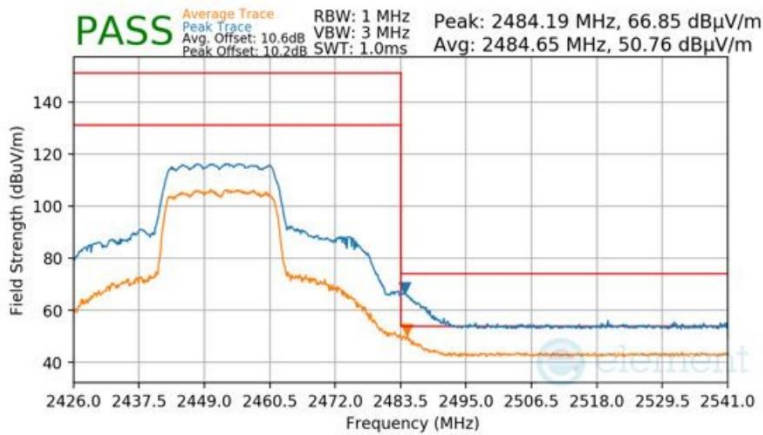
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 135 of 150

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



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

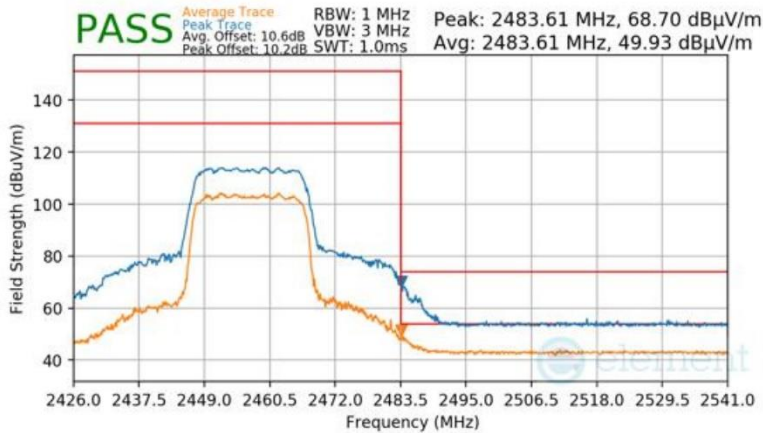
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2452MHz  
**Channel:** 9



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

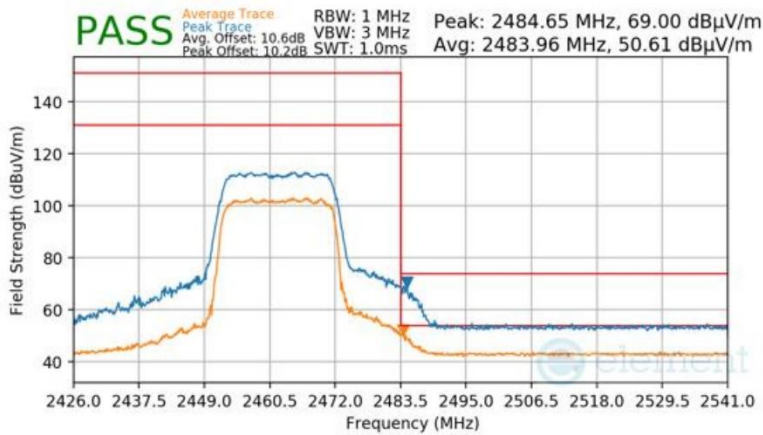
FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 136 of 150

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



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

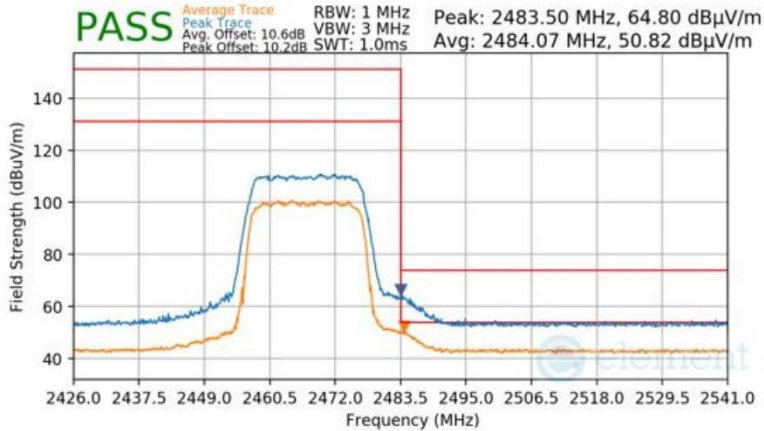
**Mode:** 802.11ax OFDMA  
**Transfer Rate:** MCS9  
**RU Index:** 61  
**Distance of Measurements:** 3 Meters  
**Operating Frequency:** 2462MHz  
**Channel:** 11



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

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT</b> (CERTIFICATION)	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 137 of 150

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



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

FCC ID: BCGA2837 IC: 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG		<b>Test Dates:</b> 1/8/2024 - 3/15/2024

## 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

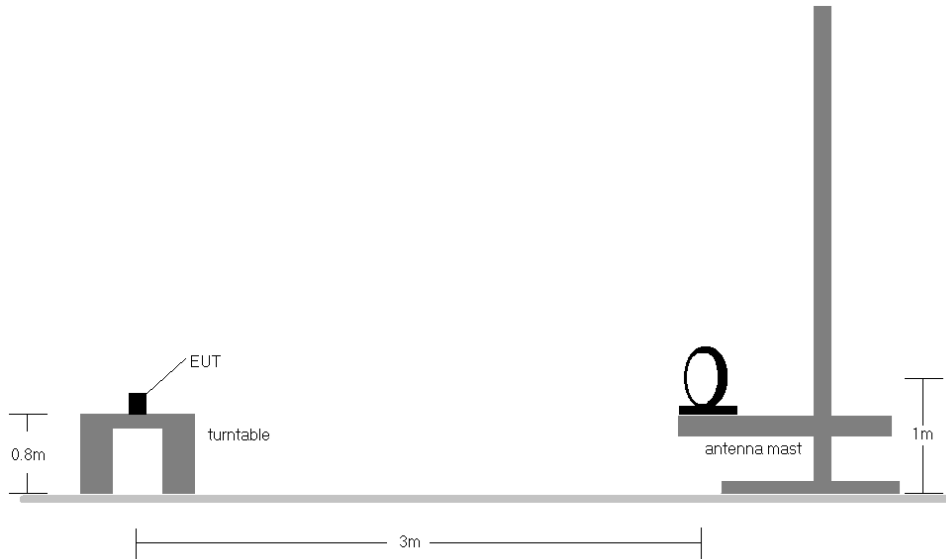
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-15-R1.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 139 of 150

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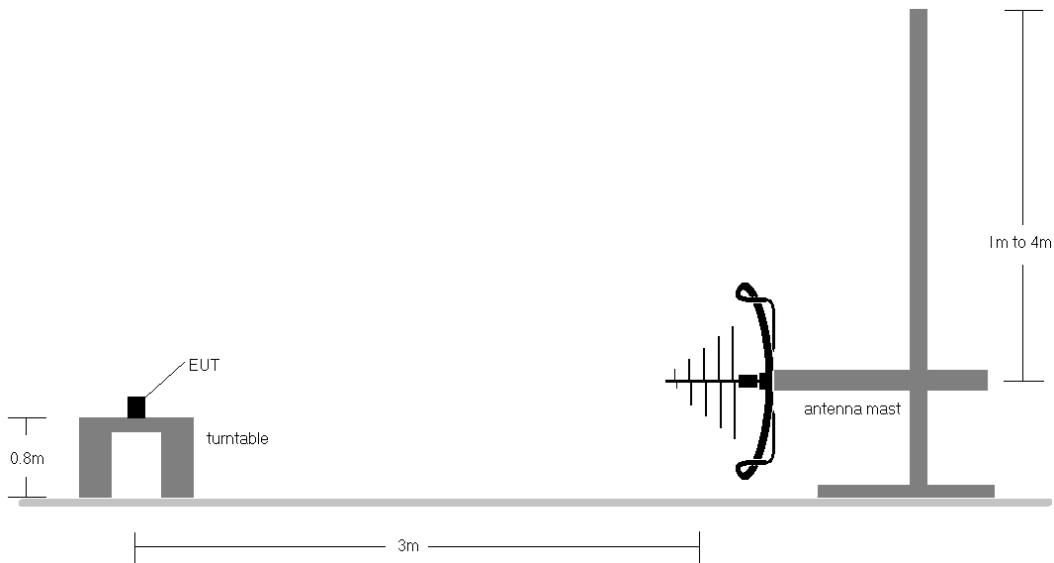


**Test Setup**

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**

<b>FCC ID:</b> BCGA2837 <b>IC:</b> 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 140 of 150

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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**

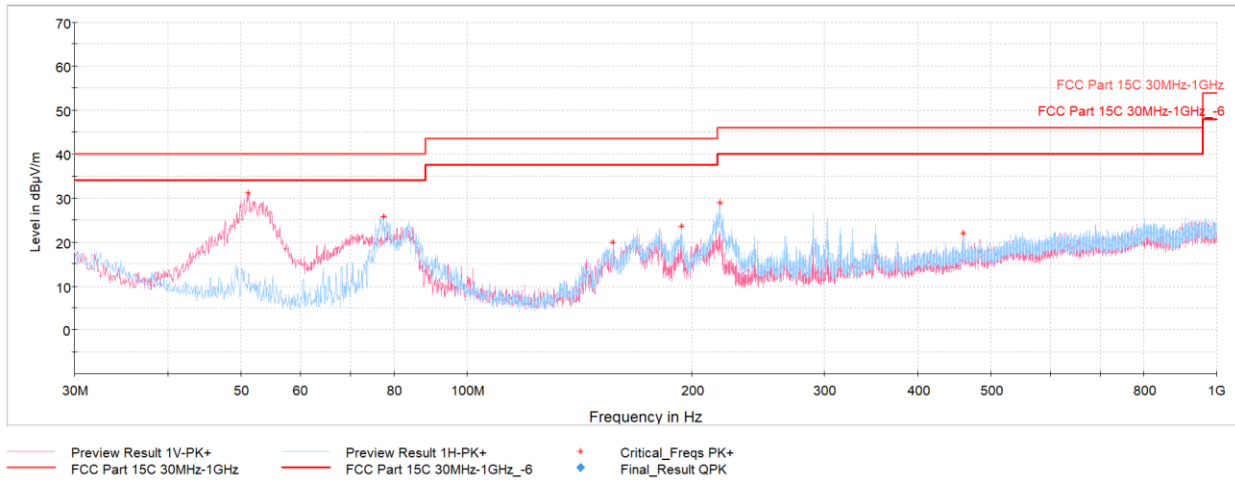
**Determining Spurious Emissions Levels**

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

<b>FCC ID:</b> BCGA2837 <b>IC:</b> 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG		<b>Test Dates:</b> 1/8/2024 - 3/15/2024

## CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

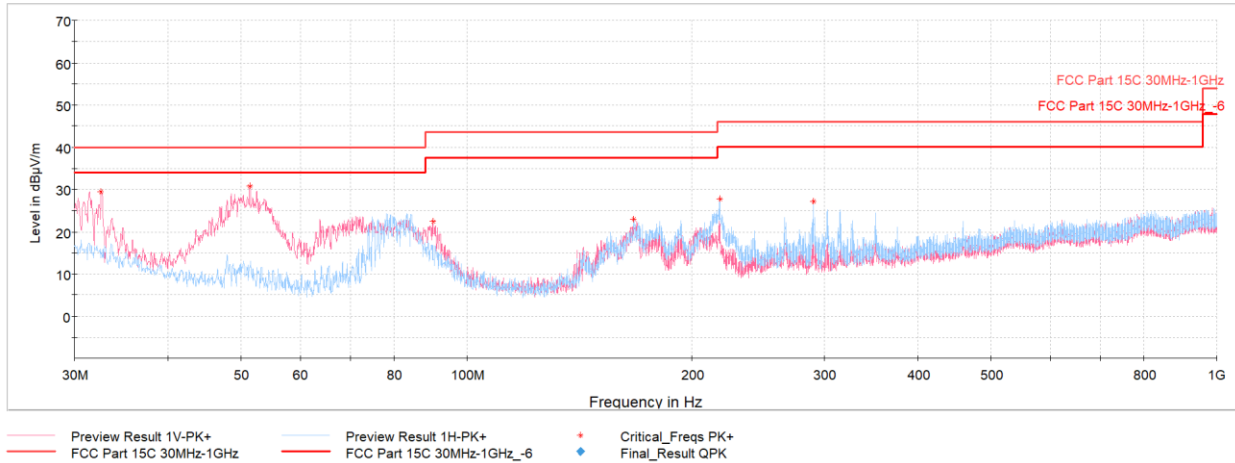


Plot 7-187. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

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]
51.20	Max-Peak	V	100	121	-52.74	-23.15	31.11	40.00	-8.89
77.43	Max-Peak	H	200	89	-58.49	-22.77	25.74	40.00	-14.26
156.59	Max-Peak	H	200	153	-68.14	-18.84	20.02	43.52	-23.50
193.49	Max-Peak	H	100	332	-64.46	-18.85	23.69	43.52	-19.83
217.60	Max-Peak	H	100	182	-59.95	-18.07	28.98	46.02	-17.04
459.52	Max-Peak	V	100	228	-73.46	-11.57	21.97	46.02	-24.05

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

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**Plot 7-188. 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]
32.57	Max-Peak	V	100	188	-60.63	-16.90	29.47	40.00	-10.53
51.39	Max-Peak	V	100	334	-53.12	-23.14	30.74	40.00	-9.26
90.19	Max-Peak	V	100	199	-62.10	-22.57	22.33	43.52	-21.19
167.11	Max-Peak	H	200	136	-64.10	-19.99	22.91	43.52	-20.61
217.79	Max-Peak	H	100	167	-61.15	-18.06	27.79	46.02	-18.23
290.30	Max-Peak	H	100	103	-64.69	-15.15	27.16	46.02	-18.86

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

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270068-15-R1.BCG	<b>Test Dates:</b> 1/8/2024 - 3/15/2024	<b>EUT Type:</b> Tablet Device	Page 143 of 150

## 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 $\mu$ 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.

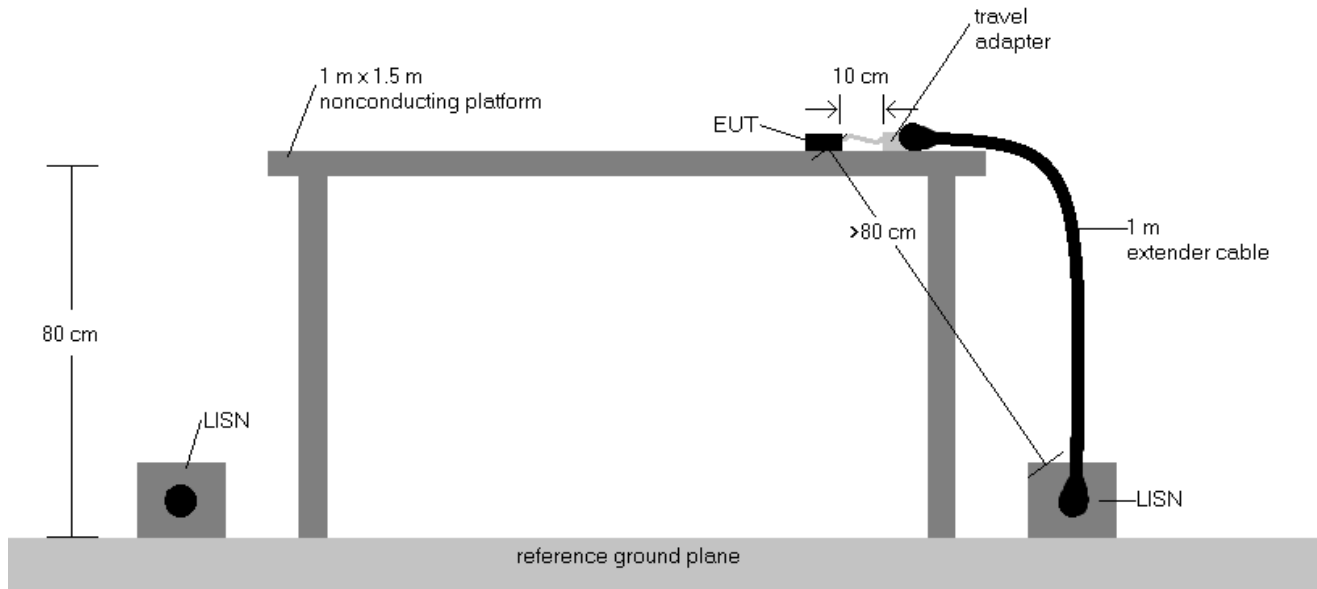


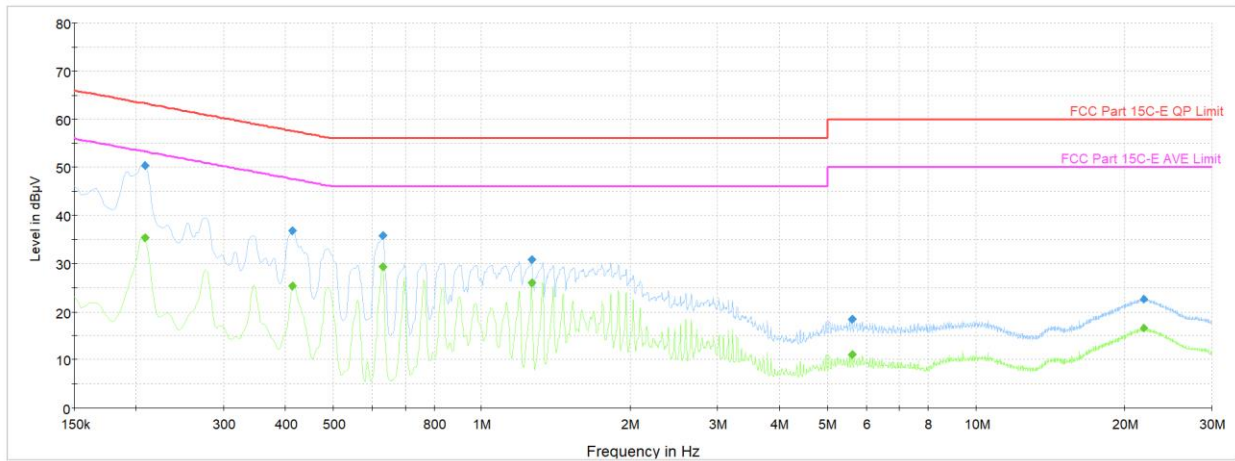
Figure 7-9. Test Instrument & Measurement Setup

## 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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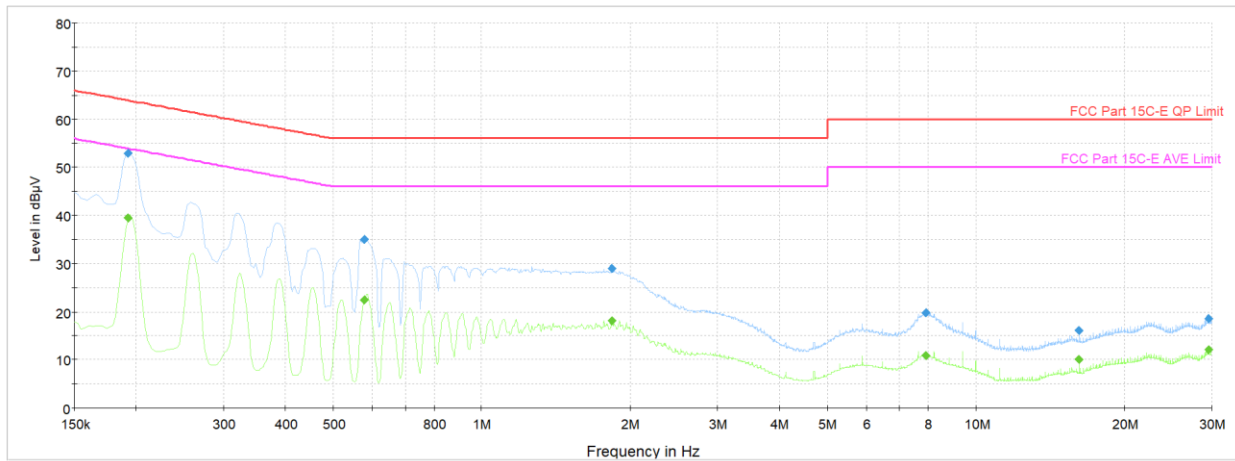
— Preview Result 2-AVG     — Preview Result 1-QPK     ♦ Critical\_Freqs AVG     ♦ Critical\_Freqs QPK  
— FCC Part 15C-E QP Limit     — FCC Part 15C-E AVE Limit     ♦ Final\_Result QPK     ♦ Final\_Result AVG

**Plot 7-189. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (L1, with Laptop)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.209	FINAL	—	35.39	53.27	-17.88	L1	GND
0.209	FINAL	50.5	—	63.27	-12.82	L1	GND
0.413	FINAL	—	25.34	47.58	-22.24	L1	GND
0.413	FINAL	36.8	—	57.58	-20.82	L1	GND
0.632	FINAL	—	29.22	46.00	-16.78	L1	GND
0.632	FINAL	35.9	—	56.00	-20.14	L1	GND
1.262	FINAL	—	30.8	56.00	-25.18	L1	GND
1.262	FINAL	—	25.95	46.00	-20.05	L1	GND
5.613	FINAL	18.3	—	60.00	-41.67	L1	GND
5.613	FINAL	—	10.98	50.00	-39.02	L1	GND
21.883	FINAL	—	16.50	50.00	-33.50	L1	GND
21.883	FINAL	22.7	—	60.00	-37.34	L1	GND

**Table 7-42. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (L1, with Laptop)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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— Preview Result 2-AVG     — Preview Result 1-QPK     ♦ Critical\_Freqs AVG     ♦ Critical\_Freqs QPK  
— FCC Part 15C-E QP Limit     — FCC Part 15C-E AVE Limit     ♦ Final\_Result QPK     ♦ Final\_Result AVG

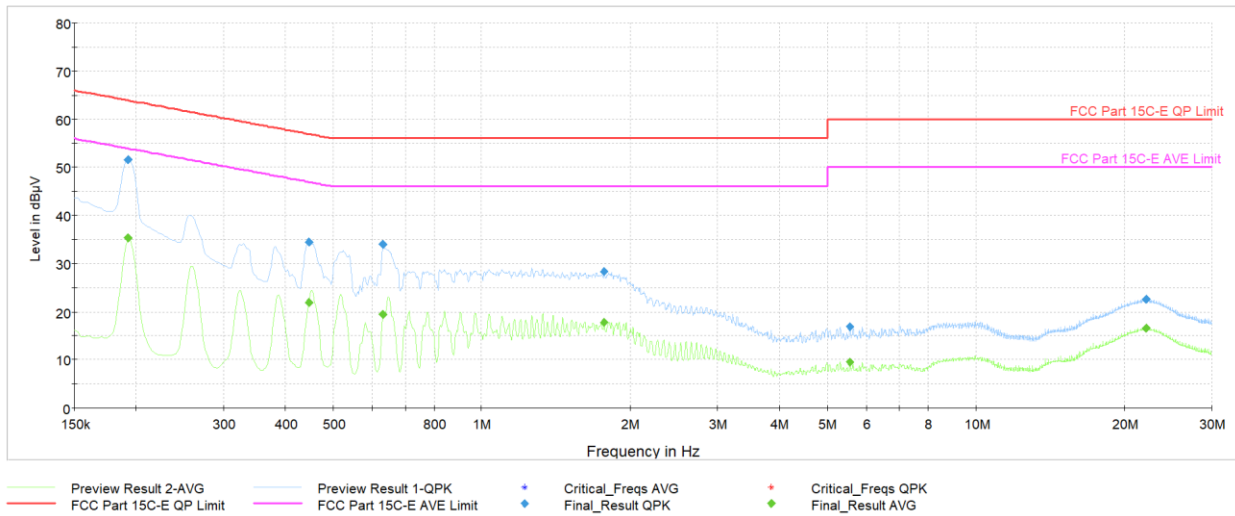
**Plot 7-190. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (N, with Laptop)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.193	FINAL	—	39.49	53.92	-14.42	N	GND
0.193	FINAL	52.9	—	63.92	-11.03	N	GND
0.580	FINAL	—	22.36	46.00	-23.64	N	GND
0.580	FINAL	35.0	—	56.00	-21.03	N	GND
1.831	FINAL	—	18.11	46.00	-27.89	N	GND
1.831	FINAL	28.9	—	56.00	-27.08	N	GND
7.928	FINAL	19.8	—	60.00	-40.23	N	GND
7.928	FINAL	—	10.84	50.00	-39.16	N	GND
16.145	FINAL	16.0	—	60.00	-43.96	N	GND
16.145	FINAL	—	10.07	50.00	-39.93	N	GND
29.542	FINAL	—	12.06	50.00	-37.94	N	GND
29.542	FINAL	18.6	—	60.00	-41.38	N	GND

**Table 7-43. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (N, with Laptop)**

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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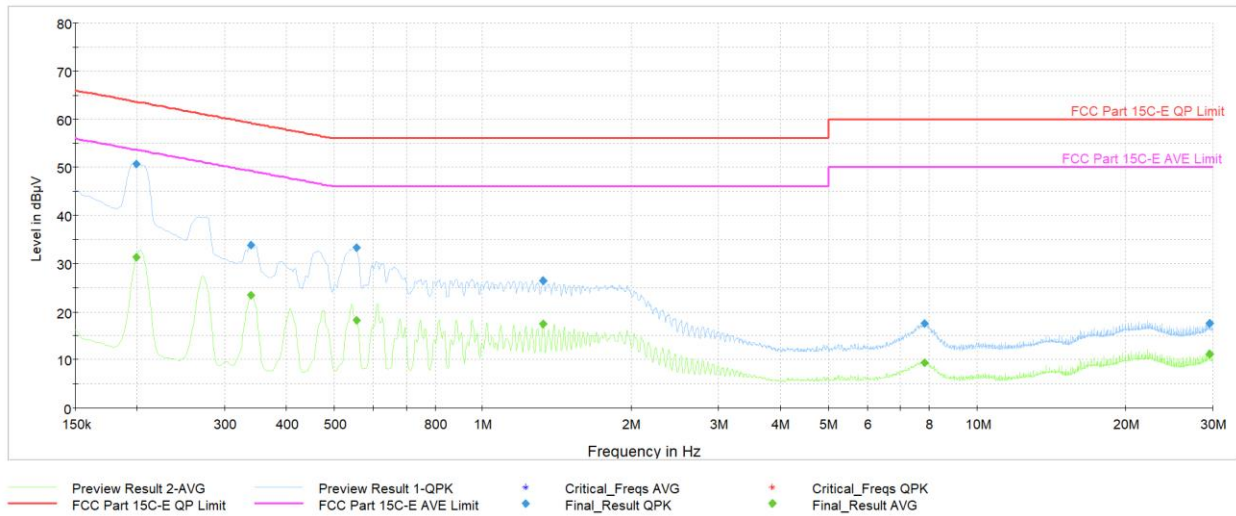


**Plot 7-191. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (L1, with Laptop)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.193	FINAL	—	35.35	53.92	-18.57	L1	GND
0.193	FINAL	51.5	—	63.92	-12.45	L1	GND
0.447	FINAL	—	21.96	46.93	-24.97	L1	GND
0.447	FINAL	34.5	—	56.93	-22.41	L1	GND
0.632	FINAL	—	19.44	46.00	-26.56	L1	GND
0.632	FINAL	34.0	—	56.00	-22.03	L1	GND
1.768	FINAL	28.3	—	56.00	-27.72	L1	GND
1.768	FINAL	—	17.69	46.00	-28.31	L1	GND
5.552	FINAL	16.9	—	60.00	-43.12	L1	GND
5.552	FINAL	—	9.59	50.00	-40.41	L1	GND
22.103	FINAL	—	16.62	50.00	-33.38	L1	GND
22.103	FINAL	22.6	—	60.00	-37.40	L1	GND

**Table 7-44. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (L1, with Laptop)**

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-192. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (N, with Laptop)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.200	FINAL	—	31.34	53.63	-22.30	N	GND
0.200	FINAL	50.8	—	63.63	-12.84	N	GND
0.339	FINAL	—	23.49	49.23	-25.74	N	GND
0.339	FINAL	33.9	—	59.23	-25.35	N	GND
0.555	FINAL	—	18.24	46.00	-27.76	N	GND
0.555	FINAL	33.4	—	56.00	-22.62	N	GND
1.327	FINAL	26.4	—	56.00	-29.62	N	GND
1.327	FINAL	—	17.35	46.00	-28.65	N	GND
7.816	FINAL	17.6	—	60.00	-42.38	N	GND
7.816	FINAL	—	9.44	50.00	-40.56	N	GND
29.546	FINAL	—	11.20	50.00	-38.80	N	GND
29.546	FINAL	17.6	—	60.00	-42.43	N	GND

**Table 7-45. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (N, with Laptop)**

FCC ID: BCGA2837 IC: 579C-A2837		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		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: BCGA2837, IC: 579C-A2837** 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.

<b>FCC ID:</b> BCGA2837 <b>IC:</b> 579C-A2837	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
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