

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [$\text{dB}_{\mu\text{V/m}}$] = 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 [$\text{dB}_{\mu\text{V/m}}$] – Limit [$\text{dB}_{\mu\text{V/m}}$]

Radiated Band Edge Measurement Offset

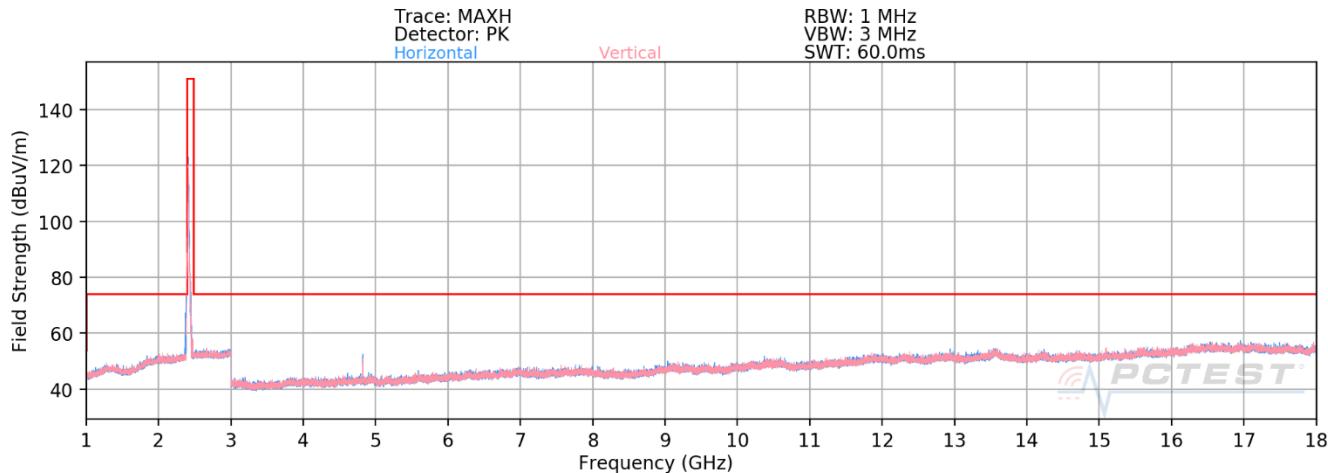
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST[®] Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.7.1 Antenna 4a Radiated Spurious Emission Measurements

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



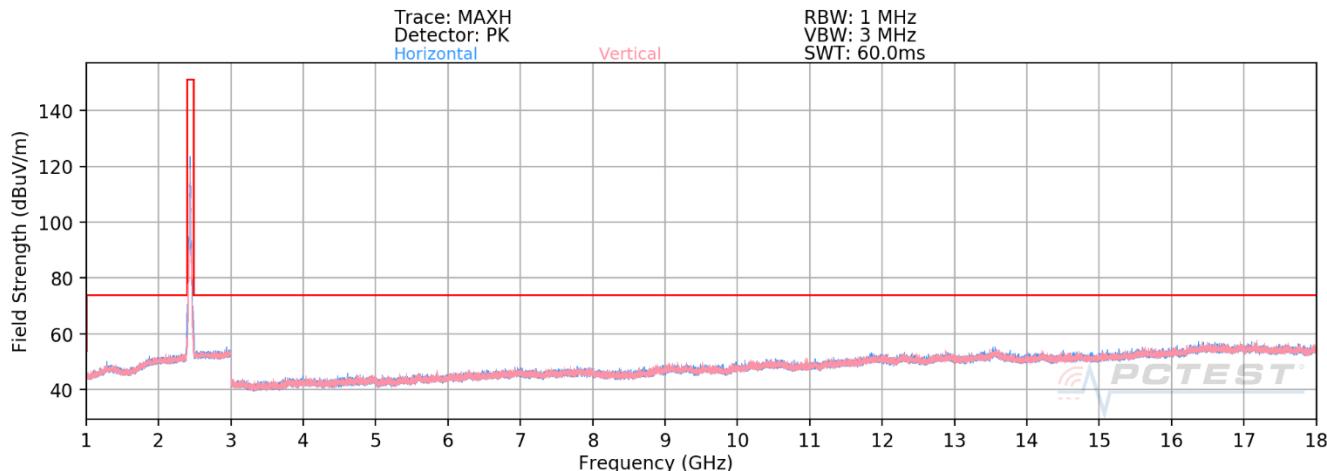
Plot 7-129. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU26 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	H	101	155	-69.77	7.54	44.77	53.98	-9.21
4824.00	Peak	H	101	155	-58.11	7.54	56.43	73.98	-17.55
12060.00	Avg	H	-	-	-83.49	17.07	40.58	53.98	-13.40
12060.00	Peak	H	-	-	-71.71	17.07	52.36	73.98	-21.62

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

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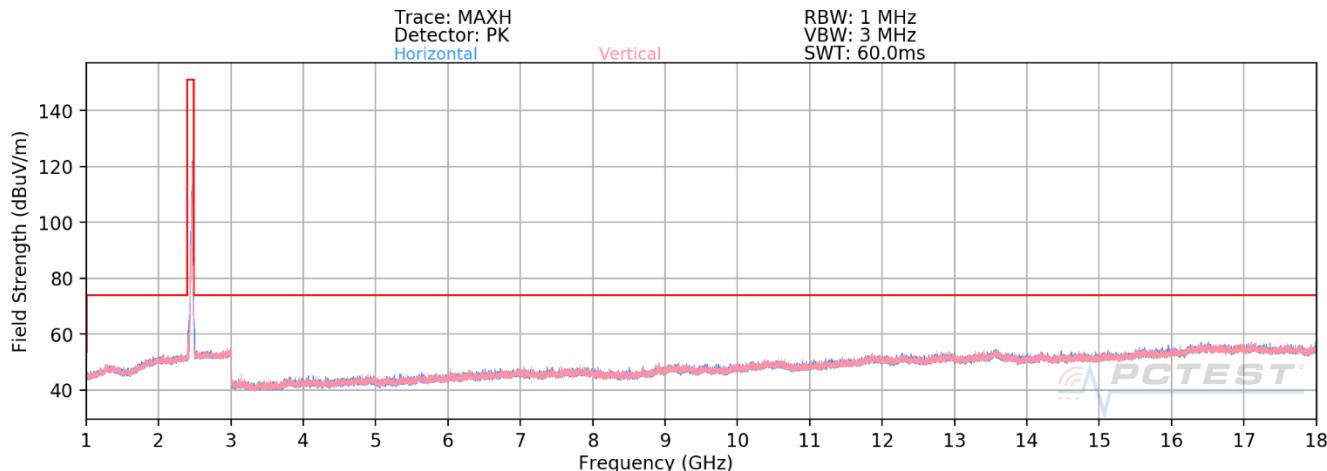
Plot 7-130. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU26 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4874.00	Avg	H	101	155	-77.87	7.75	36.88	53.98	-17.09
4874.00	Peak	H	101	155	-68.21	7.75	46.54	73.98	-27.43
7311.00	Avg	H	-	-	-82.40	10.84	35.44	53.98	-18.54
7311.00	Peak	H	-	-	-71.16	10.84	46.68	73.98	-27.30
12185.00	Avg	H	-	-	-83.89	16.90	40.01	53.98	-13.97
12185.00	Peak	H	-	-	-72.79	16.90	51.11	73.98	-22.87

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

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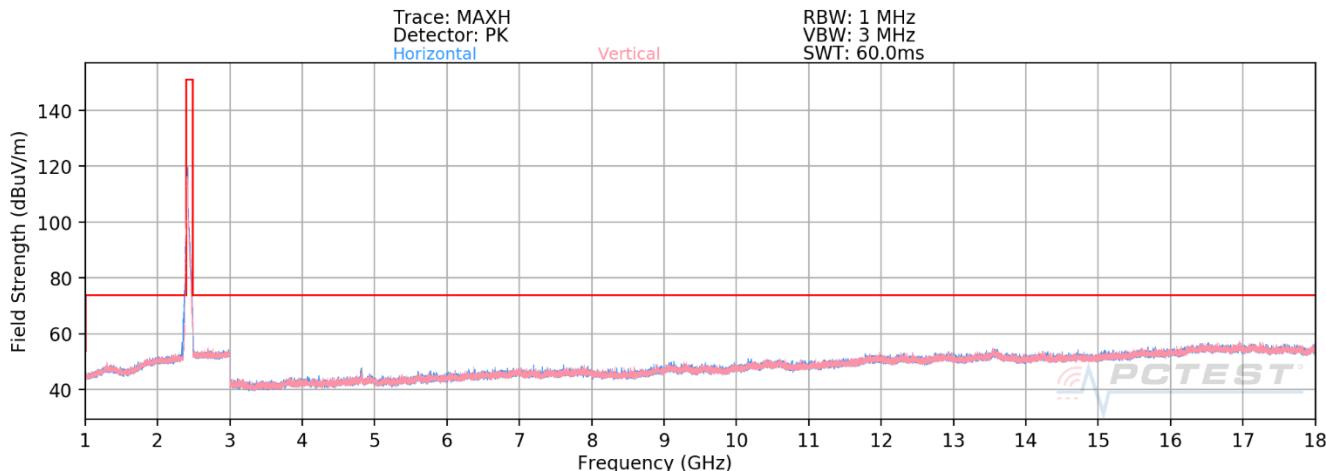
Plot 7-131. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU26 – Ch. 11)

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	H	-	-	-81.17	8.53	34.36	53.98	-19.62
4924.00	Peak	H	-	-	-69.76	8.53	45.77	73.98	-28.21
7386.00	Avg	H	-	-	-82.42	11.73	36.31	53.98	-17.67
7386.00	Peak	H	-	-	-70.08	11.73	48.65	73.98	-25.33
12310.00	Avg	H	-	-	-83.97	17.62	40.65	53.98	-13.33
12310.00	Peak	H	-	-	-72.67	17.62	51.95	73.98	-22.03

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

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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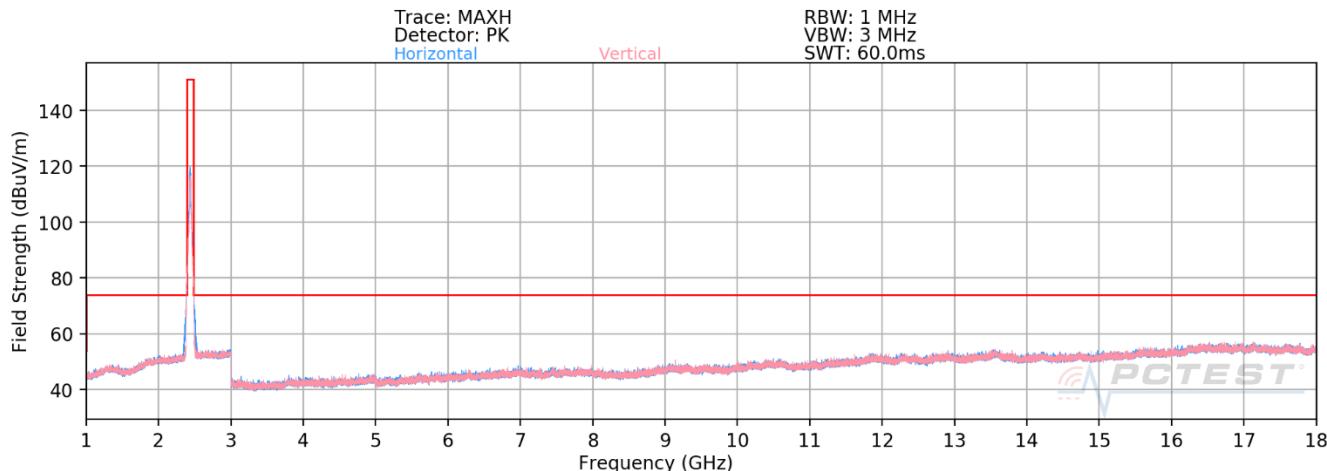
Plot 7-132. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU242 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	H	113	155	-75.34	7.54	39.20	53.98	-14.78
4824.00	Peak	H	113	155	-62.54	7.54	52.00	73.98	-21.98
12060.00	Avg	H	-	-	-83.43	17.07	40.64	53.98	-13.34
12060.00	Peak	H	-	-	-72.16	17.07	51.91	73.98	-22.07

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

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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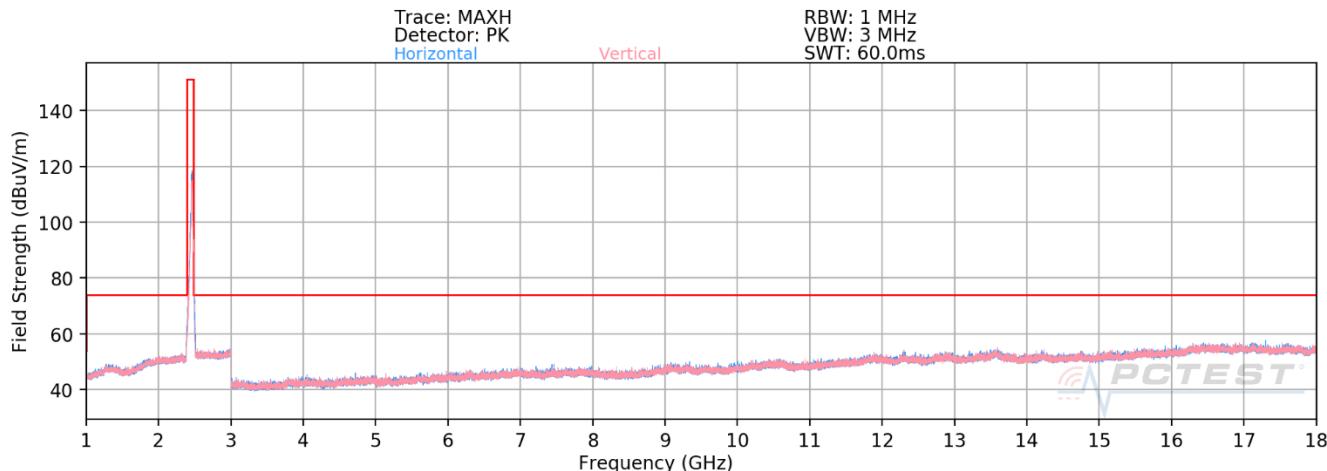
Plot 7-133. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU242 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 μ V/m]	Limit [dB μ V/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.23	7.75	33.52	53.98	-20.45
4874.00	Peak	H	-	-	-69.23	7.75	45.52	73.98	-28.45
7311.00	Avg	H	-	-	-82.38	10.84	35.46	53.98	-18.52
7311.00	Peak	H	-	-	-70.69	10.84	47.15	73.98	-26.83
12185.00	Avg	H	-	-	-83.91	16.90	39.99	53.98	-13.99
12185.00	Peak	H	-	-	-72.51	16.90	51.39	73.98	-22.59

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

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Plot 7-134. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax OFDMA – RU242 – Ch. 11)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS5
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

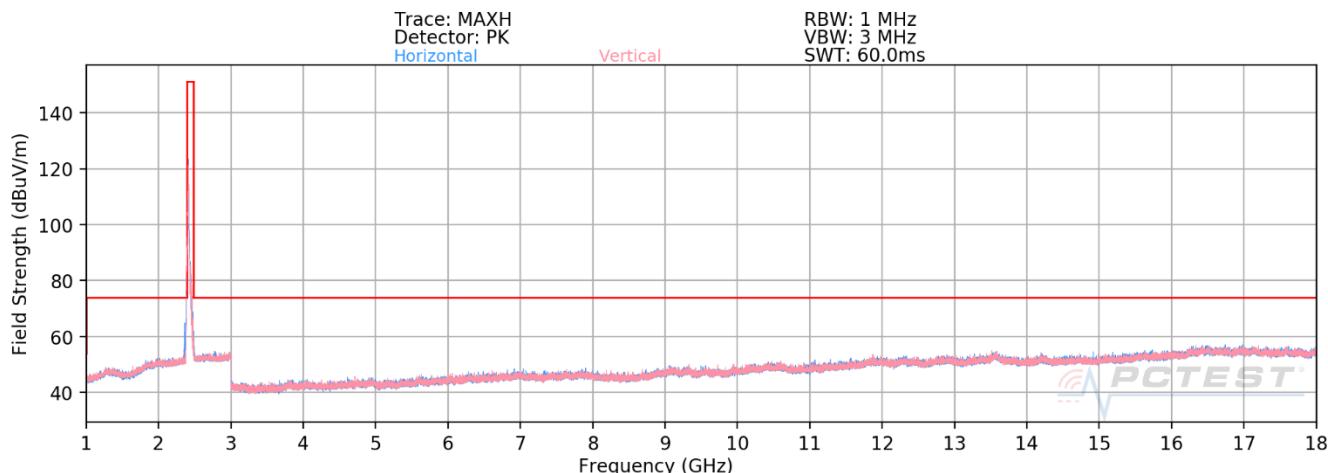
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	H	-	-	-81.10	8.53	34.43	53.98	-19.55
4924.00	Peak	H	-	-	-70.08	8.53	45.45	73.98	-28.53
7386.00	Avg	H	-	-	-82.53	11.73	36.20	53.98	-17.78
7386.00	Peak	H	-	-	-71.15	11.73	47.58	73.98	-26.40
12310.00	Avg	H	-	-	-83.76	17.62	40.86	53.98	-13.12
12310.00	Peak	H	-	-	-71.99	17.62	52.63	73.98	-21.35

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

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality 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]



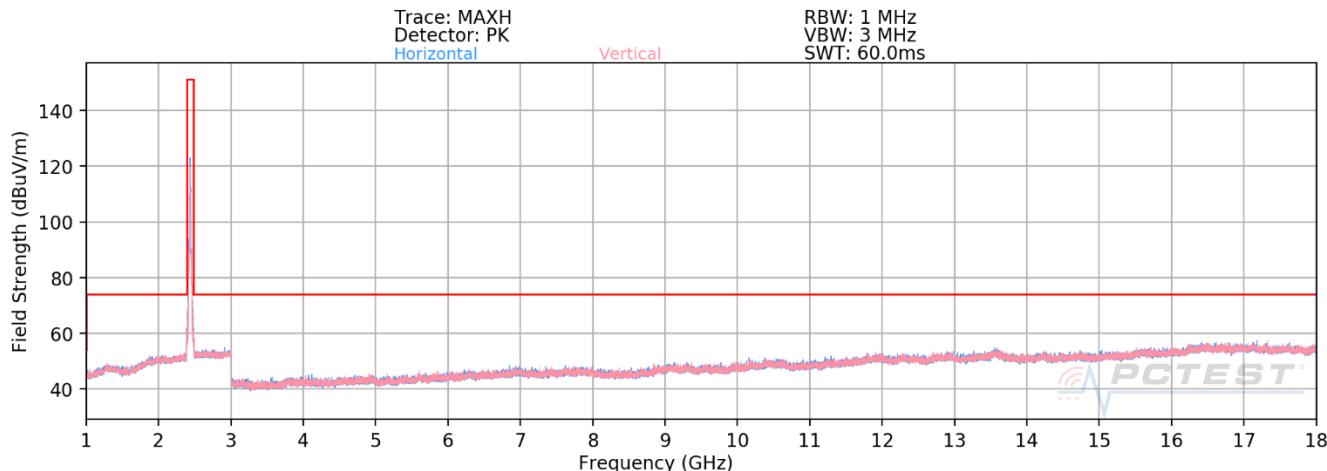
Plot 7-135. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU26 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	H	101	335	-77.44	7.54	37.10	53.98	-16.88
4824.00	Peak	H	101	335	-67.57	7.54	46.97	73.98	-27.01
12060.00	Avg	H	-	-	-83.54	17.07	40.53	53.98	-13.45
12060.00	Peak	H	-	-	-72.15	17.07	51.92	73.98	-22.06

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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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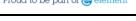


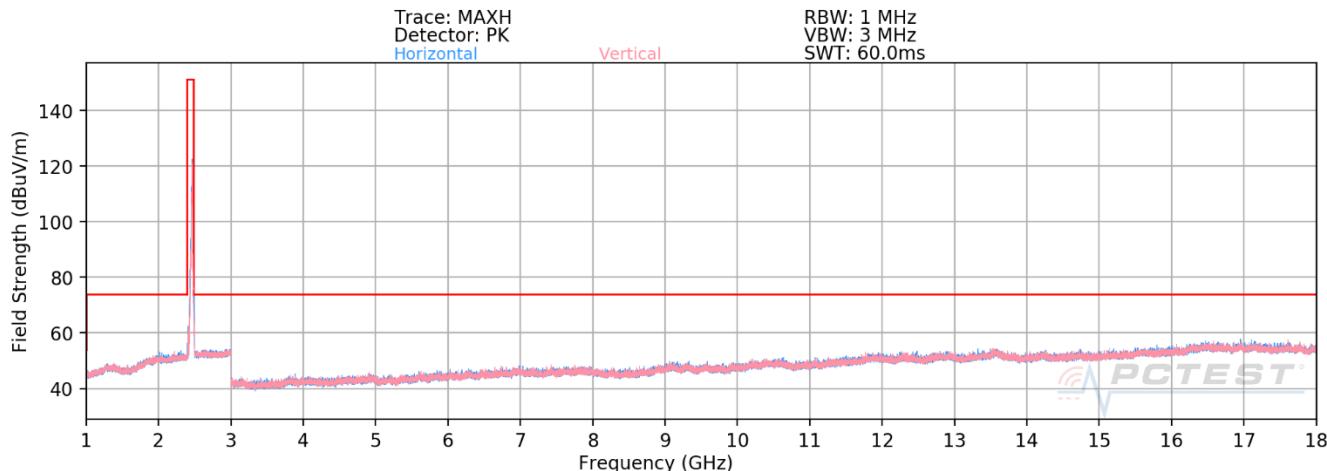
Plot 7-136. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU26 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4874.00	Avg	V	273	353	-76.60	7.75	38.15	53.98	-15.82
4874.00	Peak	V	273	353	-66.39	7.75	48.36	73.98	-25.61
7311.00	Avg	V	306	24	-80.77	10.84	37.07	53.98	-16.91
7311.00	Peak	V	306	24	-69.56	10.84	48.28	73.98	-25.70
12185.00	Avg	-	-	-	-83.87	16.90	40.03	53.98	-13.95
12185.00	Peak	-	-	-	-71.78	16.90	52.12	73.98	-21.86

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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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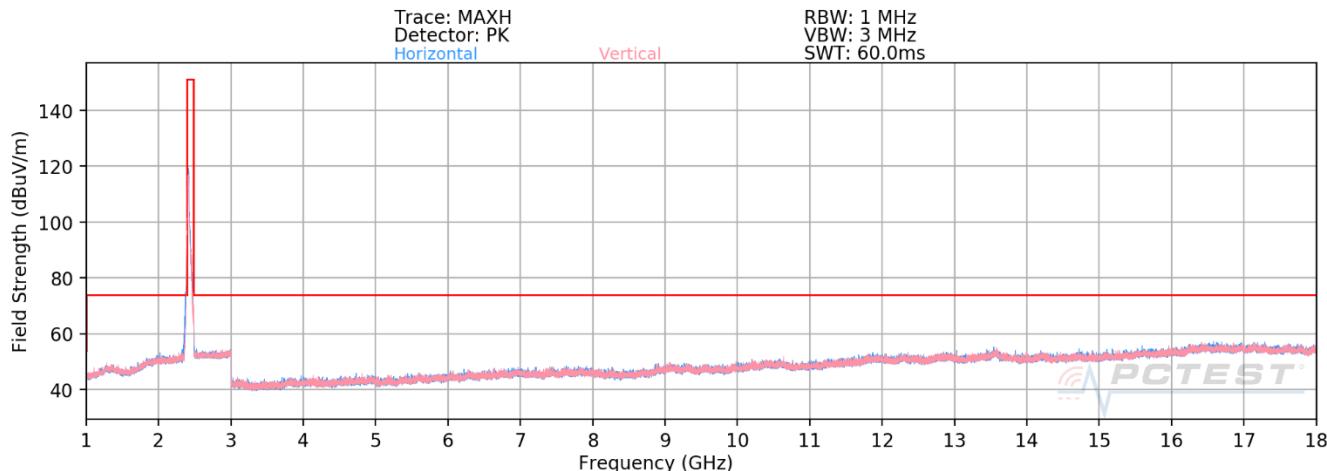
Plot 7-137. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU26 – Ch. 11)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	V	245	12	-79.55	8.53	35.98	53.98	-18.00
4924.00	Peak	V	245	12	-68.71	8.53	46.82	73.98	-27.16
7386.00	Avg	-	-	-	-82.58	11.73	36.15	53.98	-17.83
7386.00	Peak	-	-	-	-71.07	11.73	47.66	73.98	-26.32
12310.00	Avg	-	-	-	-83.44	17.62	41.18	53.98	-12.80
12310.00	Peak	-	-	-	-71.61	17.62	53.01	73.98	-20.97

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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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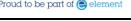


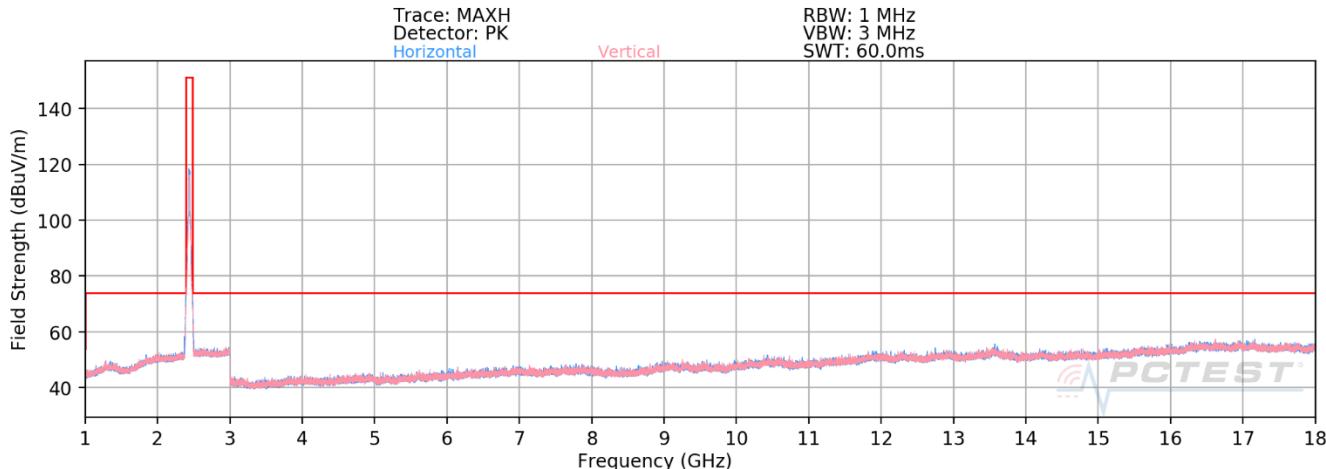
Plot 7-138. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU242 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	H	-	-	-80.96	7.54	33.58	53.98	-20.40
4824.00	Peak	H	-	-	-69.58	7.54	44.96	73.98	-29.02
12060.00	Avg	H	-	-	-83.35	17.07	40.72	53.98	-13.26
12060.00	Peak	H	-	-	-72.04	17.07	52.03	73.98	-21.95

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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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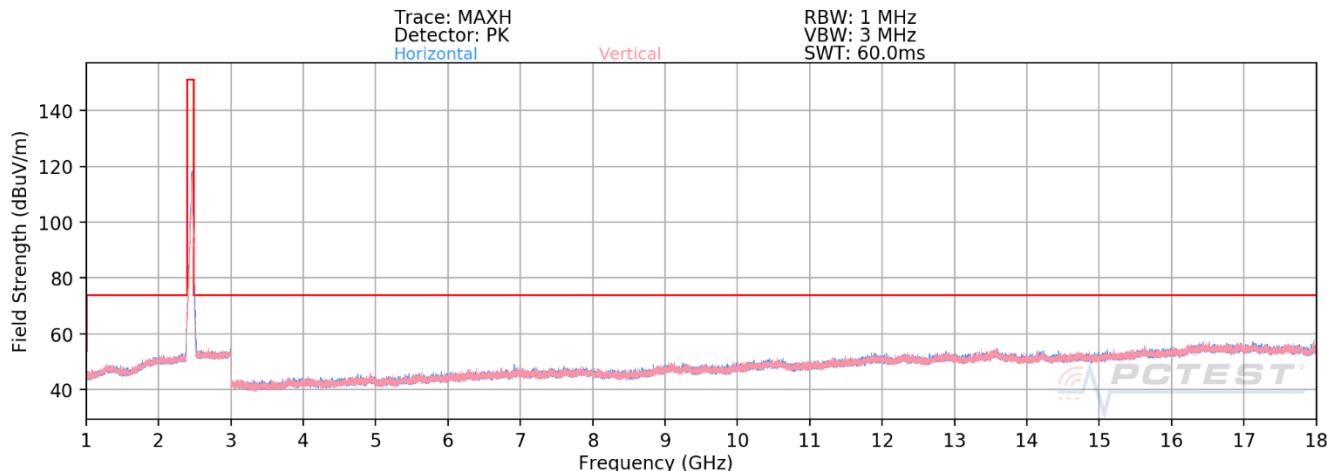
Plot 7-139. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU242 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
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 μ V/m]	Limit [dB μ V/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.03	7.75	33.72	53.98	-20.25
4874.00	Peak	H	-	-	-69.56	7.75	45.19	73.98	-28.78
7311.00	Avg	H	-	-	-82.43	10.84	35.41	53.98	-18.57
7311.00	Peak	H	-	-	-70.71	10.84	47.13	73.98	-26.85
12185.00	Avg	H	-	-	-83.89	16.90	40.01	53.98	-13.97
12185.00	Peak	H	-	-	-72.37	16.90	51.53	73.98	-22.45

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

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Plot 7-140. Radiated Spurious Emissions above 1GHz Antenna 2a (802.11ax OFDMA – RU242 – Ch. 11)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS5
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

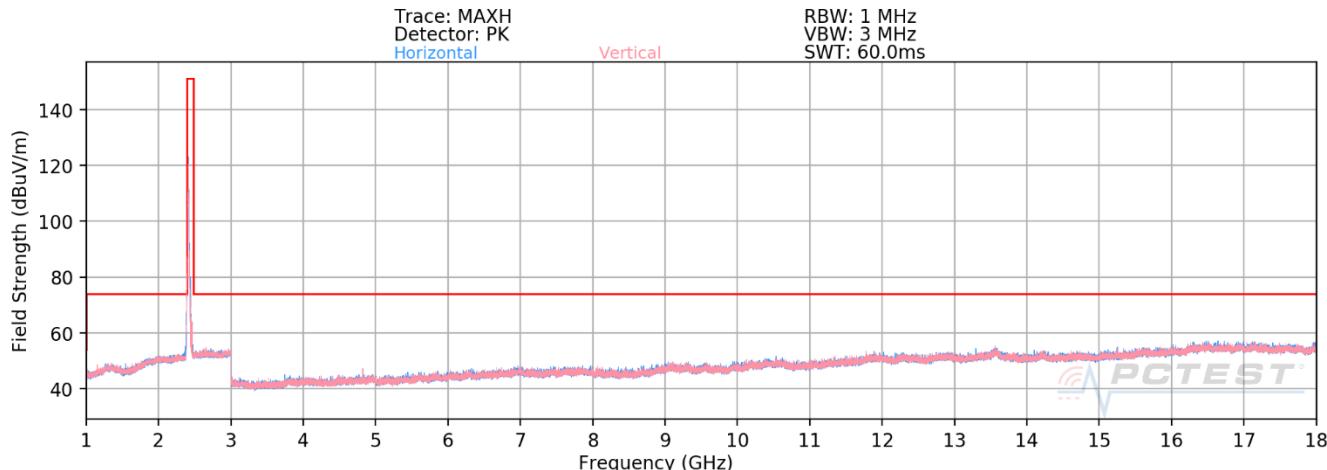
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	H	-	-	-81.10	8.53	34.43	53.98	-19.55
4924.00	Peak	H	-	-	-69.94	8.53	45.59	73.98	-28.39
7386.00	Avg	H	-	-	-82.74	11.73	35.99	53.98	-17.99
7386.00	Peak	H	-	-	-70.72	11.73	48.01	73.98	-25.97
12310.00	Avg	H	-	-	-83.69	17.62	40.93	53.98	-13.05
12310.00	Peak	H	-	-	-71.97	17.62	52.65	73.98	-21.33

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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.7.3 CDD Radiated Spurious Emission Measurements

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



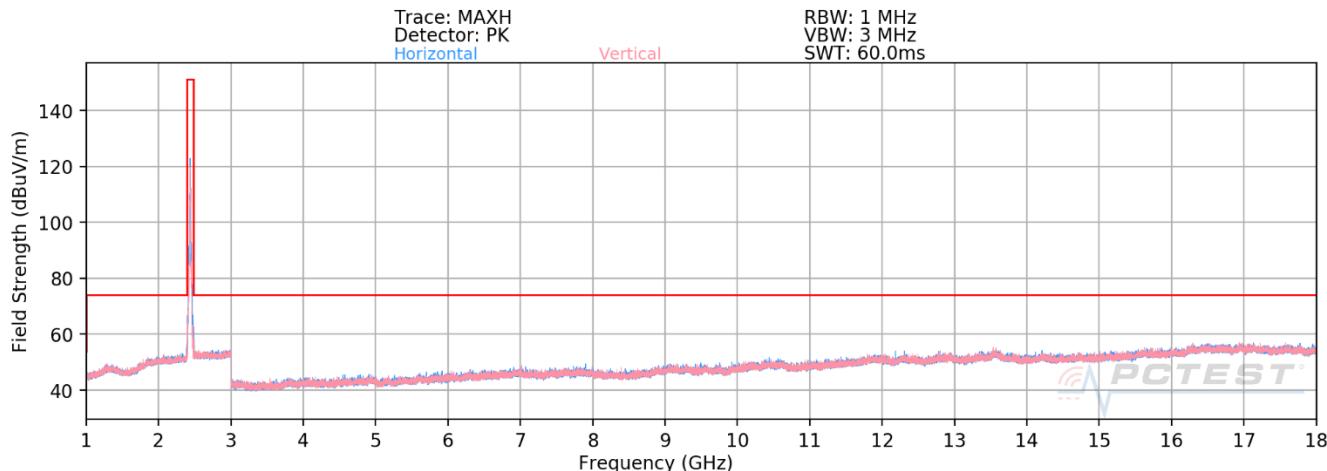
Plot 7-141. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	V	220	195	-74.51	7.54	40.03	53.98	-13.95
4824.00	Peak	V	220	195	-61.64	7.54	52.90	73.98	-21.08
12060.00	Avg	-	-	-	-83.66	17.07	40.41	53.98	-13.57
12060.00	Peak	-	-	-	-72.18	17.07	51.89	73.98	-22.09

Table 7-32. Radiated Measurements CDD (RU26)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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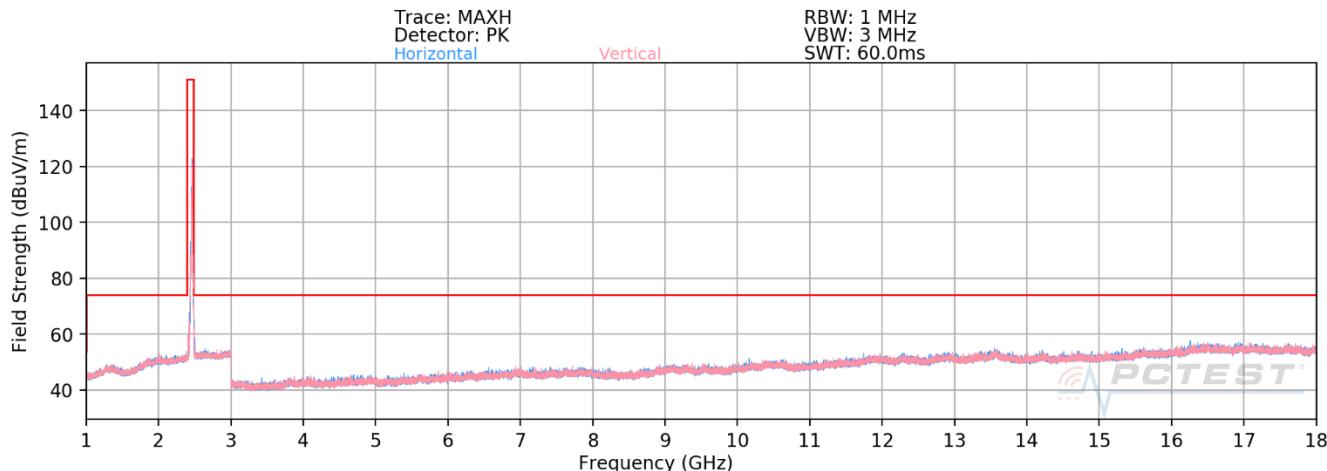
Plot 7-142. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 6)

Worst Case Mode: 802.11ax-RU OFDMA
 Worst Case Transfer Rate: MCS5
 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4874.00	Avg	V	269	185	-80.06	7.75	34.69	53.98	-19.28
4874.00	Peak	V	269	185	-69.42	7.75	45.33	73.98	-28.64
7311.00	Avg	-	-	-	-82.24	10.84	35.60	53.98	-18.38
7311.00	Peak	-	-	-	-70.81	10.84	47.03	73.98	-26.95
12185.00	Avg	-	-	-	-83.77	16.90	40.13	53.98	-13.85
12185.00	Peak	-	-	-	-72.39	16.90	51.51	73.98	-22.47

Table 7-33. Radiated Measurements CDD (RU26)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device			



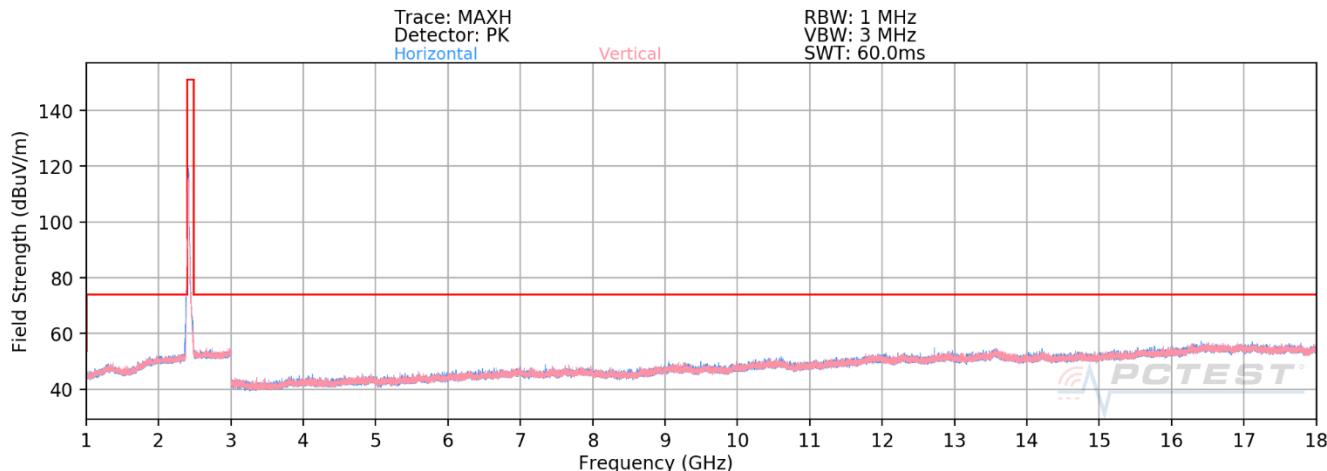
Plot 7-143. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 11)

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	V	265	188	-80.07	8.53	35.46	53.98	-18.52
4924.00	Peak	V	265	188	-68.73	8.53	46.80	73.98	-27.18
7386.00	Avg	V	257	216	-80.68	11.73	38.05	53.98	-15.93
7386.00	Peak	V	257	216	-69.28	11.73	49.45	73.98	-24.53
12310.00	Avg	-	-	-	-83.49	17.62	41.13	53.98	-12.85
12310.00	Peak	-	-	-	-71.68	17.62	52.94	73.98	-21.04

Table 7-34. Radiated Measurements CDD (RU26)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device		



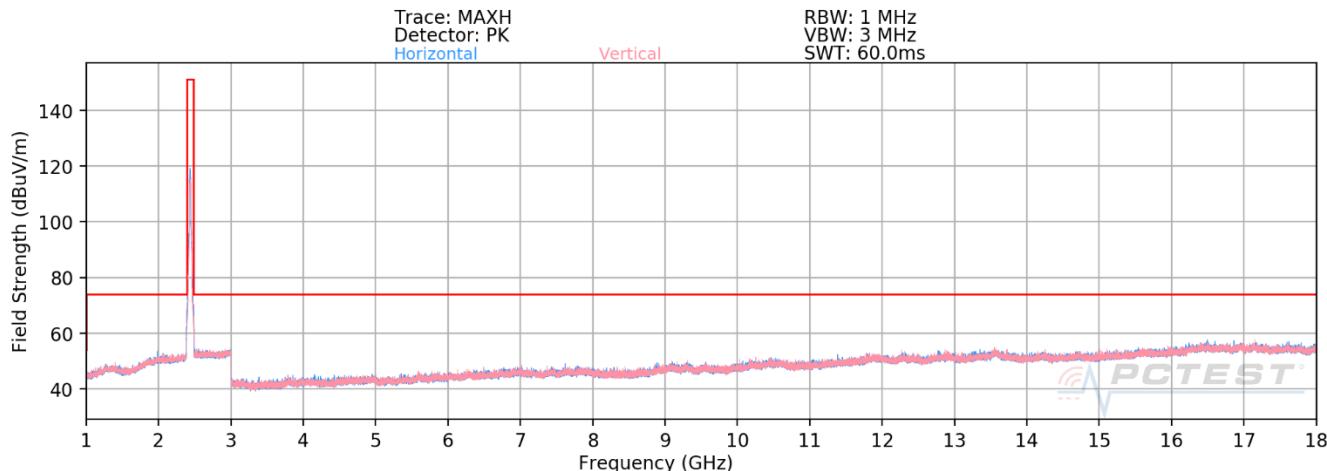
Plot 7-144. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 1)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 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 μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	H	105	152	-77.92	7.54	36.62	53.98	-17.36
4824.00	Peak	H	105	152	-65.23	7.54	49.31	73.98	-24.67
12060.00	Avg	H	-	-	-83.13	17.07	40.94	53.98	-13.04
12060.00	Peak	H	-	-	-72.24	17.07	51.83	73.98	-22.15

Table 7-35. Radiated Measurements CDD (RU242)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device			Page 116 of 158

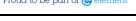


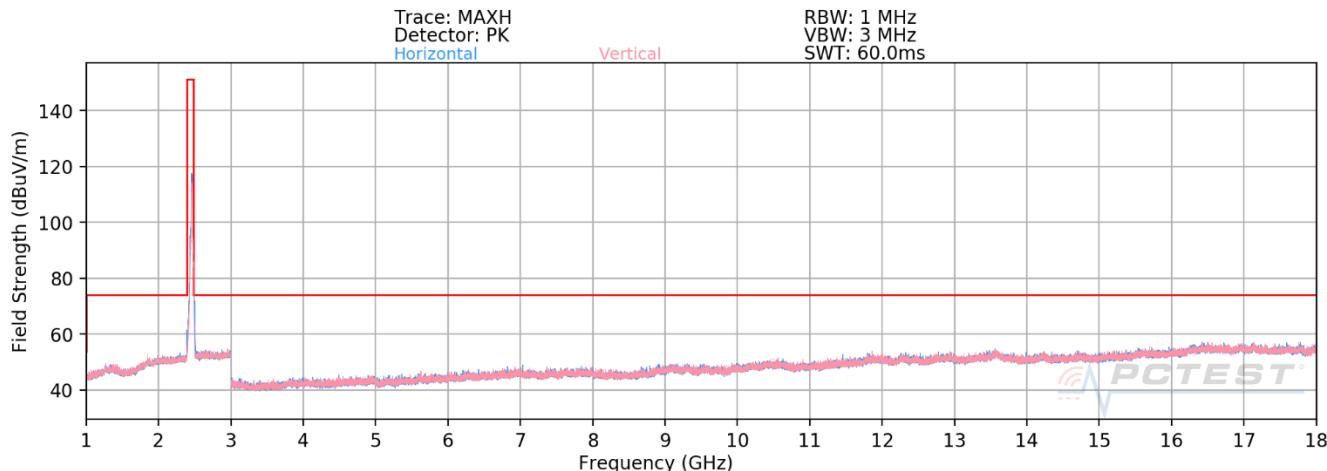
Plot 7-145. Radiated Spurious Emissions above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 6)

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
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 μ V/m]	Limit [dB μ V/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.16	7.75	33.59	53.98	-20.38
4874.00	Peak	H	-	-	-69.60	7.75	45.15	73.98	-28.82
7311.00	Avg	H	-	-	-82.42	10.84	35.42	53.98	-18.56
7311.00	Peak	H	-	-	-70.89	10.84	46.95	73.98	-27.03
12185.00	Avg	H	-	-	-83.93	16.90	39.97	53.98	-14.01
12185.00	Peak	H	-	-	-72.54	16.90	51.36	73.98	-22.62

Table 7-36. Radiated Measurements CDD (RU242)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device			Page 117 of 158



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

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	Avg	H	-	-	-81.18	8.53	34.35	53.98	-19.63
4924.00	Peak	H	-	-	-69.67	8.53	45.86	73.98	-28.12
7386.00	Avg	H	-	-	-82.41	11.73	36.32	53.98	-17.66
7386.00	Peak	H	-	-	-71.02	11.73	47.71	73.98	-26.27
12310.00	Avg	H	-	-	-83.70	17.62	40.92	53.98	-13.06
12310.00	Peak	H	-	-	-71.59	17.62	53.03	73.98	-20.95

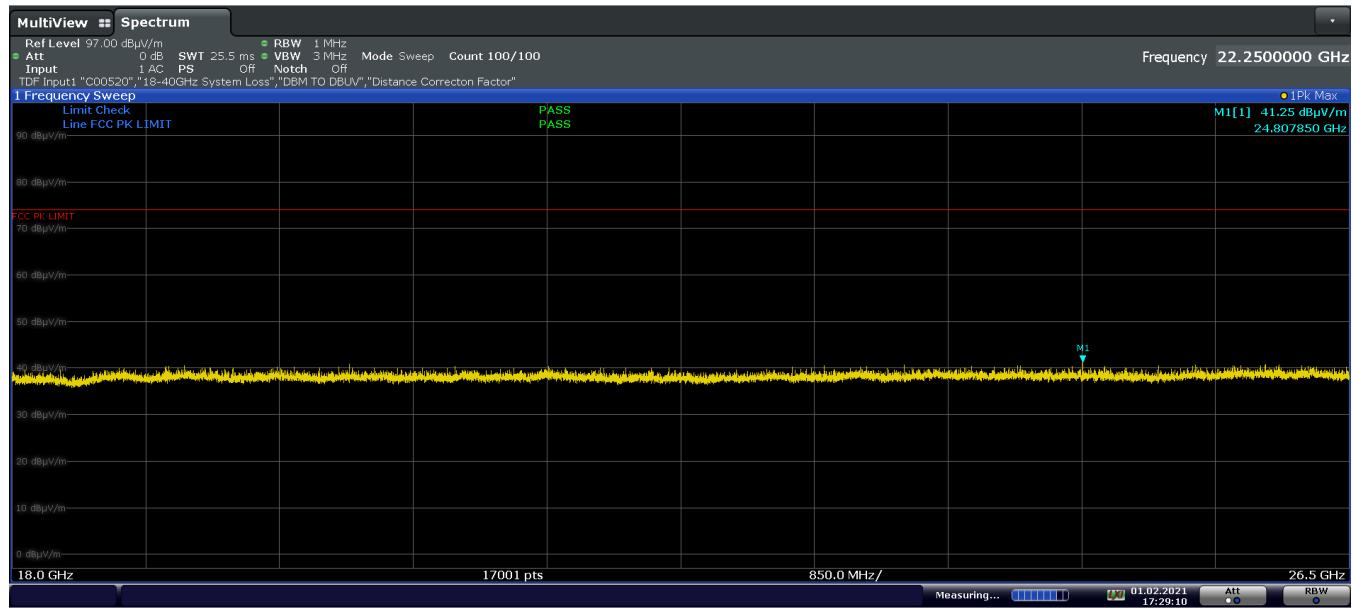
Table 7-37. Radiated Measurements CDD (RU242)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device		

CDD Radiated Spurious Emission Measurements (Above 18GHz)

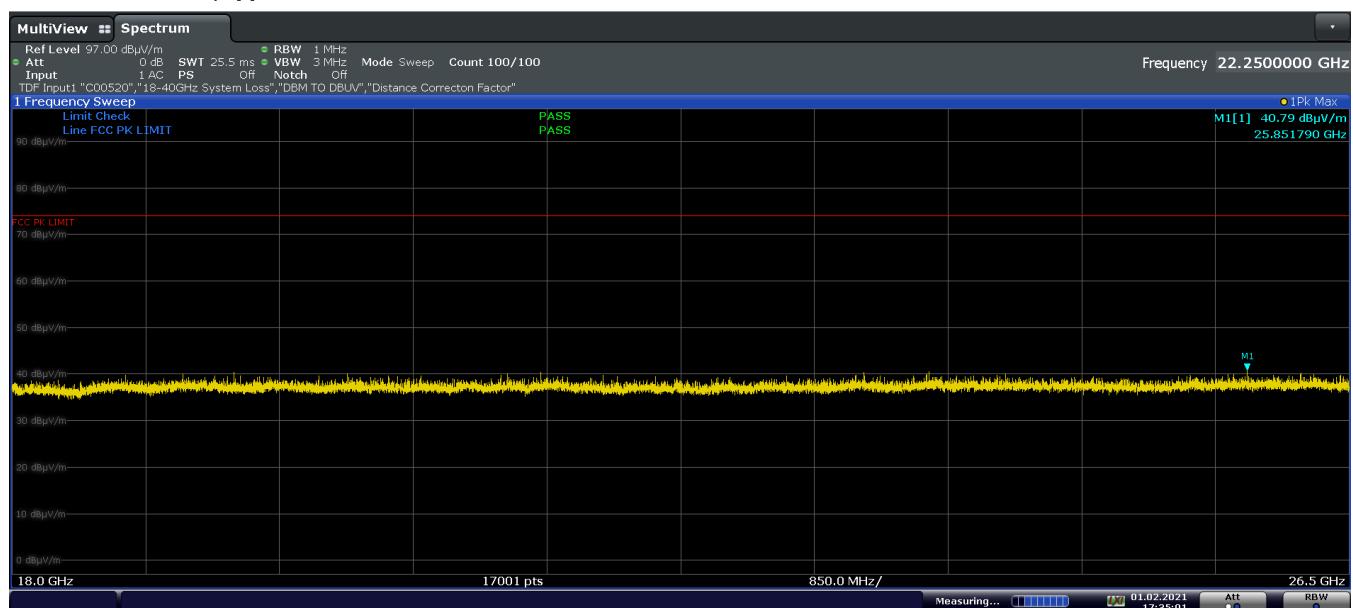
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

CC2010 USI 802.11n MIMO Ch.6 q.96[V]



Plot 7-147. Radiated Spurious Emissions above 18GHz CDD (802.11ax, Ch.1 – RU26, Pol H)

CC2010 USI 802.11n MIMO Ch.6 q.96[V]



Plot 7-148. Radiated Spurious Emissions above 18GHz CDD (802.11ax, Ch.1 – RU26, Pol V)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 119 of 158	

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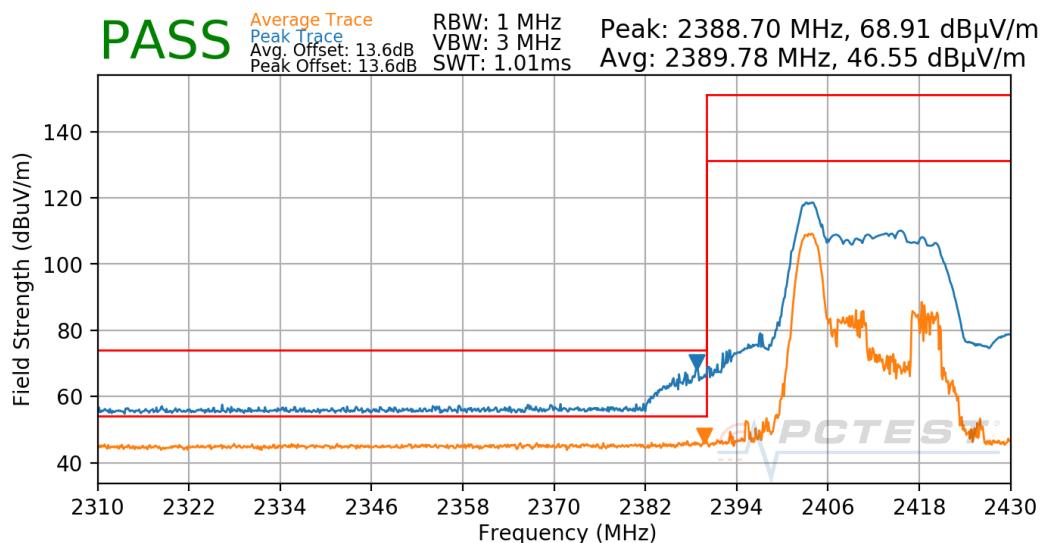
V 10.3 11/16/2020

7.7.4 Antenna 4a 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.

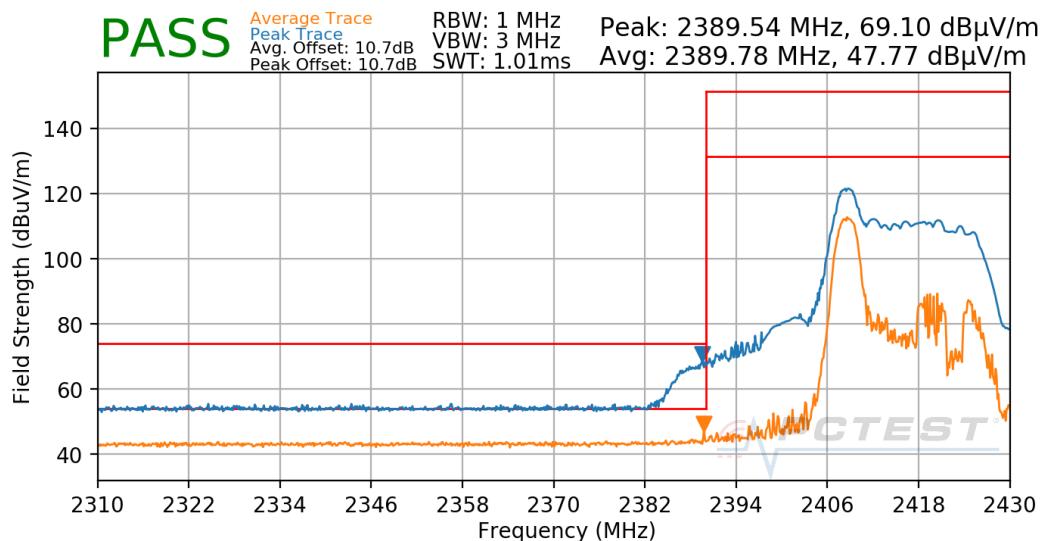
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-149. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU26)

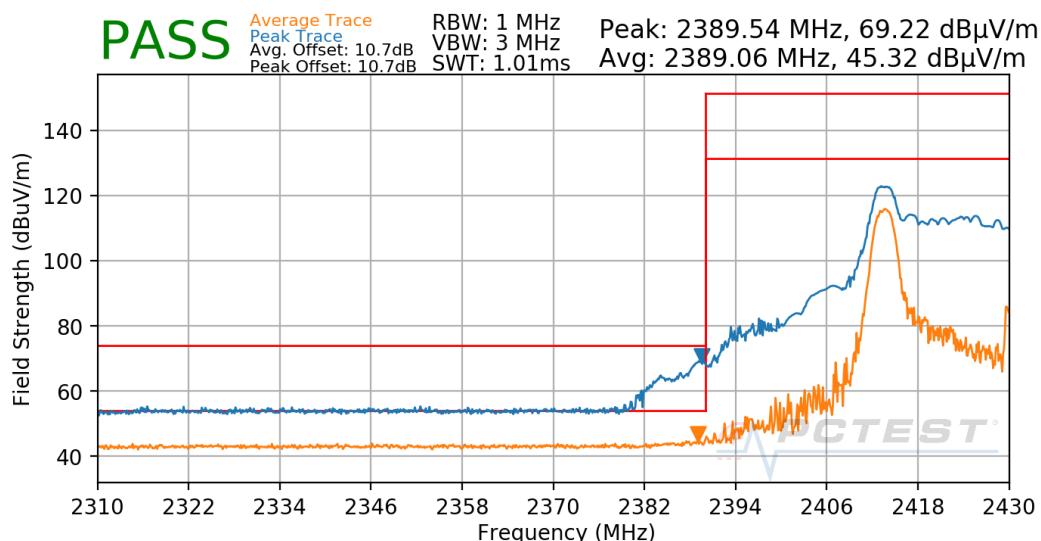
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 120 of 158	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-150. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU26)

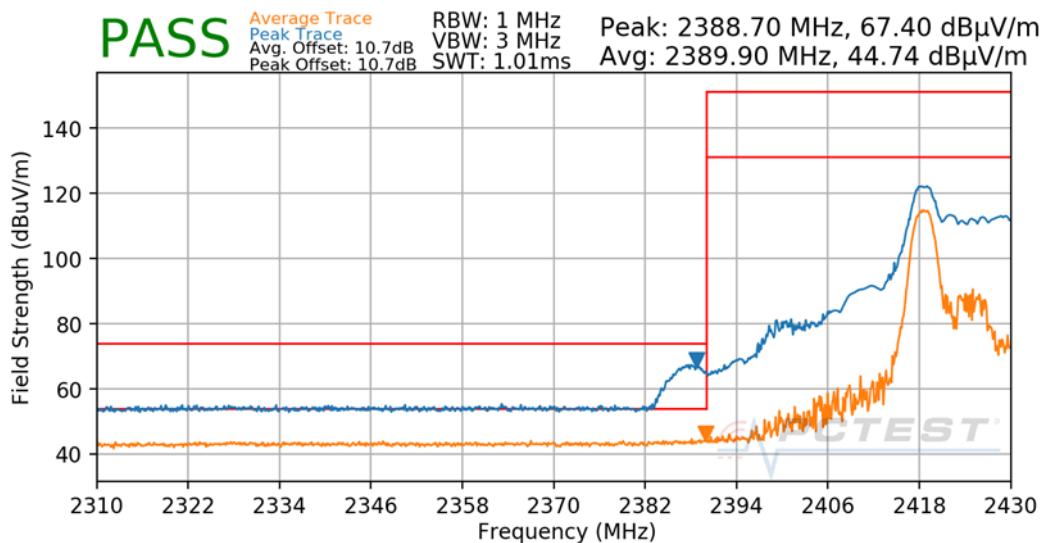
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-151. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU26)

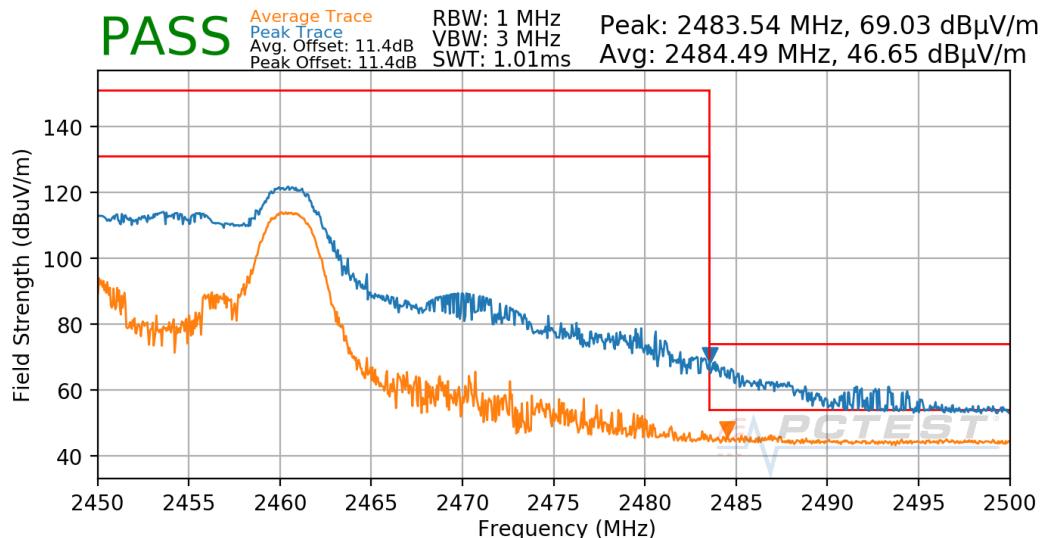
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device		Page 121 of 158

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-152. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU26)

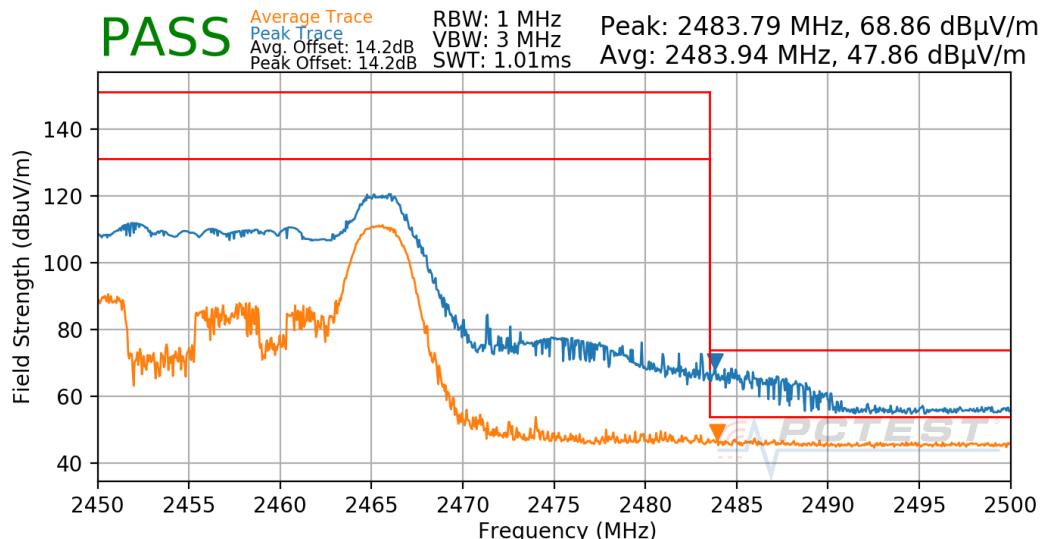
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-153. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU26)

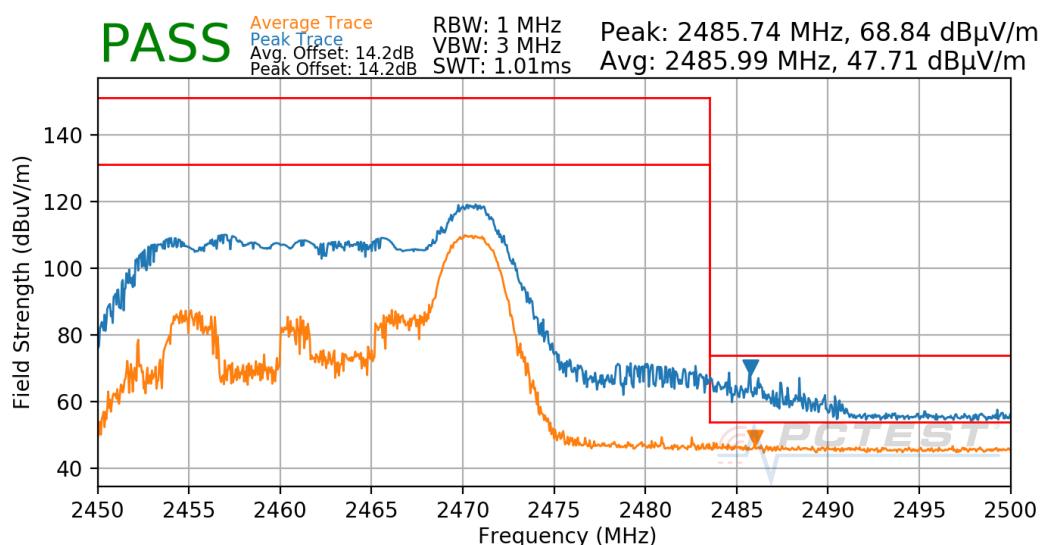
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device		Page 122 of 158

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-154. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU26)

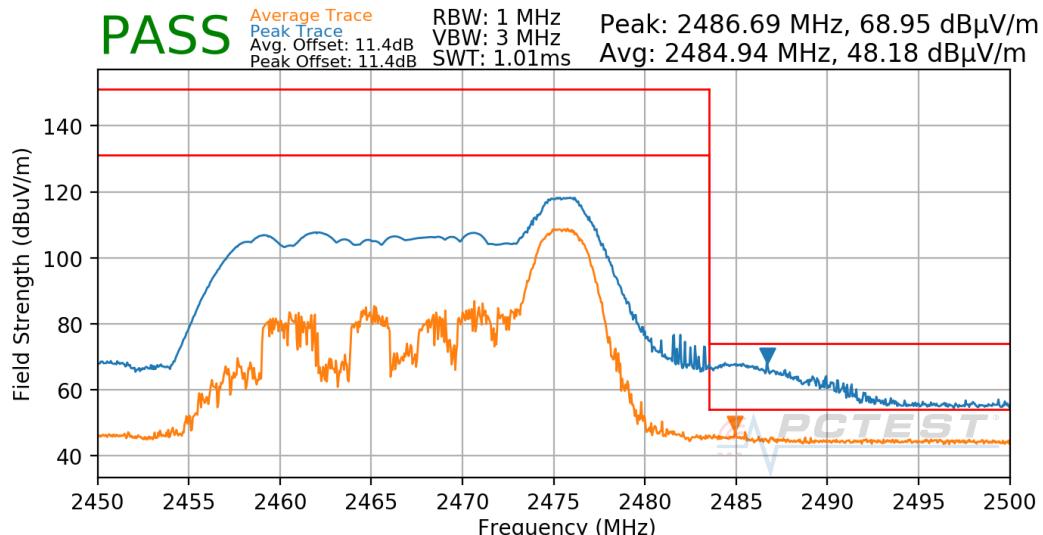
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-155. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU26)

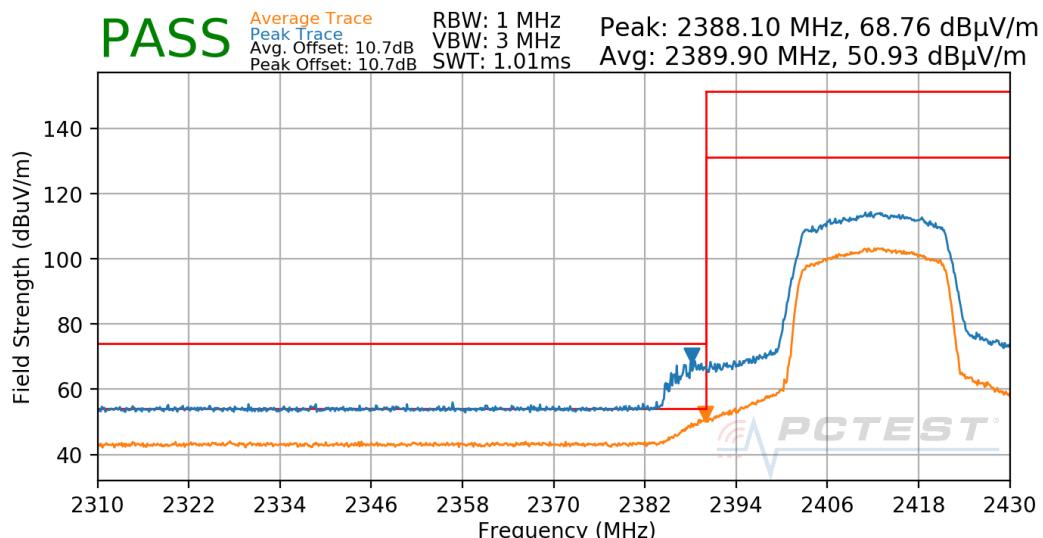
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 123 of 158

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-156. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU26)

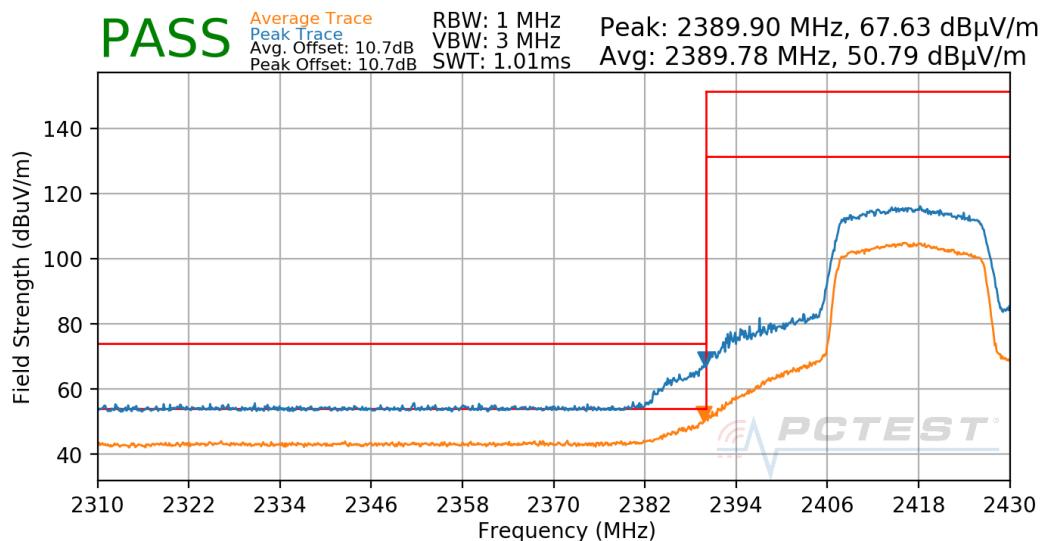
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



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

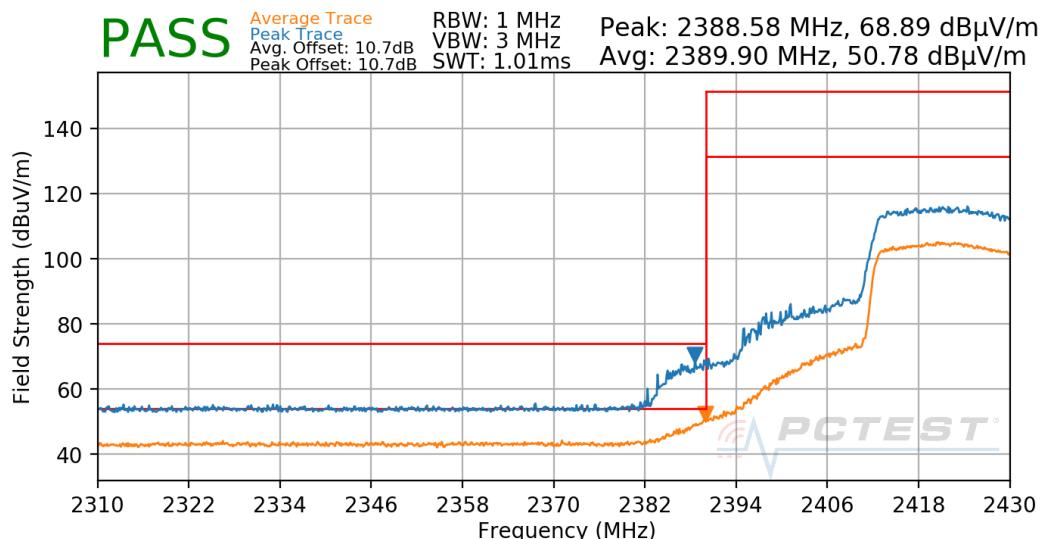
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 124 of 158	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-158. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

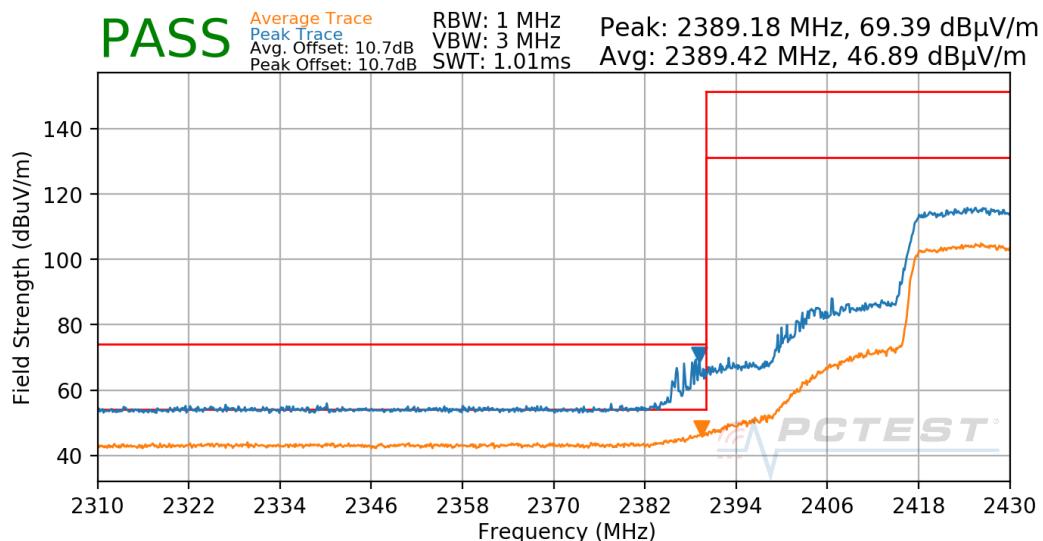
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-159. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

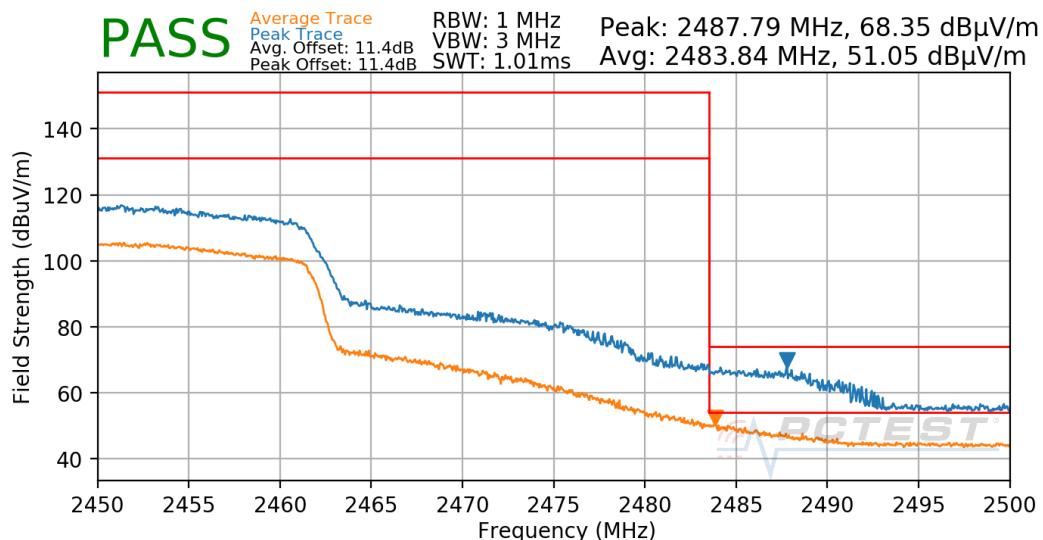
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 125 of 158

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-160. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Peak & Average – RU242)

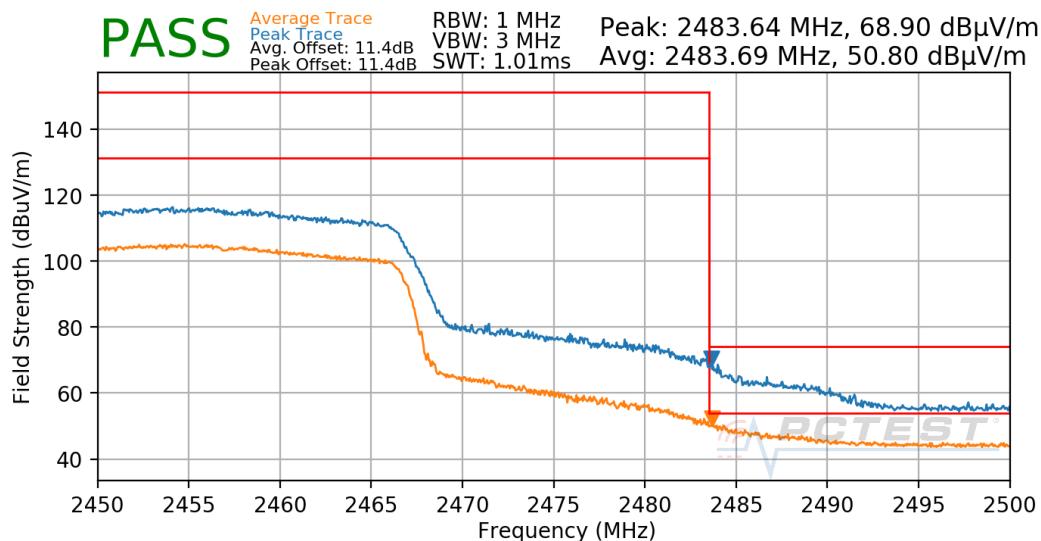
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-161. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

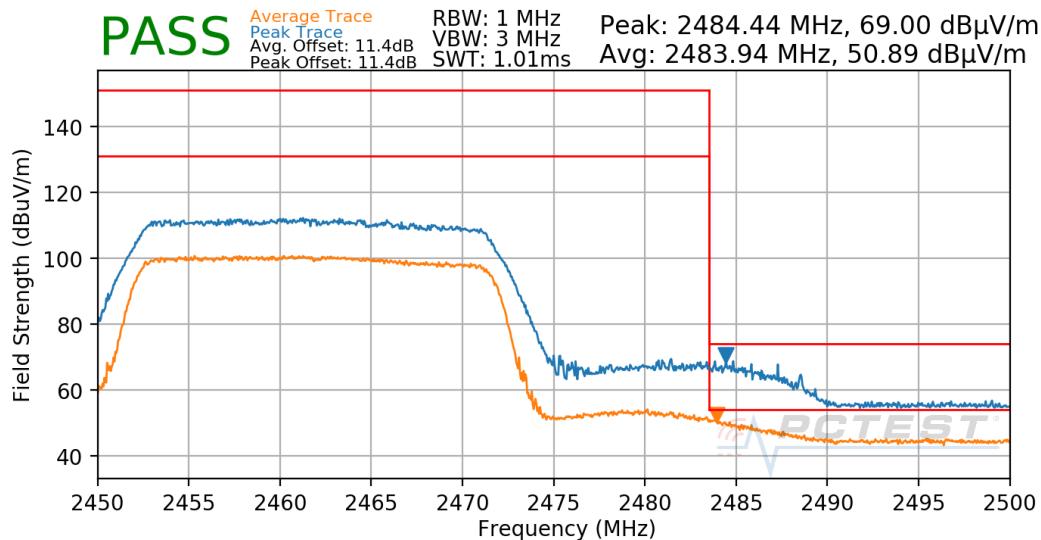
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 126 of 158	

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-162. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

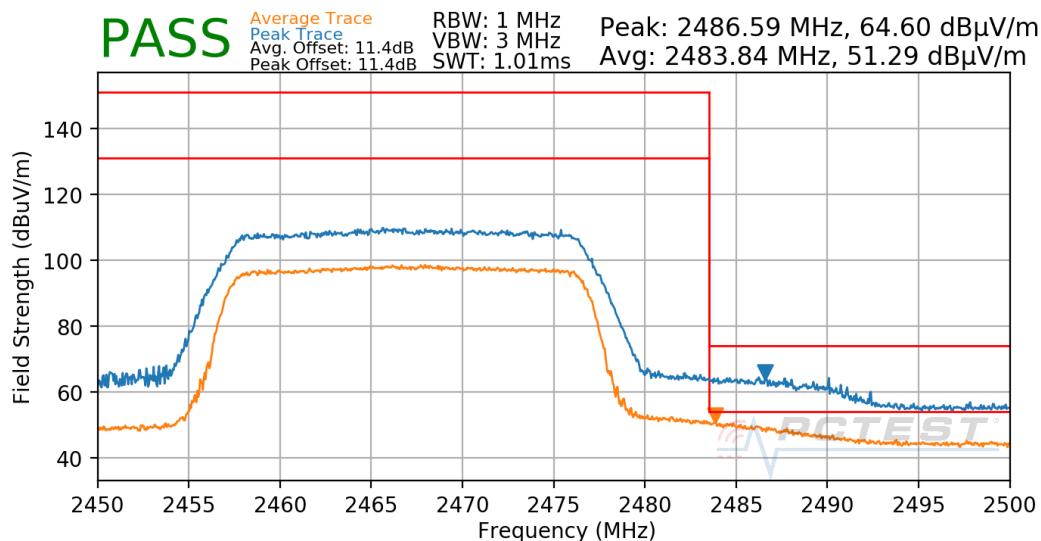
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-163. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 127 of 158

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-164. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

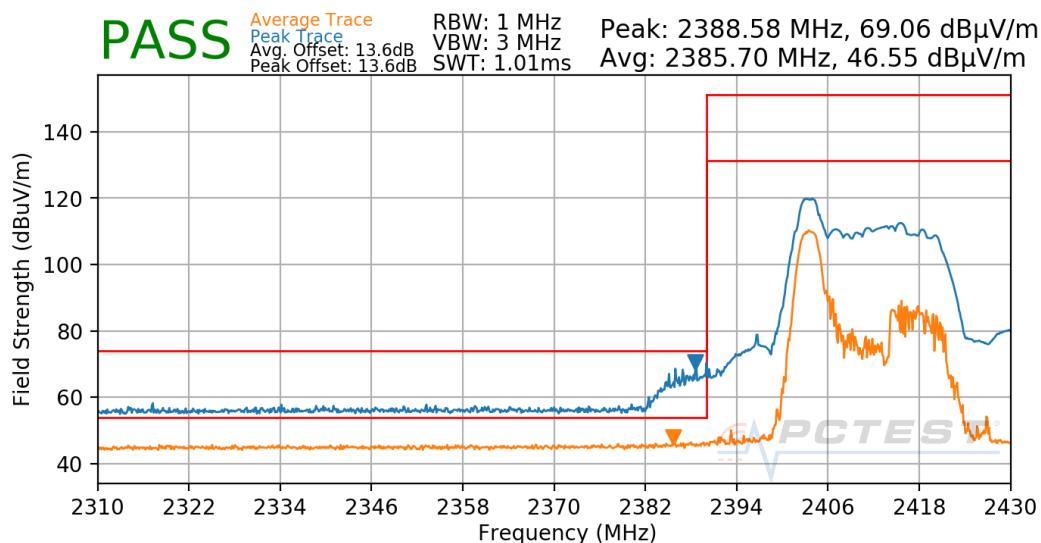
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 128 of 158

7.7.5 Antenna 2a 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.

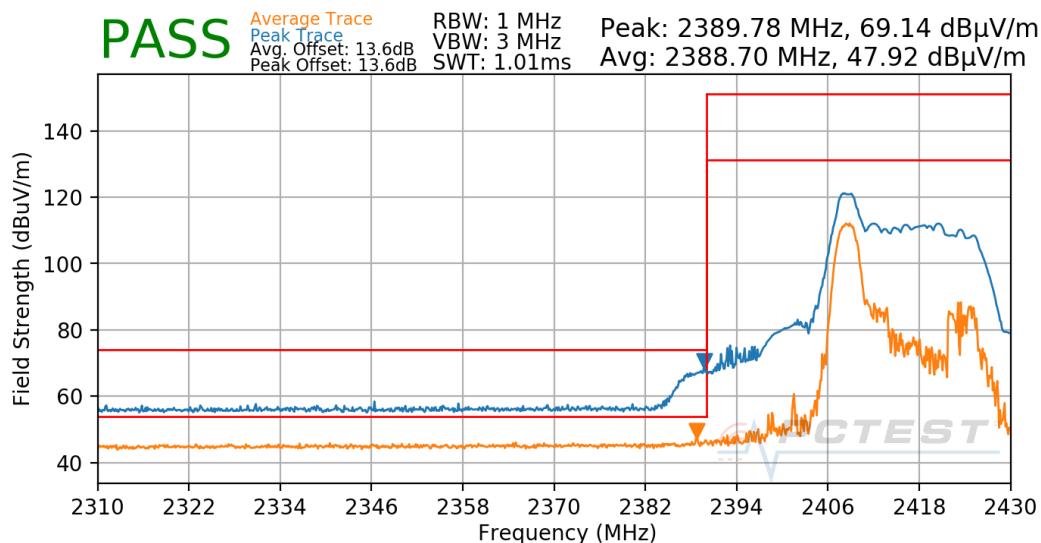
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-165. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

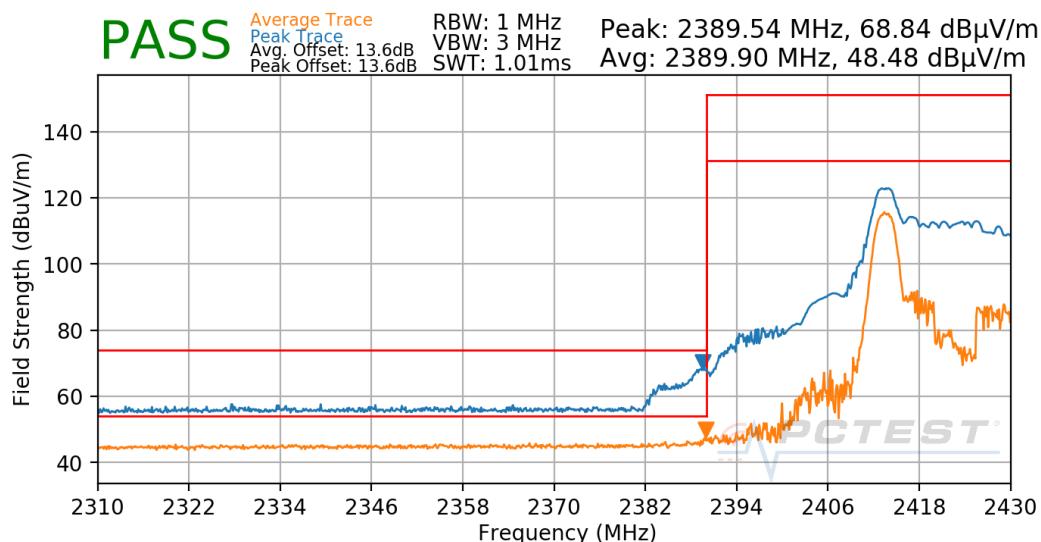
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 129 of 158

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-166. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS5
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-167. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device			Page 130 of 158