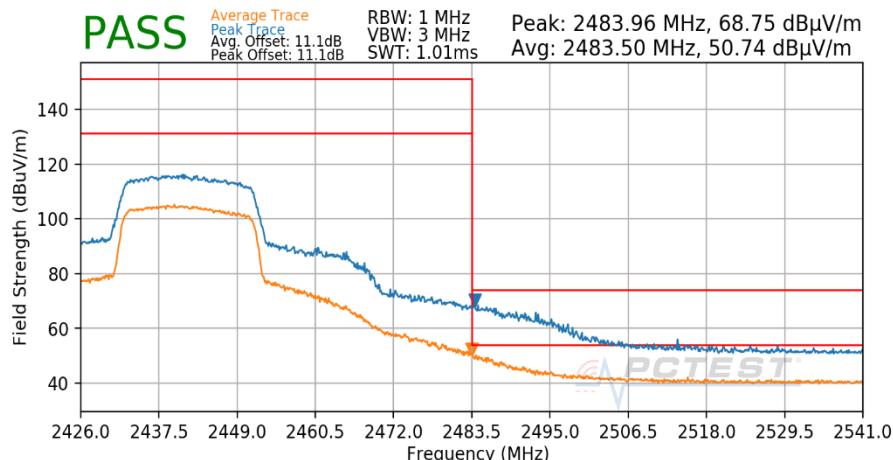
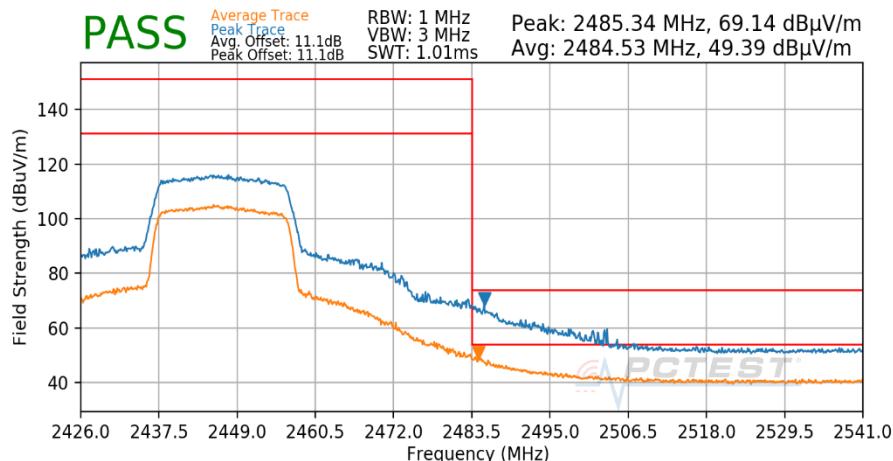


Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-161. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

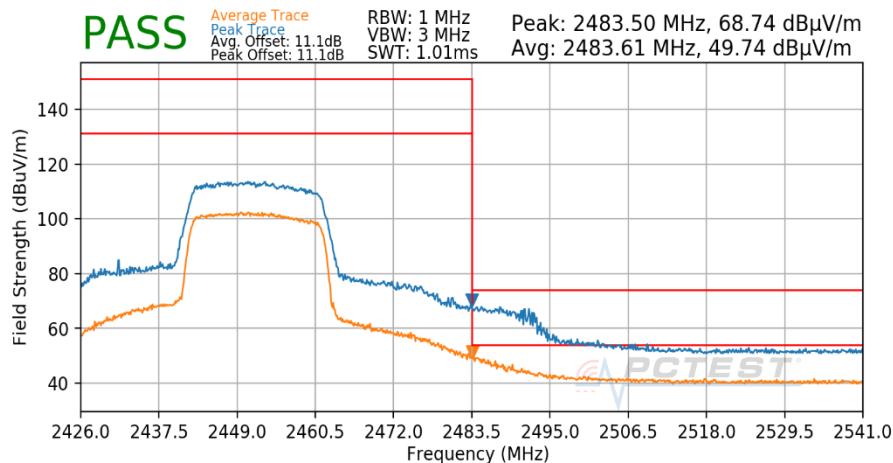
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



Plot 7-162. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

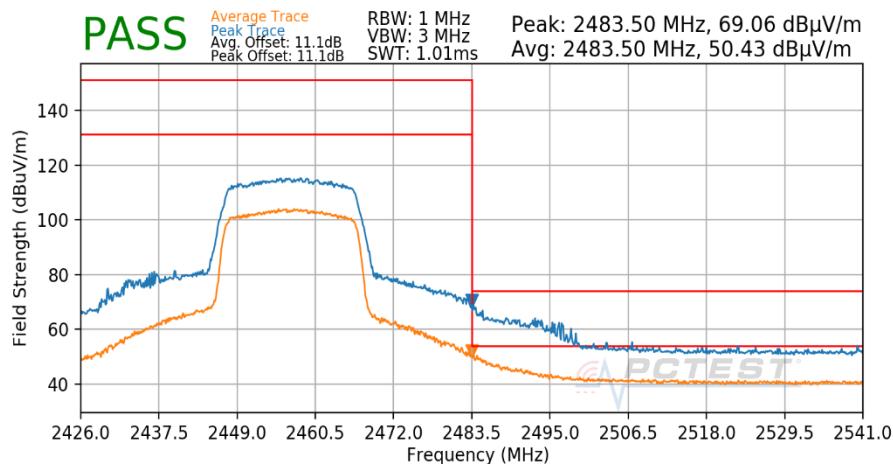
FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 124 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-163. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

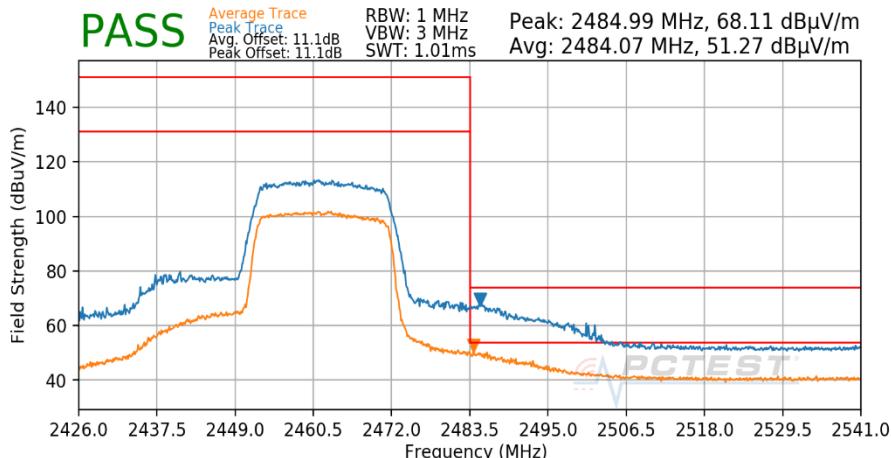
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-164. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

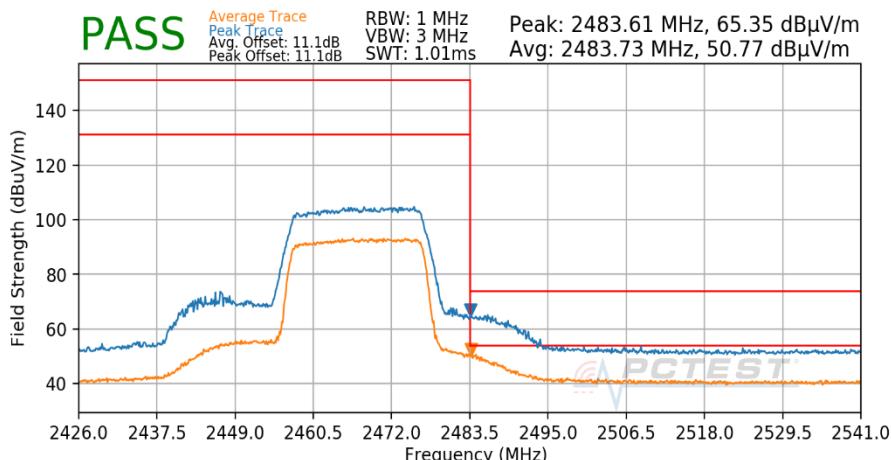
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST[®] Proud to be part of the element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 125 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-165. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-166. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

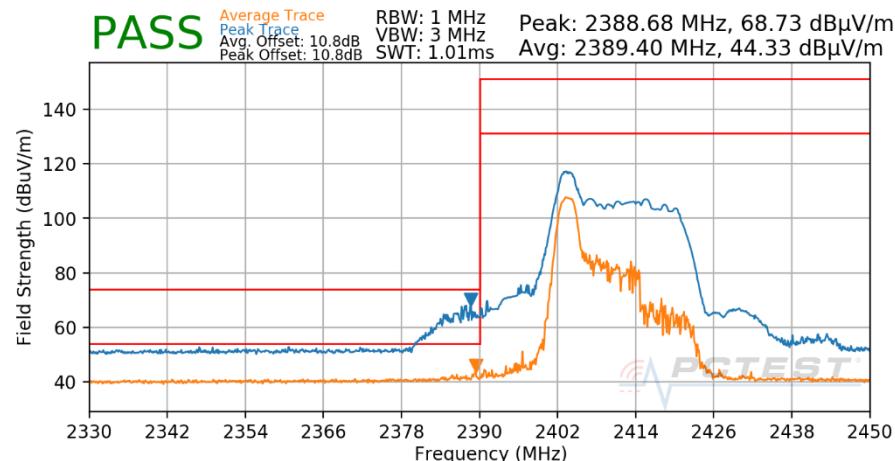
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST[®] Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 126 of 155	

7.7.5 Antenna WF7b Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

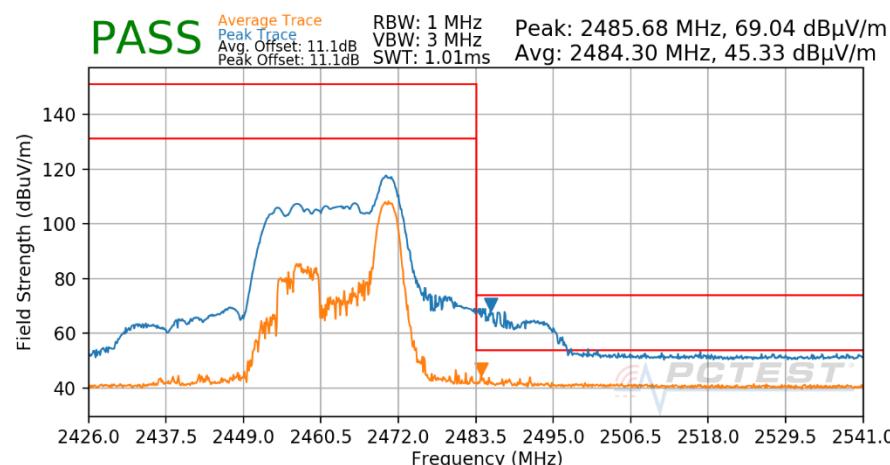
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-167. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Peak & Average – RU26)

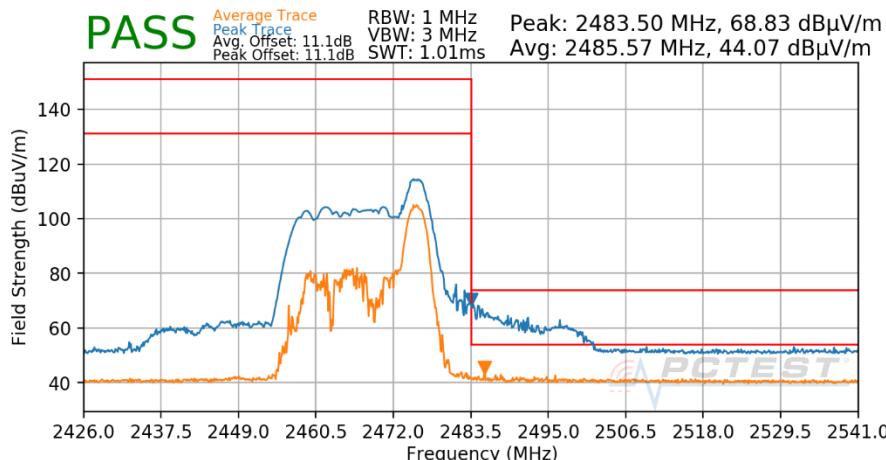
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-168. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU26)

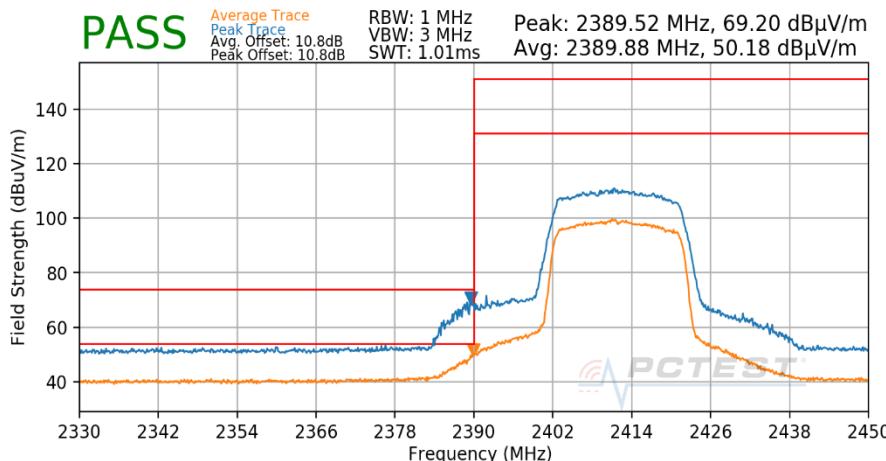
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of the element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 127 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-169. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU26)

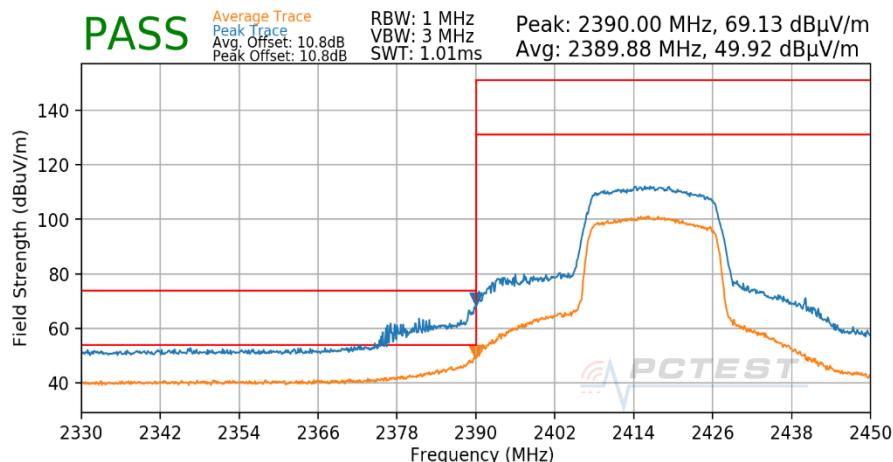
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-170. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

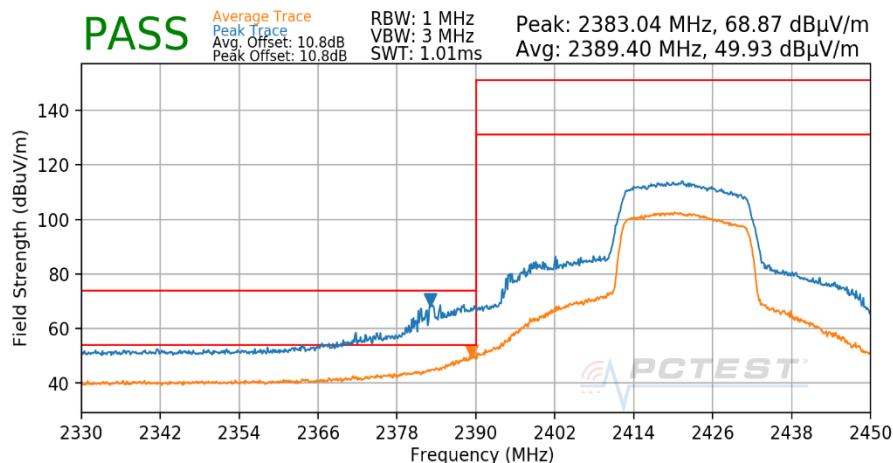
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 128 of 155	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-171. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

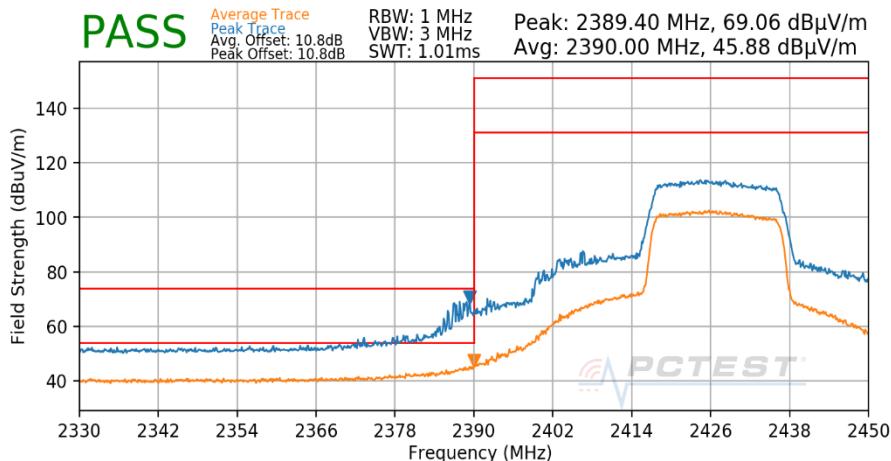
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-172. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

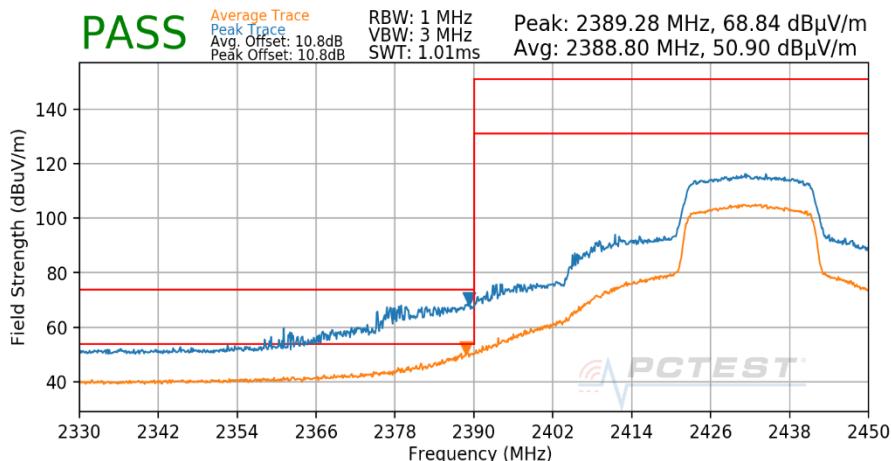
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 129 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-173. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

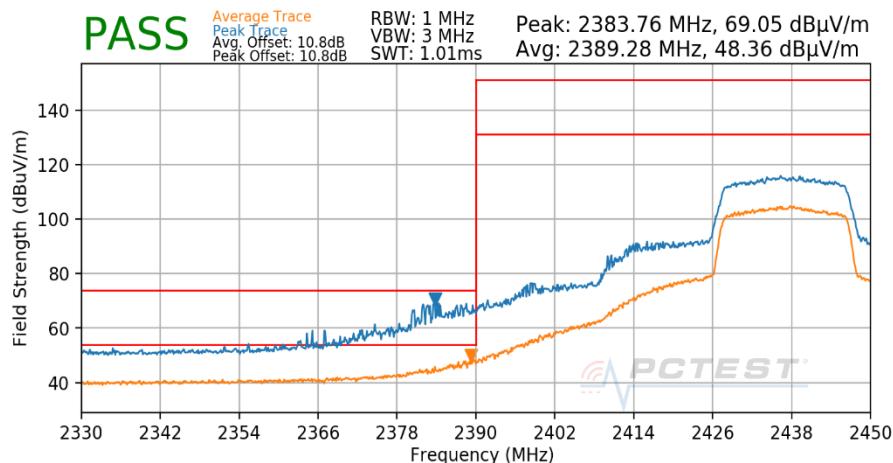
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2432MHz
 Channel: 5



Plot 7-174. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

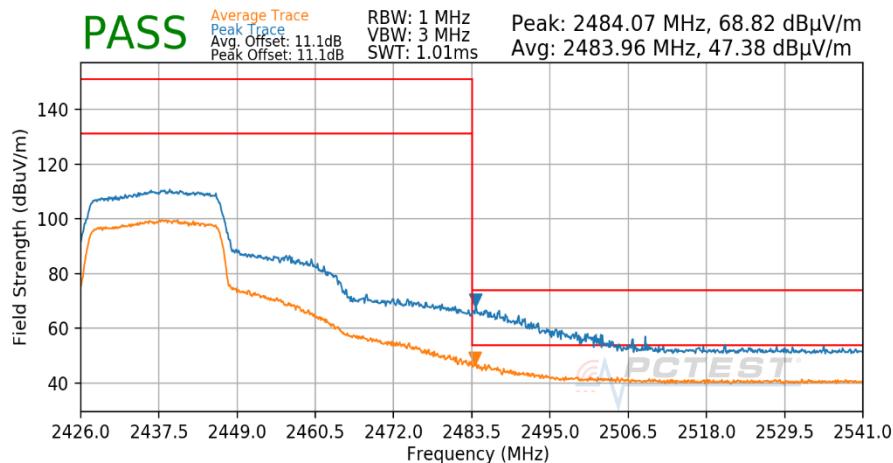
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST[®] Proud to be part of the element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 130 of 155	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-175. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

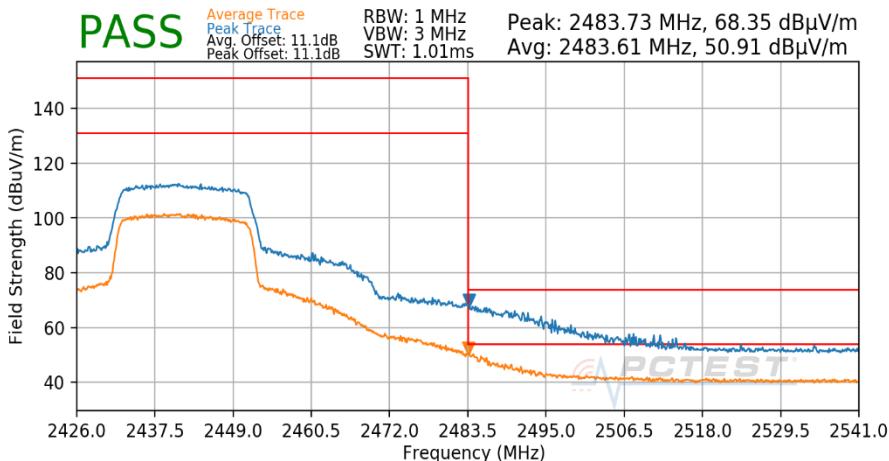
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-176. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

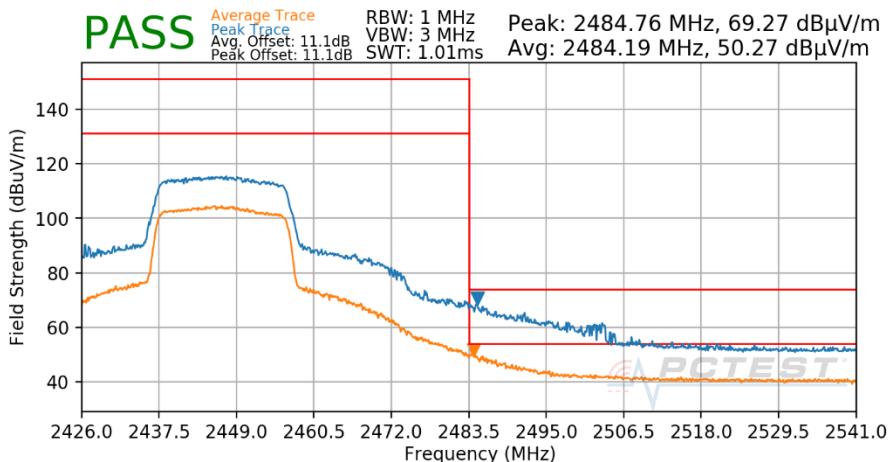
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 131 of 155	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-177. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

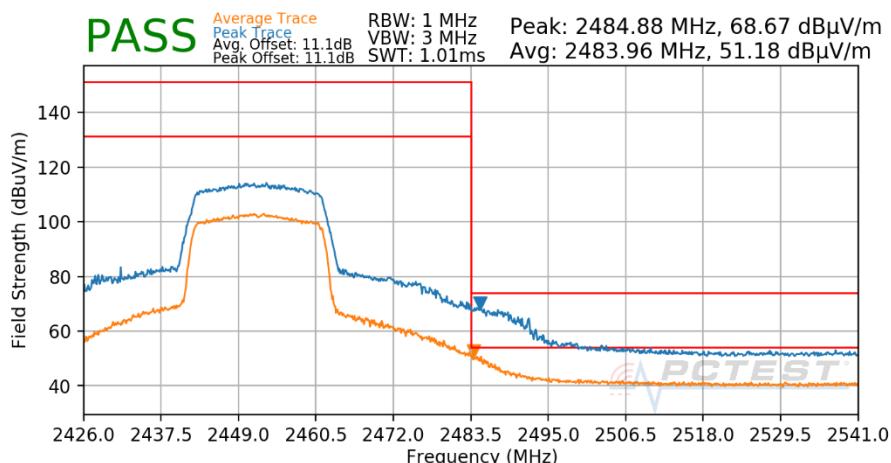
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



Plot 7-178. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

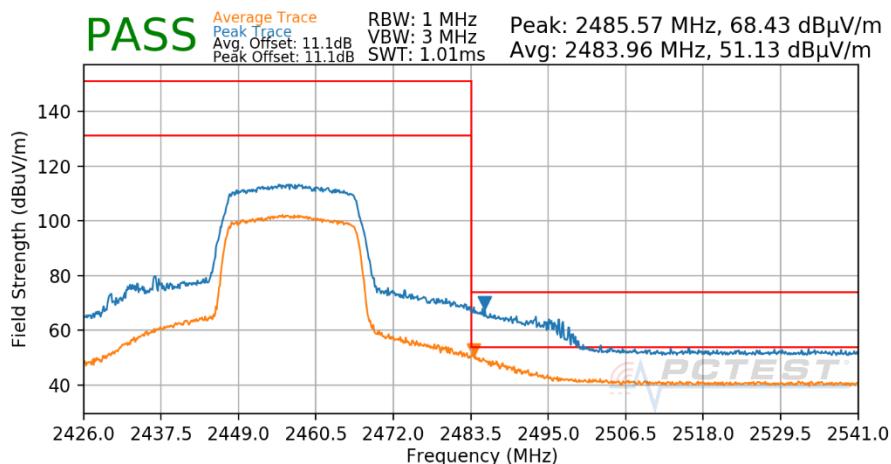
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 132 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-179. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

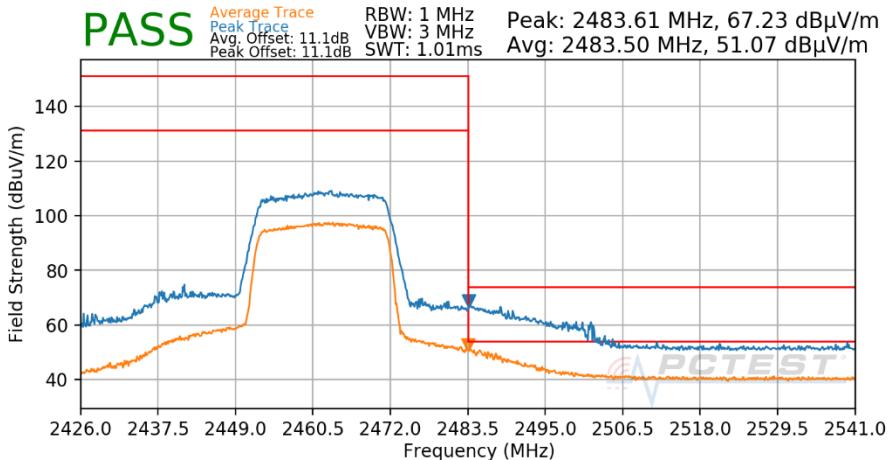
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-180. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

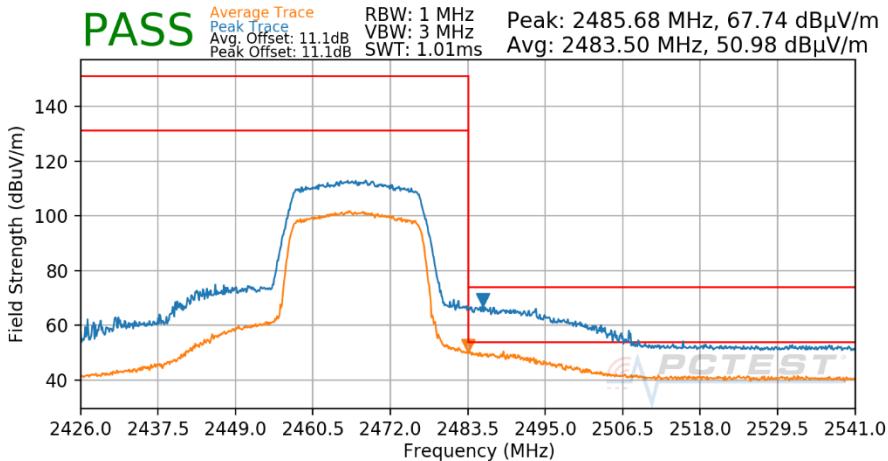
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 133 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-181. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-182. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Peak & Average – RU242)

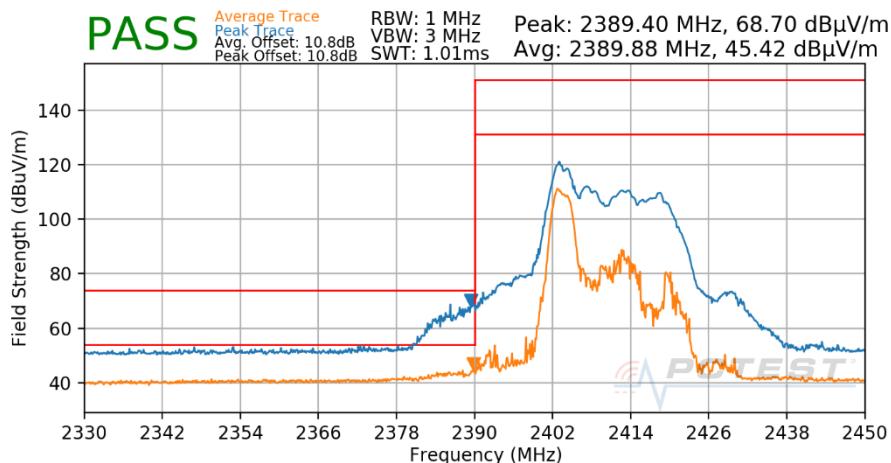
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 134 of 155

7.7.6 CDD Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

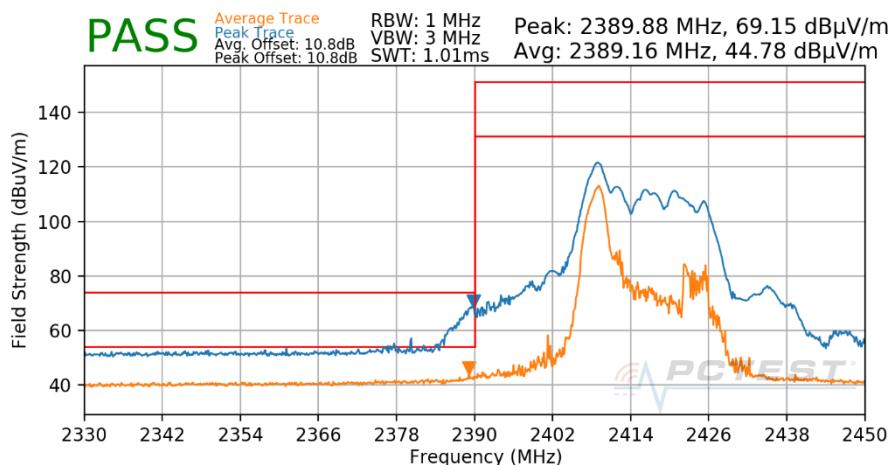
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



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

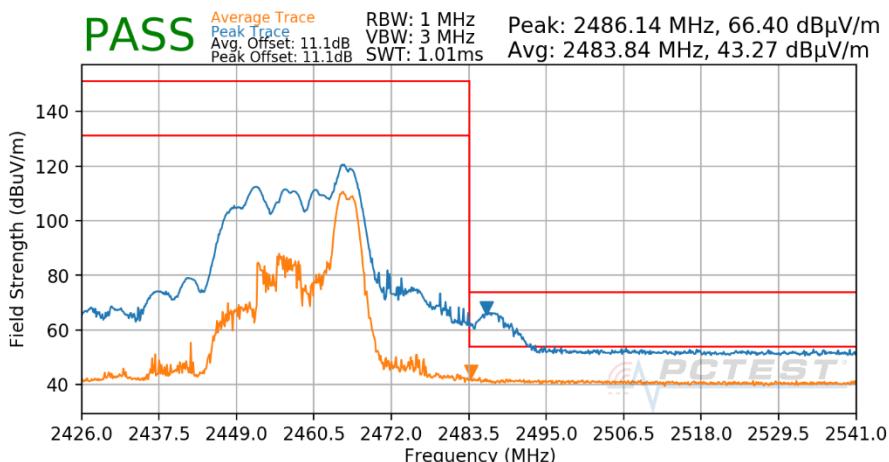
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-184. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

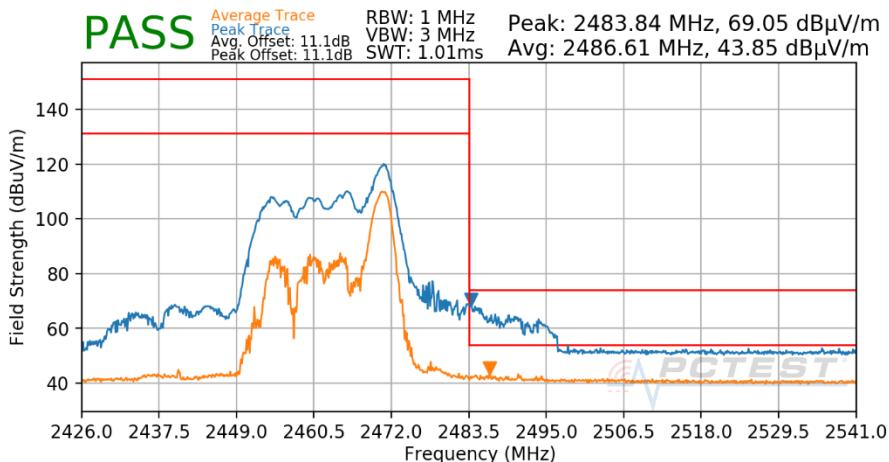
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of the element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 135 of 155	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-185. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

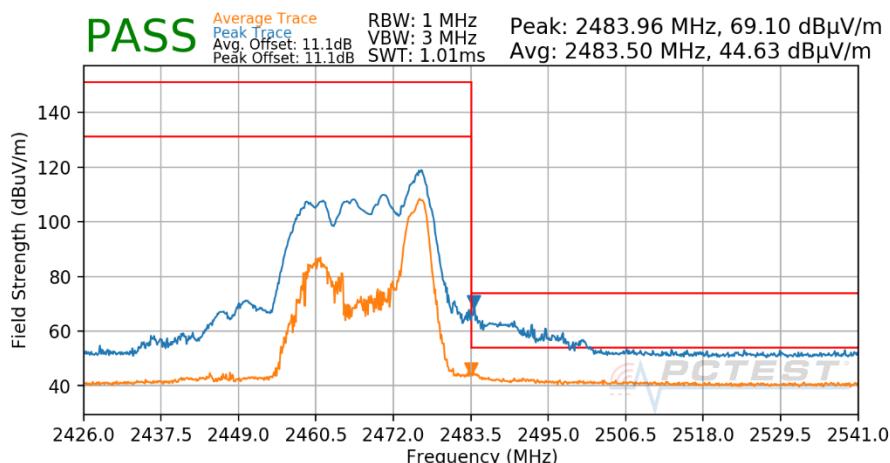
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-186. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

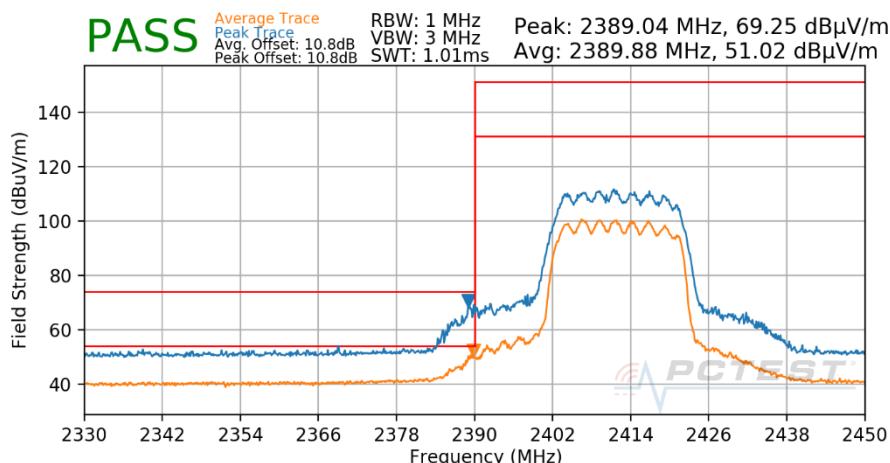
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 136 of 155	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-187. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

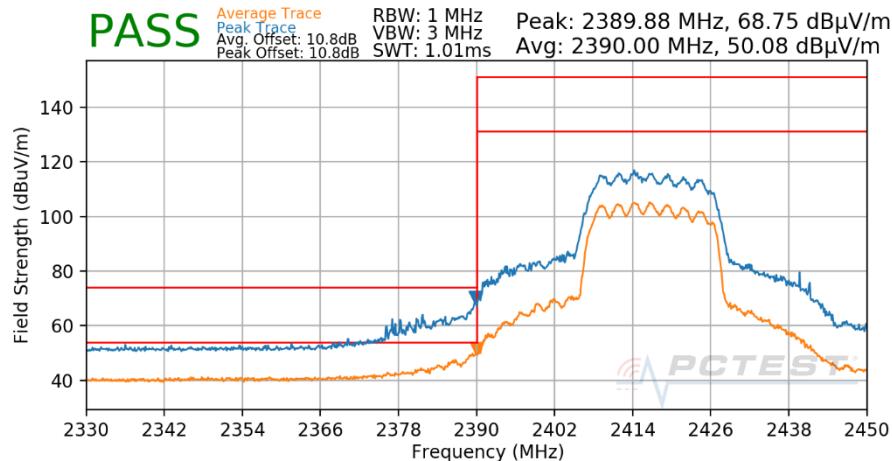
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



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

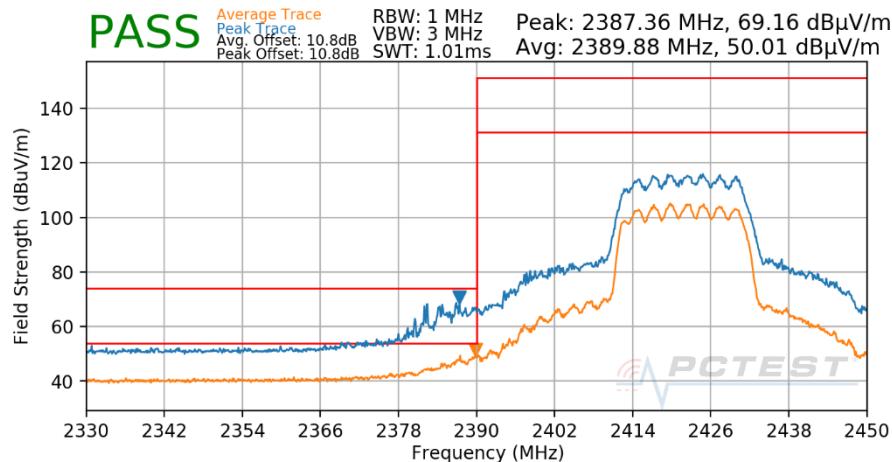
FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 137 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



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

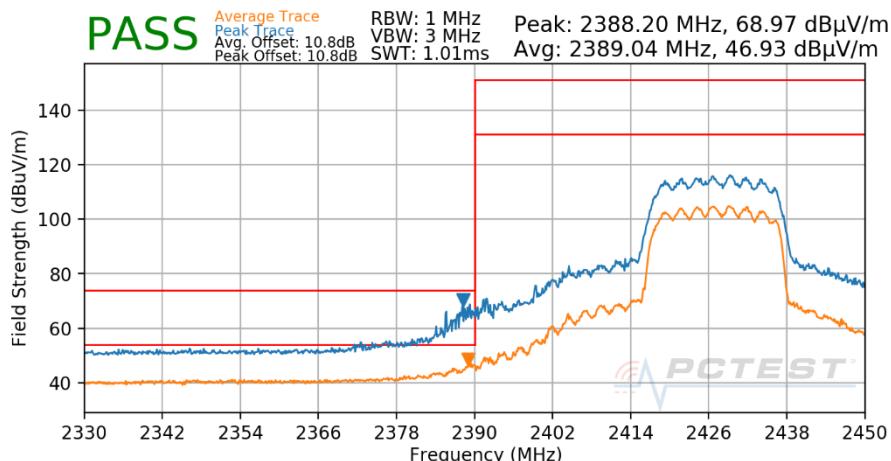
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



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

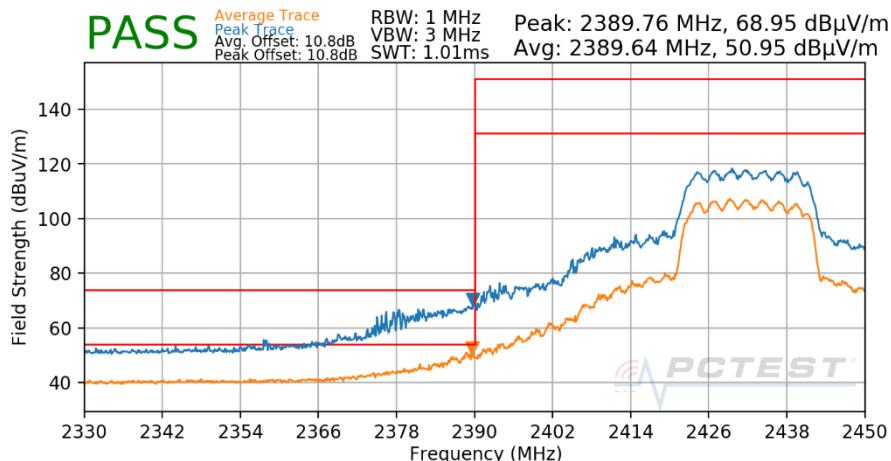
FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 138 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



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

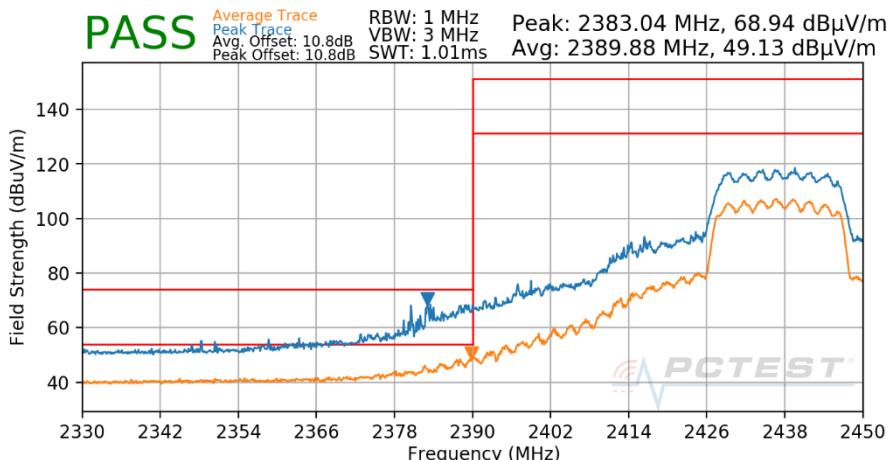
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2432MHz
 Channel: 5



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

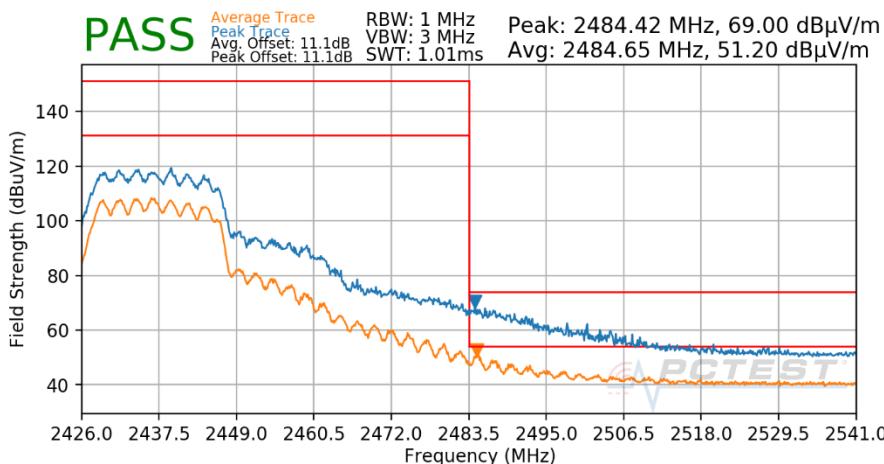
FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 139 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



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

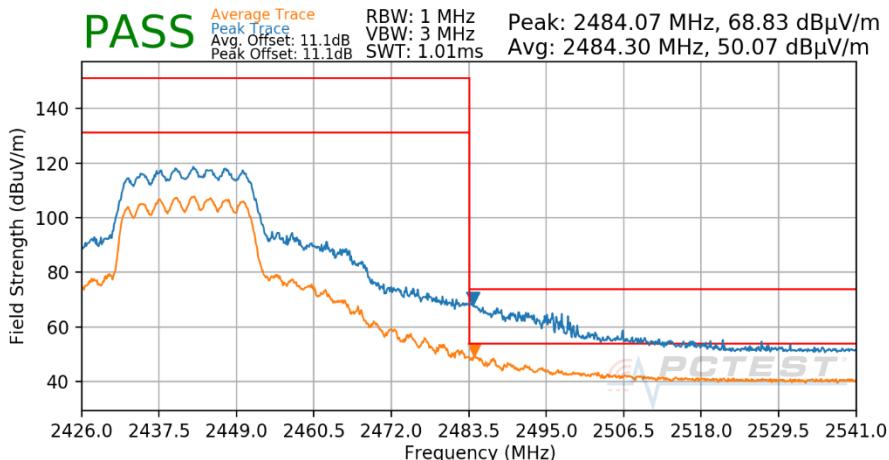
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



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

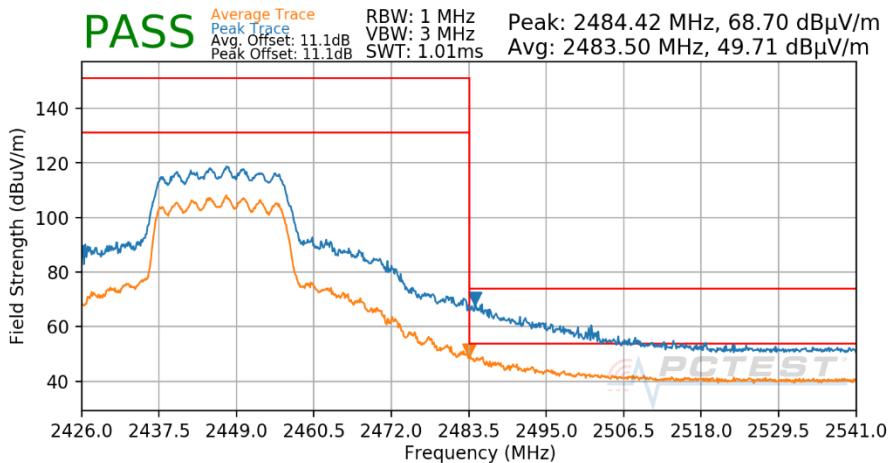
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 140 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



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

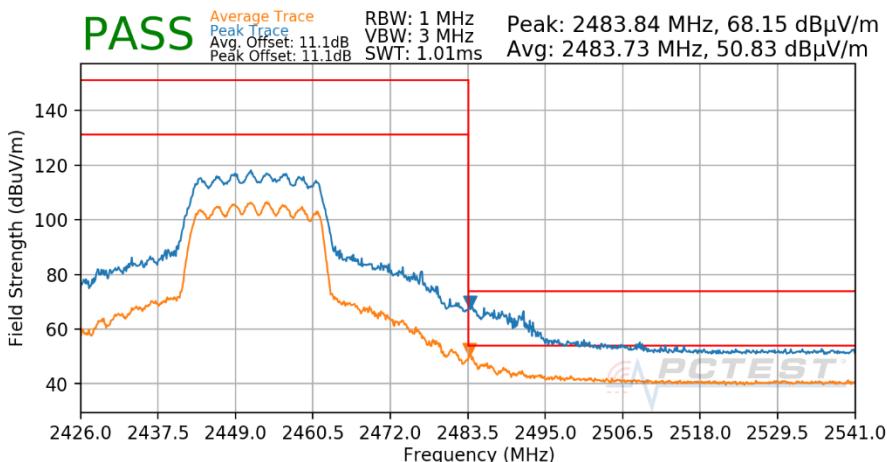
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



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

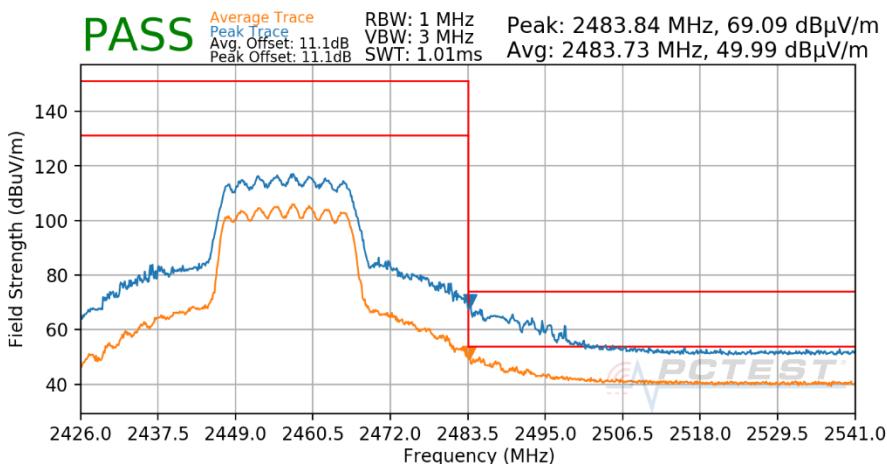
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST [®] Proud to be part of the element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 141 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-197. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

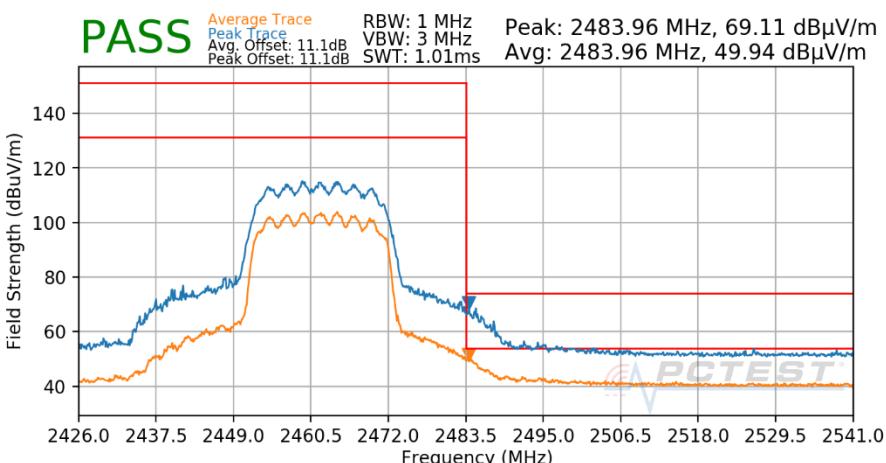
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-198. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

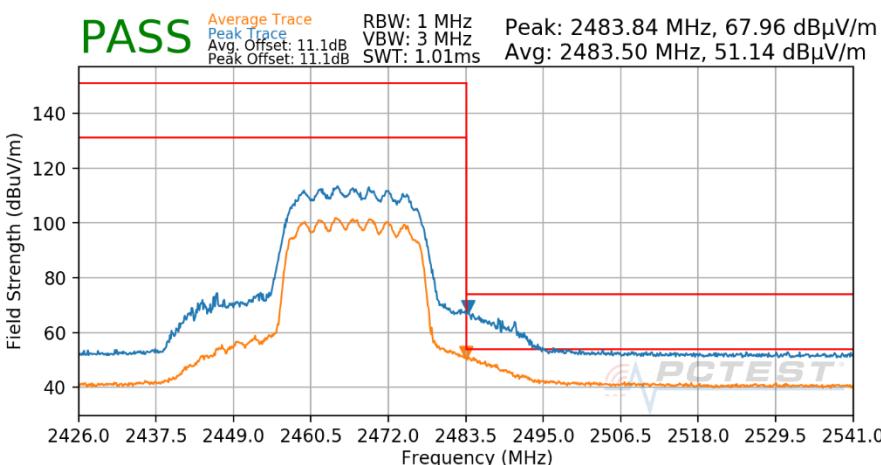
FCC ID: BCGA2588 IC: 579C-A2588	PCTEST[®] Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device		Page 142 of 155

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-199. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-200. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 143 of 155

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 [μ 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

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Test Setup

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

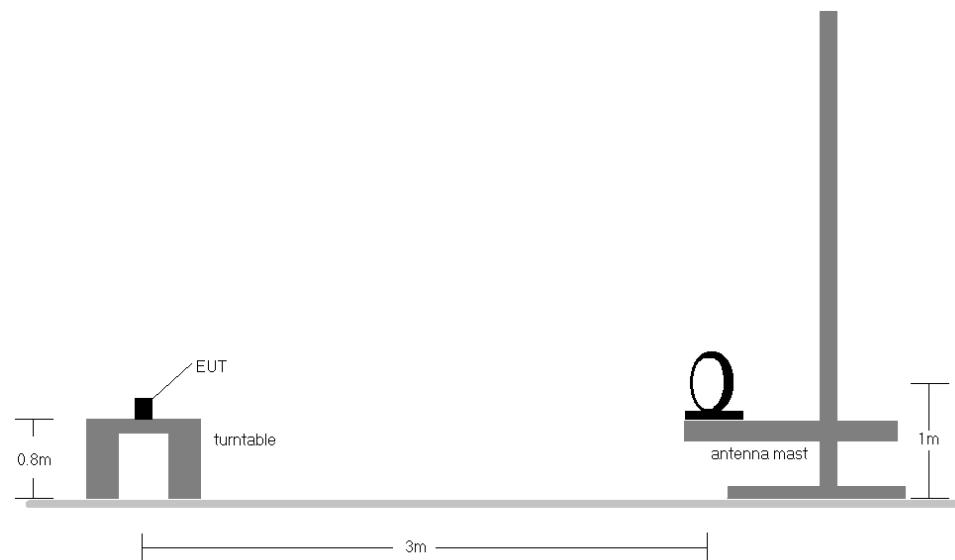


Figure 7-7. Radiated Test Setup < 30MHz

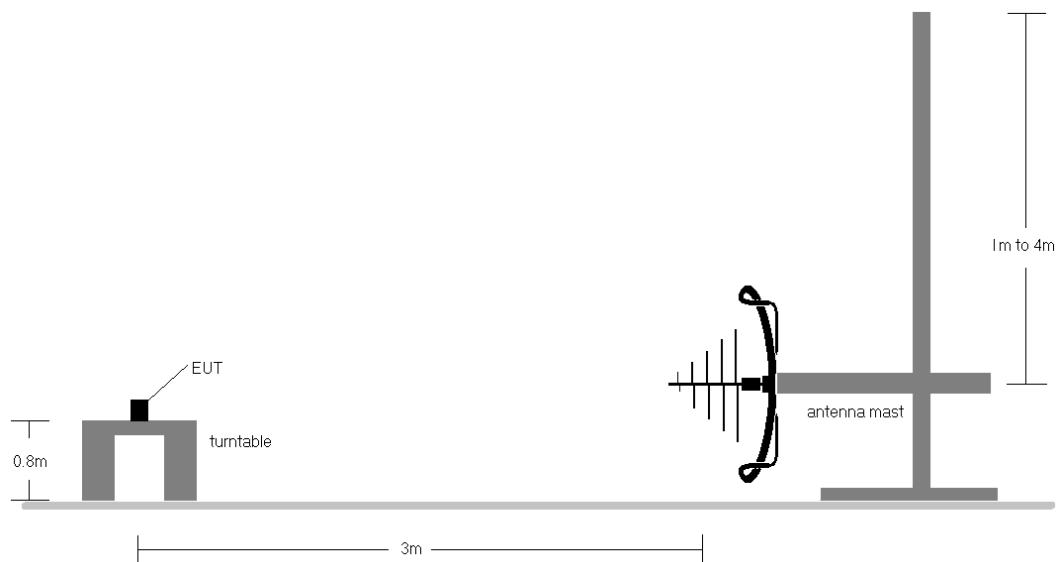


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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

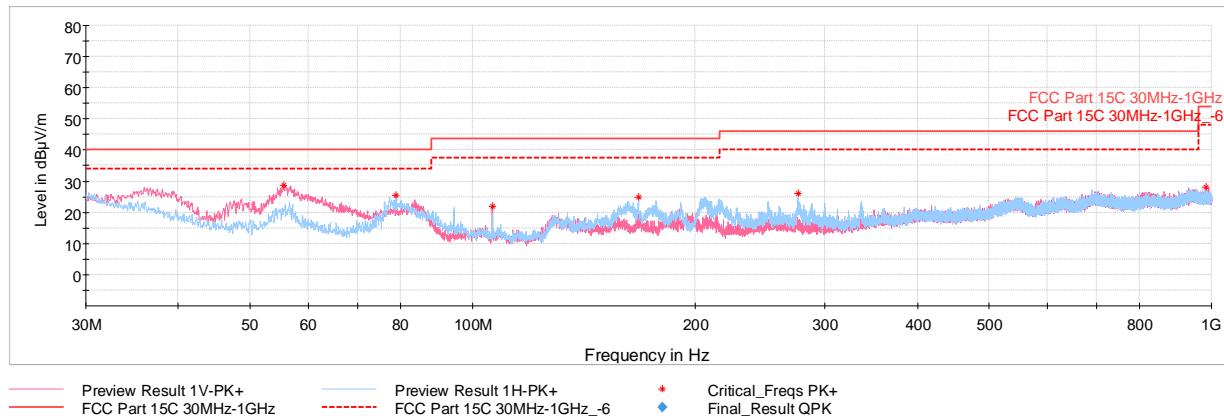
Determining Spurious Emissions Levels

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

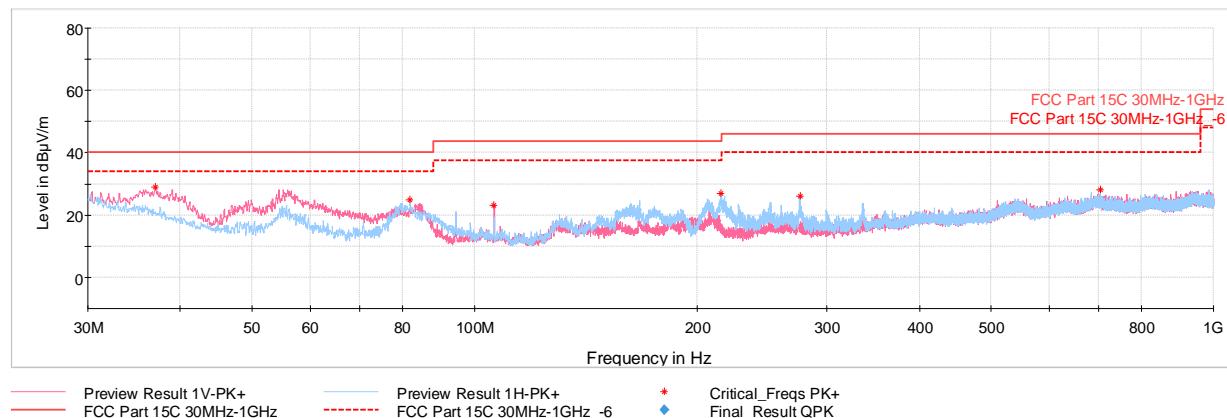


Plot 7-201. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

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]
55.51	Max Peak	V	100	53	-57.26	-21.11	28.63	40.00	-11.37
78.89	Max Peak	H	200	304	-61.03	-20.61	25.36	40.00	-14.64
106.44	Max Peak	V	100	354	-65.14	-19.93	21.93	43.52	-21.59
167.84	Max Peak	H	100	253	-65.64	-16.60	24.76	43.52	-18.76
275.80	Max Peak	H	100	297	-68.12	-12.86	26.02	46.02	-20.00
984.38	Max Peak	V	300	10	-78.38	-0.45	28.17	53.98	-25.81

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

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Plot 7-202. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
37.03	Max Peak	V	100	211	-63.16	-14.88	28.96	40.00	-11.04
81.80	Max Peak	H	200	292	-61.58	-20.62	24.80	40.00	-15.20
106.39	Max Peak	V	100	15	-63.99	-19.95	23.06	43.52	-20.46
215.61	Max Peak	H	100	268	-64.63	-15.39	26.98	43.52	-16.54
275.65	Max Peak	H	100	294	-68.05	-12.86	26.09	46.02	-19.93
702.60	Max Peak	H	300	246	-77.58	-1.31	28.11	46.02	-17.91

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

FCC ID: BCGA2588 IC: 579C-A2588	 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 (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-41. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Subclause 6.2

Test Settings

Quasi-Peak Measurements

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

Average Measurements

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

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST [®] Proud to be part of the element		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.

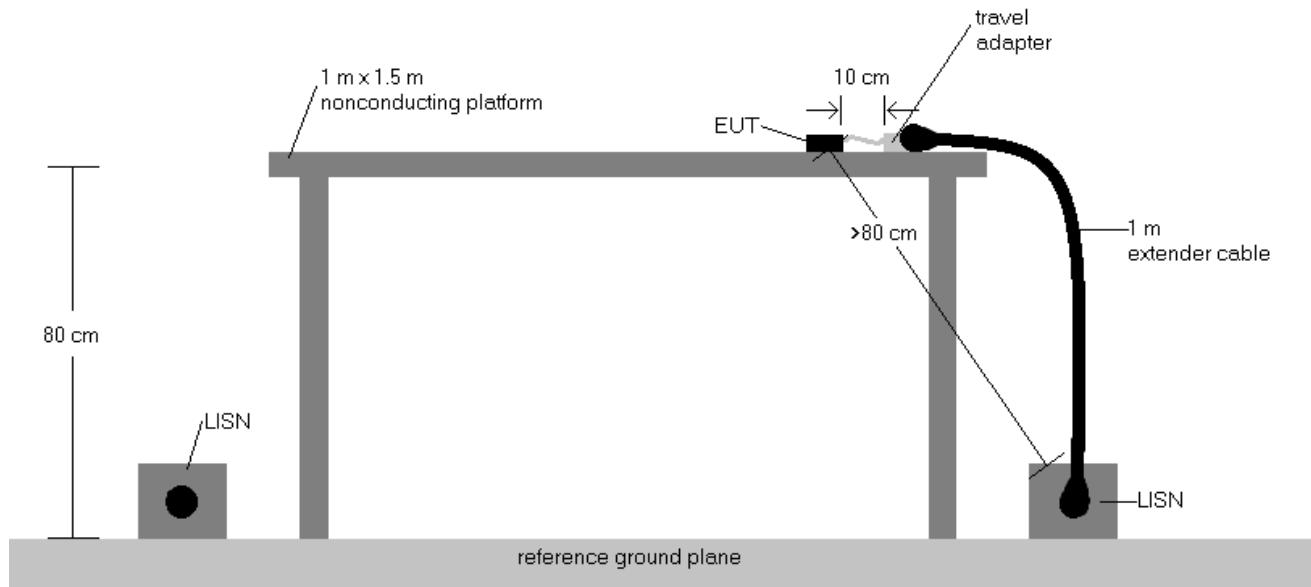
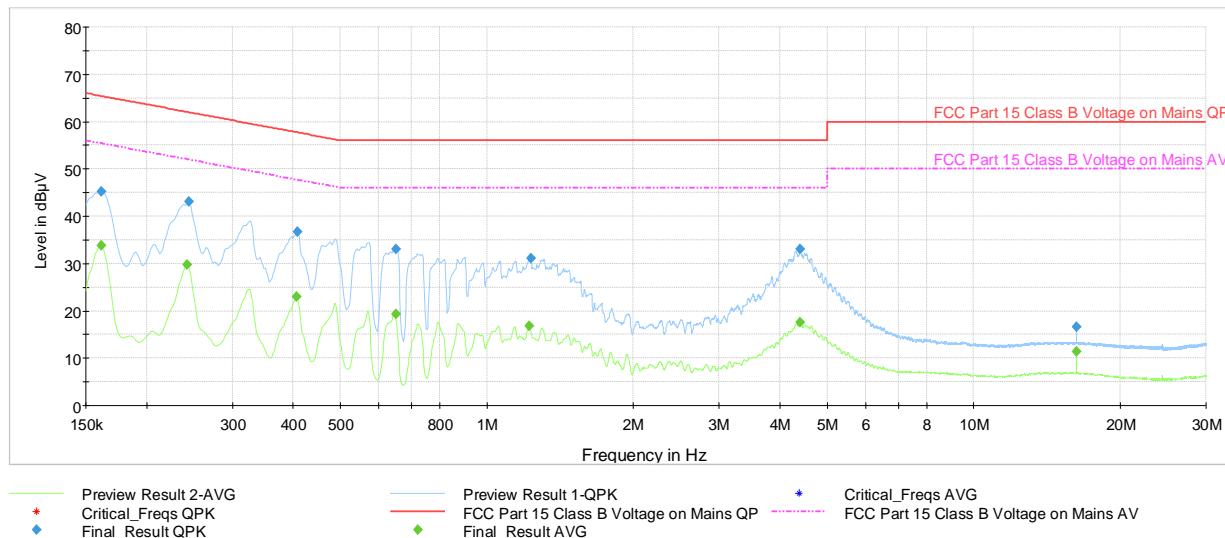


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

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. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ 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: BCGA2588 IC: 579C-A2588	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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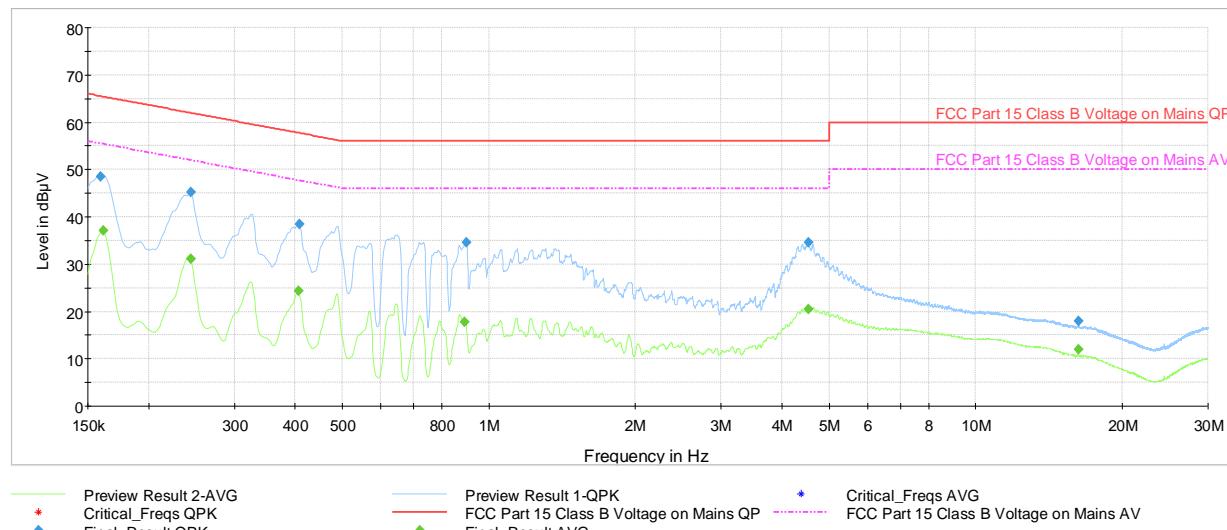


Plot 7-203. AC Line Conducted Emissions with 802.11ax CDD (RU26) Ch.6 (L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	---	33.89	55.40	-21.51	L1	GND
0.161	FINAL	45.2	---	65.40	-20.16	L1	GND
0.242	FINAL	---	29.78	52.02	-22.24	L1	GND
0.245	FINAL	43.1	---	61.94	-18.82	L1	GND
0.407	FINAL	---	22.92	47.72	-24.80	L1	GND
0.409	FINAL	36.7	---	57.67	-21.00	L1	GND
0.650	FINAL	---	19.25	46.00	-26.75	L1	GND
0.652	FINAL	33.0	---	56.00	-23.04	L1	GND
1.221	FINAL	---	16.84	46.00	-29.16	L1	GND
1.230	FINAL	31.0	---	56.00	-24.97	L1	GND
4.400	FINAL	33.0	---	56.00	-22.97	L1	GND
4.400	FINAL	---	17.57	46.00	-28.43	L1	GND
16.258	FINAL	---	11.34	50.00	-38.66	L1	GND
16.258	FINAL	16.6	---	60.00	-43.38	L1	GND

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

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 151 of 155	

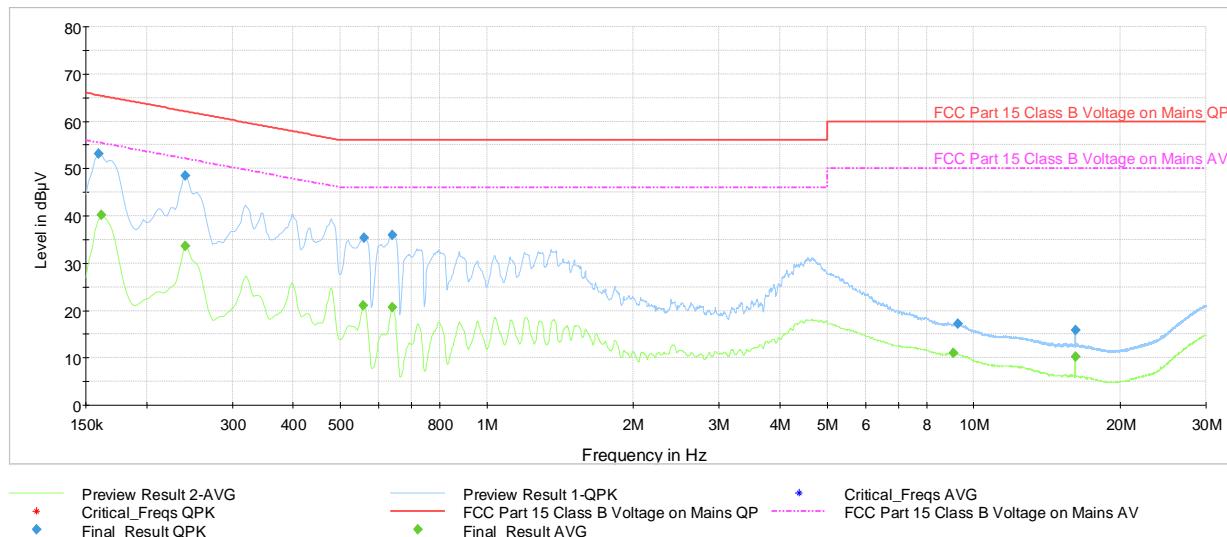


Plot 7-204. AC Line Conducted Emissions with 802.11ax CDD (RU26) Ch.6 (N, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.159	FINAL	48.5	---	65.52	-16.98	N	GND
0.161	FINAL	---	37.01	55.40	-18.39	N	GND
0.245	FINAL	---	31.10	51.94	-20.84	N	GND
0.245	FINAL	45.2	---	61.94	-16.70	N	GND
0.407	FINAL	---	24.31	47.72	-23.41	N	GND
0.409	FINAL	38.5	---	57.67	-19.23	N	GND
0.893	FINAL	---	17.84	46.00	-28.16	N	GND
0.899	FINAL	34.6	---	56.00	-21.43	N	GND
4.526	FINAL	34.5	---	56.00	-21.48	N	GND
4.526	FINAL	---	20.40	46.00	-25.60	N	GND
16.262	FINAL	---	11.99	50.00	-38.01	N	GND
16.262	FINAL	17.9	---	60.00	-42.08	N	GND

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

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST [®] Proud to be part of element			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device			

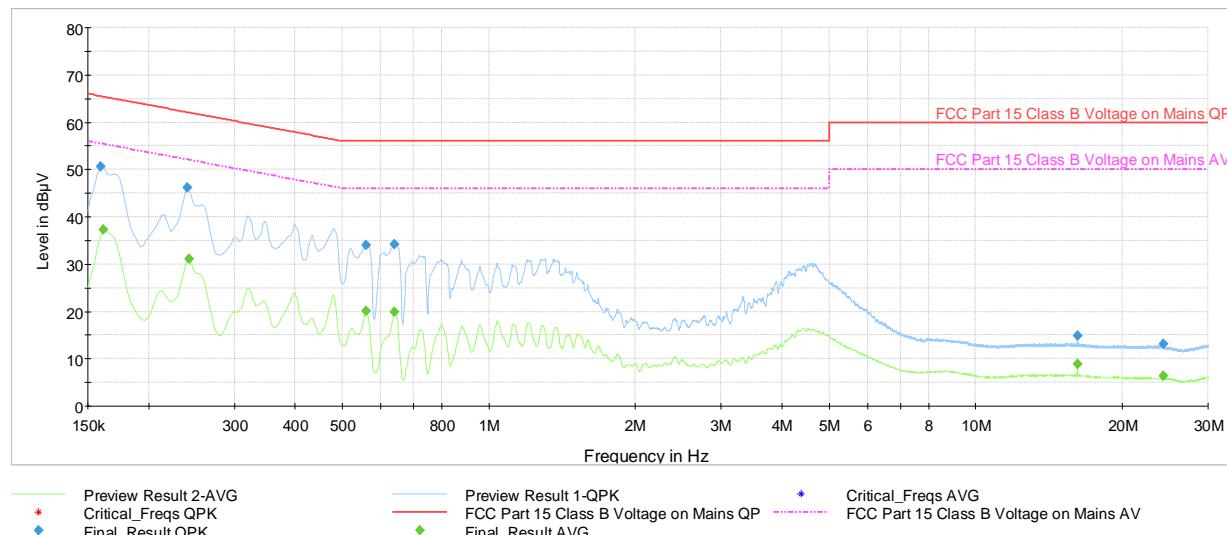


Plot 7-205. AC Line Conducted Emissions with 802.11ax CDD (RU242) Ch.6 (L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.159	FINAL	53.2	---	65.52	-12.29	L1	GND
0.161	FINAL	---	40.27	55.40	-15.13	L1	GND
0.240	FINAL	---	33.61	52.10	-18.48	L1	GND
0.240	FINAL	48.5	---	62.10	-13.63	L1	GND
0.557	FINAL	---	21.02	46.00	-24.98	L1	GND
0.560	FINAL	35.4	---	56.00	-20.57	L1	GND
0.638	FINAL	36.0	---	56.00	-20.00	L1	GND
0.641	FINAL	---	20.69	46.00	-25.31	L1	GND
9.076	FINAL	---	10.98	50.00	-39.02	L1	GND
9.287	FINAL	17.1	---	60.00	-42.86	L1	GND
16.154	FINAL	---	10.21	50.00	-39.79	L1	GND
16.154	FINAL	15.9	---	60.00	-44.14	L1	GND

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

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST [®] Proud to be part of the element			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device			



Plot 7-206. AC Line Conducted Emissions with 802.11ax CDD (RU242) Ch.6 (N, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.159	FINAL	50.5	---	65.52	-14.98	N	GND
0.161	FINAL	---	37.20	55.40	-18.20	N	GND
0.240	FINAL	46.2	---	62.10	-15.87	N	GND
0.242	FINAL	---	31.02	52.02	-21.00	N	GND
0.560	FINAL	---	20.03	46.00	-25.97	N	GND
0.560	FINAL	34.0	---	56.00	-21.98	N	GND
0.638	FINAL	34.2	---	56.00	-21.84	N	GND
0.641	FINAL	---	19.86	46.00	-26.14	N	GND
16.157	FINAL	14.8	---	60.00	-45.21	N	GND
16.157	FINAL	---	8.87	50.00	-41.13	N	GND
24.236	FINAL	---	6.40	50.00	-43.60	N	GND
24.236	FINAL	13.1	---	60.00	-46.92	N	GND

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

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST [®] Proud to be part of element			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device			

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2588, IC: 579C-A2588** 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: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-02.BCG	Test Dates: 12/02/2021-01/17/2022	EUT Type: Tablet Device	Page 155 of 155