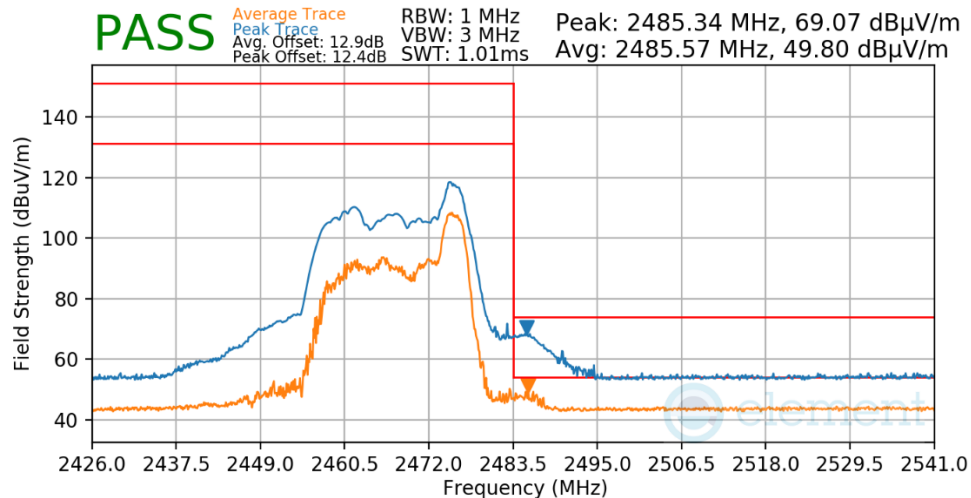
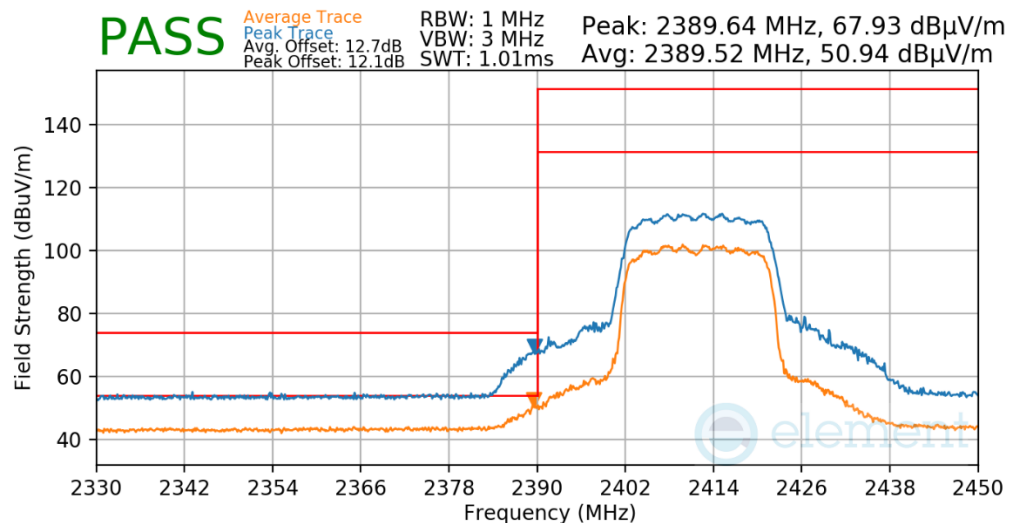


Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-183. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

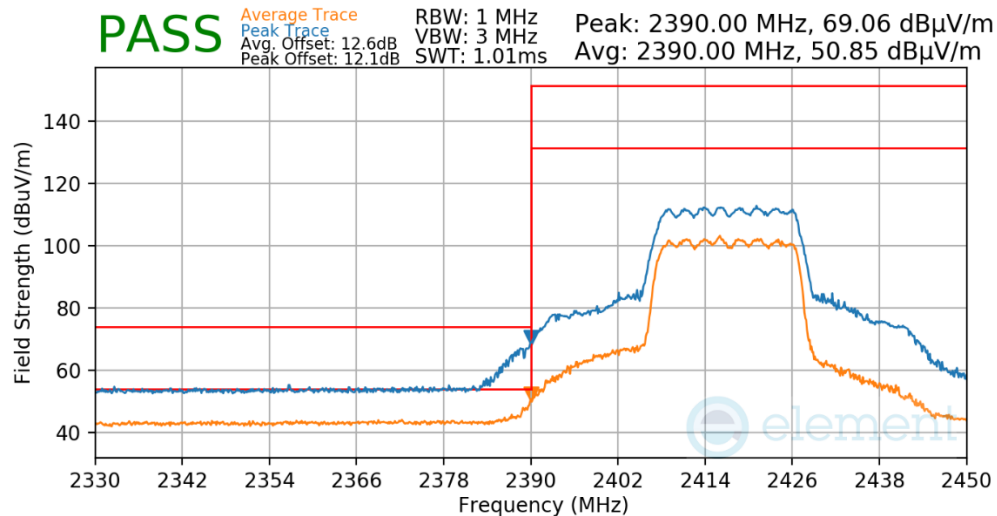
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 62
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



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

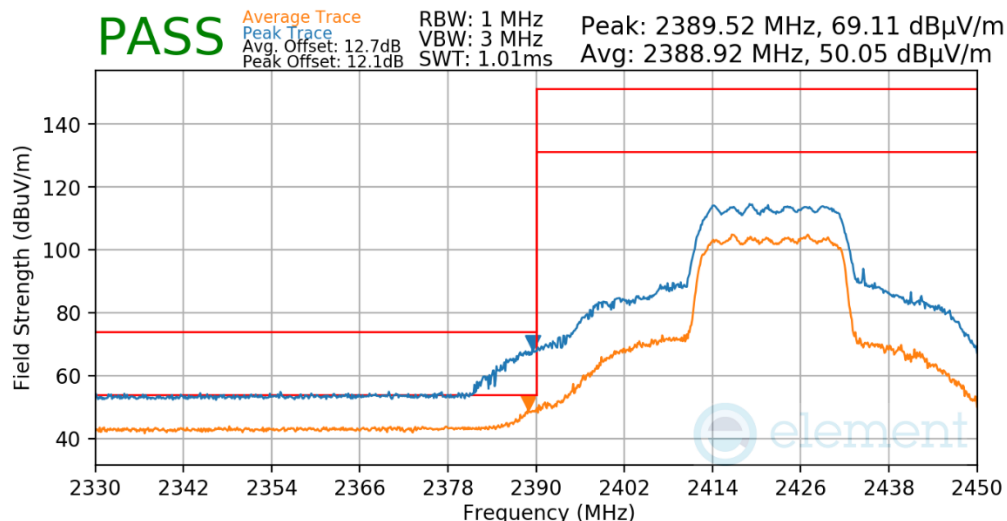
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 135 of 153

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



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

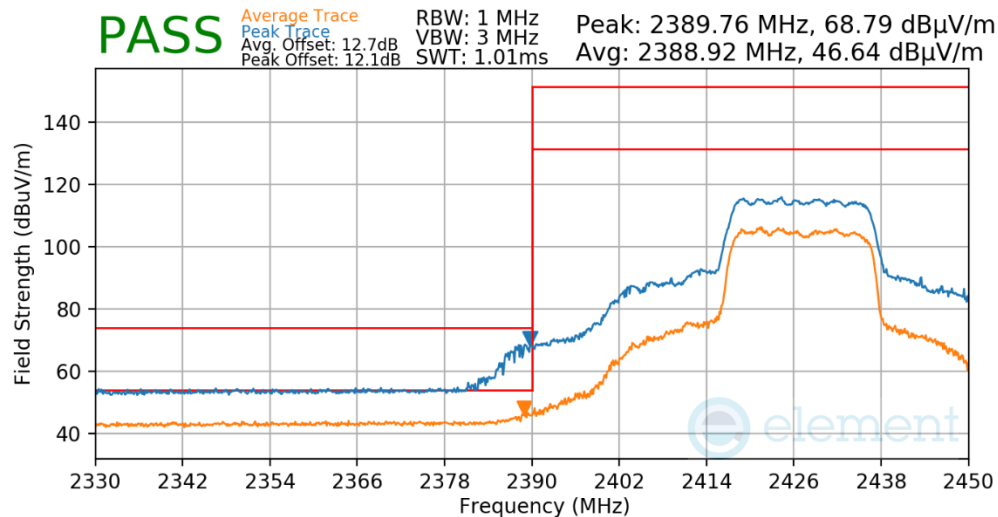
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



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

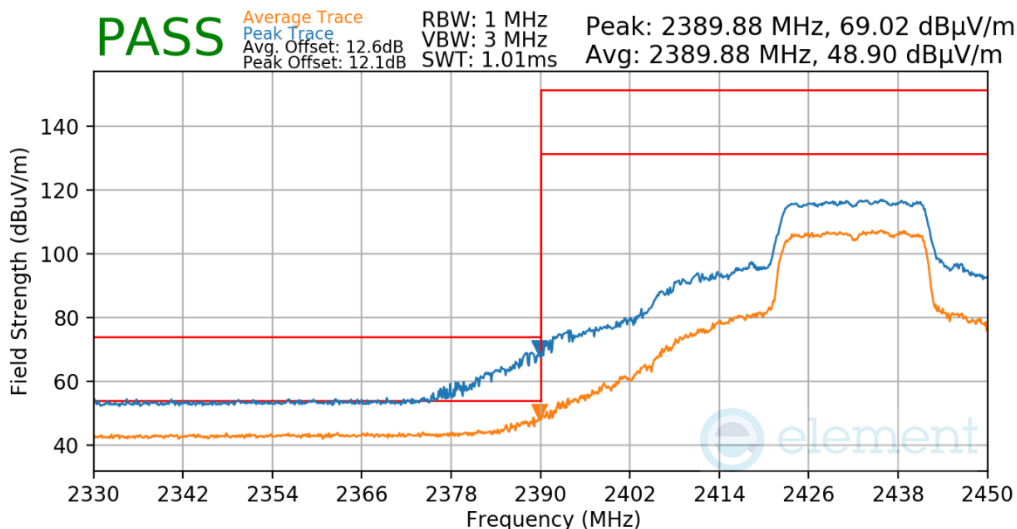
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 136 of 153

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



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

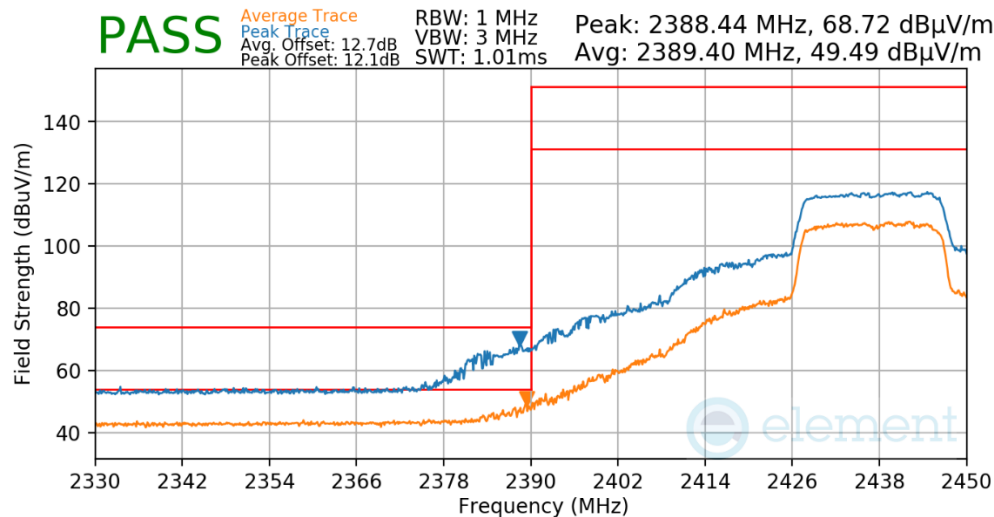
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2432MHz
 Channel: 5



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

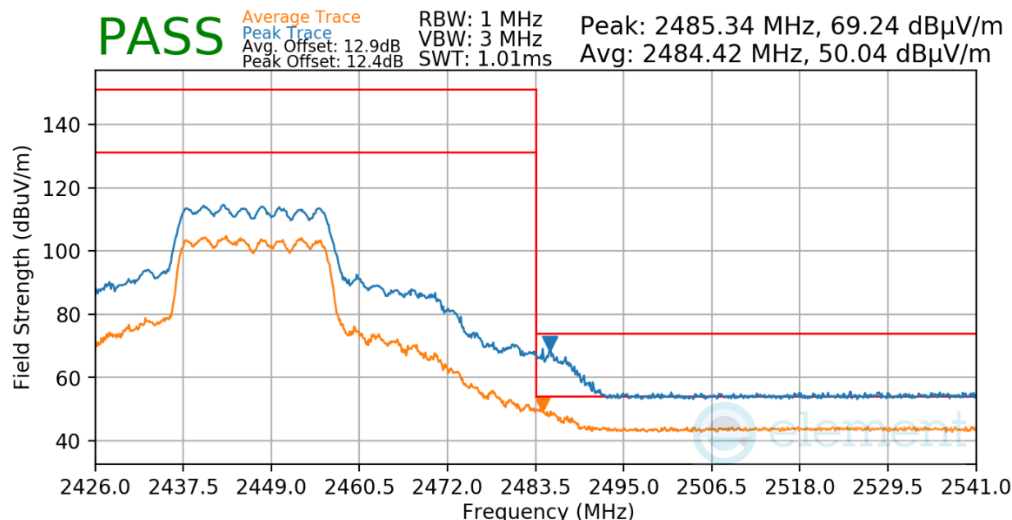
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 137 of 153

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



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

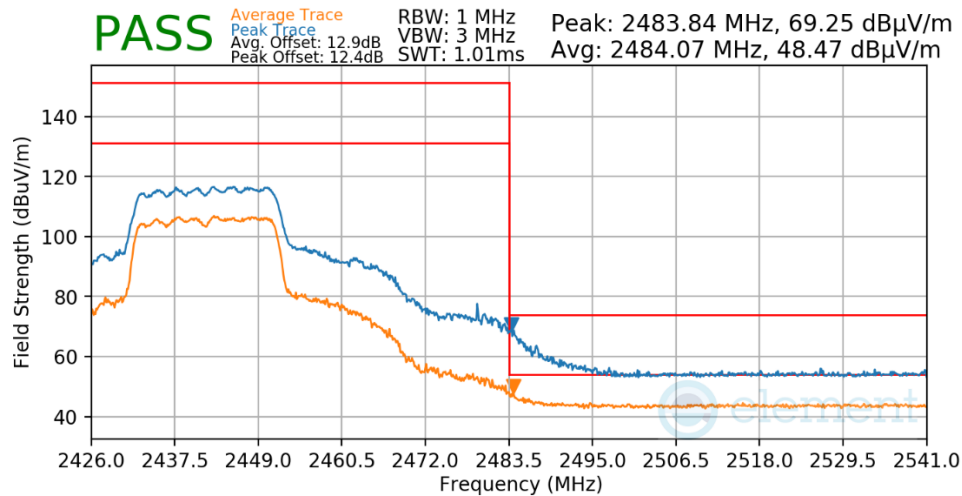
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6 (High)



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

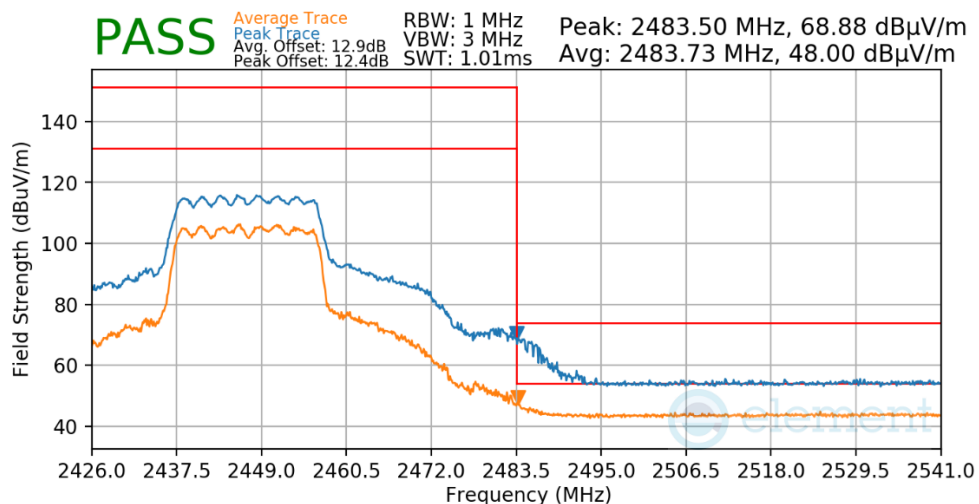
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 138 of 153

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



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

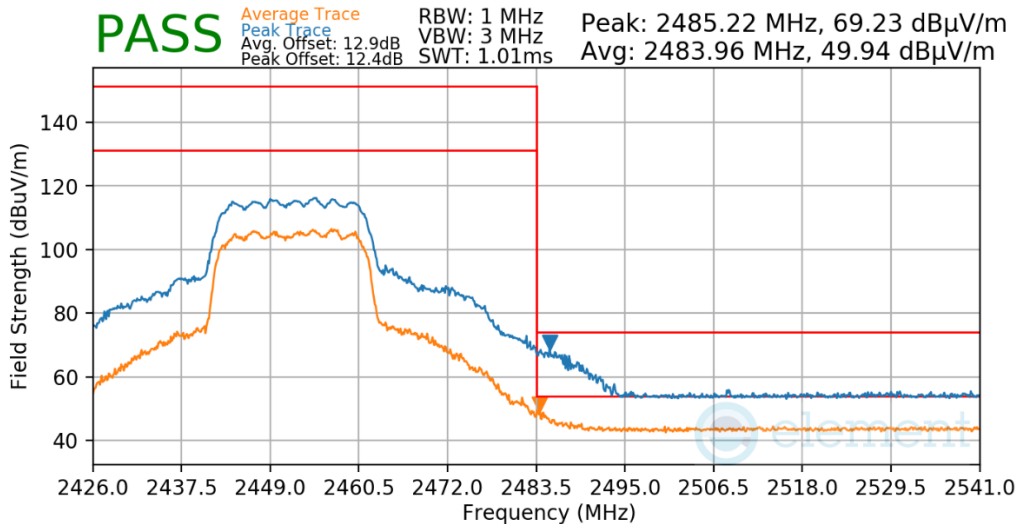
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2447MHz
Channel:	8



Plot 7-192. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

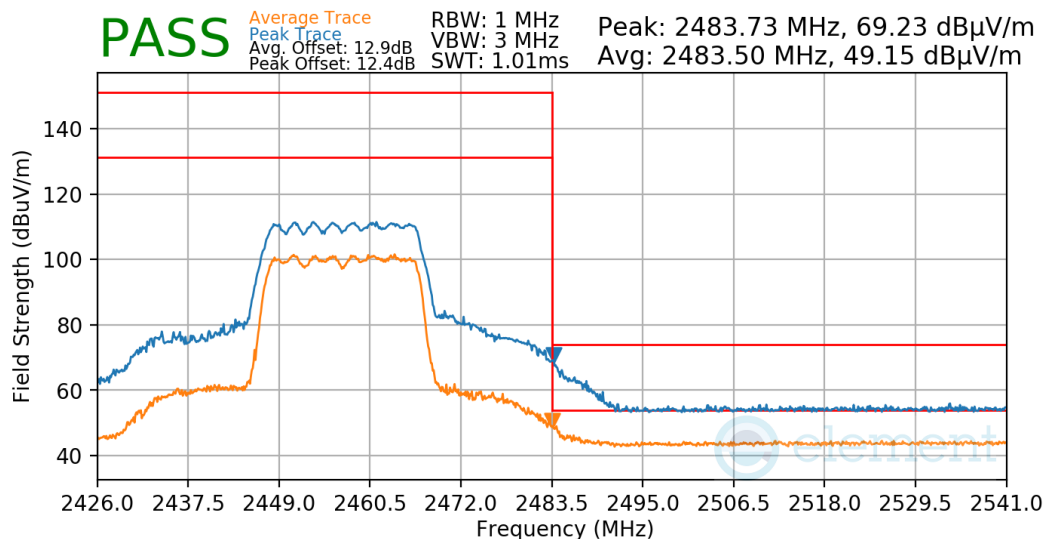
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 139 of 153

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



Plot 7-193. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

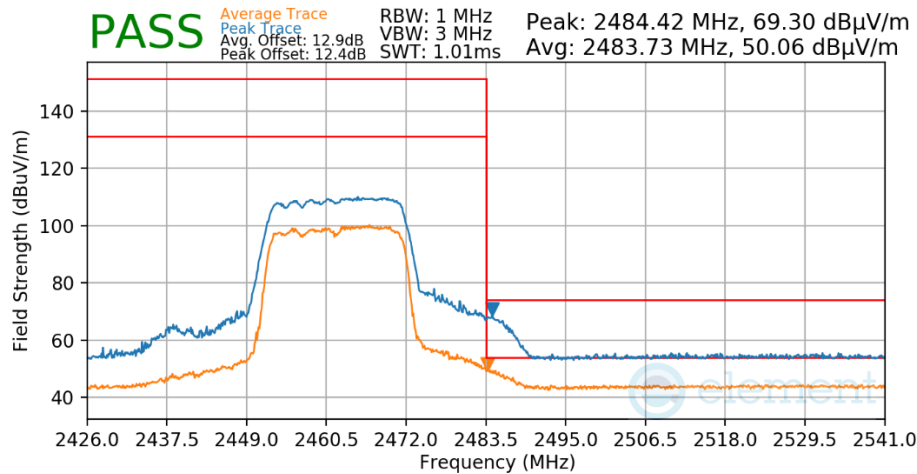
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-194. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

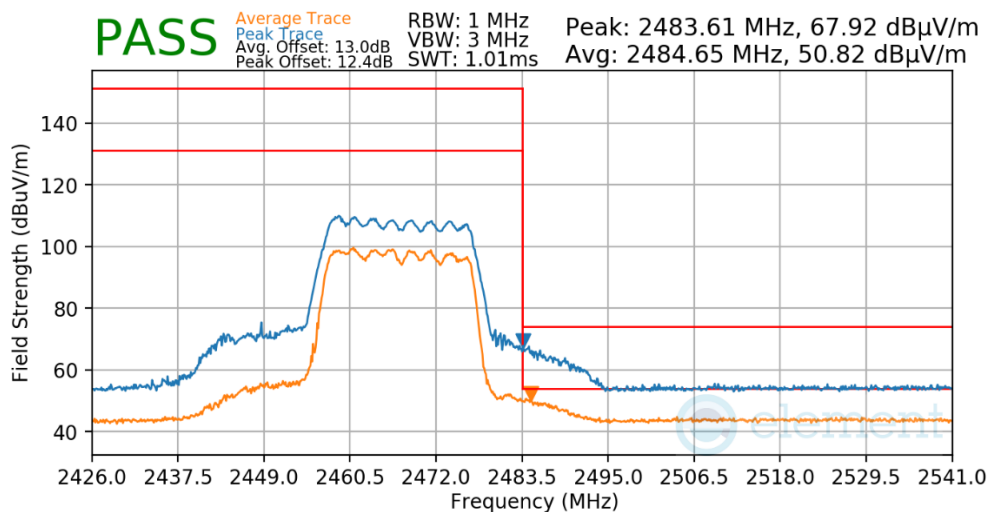
FCC ID: BCGA2435 IC: 579C-A2435	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 140 of 153

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 7-195. 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 7-196. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 141 of 153

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

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 142 of 153

V 10.5 12/15/2021

Test Setup

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

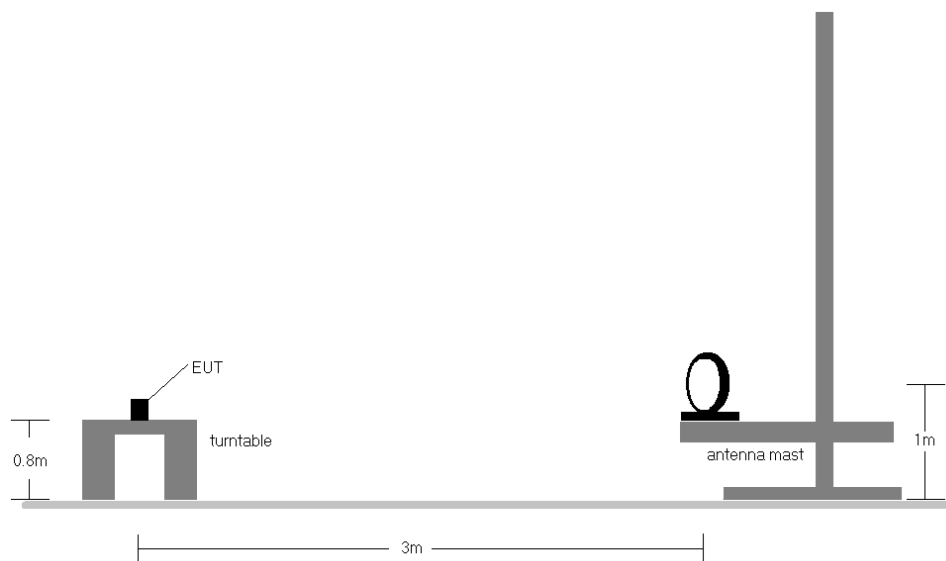


Figure 7-7. Radiated Test Setup < 30MHz

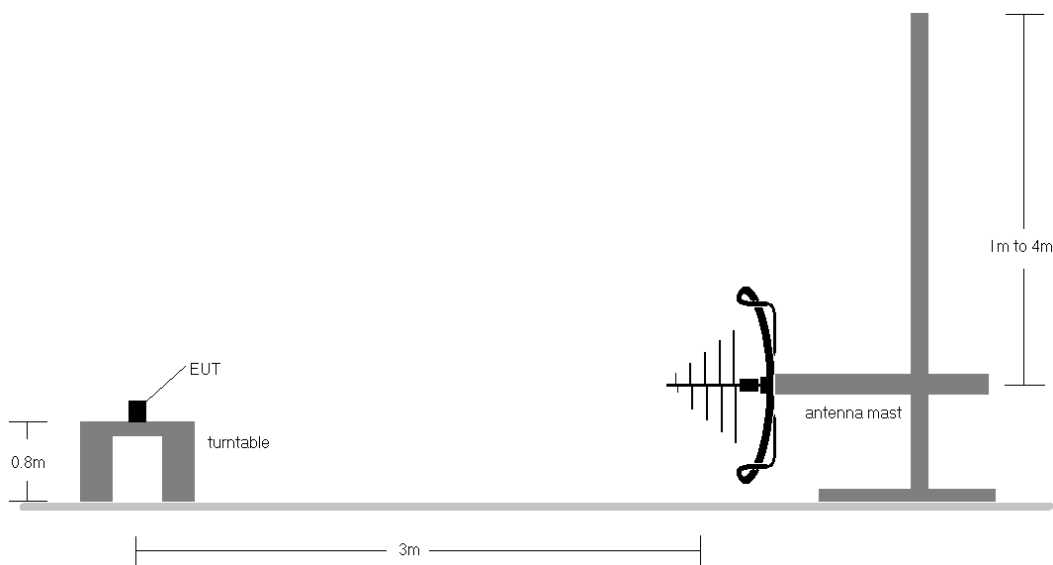


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2435 IC: 579C-A2435	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 143 of 153

V 10.5 12/15/2021

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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

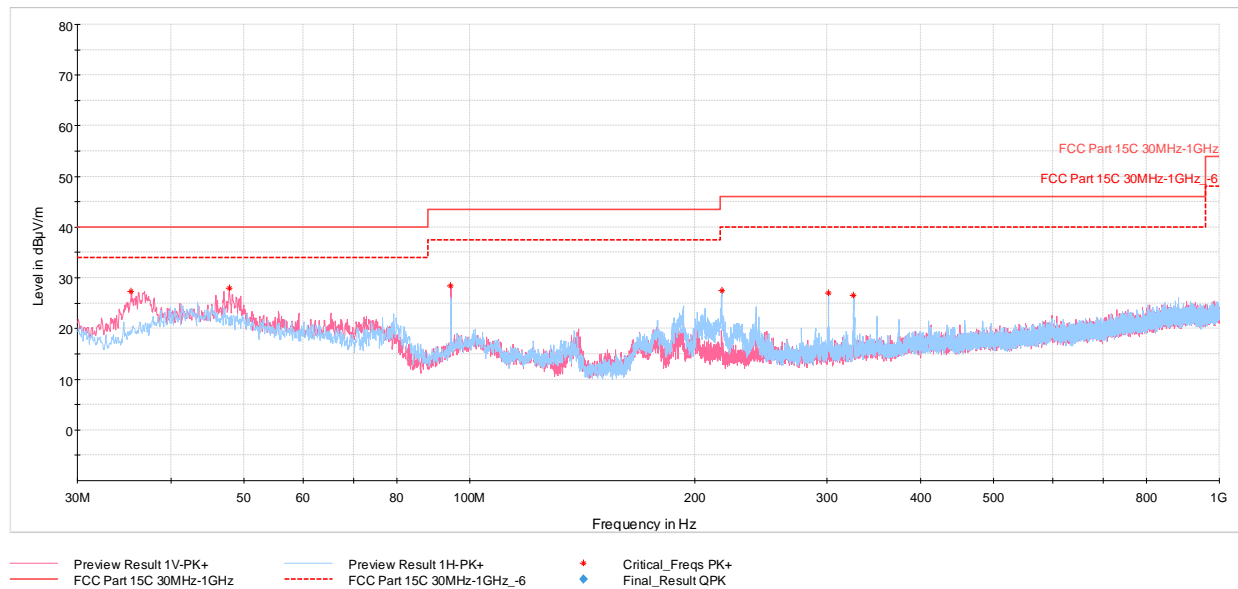
- Field Strength Level $[\text{dB}_{\mu\text{V/m}}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}] - \text{Preamplifier Gain} [\text{dB}]$
- $\text{Margin} [\text{dB}] = \text{Field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

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 144 of 153

V 10.5 12/15/2021

CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

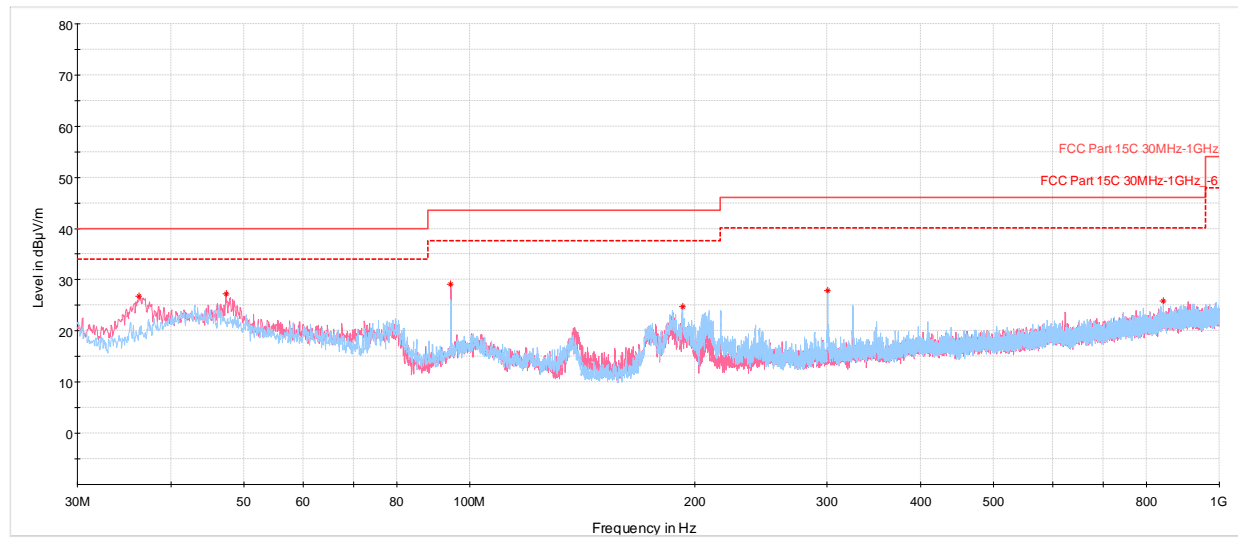


Plot 7-197. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

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]
35.384	Max-Peak	V	100	340	-61.05	-18.60	27.35	40.00	-12.65
47.848	Max-Peak	V	100	195	-63.61	-15.44	27.95	40.00	-12.05
94.457	Max-Peak	V	100	216	-59.48	-19.06	28.46	43.52	-15.06
217.016	Max-Peak	H	100	180	-61.83	-17.71	27.46	46.02	-18.56
301.406	Max-Peak	H	100	305	-64.76	-15.27	26.97	46.02	-19.05
325.414	Max-Peak	H	100	295	-65.99	-14.54	26.47	46.02	-19.55

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

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 145 of 153



Plot 7-198. 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]
36.257	Max-Peak	V	100	311	-61.83	-18.39	26.78	40.00	-13.22
47.363	Max-Peak	V	100	16	-64.27	-15.48	27.25	40.00	-12.75
94.457	Max-Peak	V	100	220	-58.88	-19.06	29.06	43.52	-14.46
192.330	Max-Peak	H	100	242	-64.17	-18.09	24.74	43.52	-18.78
300.533	Max-Peak	H	100	301	-63.74	-15.37	27.89	46.02	-18.13
841.308	Max-Peak	H	100	92	-76.12	-5.00	25.88	46.02	-20.14

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

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 146 of 153

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: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 147 of 153

V 10.5 12/15/2021

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Test Setup

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

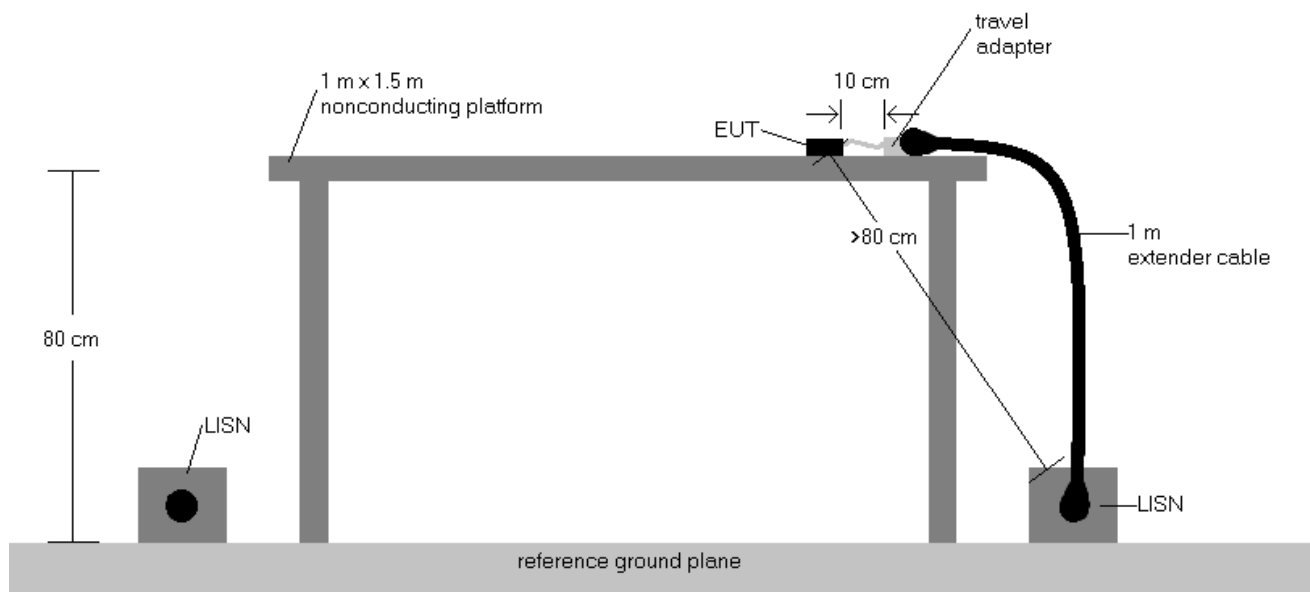


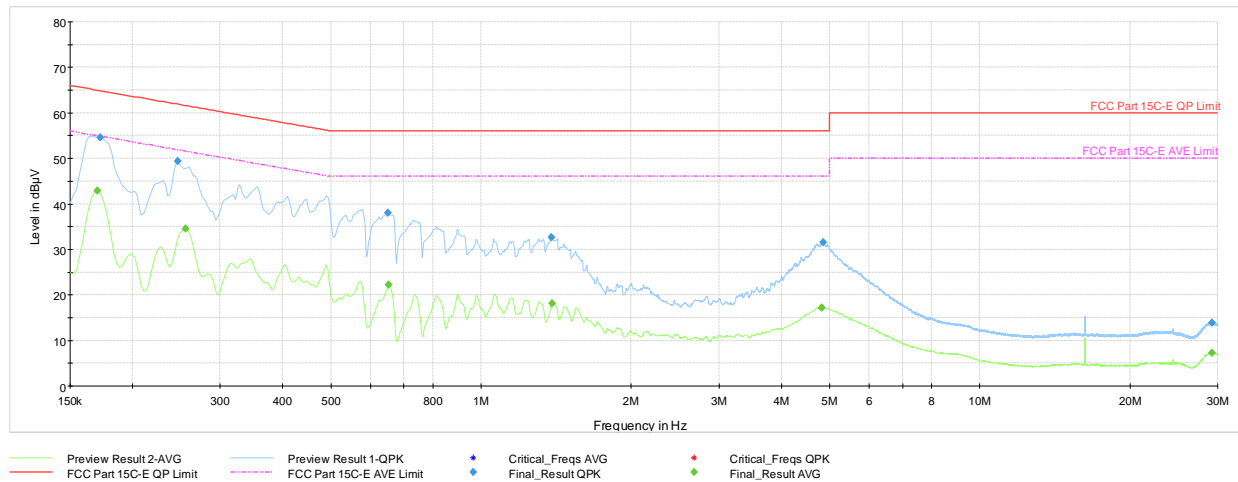
Figure 7-9. Test Instrument & Measurement Setup

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.

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 148 of 153

V 10.5 12/15/2021



Plot 7-199. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (L1, with AC/DC Adapter)

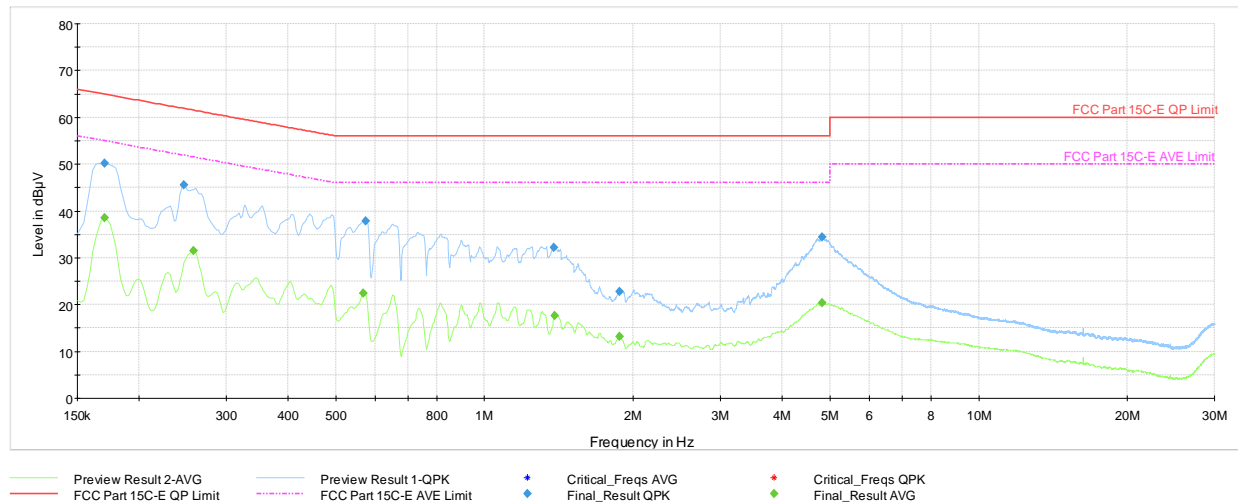
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.170	FINAL	---	42.96	54.95	-11.99	L1	GND
0.173	FINAL	54.55	---	64.84	-10.29	L1	GND
0.247	FINAL	49.41	---	61.87	-12.45	L1	GND
0.256	FINAL	---	34.52	51.57	-17.05	L1	GND
0.650	FINAL	37.98	---	56.00	-18.02	L1	GND
0.652	FINAL	---	22.24	46.00	-23.76	L1	GND
1.383	FINAL	32.64	---	56.00	-23.36	L1	GND
1.390	FINAL	---	18.10	46.00	-27.90	L1	GND
4.828	FINAL	---	17.26	46.00	-28.74	L1	GND
4.850	FINAL	31.59	---	56.00	-24.41	L1	GND
29.252	FINAL	---	7.30	50.00	-42.70	L1	GND
29.261	FINAL	13.89	---	60.00	-46.11	L1	GND

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

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 149 of 153

V 10.5 12/15/2021

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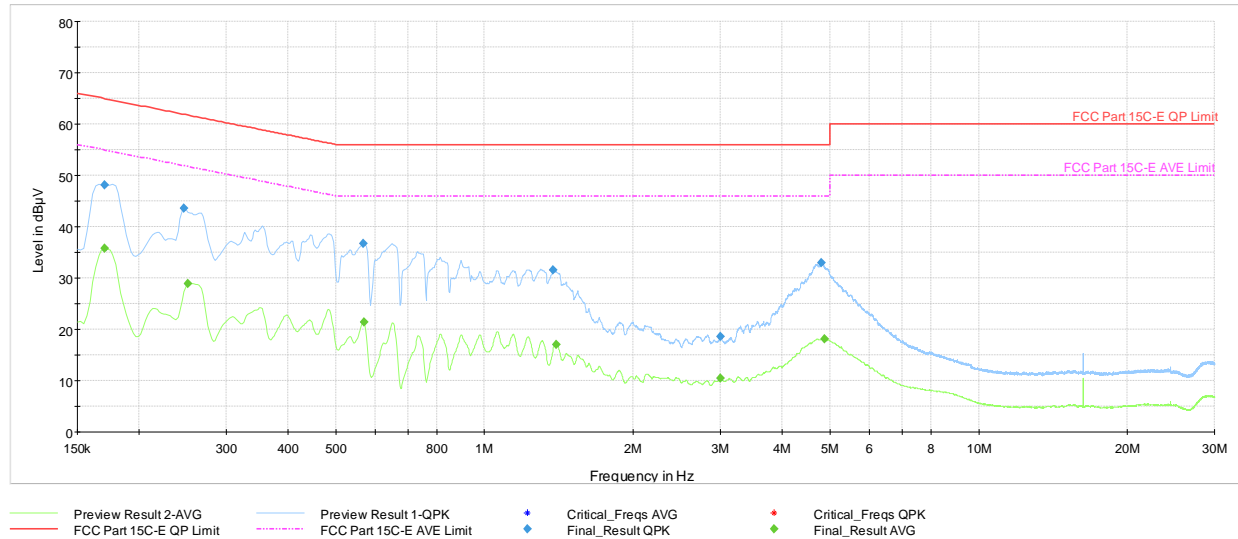


Plot 7-200. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (N, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.170	FINAL	---	38.58	54.95	-16.37	N	GND
0.170	FINAL	50.13	---	64.95	-14.81	N	GND
0.247	FINAL	45.55	---	61.87	-16.31	N	GND
0.258	FINAL	---	31.57	51.50	-19.92	N	GND
0.569	FINAL	---	22.52	46.00	-23.48	N	GND
0.575	FINAL	37.79	---	56.00	-18.21	N	GND
1.381	FINAL	32.19	---	56.00	-23.81	N	GND
1.388	FINAL	---	17.67	46.00	-28.33	N	GND
1.874	FINAL	22.83	---	56.00	-33.17	N	GND
1.876	FINAL	---	13.24	46.00	-32.76	N	GND
4.826	FINAL	34.45	---	56.00	-21.55	N	GND
4.828	FINAL	---	20.32	46.00	-25.68	N	GND

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

FCC ID: BCGA2435 IC: 579C-A2435			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device		Page 150 of 153



Plot 7-201. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (L1, with AC/DC Adapter)

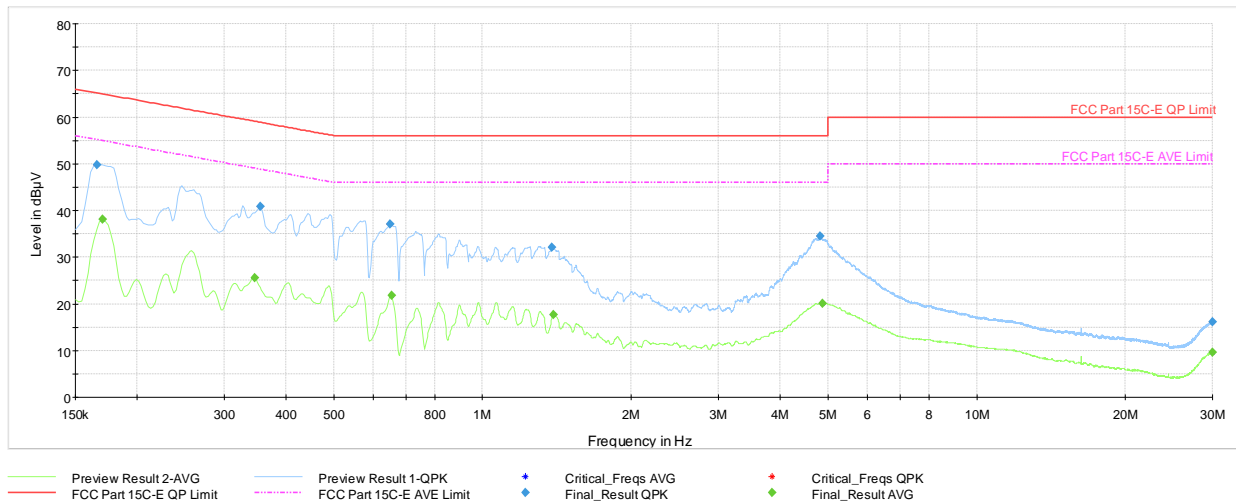
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.170	FINAL	---	35.86	54.95	-19.09	L1	GND
0.170	FINAL	48.19	---	64.95	-16.76	L1	GND
0.247	FINAL	43.62	---	61.87	-18.24	L1	GND
0.251	FINAL	---	28.83	51.72	-22.89	L1	GND
0.569	FINAL	36.65	---	56.00	-19.35	L1	GND
0.571	FINAL	---	21.34	46.00	-24.66	L1	GND
1.379	FINAL	31.61	---	56.00	-24.39	L1	GND
1.394	FINAL	---	17.10	46.00	-28.90	L1	GND
3.003	FINAL	---	10.46	46.00	-35.54	L1	GND
3.005	FINAL	18.59	---	56.00	-37.41	L1	GND
4.803	FINAL	32.92	---	56.00	-23.08	L1	GND
4.868	FINAL	---	18.10	46.00	-27.90	L1	GND

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

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 151 of 153

V 10.5 12/15/2021

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Plot 7-202. 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
0.166	FINAL	49.77	---	65.17	-15.40	N	GND
0.170	FINAL	---	38.17	54.95	-16.78	N	GND
0.346	FINAL	---	25.66	49.06	-23.41	N	GND
0.355	FINAL	40.87	---	58.85	-17.98	N	GND
0.650	FINAL	37.07	---	56.00	-18.93	N	GND
0.654	FINAL	---	21.79	46.00	-24.21	N	GND
1.381	FINAL	32.14	---	56.00	-23.86	N	GND
1.392	FINAL	---	17.63	46.00	-28.37	N	GND
4.828	FINAL	34.50	---	56.00	-21.50	N	GND
4.868	FINAL	---	20.06	46.00	-25.94	N	GND
29.996	FINAL	---	9.63	50.00	-40.37	N	GND
29.996	FINAL	16.12	---	60.00	-43.88	N	GND

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

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 152 of 153

V 10.5 12/15/2021

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2435, IC: 579C-A2435** 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.

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-12.BCG	Test Dates: 05/30/2022 – 08/29/2022	EUT Type: Tablet Device	Page 153 of 153

V 10.5 12/15/2021

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