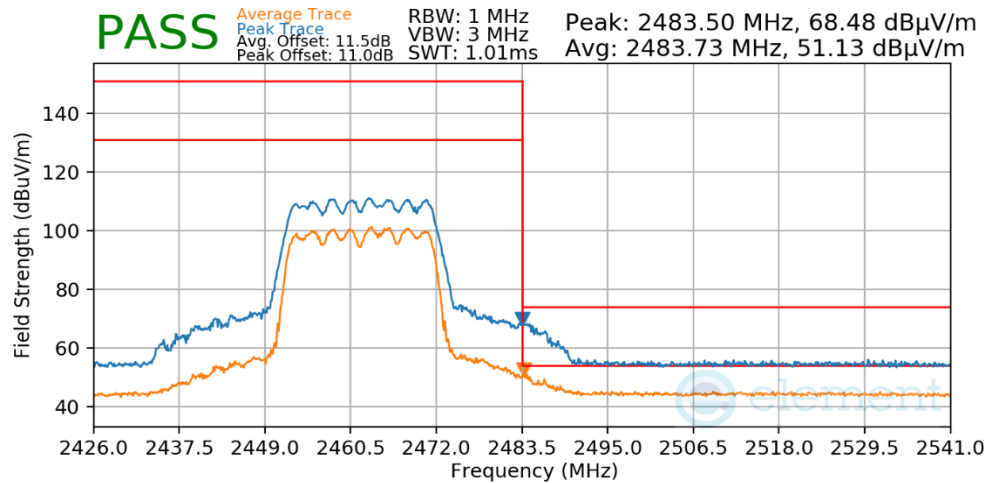
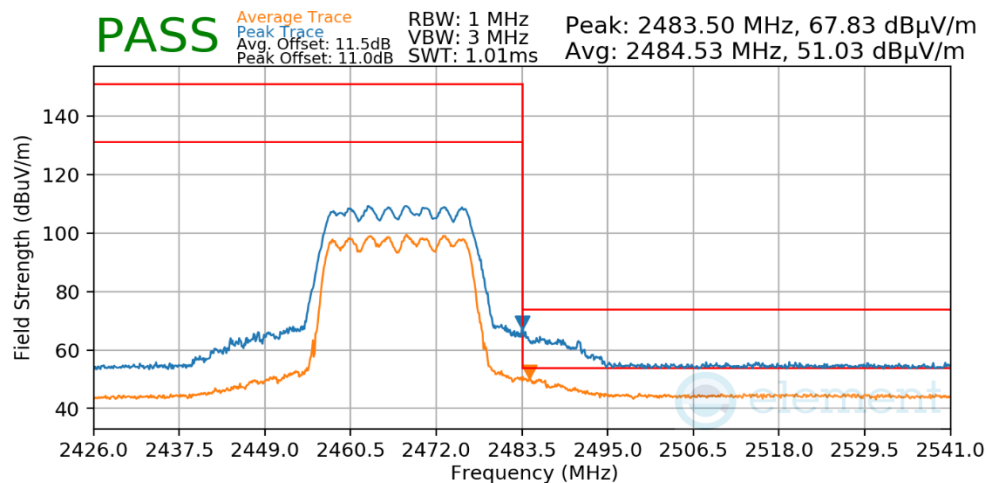


Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS9  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



**Plot 7-203. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)**

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



**Plot 7-204. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)**

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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 [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 7-38. 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

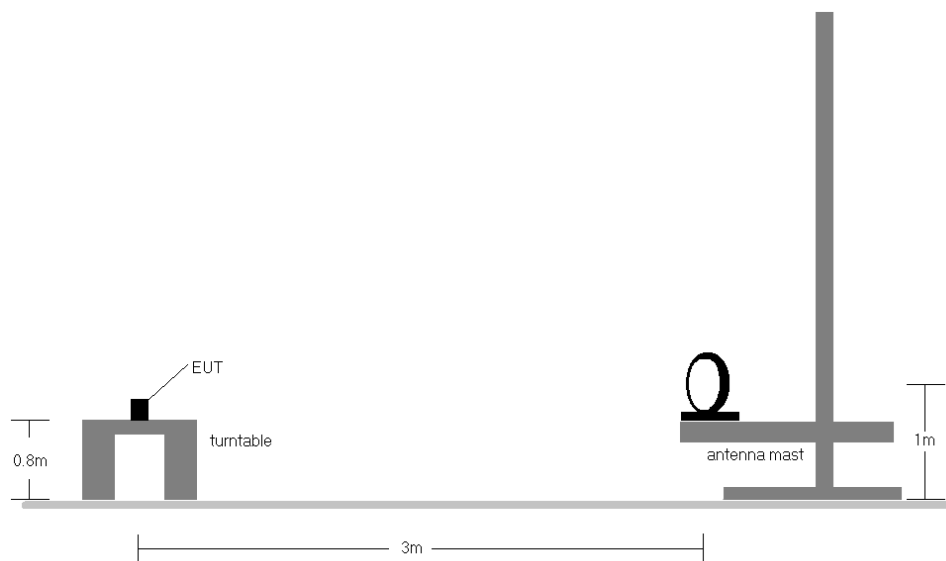
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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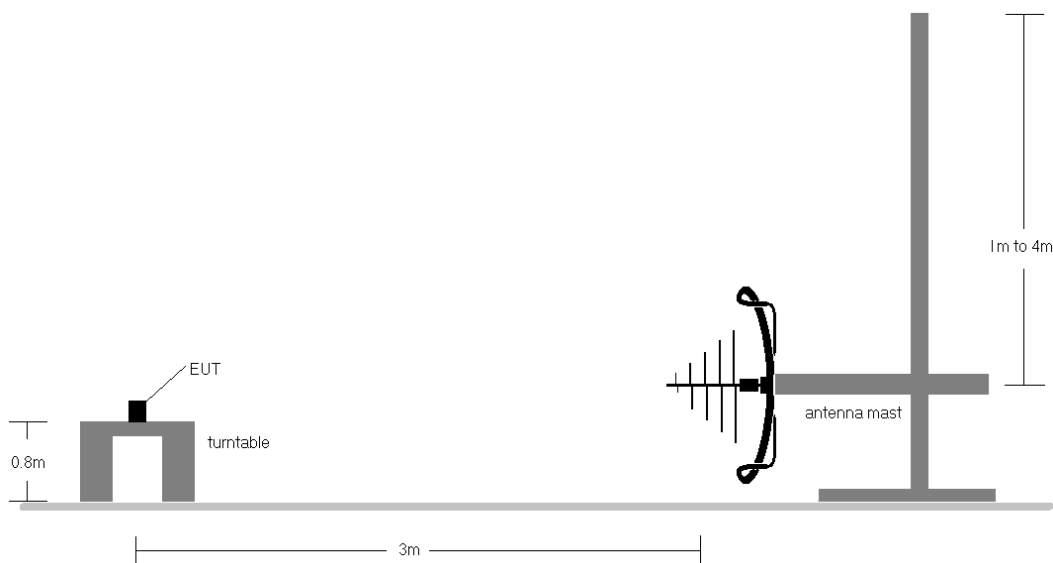
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## Test Setup

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**

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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

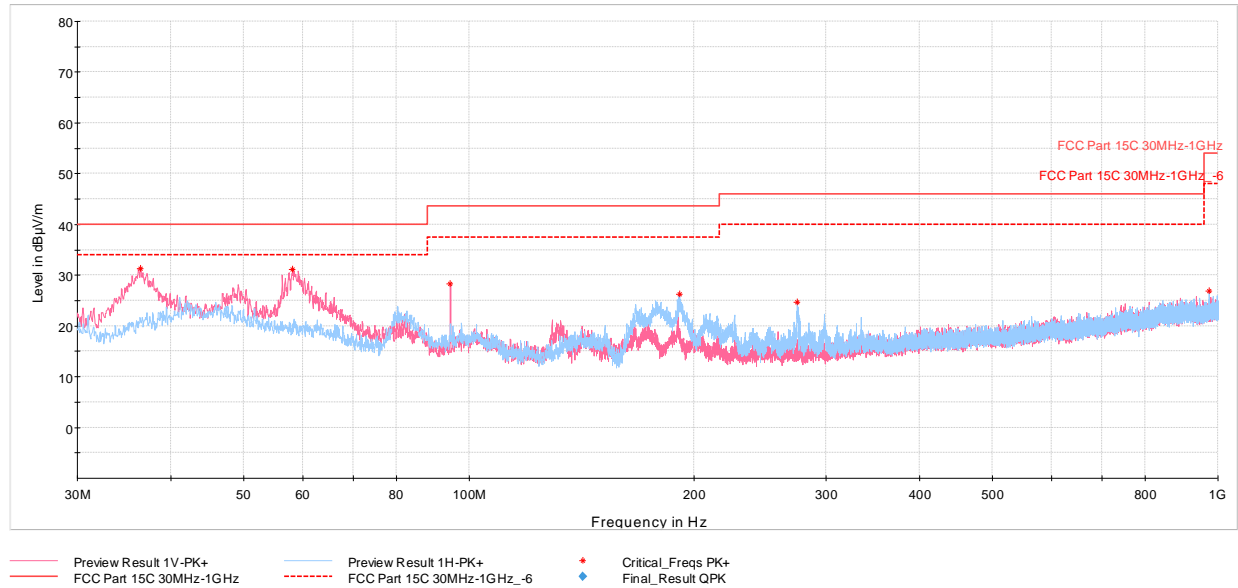
- Field Strength Level  $[\text{dB}_{\mu\text{V/m}}] = \text{Analyzer Level } [\text{dBm}] + 107 + \text{AFCL } [\text{dB/m}]$
- $\text{AFCL } [\text{dB/m}] = \text{Antenna Factor } [\text{dB/m}] + \text{Cable Loss } [\text{dB}] - \text{Preamplifier Gain } [\text{dB}]$
- $\text{Margin } [\text{dB}] =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

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

**§15.209; RSS-Gen [8.9]**

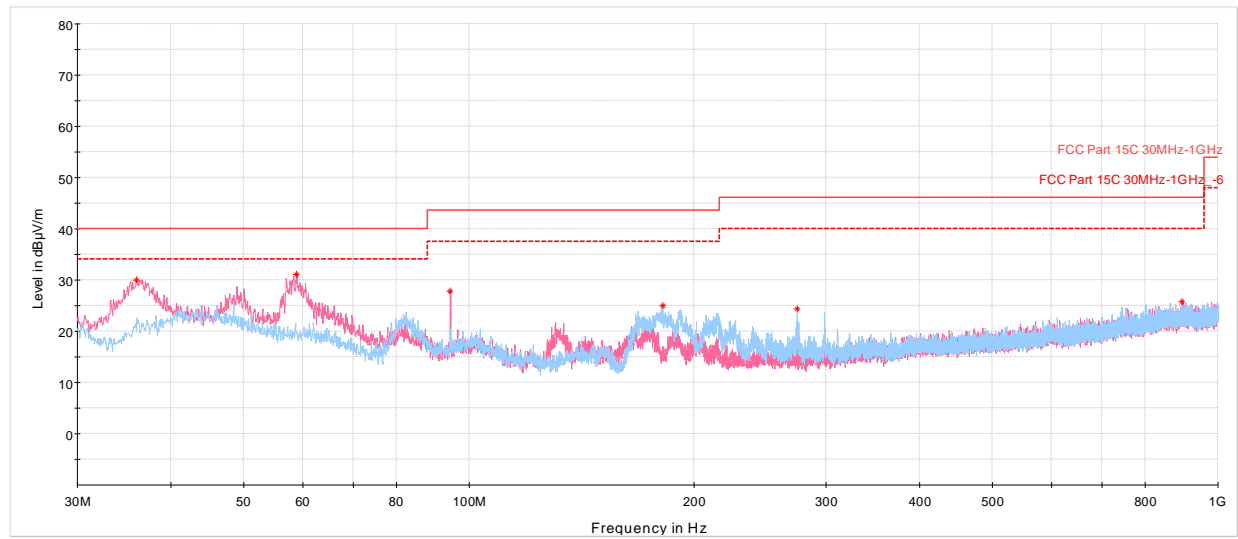


**Plot 7-205. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter**

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]
36.45	Max Peak	V	100	11	-57.30	-18.34	31.36	40.00	-8.64
58.18	Max Peak	V	100	175	-59.30	-16.55	31.15	40.00	-8.85
94.46	Max Peak	V	100	186	-59.59	-19.06	28.35	43.52	-15.17
190.97	Max Peak	H	100	240	-62.46	-18.29	26.25	43.52	-17.27
274.54	Max Peak	H	100	133	-66.19	-16.07	24.74	46.02	-21.28
974.39	Max Peak	H	100	92	-76.35	-3.71	26.94	53.98	-27.04

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

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**Plot 7-206. 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]
36.01	Max Peak	V	100	342	-58.49	-18.45	30.06	40.00	-9.94
58.91	Max Peak	V	100	173	-59.26	-16.71	31.03	40.00	-8.97
94.46	Max Peak	V	100	182	-60.18	-19.06	27.76	43.52	-15.76
181.61	Max Peak	H	100	177	-62.50	-19.50	25.00	43.52	-18.52
274.44	Max Peak	H	100	144	-66.46	-16.09	24.45	46.02	-21.57
895.19	Max Peak	V	300	154	-76.87	-4.33	25.80	46.02	-20.22

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

FCC ID: BCGA2436 IC: 579C-A2436		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-41. 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

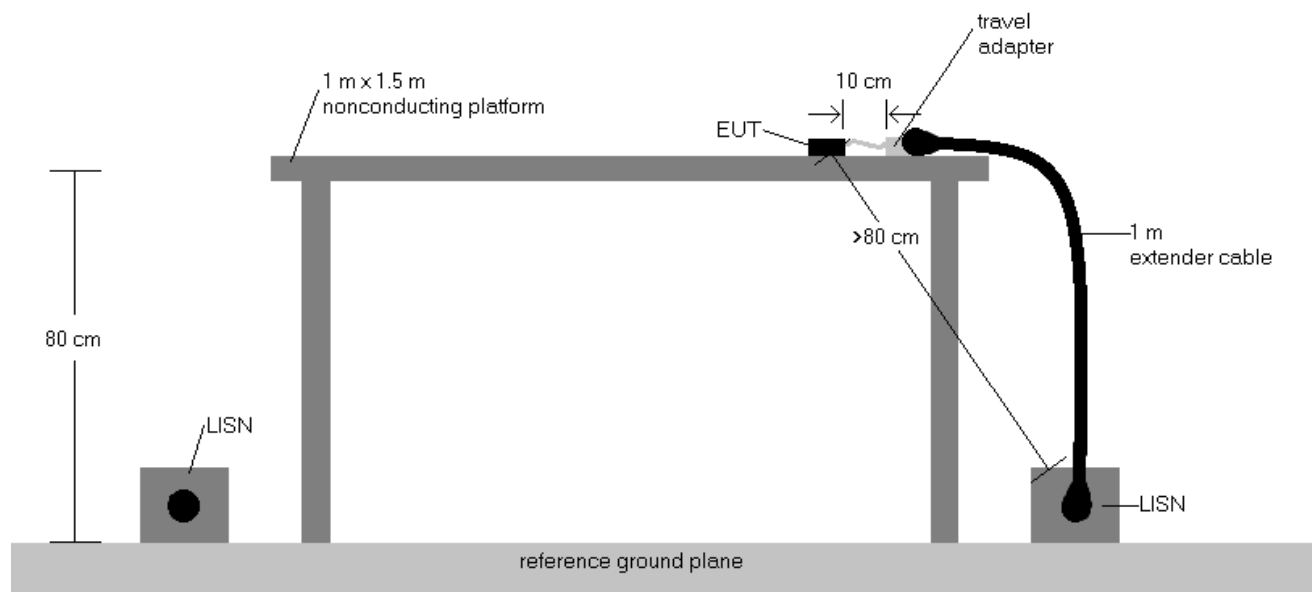
FCC ID: BCGA2436 IC: 579C-A2436		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## Test Setup

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



**Figure 7-9. Test Instrument & Measurement Setup**

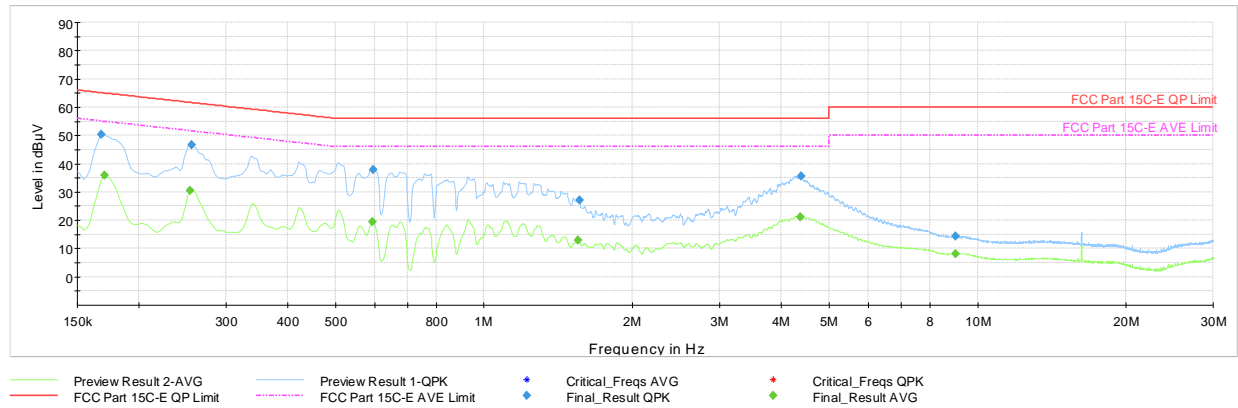
## Test Notes

- 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.
- Both configurations below were investigated, and the worst case has been reported.
  - EUT powered by AC/DC adaptor via USB-C cable with wire charger
  - EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using quasi peak and average detectors.
- Deviations to the Specifications: None.
- All RU's were investigated and only worst case partially-loaded and fully-loaded RU's are reported.

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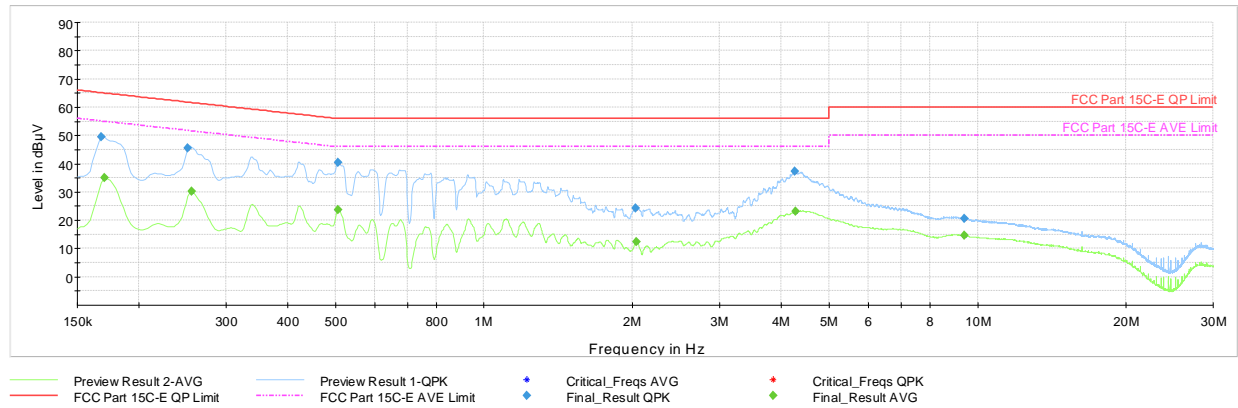
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	50.3	—	65.06	-14.75	L1	GND
0.170	FINAL	—	35.88	54.95	-19.06	L1	GND
0.254	FINAL	—	30.43	51.64	-21.21	L1	GND
0.256	FINAL	46.6	—	61.57	-14.99	L1	GND
0.593	FINAL	—	19.57	46.00	-26.43	L1	GND
0.596	FINAL	37.8	—	56.00	-18.22	L1	GND
1.552	FINAL	—	12.81	46.00	-33.19	L1	GND
1.561	FINAL	27.1	—	56.00	-28.90	L1	GND
4.376	FINAL	—	21.23	46.00	-24.77	L1	GND
4.385	FINAL	35.6	—	56.00	-20.39	L1	GND
9.011	FINAL	14.4	—	60.00	-45.65	L1	GND
9.026	FINAL	—	8.21	50.00	-41.79	L1	GND

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

FCC ID: BCGA2436 IC: 579C-A2436		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-208. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (N, with AC/DC Adapter)**

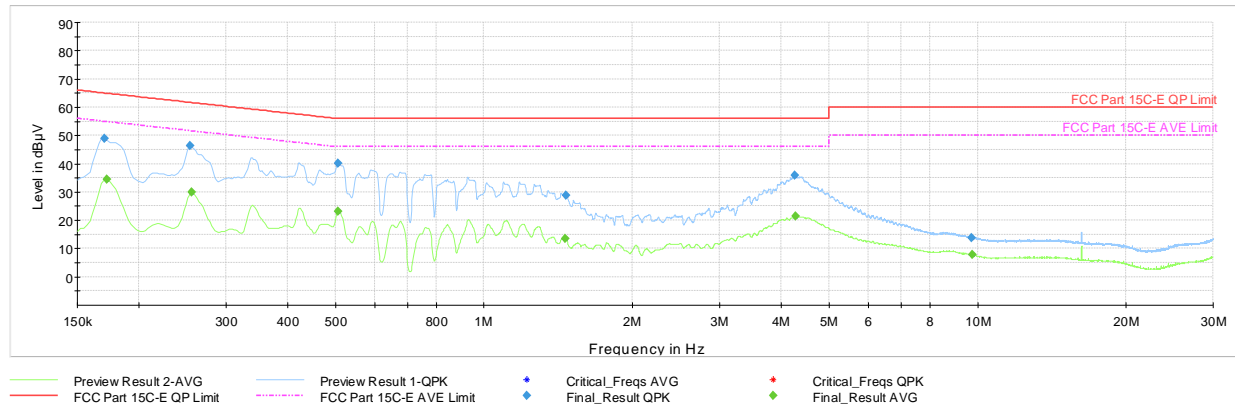
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	49.4	—	65.06	-15.66	N	GND
0.170	FINAL	—	34.94	54.95	-20.01	N	GND
0.251	FINAL	45.5	—	61.72	-16.23	N	GND
0.256	FINAL	—	30.30	51.57	-21.27	N	GND
0.506	FINAL	—	23.78	46.00	-22.22	N	GND
0.506	FINAL	40.3	—	56.00	-15.69	N	GND
2.031	FINAL	24.2	—	56.00	-31.85	N	GND
2.036	FINAL	—	12.26	46.00	-33.74	N	GND
4.268	FINAL	37.4	—	56.00	-18.60	N	GND
4.272	FINAL	—	23.26	46.00	-22.74	N	GND
9.395	FINAL	20.7	—	60.00	-39.27	N	GND
9.418	FINAL	—	14.64	50.00	-35.36	N	GND

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

FCC ID: BCGA2436 IC: 579C-A2436		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-209. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (L1, with AC/DC Adapter)**

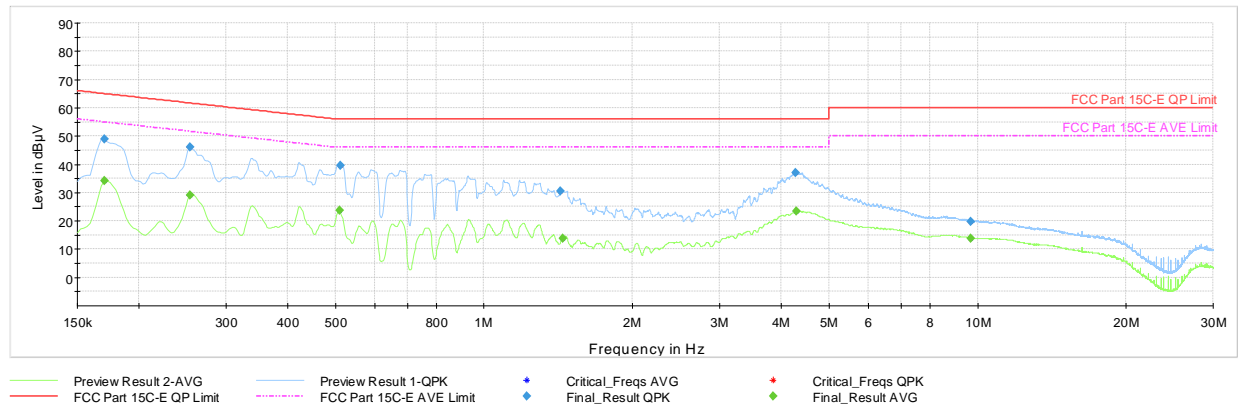
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.170	FINAL	49.0	—	64.95	-15.92	L1	GND
0.173	FINAL	—	34.38	54.84	-20.45	L1	GND
0.254	FINAL	46.3	—	61.64	-15.36	L1	GND
0.256	FINAL	—	29.98	51.57	-21.59	L1	GND
0.506	FINAL	40.2	—	56.00	-15.80	L1	GND
0.506	FINAL	—	23.24	46.00	-22.76	L1	GND
1.460	FINAL	—	13.61	46.00	-32.39	L1	GND
1.464	FINAL	28.9	—	56.00	-27.15	L1	GND
4.263	FINAL	36.0	—	56.00	-20.04	L1	GND
4.281	FINAL	—	21.33	46.00	-24.67	L1	GND
9.740	FINAL	13.8	—	60.00	-46.22	L1	GND
9.742	FINAL	—	7.76	50.00	-42.24	L1	GND

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

FCC ID: BCGA2436 IC: 579C-A2436		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-210. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (N, with AC/DC Adapter)**

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.170	FINAL	—	34.25	54.95	-20.69	N	GND
0.170	FINAL	48.9	—	64.95	-16.03	N	GND
0.254	FINAL	—	29.22	51.64	-22.42	N	GND
0.254	FINAL	46.0	—	61.64	-15.64	N	GND
0.510	FINAL	—	23.75	46.00	-22.25	N	GND
0.512	FINAL	39.5	—	56.00	-16.51	N	GND
1.430	FINAL	30.7	—	56.00	-25.35	N	GND
1.444	FINAL	—	13.79	46.00	-32.21	N	GND
4.283	FINAL	36.9	—	56.00	-19.06	N	GND
4.290	FINAL	—	23.30	46.00	-22.70	N	GND
9.683	FINAL	19.9	—	60.00	-40.15	N	GND
9.699	FINAL	—	13.79	50.00	-36.21	N	GND

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

FCC ID: BCGA2436 IC: 579C-A2436		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: BCGA2436, IC: 579C-A2436** 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> BCGA2436 <b>IC:</b> 579C-A2436		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
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