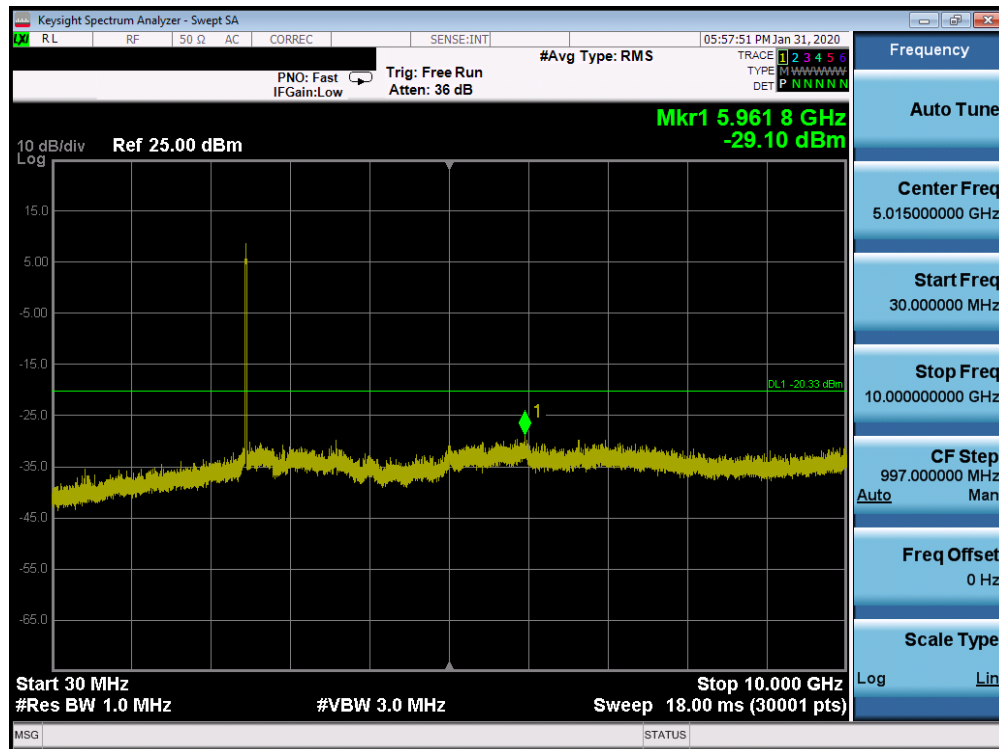
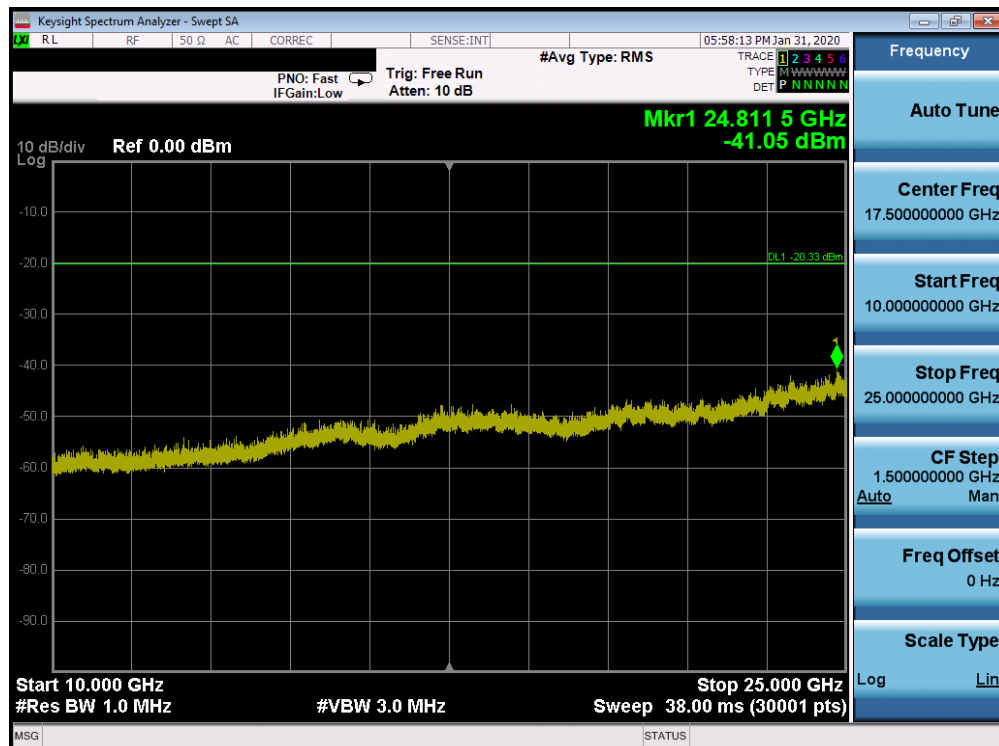


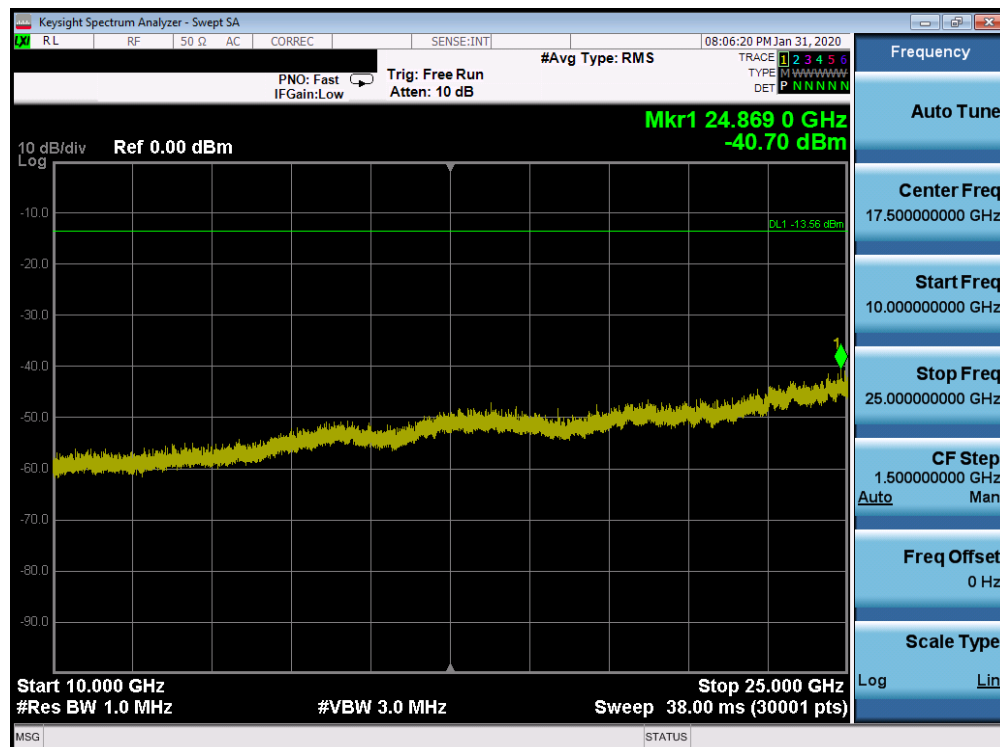
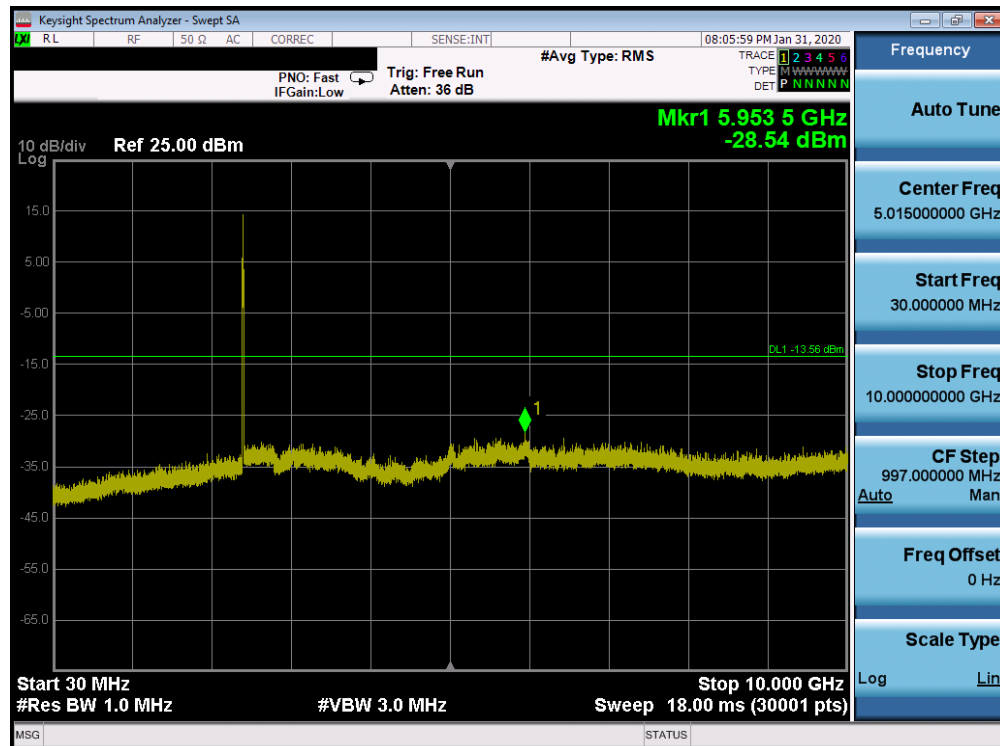


Plot 7-95. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA – RU242 – Ch. 11)

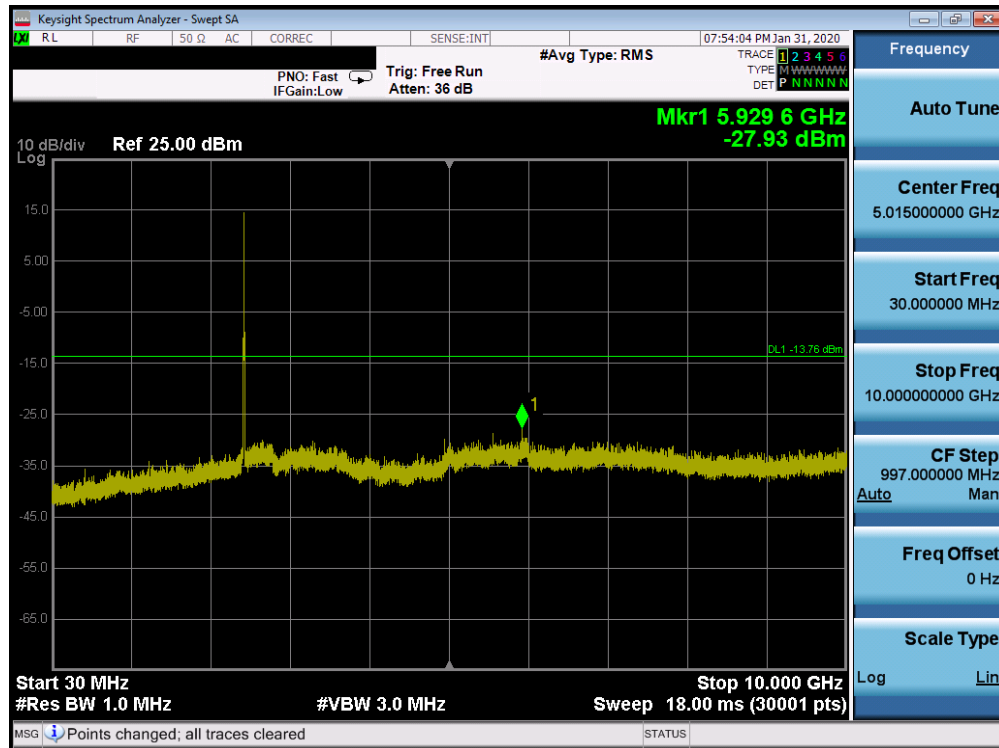


Plot 7-96. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA – RU242 – Ch. 11)

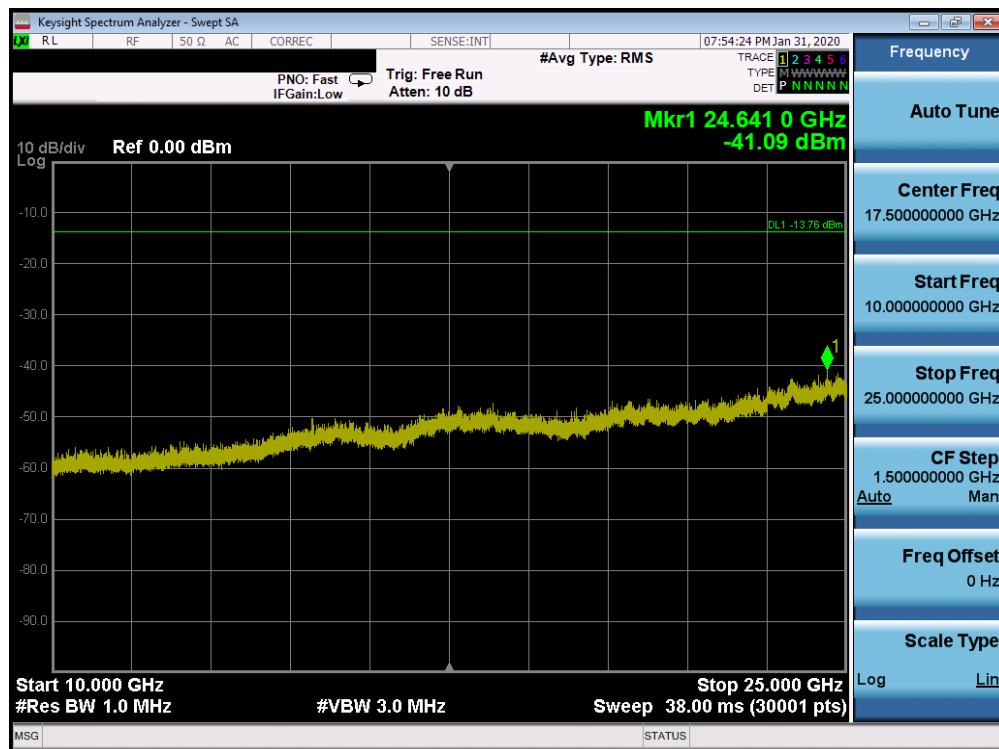
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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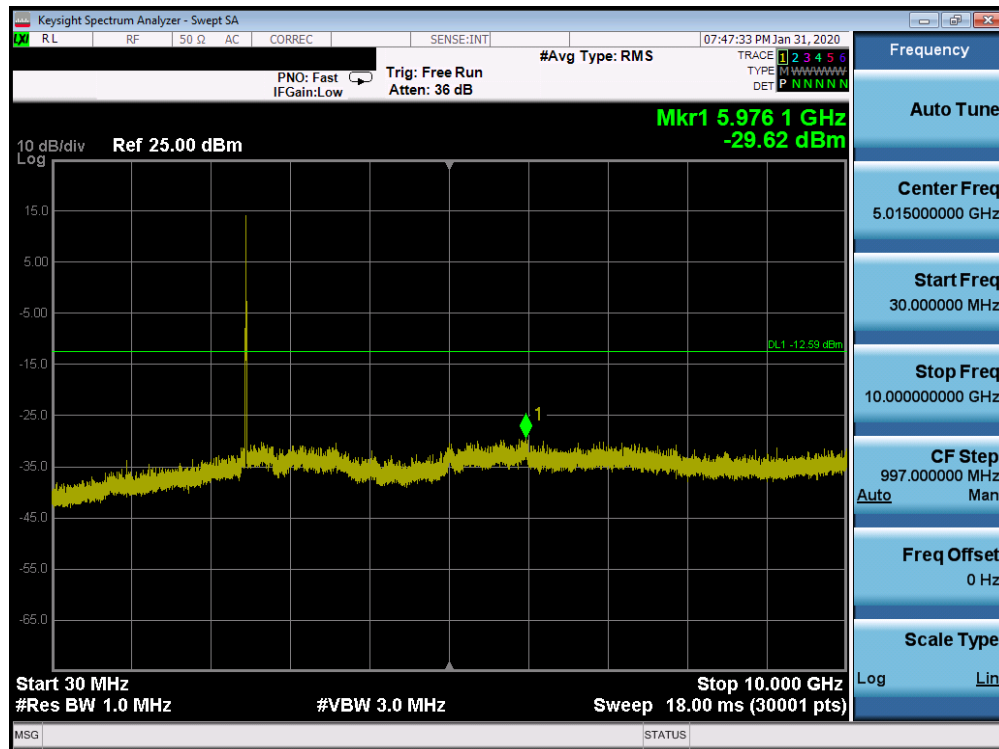


Plot 7-99. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 6)

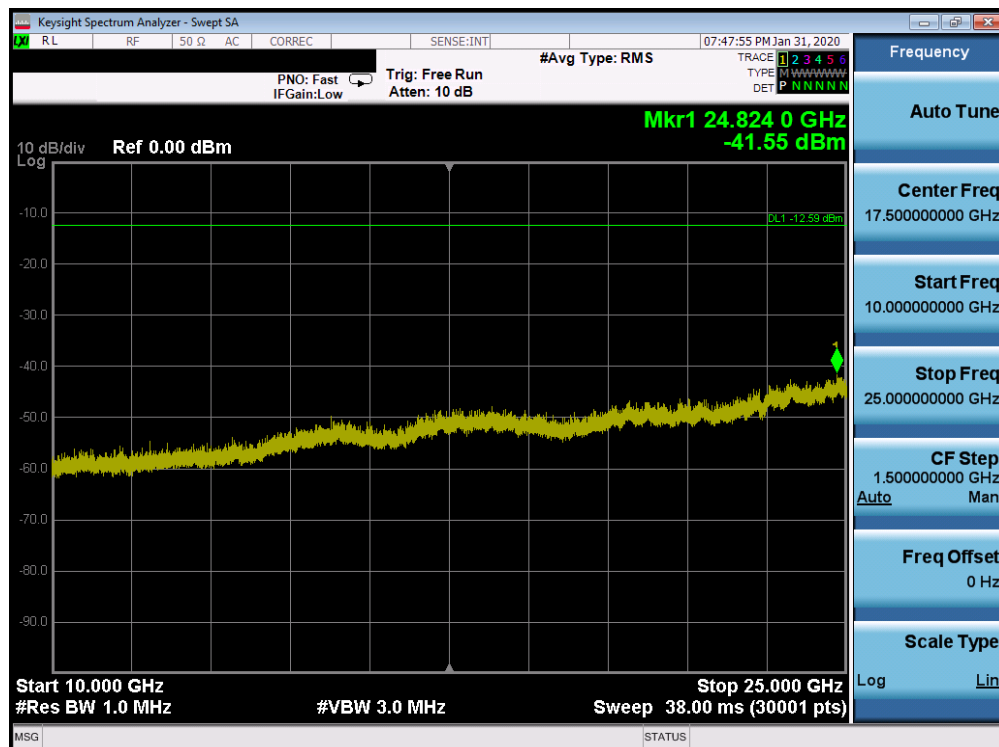


Plot 7-100. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 6)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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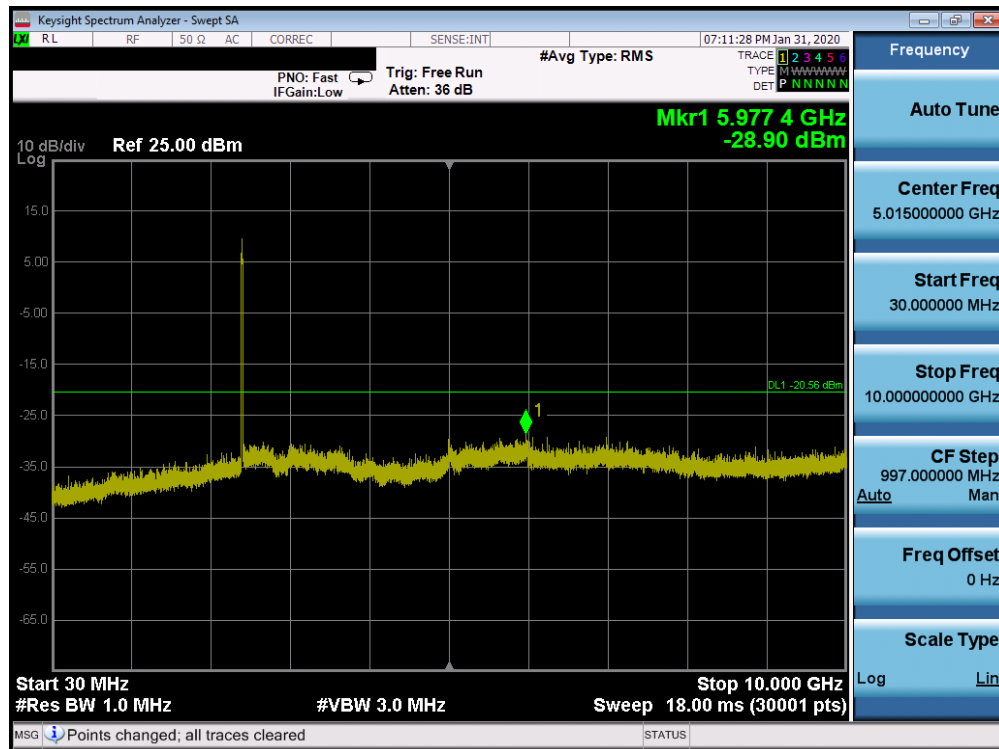


Plot 7-101. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 11)

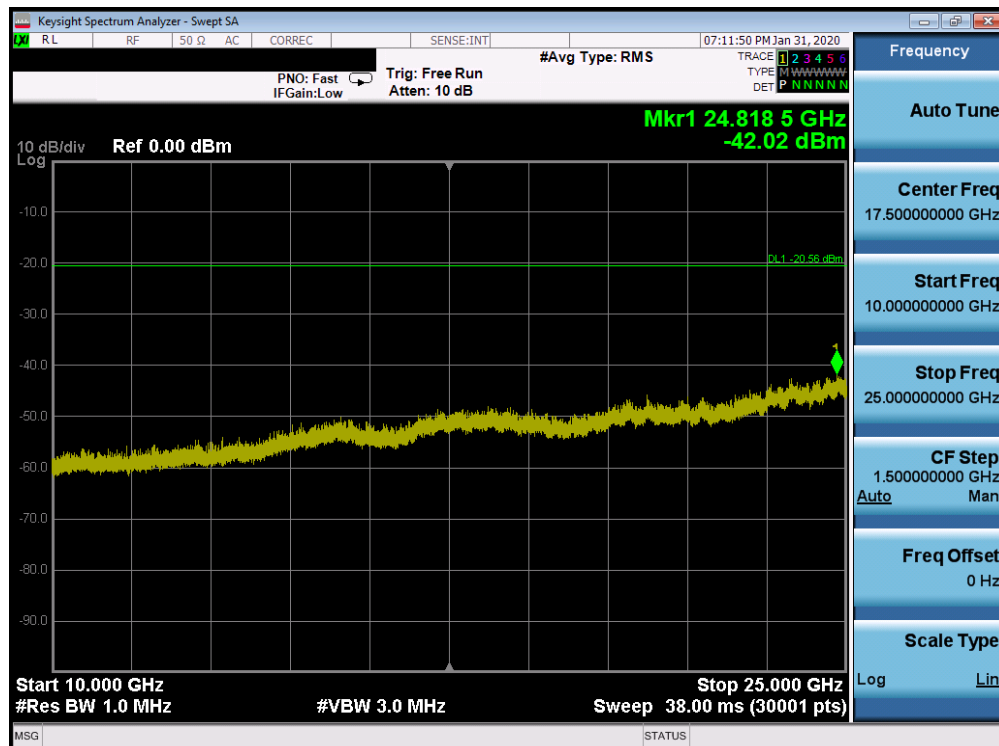


Plot 7-102. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 11)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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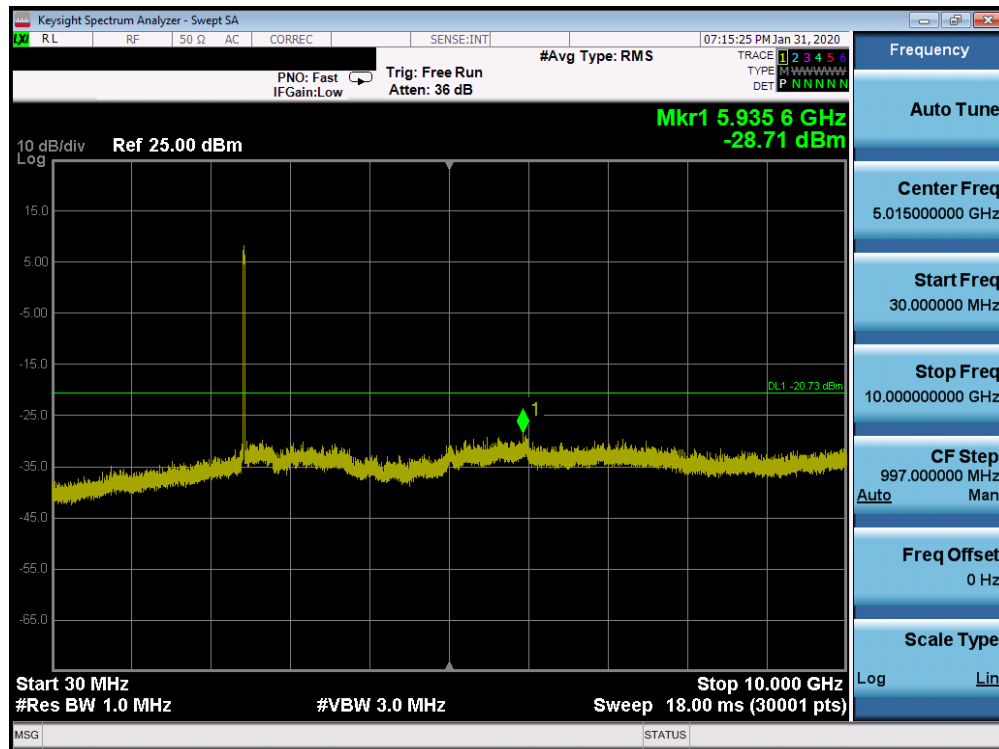


Plot 7-103. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 1)

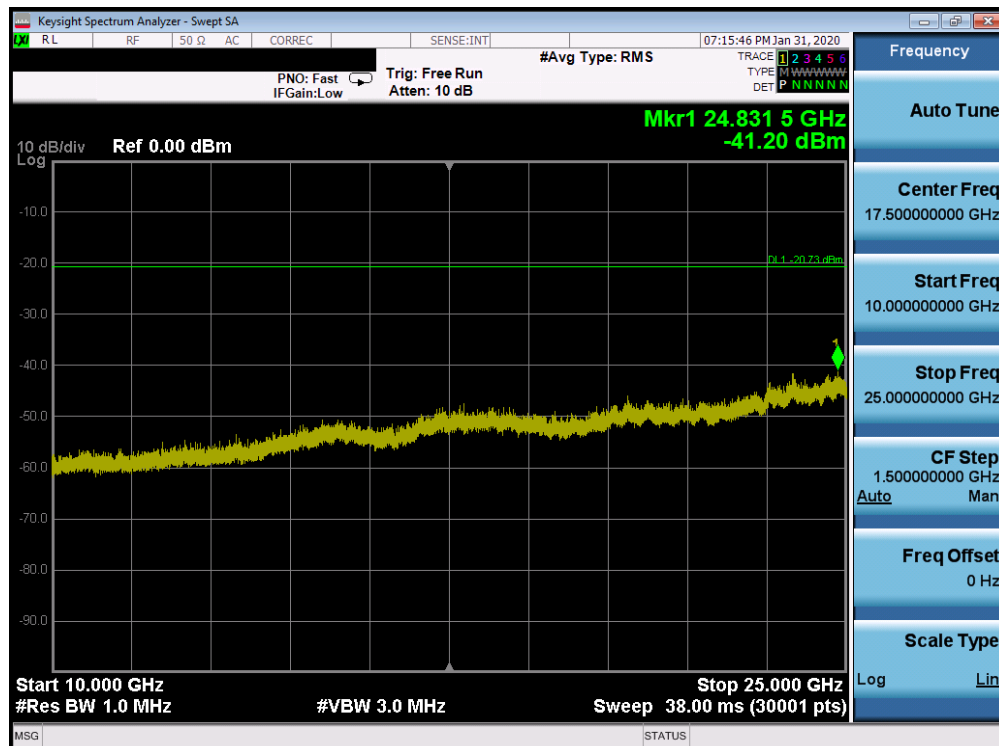


Plot 7-104. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 1)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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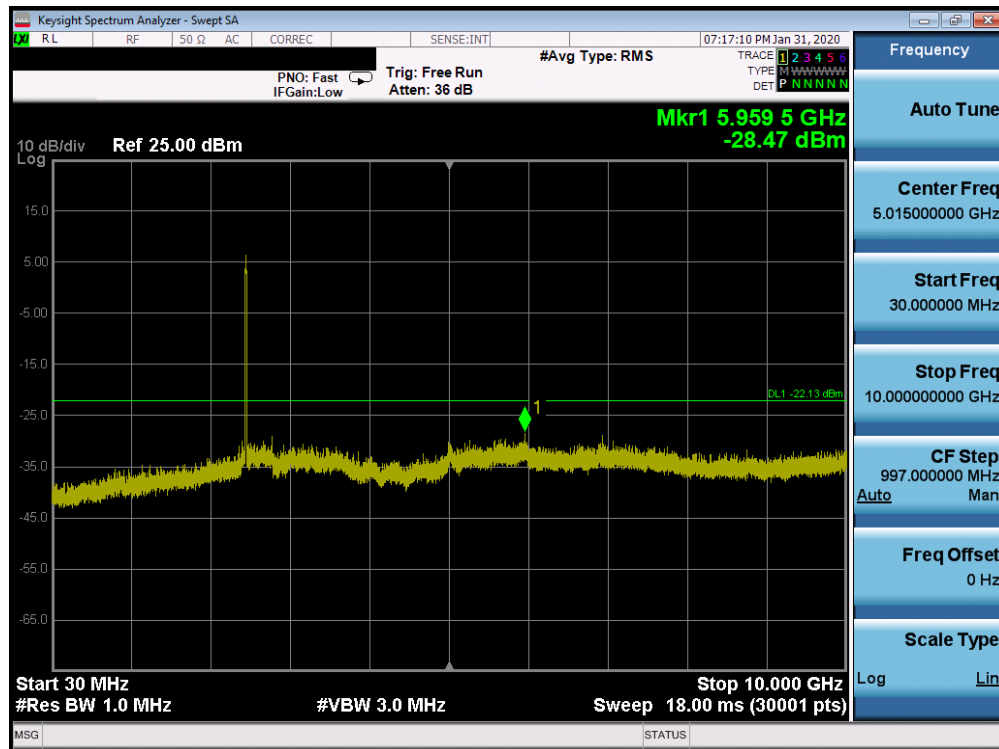


Plot 7-105. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 6)

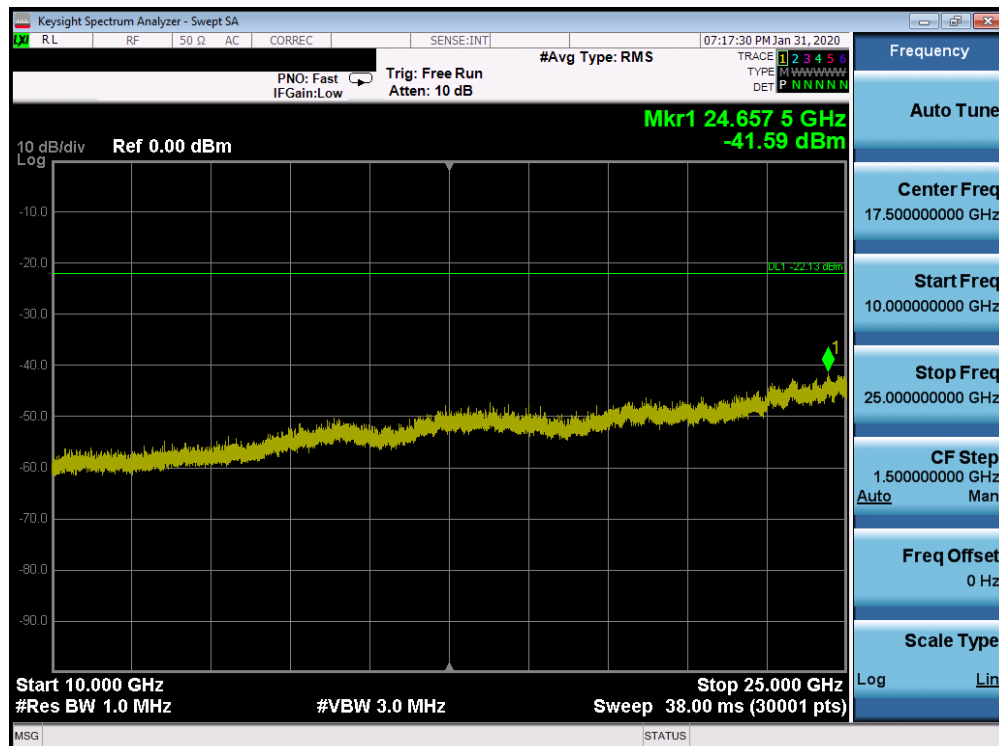


Plot 7-106. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 6)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 82 of 118



Plot 7-107. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 11)



Plot 7-108. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 11)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.7 Radiated Spurious Emission Measurements – Above 1 GHz

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

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-19 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-19. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

KDB 558074 D01 v05r01 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

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

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Test Setup

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

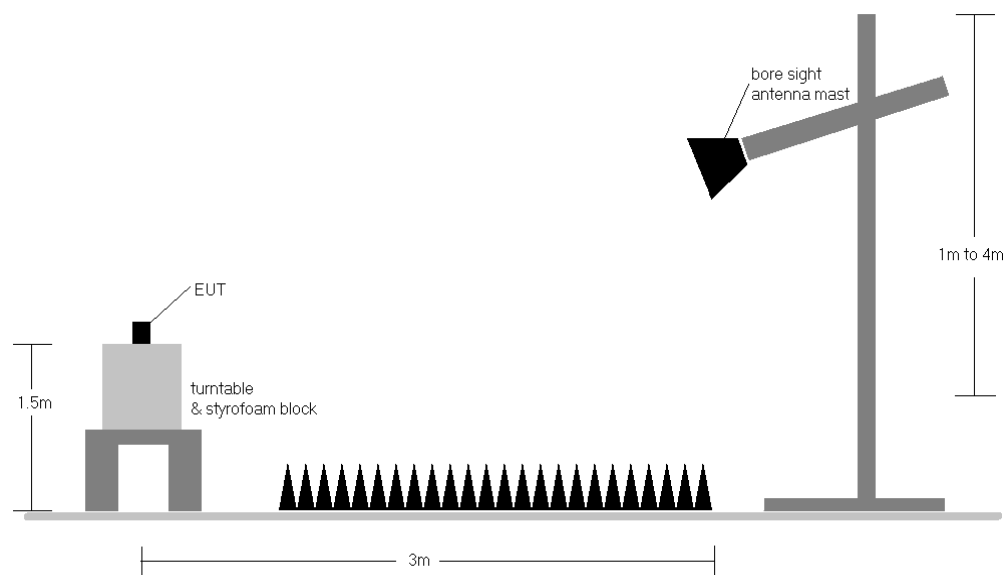


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r01 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-19.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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9. 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.

Sample Calculations

Determining Spurious Emissions Levels

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

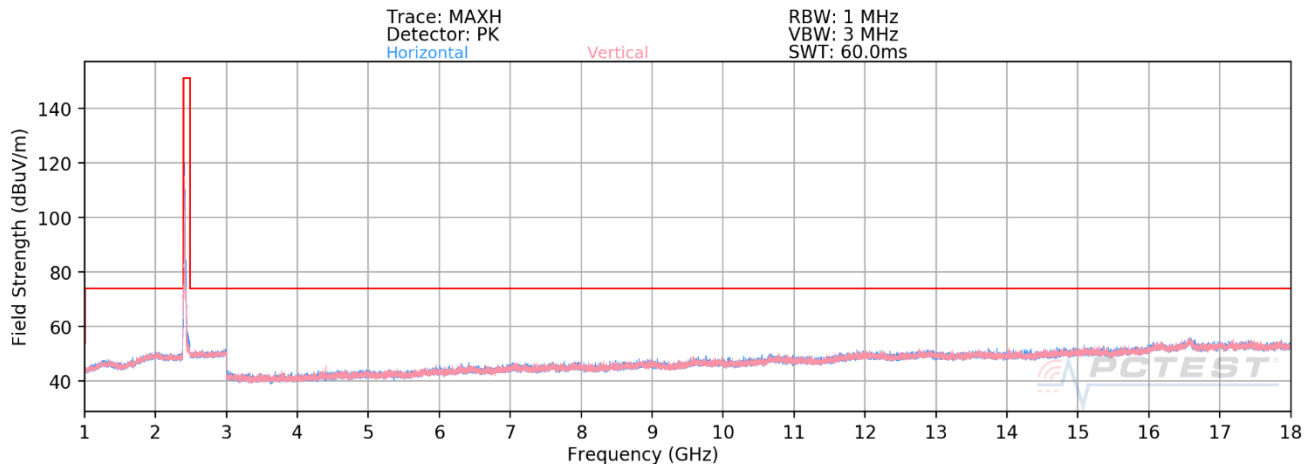
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

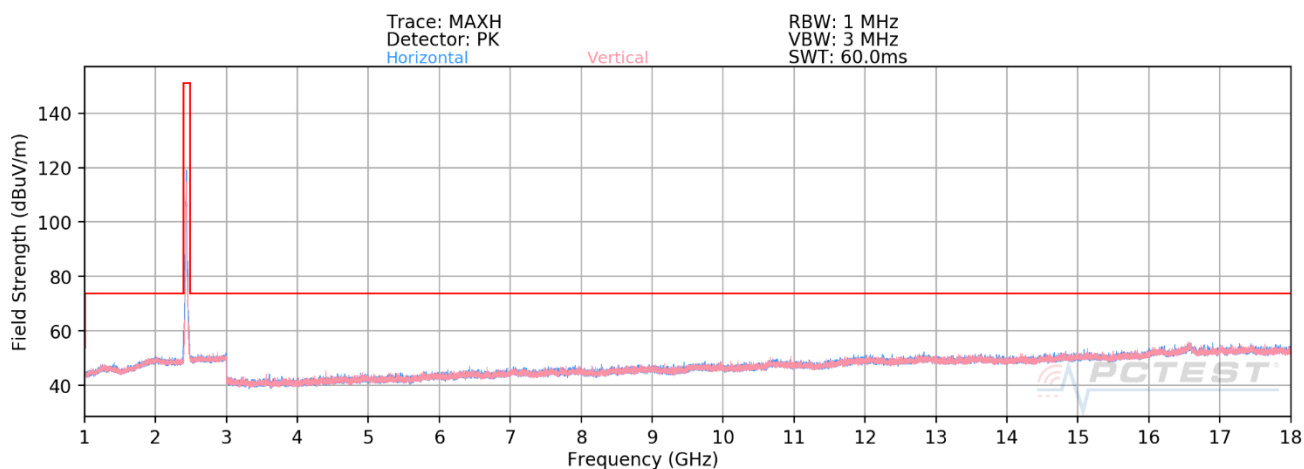
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 86 of 118

7.7.1 SISO Core 0 Radiated Spurious Emission Measurements

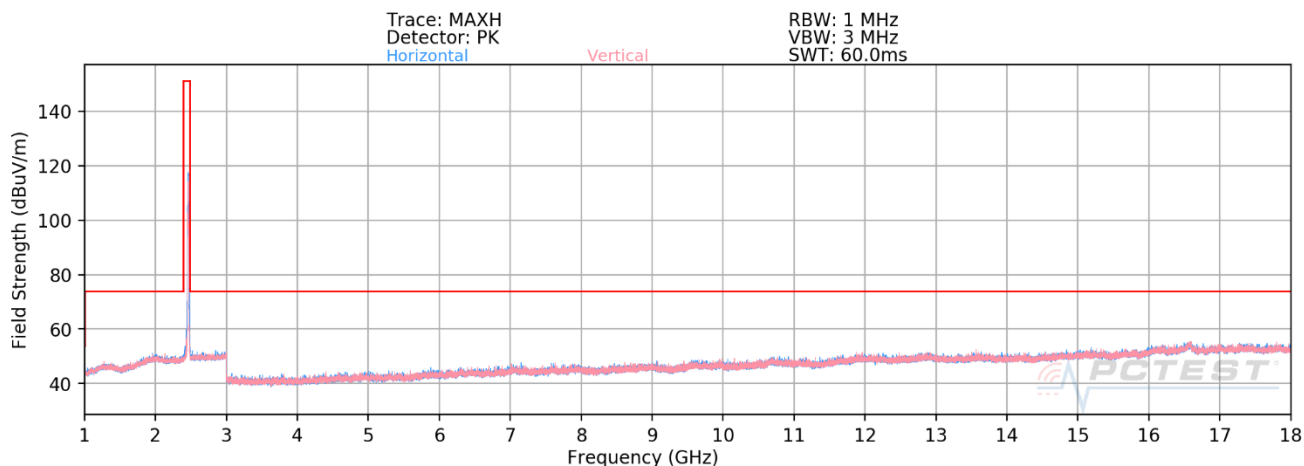
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-109. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA – RU26 – Ch. 1)

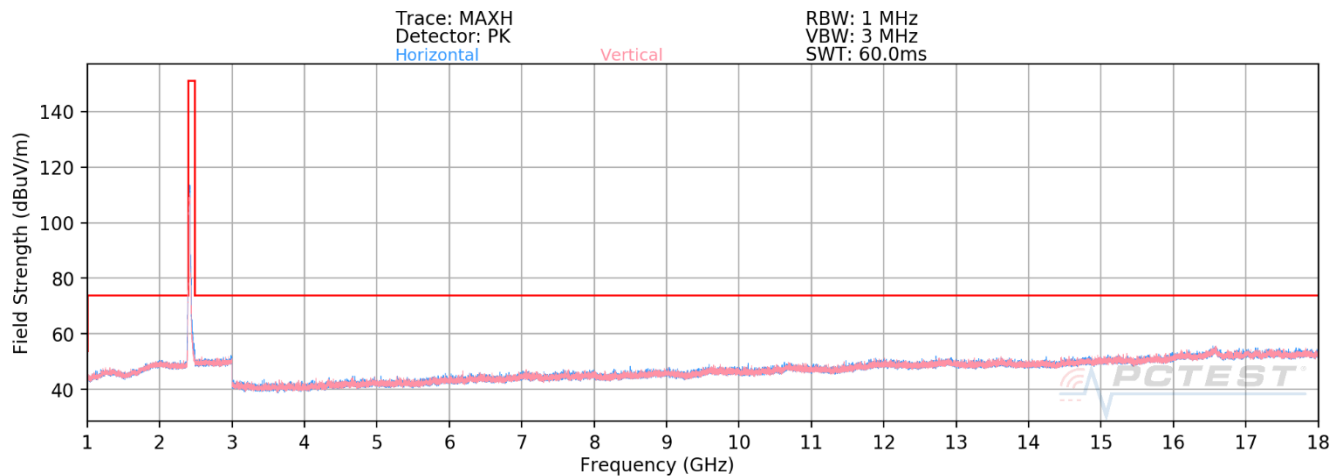


Plot 7-110. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA – RU26 – Ch. 6)

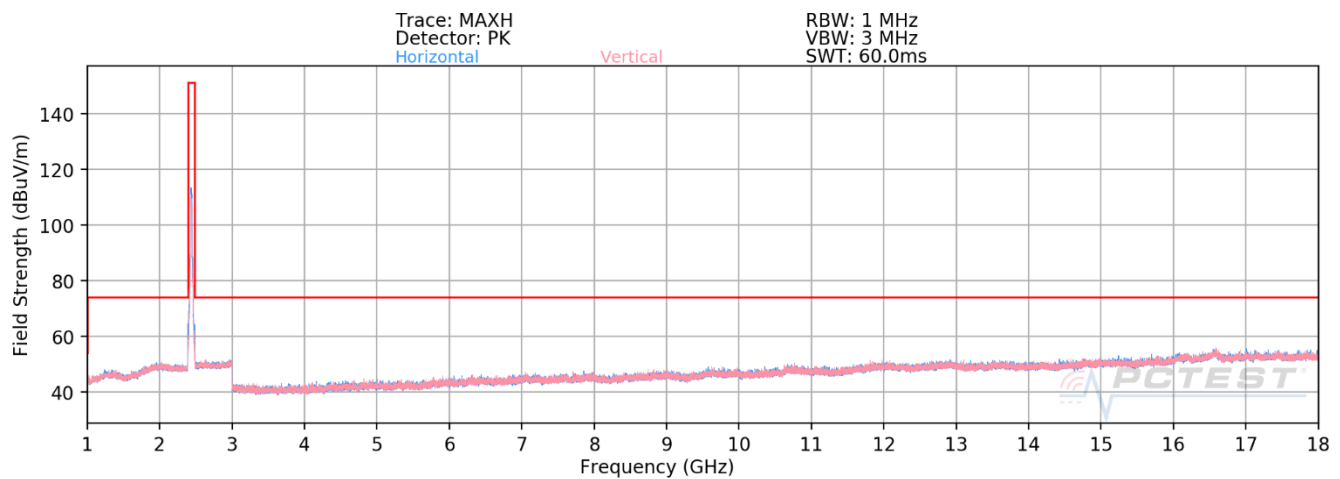


Plot 7-111. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA – RU26 – Ch. 11)

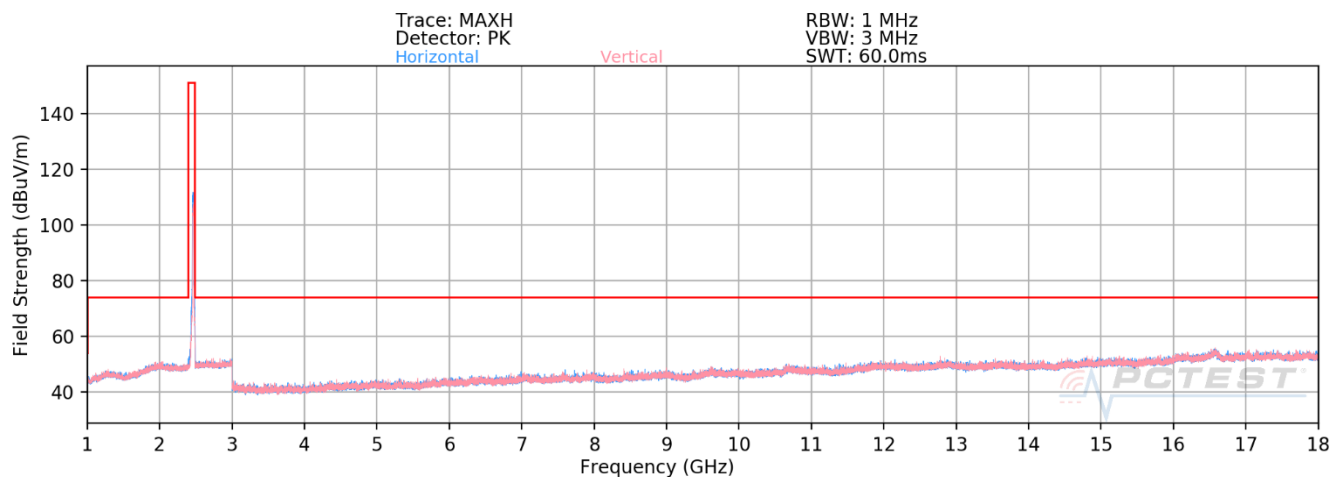
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-112. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA – RU242 – Ch. 1)



Plot 7-113. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA – RU242 – Ch. 6)



Plot 7-114. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA – RU242 – Ch. 11)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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SISO Core 0 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-79.96	5.33	30.07	53.98	-23.91
4824.00	Peak	V	-	-	-67.41	5.33	42.35	73.98	-31.63
12060.00	Avg	V	-	-	-84.51	14.53	37.02	53.98	-16.96
12060.00	Peak	V	-	-	-73.47	14.53	48.06	73.98	-25.92

Table 7-20. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.92	5.46	30.49	53.98	-23.49
4874.00	Peak	V	-	-	-68.87	5.46	41.73	73.98	-32.25
7311.00	Avg	V	-	-	-81.55	9.05	37.00	53.98	-16.98
7311.00	Peak	V	-	-	-70.35	9.05	51.45	73.98	-22.53
12185.00	Avg	V	-	-	-82.68	14.64	36.99	53.98	-16.99
12185.00	Peak	V	-	-	-72.11	14.64	48.80	73.98	-25.18

Table 7-21. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-80.02	6.02	30.88	53.98	-23.10
4924.00	Peak	V	-	-	-68.67	6.02	42.62	73.98	-31.36
7386.00	Avg	V	-	-	-81.56	9.49	35.79	53.98	-18.19
7386.00	Peak	V	-	-	-70.64	9.49	49.61	73.98	-24.37
12310.00	Avg	V	-	-	-82.88	14.66	36.79	53.98	-17.19
12310.00	Peak	V	-	-	-71.93	14.66	47.47	73.98	-26.51

Table 7-22. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.09	5.33	30.09	53.98	-23.89
4824.00	Peak	V	-	-	-68.25	5.33	41.47	73.98	-32.51
12060.00	Avg	V	-	-	-82.37	14.53	36.77	53.98	-17.21
12060.00	Peak	V	-	-	-70.52	14.53	47.87	73.98	-26.11

Table 7-23. Radiated Measurements SISO CORE 0 (RU242)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.80	5.46	30.59	53.98	-23.39
4874.00	Peak	V	-	-	-68.40	5.46	41.87	73.98	-32.11
7311.00	Avg	V	-	-	-81.47	9.05	32.54	53.98	-21.44
7311.00	Peak	V	-	-	-70.46	9.05	44.64	73.98	-29.34
12185.00	Avg	V	-	-	-82.50	14.64	37.35	53.98	-16.63
12185.00	Peak	V	-	-	-71.74	14.64	48.12	73.98	-25.86

Table 7-24. Radiated Measurements SISO CORE 0 (RU242)

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

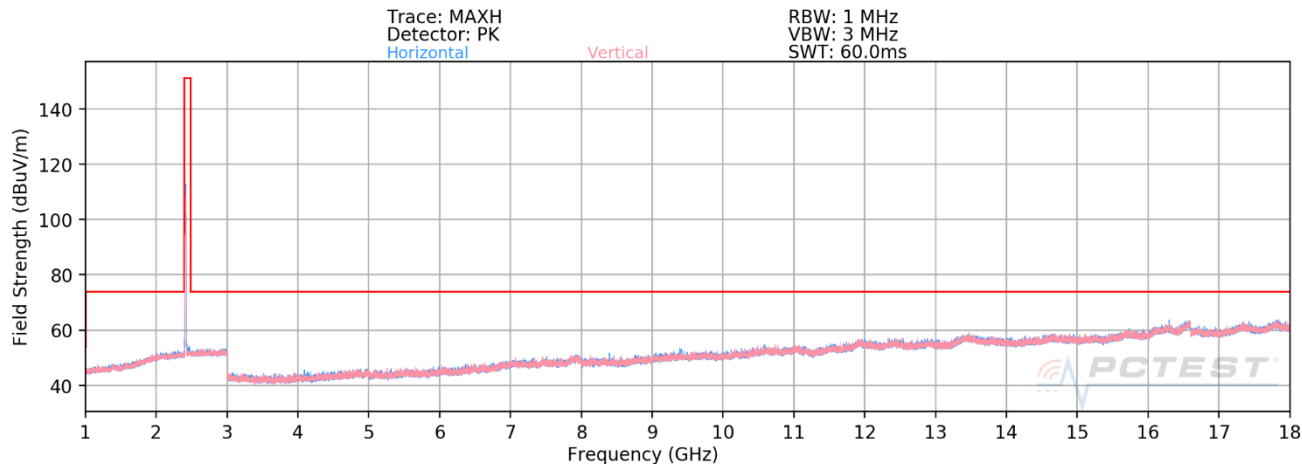
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-79.98	6.02	30.98	53.98	-23.00
4924.00	Peak	V	-	-	-68.43	6.02	42.33	73.98	-31.65
7386.00	Avg	V	-	-	-81.54	9.49	32.73	53.98	-21.25
7386.00	Peak	V	-	-	-70.70	9.49	42.96	73.98	-31.02
12310.00	Avg	V	-	-	-82.63	14.66	36.62	53.98	-17.36
12310.00	Peak	V	-	-	-71.82	14.66	47.67	73.98	-26.31

Table 7-25. Radiated Measurements SISO CORE 0 (RU242)

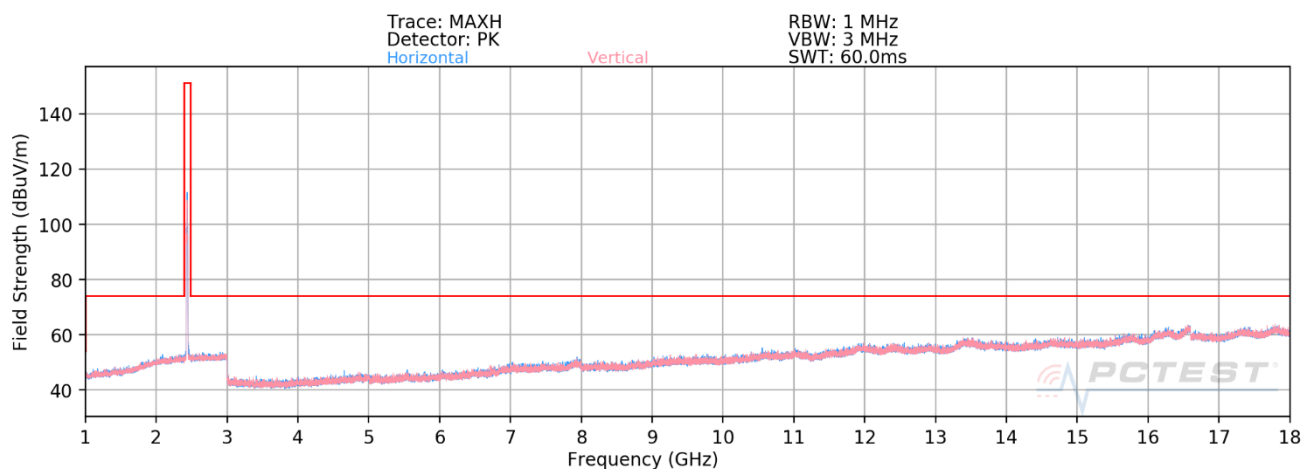
FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.7.2 SISO Core 1 Radiated Spurious Emission Measurements

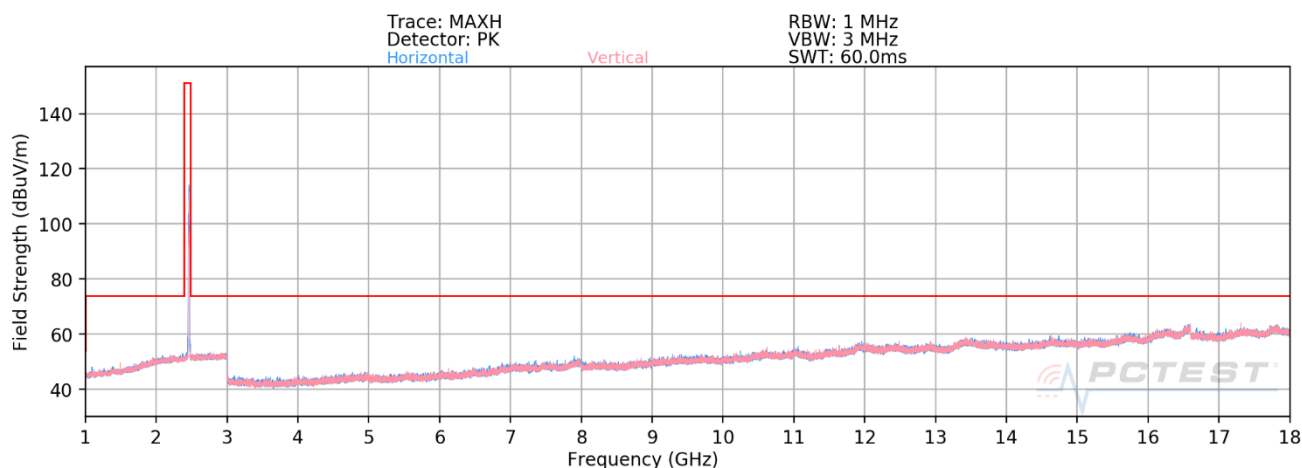
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-115. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 1)

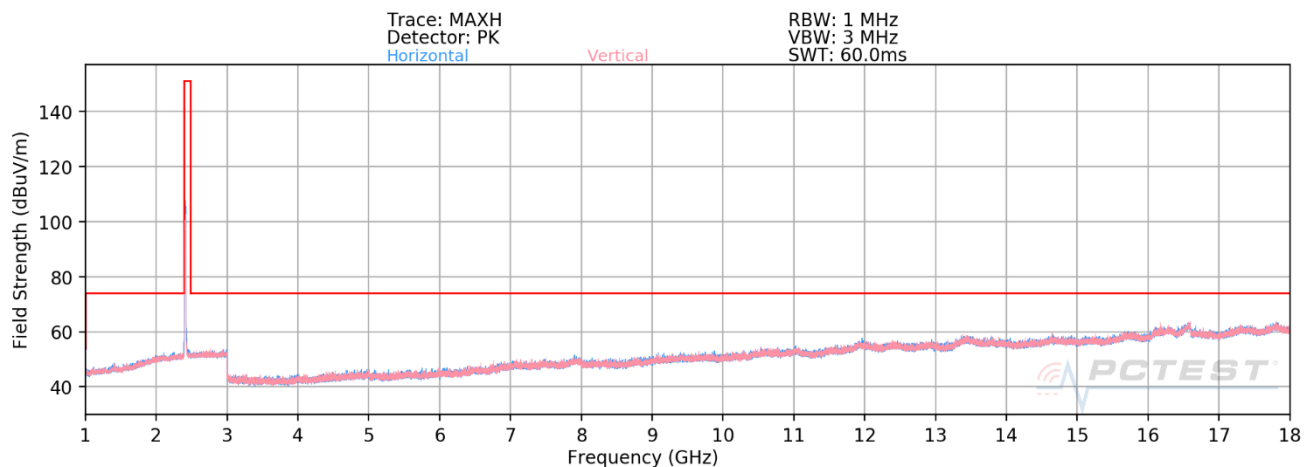


Plot 7-116. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 6)

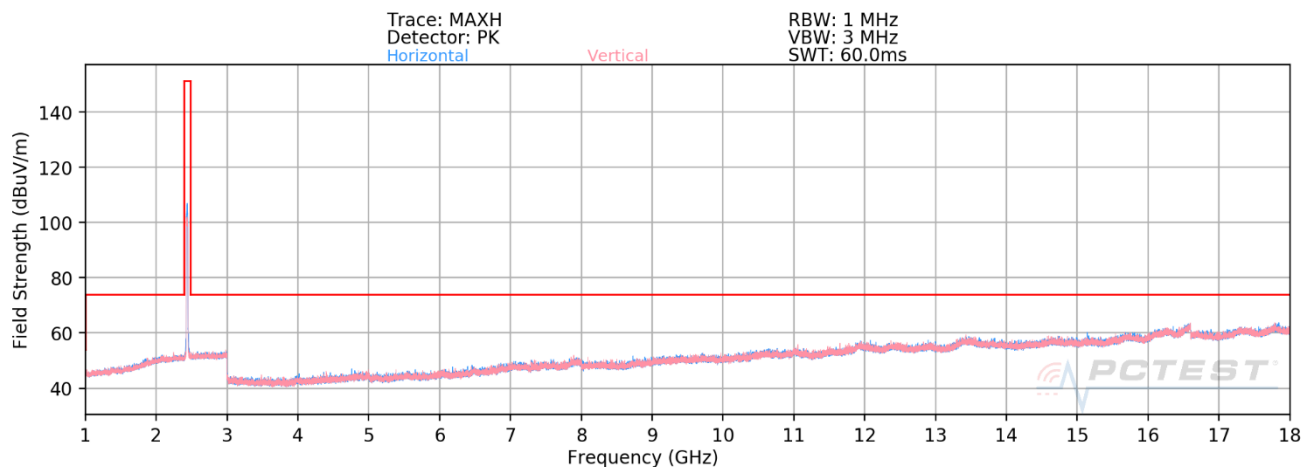


Plot 7-117. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 11)

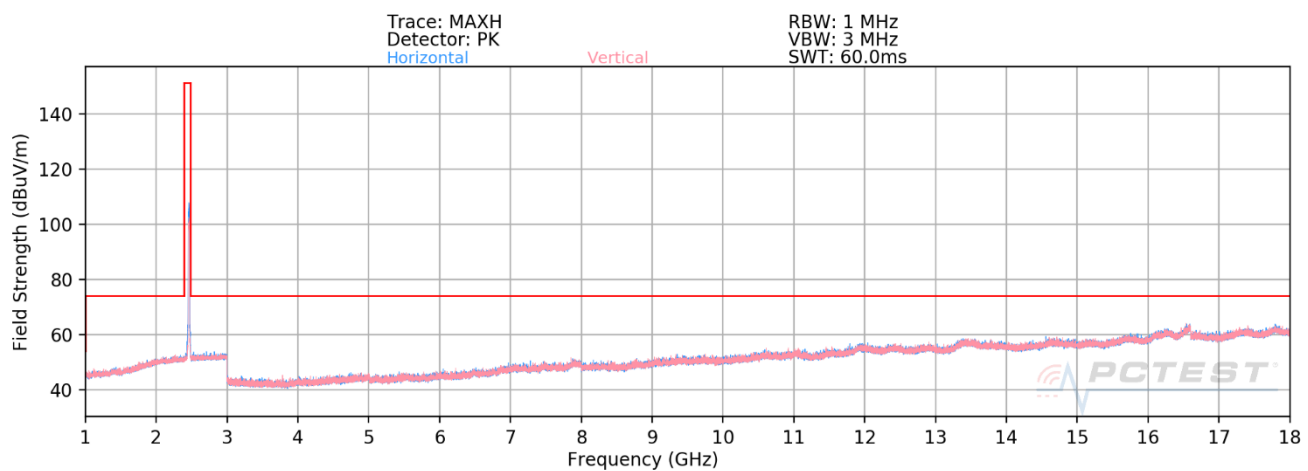
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-118. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 1)



Plot 7-119. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 6)



Plot 7-120. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 11)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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SISO Core 1 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-82.23	9.29	34.06	53.98	-19.92
4824.00	Peak	H	-	-	-70.54	9.29	45.75	73.98	-28.23
12060.00	Avg	H	-	-	-84.69	21.39	43.70	53.98	-10.28
12060.00	Peak	H	-	-	-73.18	21.39	55.21	73.98	-18.77

Table 7-26. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	H	-	-	-82.06	9.26	34.20	53.98	-19.78
4874.00	Peak	H	-	-	-70.32	9.26	45.94	73.98	-28.04
7311.00	Avg	H	-	-	-83.48	13.78	37.30	53.98	-16.68
7311.00	Peak	H	-	-	-71.46	13.78	49.32	73.98	-24.66
12185.00	Avg	H	-	-	-83.26	21.36	45.10	53.98	-8.88
12185.00	Peak	H	-	-	-72.18	21.36	56.18	73.98	-17.80

Table 7-27. Radiated Measurements SISO CORE 1 (RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 94 of 118

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-82.15	8.98	33.83	53.98	-20.15
4924.00	Peak	H	-	-	-70.59	8.98	45.39	73.98	-28.59
7386.00	Avg	H	-	-	-83.85	14.01	37.16	53.98	-16.82
7386.00	Peak	H	-	-	-72.18	14.01	48.83	73.98	-25.15
12310.00	Avg	H	-	-	-84.71	21.79	44.08	53.98	-9.90
12310.00	Peak	H	-	-	-73.00	21.79	55.79	73.98	-18.19

Table 7-28. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	-	-	-82.18	9.29	34.11	53.98	-19.87
4824.00	Peak	H	-	-	-69.80	9.29	46.49	73.98	-27.49
12060.00	Avg	H	-	-	-84.61	21.39	43.78	53.98	-10.20
12060.00	Peak	H	-	-	-73.45	21.39	54.94	73.98	-19.04

Table 7-29. Radiated Measurements SISO CORE 1 (RU242)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 95 of 118

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.95	9.26	34.31	53.98	-19.67
4874.00	Peak	H	-	-	-70.23	9.26	46.03	73.98	-27.95
7311.00	Avg	H	-	-	-83.42	13.78	37.36	53.98	-16.62
7311.00	Peak	H	-	-	-72.08	13.78	48.70	73.98	-25.28
12185.00	Avg	H	-	-	-84.30	21.36	44.06	53.98	-9.92
12185.00	Peak	H	-	-	-73.39	21.36	54.97	73.98	-19.01

Table 7-30. Radiated Measurements SISO CORE 1 (RU242)

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

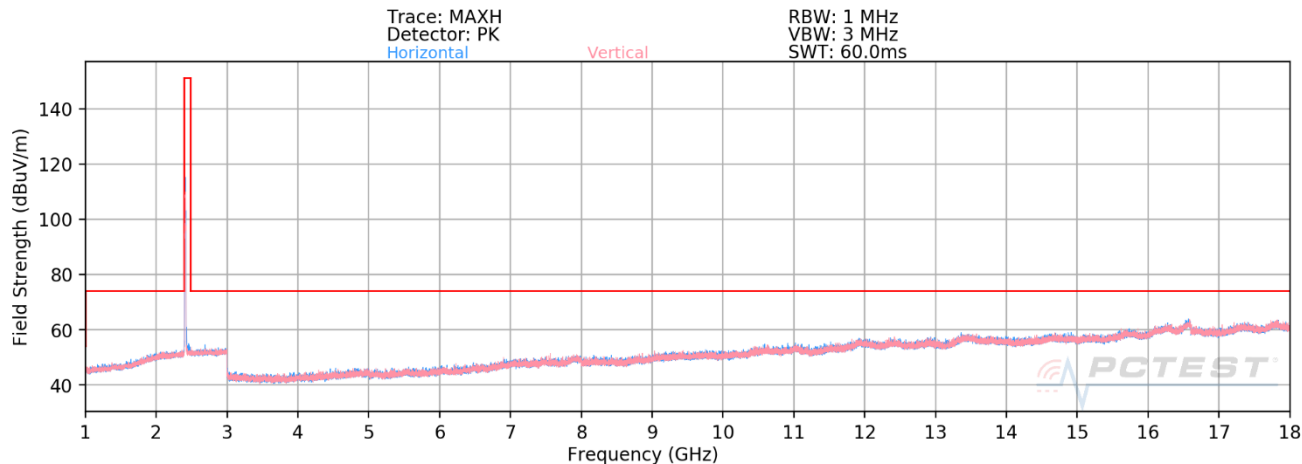
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-82.02	8.98	33.96	53.98	-20.02
4924.00	Peak	H	-	-	-70.63	8.98	45.35	73.98	-28.63
7386.00	Avg	H	-	-	-83.72	14.01	37.29	53.98	-16.69
7386.00	Peak	H	-	-	-72.28	14.01	48.73	73.98	-25.25
12310.00	Avg	H	-	-	-84.86	21.79	43.93	53.98	-10.05
12310.00	Peak	H	-	-	-73.83	21.79	54.96	73.98	-19.02

Table 7-31. Radiated Measurements SISO CORE 1 (RU242)

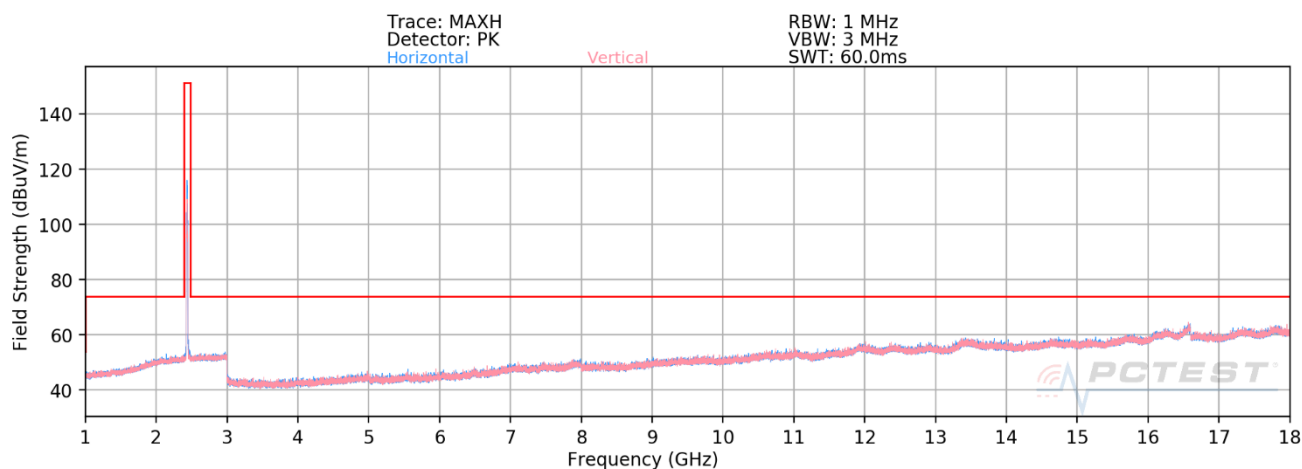
FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 96 of 118

7.7.3 CDD Radiated Spurious Emission Measurements

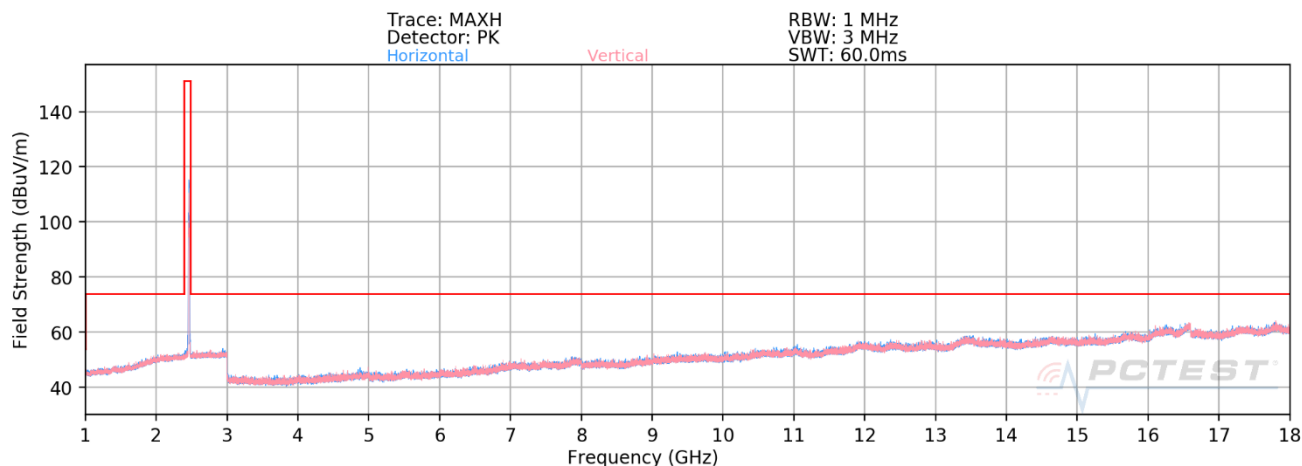
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-121. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 1)

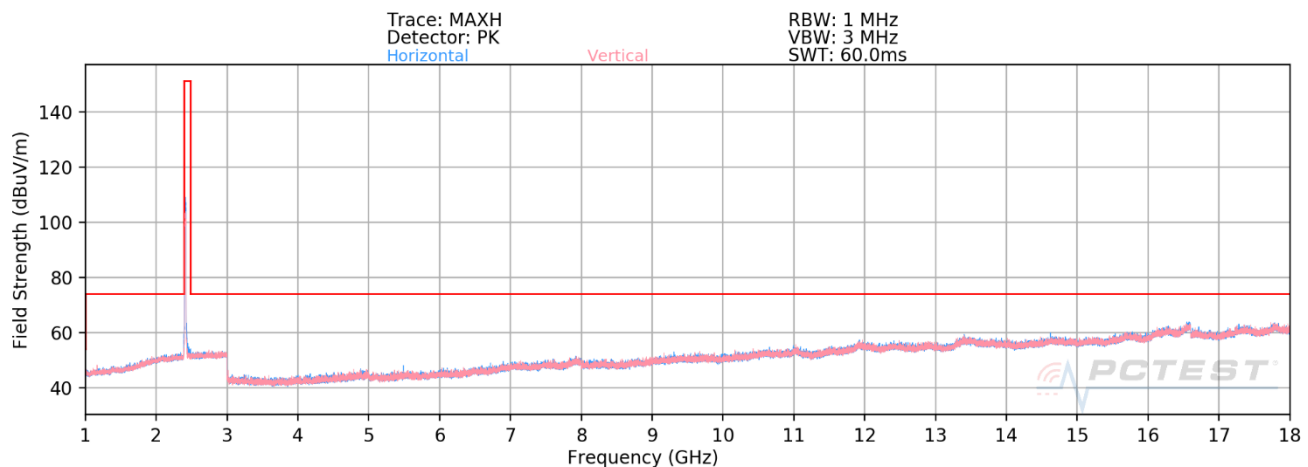


Plot 7-122. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 6)

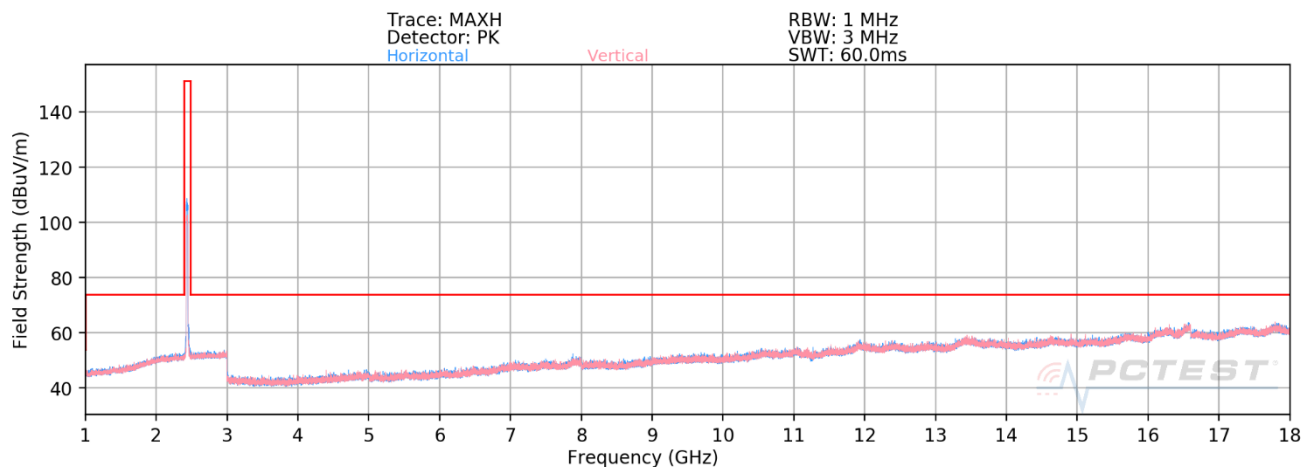


Plot 7-123. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA – RU26 – Ch. 11)

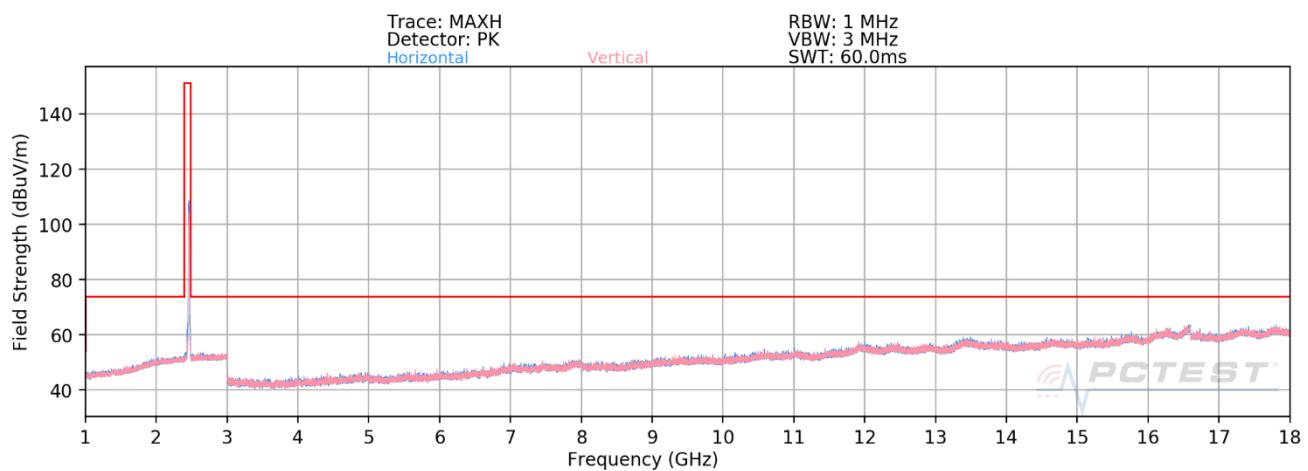
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 97 of 118



Plot 7-124. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 1)



Plot 7-125. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 6)



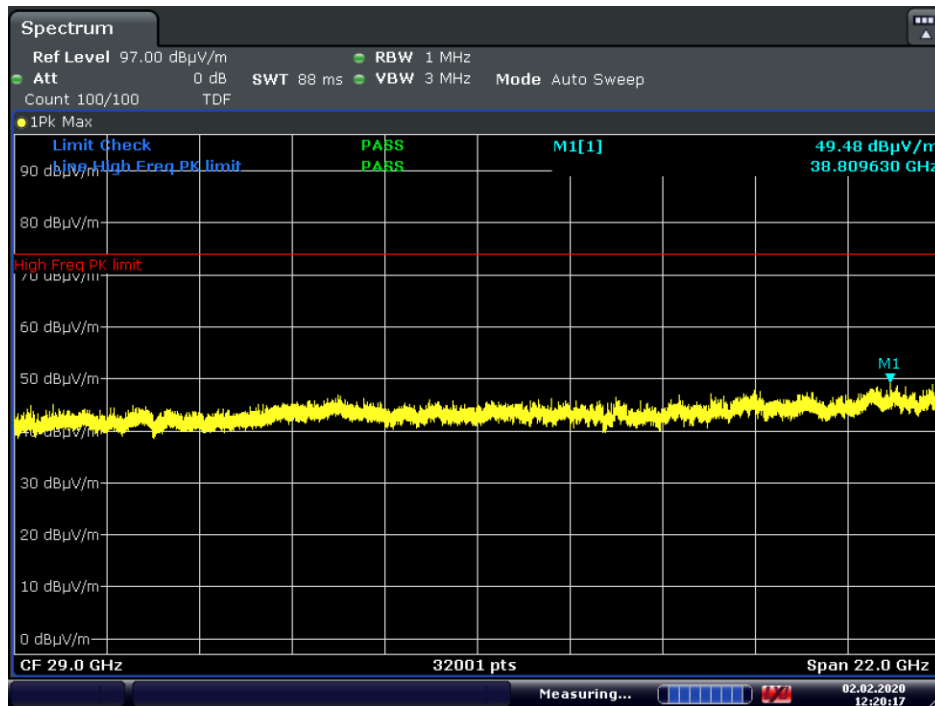
Plot 7-126. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA – RU242 – Ch. 11)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 98 of 118

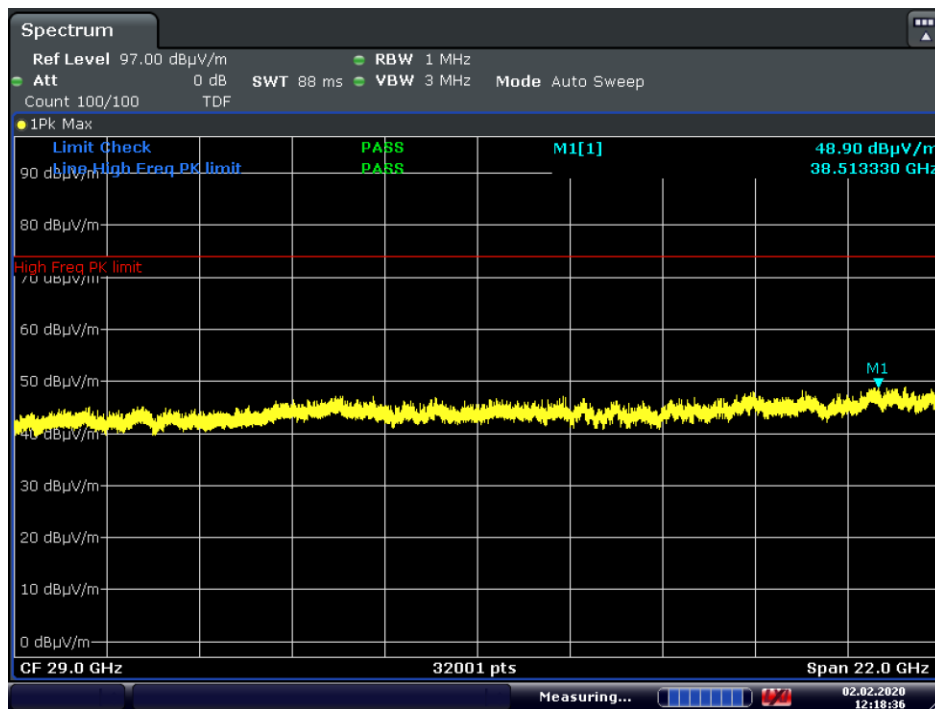


CDD Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-127. Radiated Spurious Plot above 18GHz CDD (802.11ax OFDMA – RU26)



Plot 7-128. Radiated Spurious Plot above 18GHz CDD (802.11ax OFDMA – RU242)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 99 of 118

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CDD Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-81.99	9.29	34.30	53.98	-19.68
4824.00	Peak	H	-	-	-70.67	9.29	45.62	73.98	-28.36
12060.00	Avg	H	-	-	-84.67	21.39	43.72	53.98	-10.26
12060.00	Peak	H	-	-	-73.11	21.39	55.28	73.98	-18.70

Table 7-32. Radiated Measurements CDD (RU26)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.87	9.26	34.39	53.98	-19.59
4874.00	Peak	H	-	-	-70.26	9.26	46.00	73.98	-27.98
7311.00	Avg	H	-	-	-83.41	13.78	37.37	53.98	-16.61
7311.00	Peak	H	-	-	-72.23	13.78	48.55	73.98	-25.43
12185.00	Avg	H	-	-	-84.34	21.36	44.02	53.98	-9.96
12185.00	Peak	H	-	-	-72.69	21.36	55.67	73.98	-18.31

Table 7-33. Radiated Measurements CDD (RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 100 of 118

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-81.98	8.98	34.00	53.98	-19.98
4924.00	Peak	H	-	-	-70.85	8.98	45.13	73.98	-28.85
7386.00	Avg	H	-	-	-84.02	14.01	36.99	53.98	-16.99
7386.00	Peak	H	-	-	-72.52	14.01	48.49	73.98	-25.49
12310.00	Avg	H	-	-	-84.81	21.79	43.98	53.98	-10.00
12310.00	Peak	H	-	-	-73.26	21.79	55.53	73.98	-18.45

Table 7-34. Radiated Measurements CDD (RU26)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	-	-	-82.18	9.29	34.11	53.98	-19.87
4824.00	Peak	H	-	-	-70.16	9.29	46.13	73.98	-27.85
12060.00	Avg	H	-	-	-84.39	21.39	44.00	53.98	-9.98
12060.00	Peak	H	-	-	-72.12	21.39	56.27	73.98	-17.71

Table 7-35. Radiated Measurements CDD (RU242)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 101 of 118

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.83	9.26	34.43	53.98	-19.55
4874.00	Peak	H	-	-	-70.32	9.26	45.94	73.98	-28.04
7311.00	Avg	H	-	-	-83.47	13.78	37.31	53.98	-16.67
7311.00	Peak	H	-	-	-72.20	13.78	48.58	73.98	-25.40
12185.00	Avg	H	-	-	-84.51	21.36	43.85	53.98	-10.13
12185.00	Peak	H	-	-	-73.04	21.36	55.32	73.98	-18.66

Table 7-36. Radiated Measurements CDD (RU242)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-81.91	8.98	34.07	53.98	-19.91
4924.00	Peak	H	-	-	-70.72	8.98	45.26	73.98	-28.72
7386.00	Avg	H	-	-	-83.55	14.01	37.46	53.98	-16.52
7386.00	Peak	H	-	-	-72.78	14.01	48.23	73.98	-25.75
12310.00	Avg	H	-	-	-84.83	21.79	43.96	53.98	-10.02
12310.00	Peak	H	-	-	-73.95	21.79	54.84	73.98	-19.14

Table 7-37. Radiated Measurements CDD (RU242)

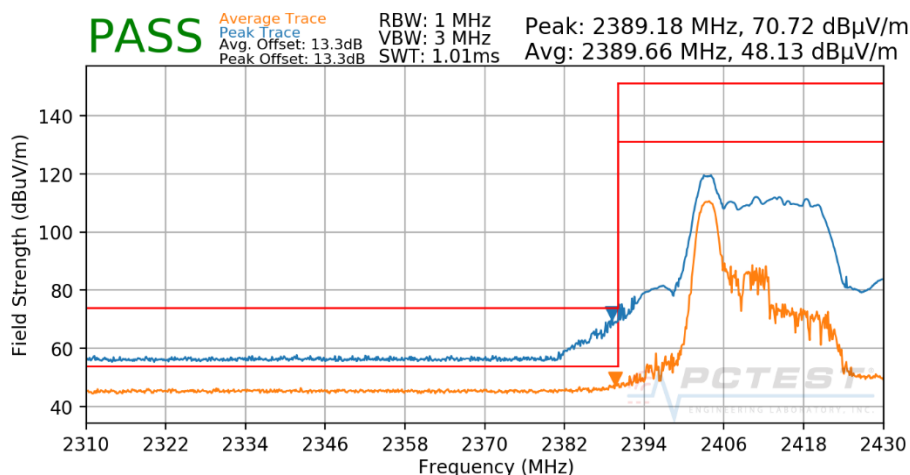
FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 102 of 118

7.7.4 SISO Core 0 Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

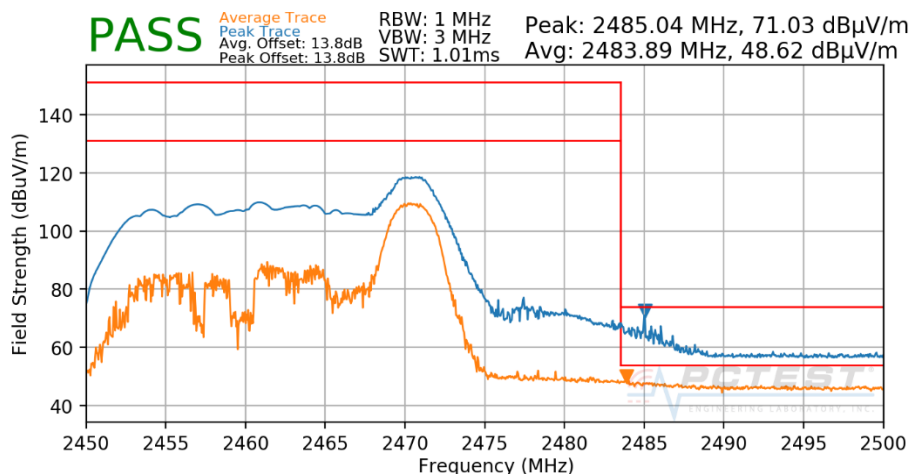
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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 7-129. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 (Peak & Average – RU26)

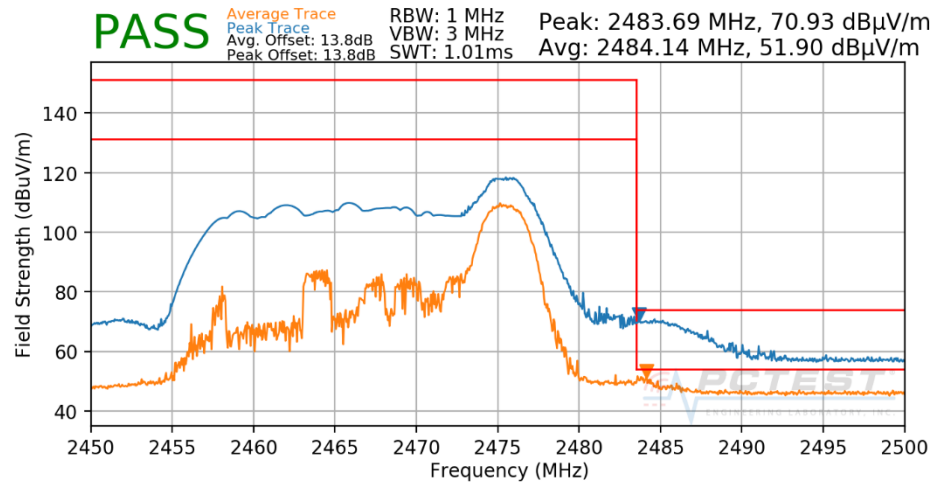
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	8
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



Plot 7-130. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average – RU26)

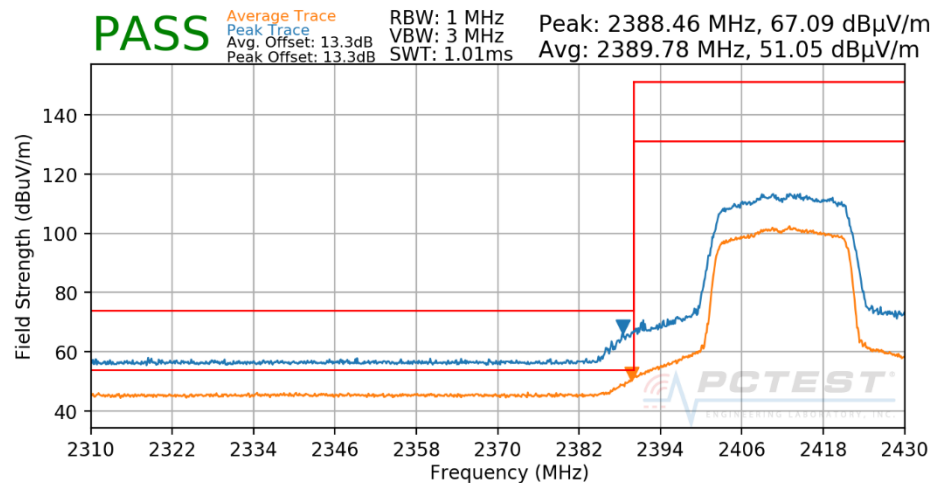
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 103 of 118

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 7-131. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average – RU26)

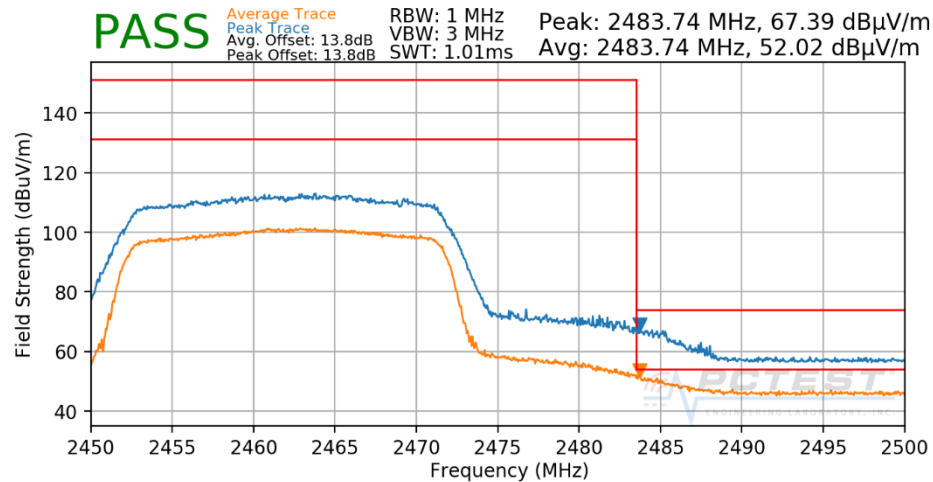
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-132. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 (Peak & Average – RU242)

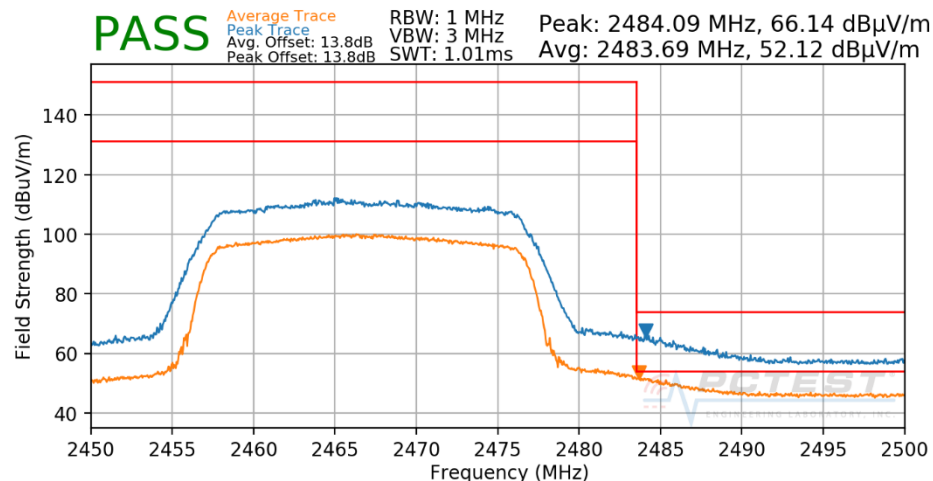
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 104 of 118

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 7-133. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (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 7-134. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average – RU242)

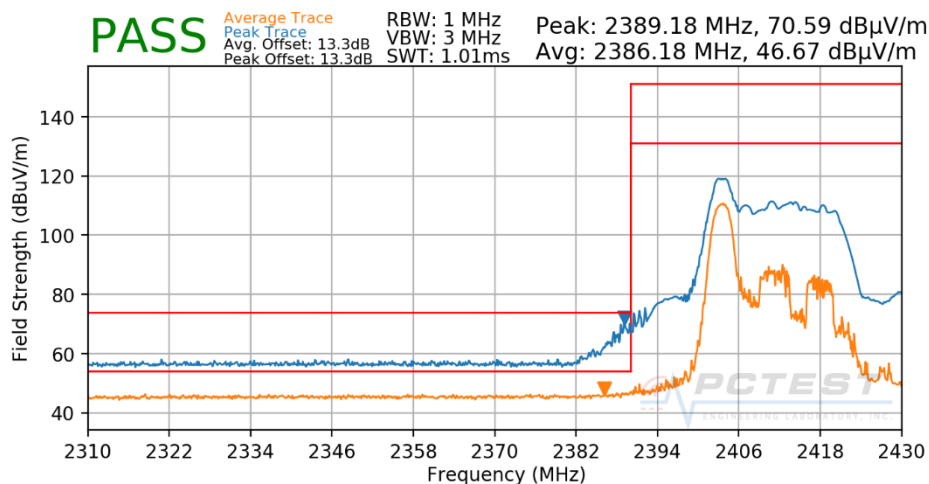
FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 105 of 118

7.7.5 SISO Core 1 Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

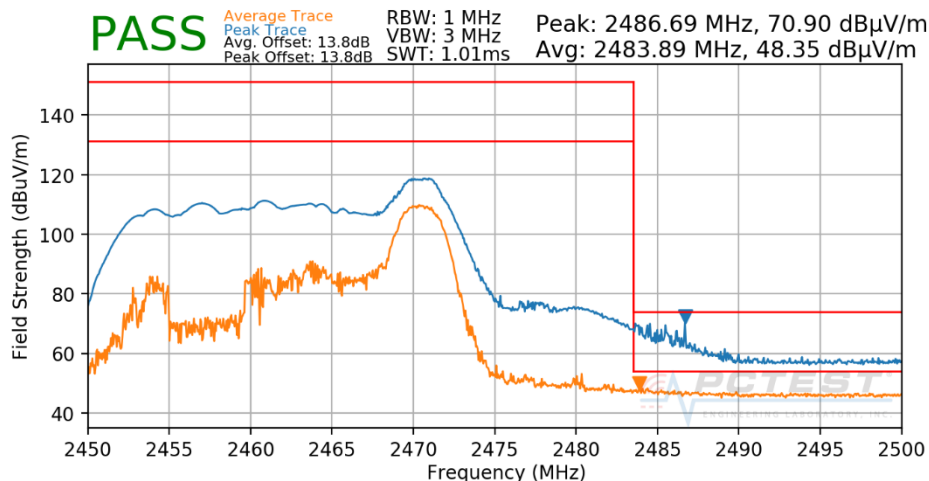
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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 7-135. Radiated Restricted Lower Band Edge Measurement SISO CORE 1 (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

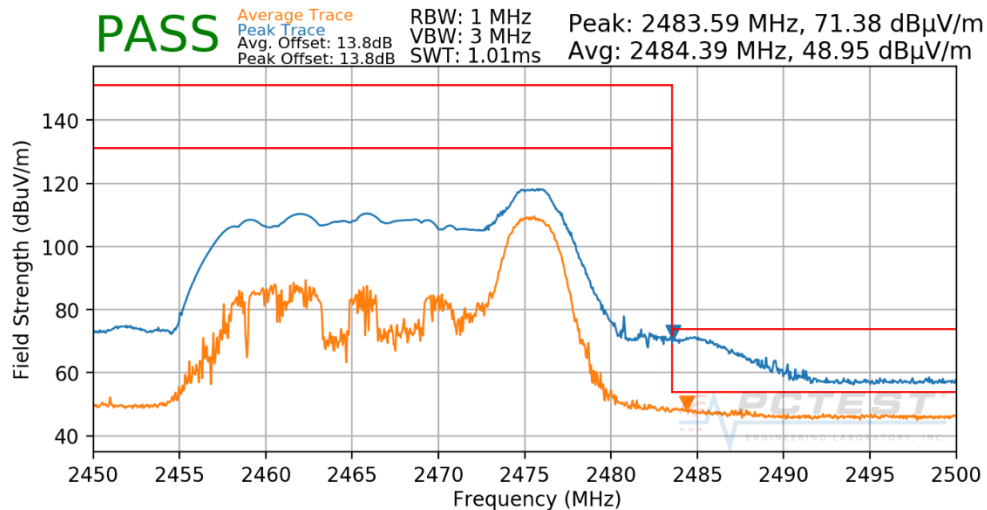


Plot 7-136. Radiated Restricted Upper Band Edge Measurement SISO CORE 1 (Peak & Average – RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 106 of 118

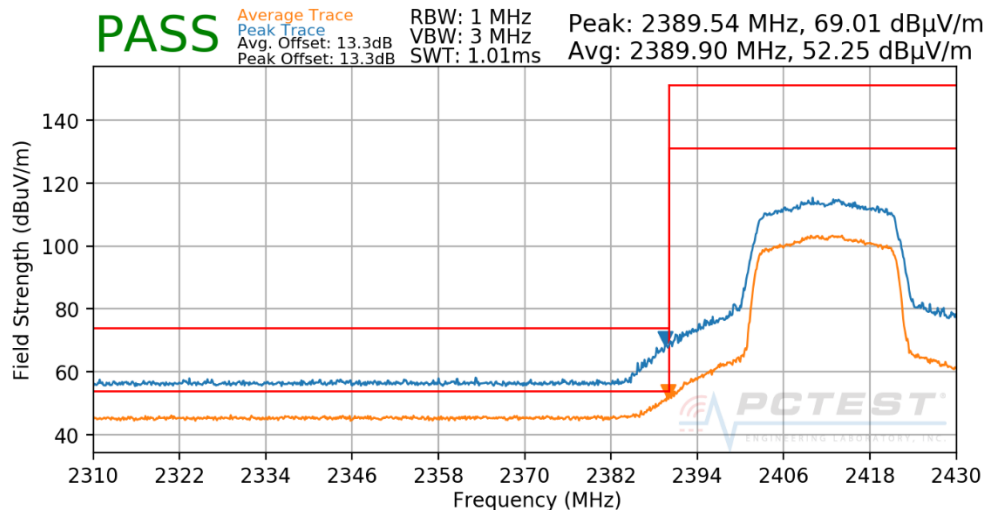


Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-137. Radiated Restricted Upper Band Edge Measurement SISO CORE 1 (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

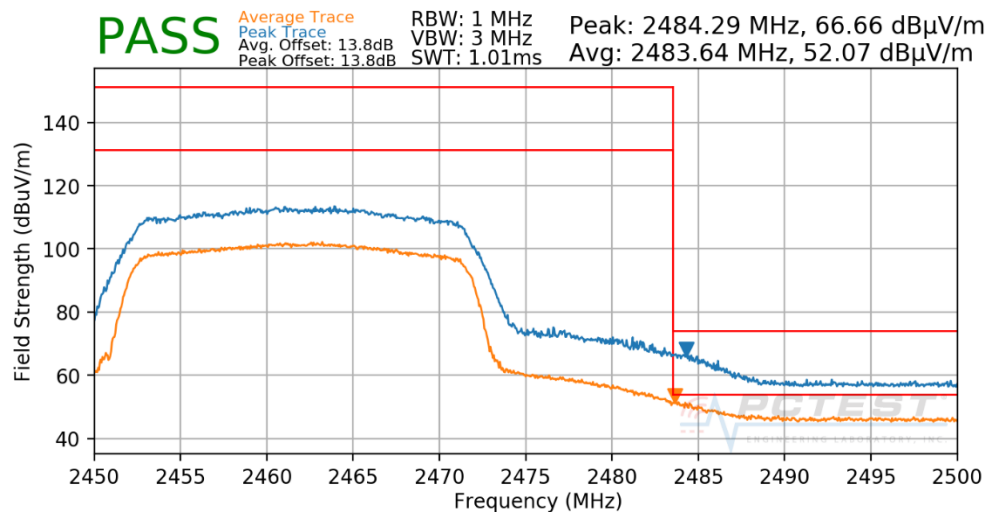


Plot 7-138. Radiated Restricted Lower Band Edge Measurement SISO CORE 1 (Peak & Average – RU242)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-07.BCG	Test Dates: 12/10/2019 - 02/26/2020	EUT Type: Tablet Device	Page 107 of 118

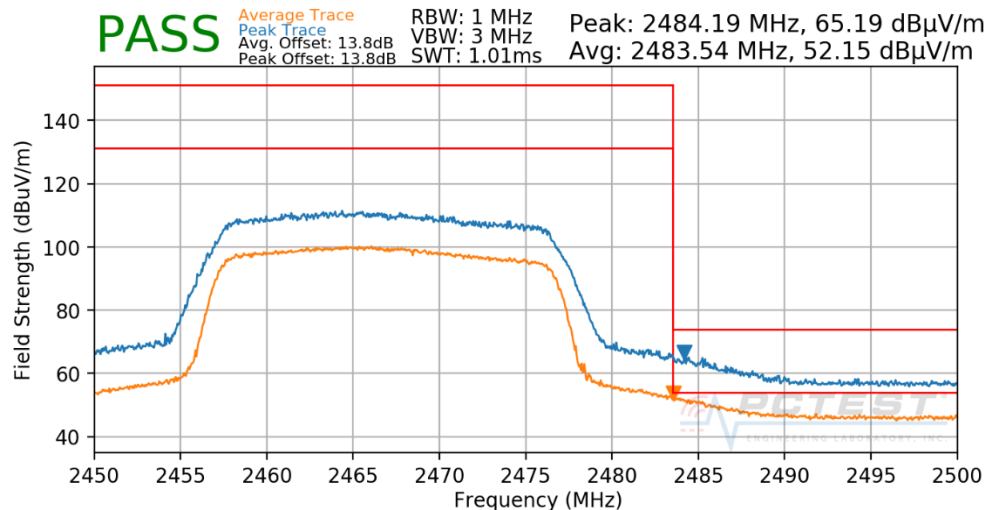


Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-139. Radiated Restricted Upper Band Edge Measurement SISO CORE 1 (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 7-140. Radiated Restricted Upper Band Edge Measurement SISO CORE 1 (Peak & Average – RU242)

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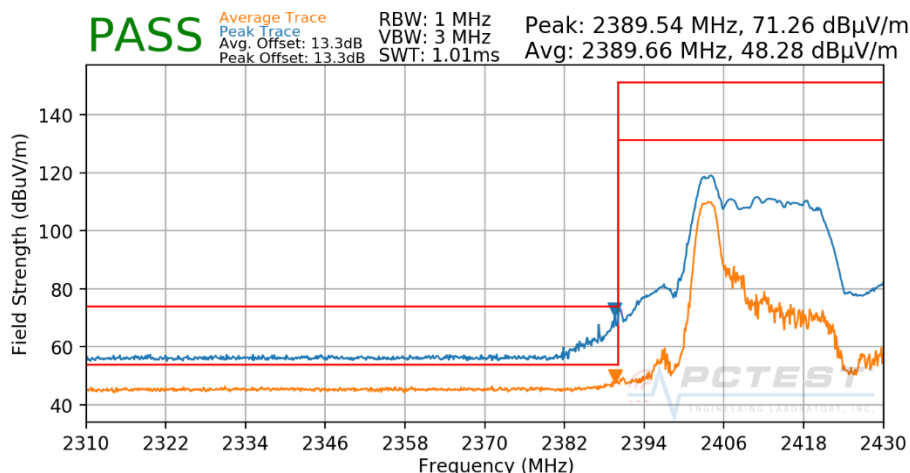


7.7.6 CDD Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

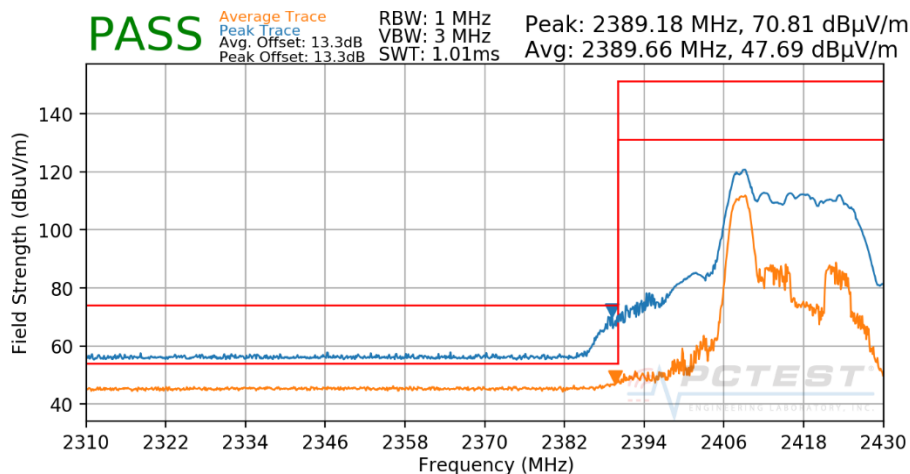
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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 7-141. 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

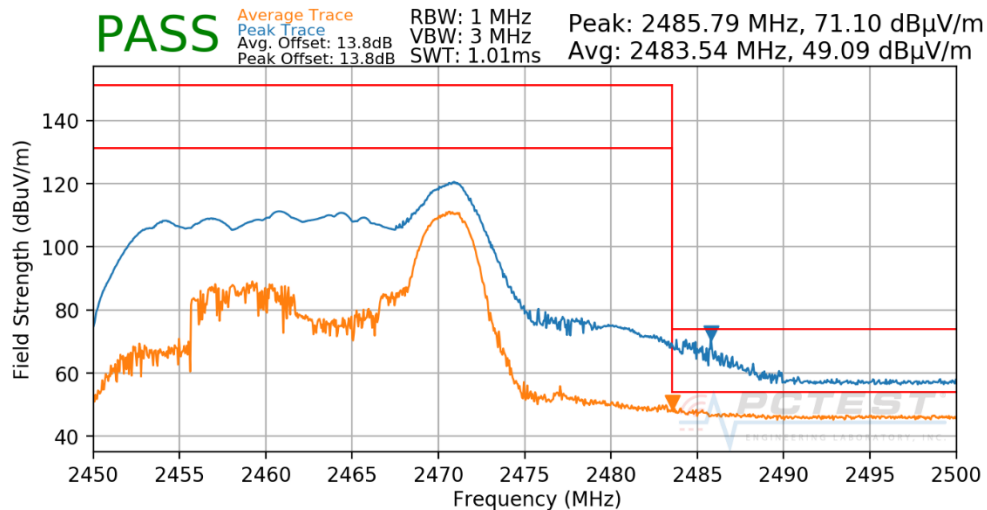


Plot 7-142. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

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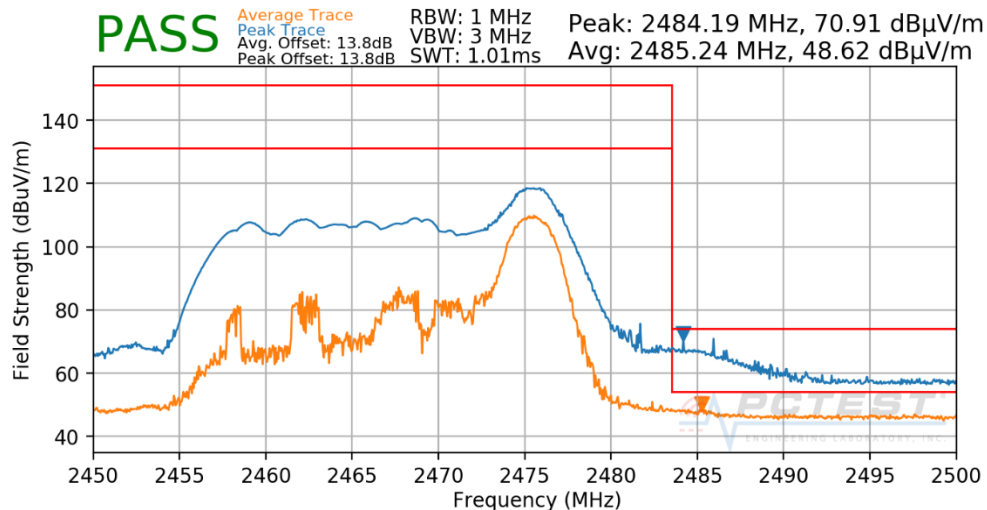


Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-143. 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: 2467MHz
 Channel: 12

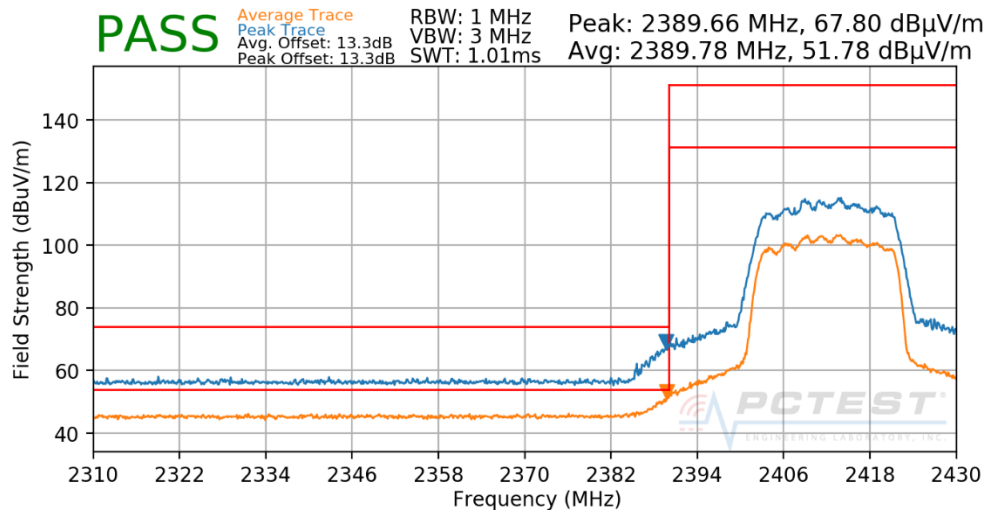


Plot 7-144. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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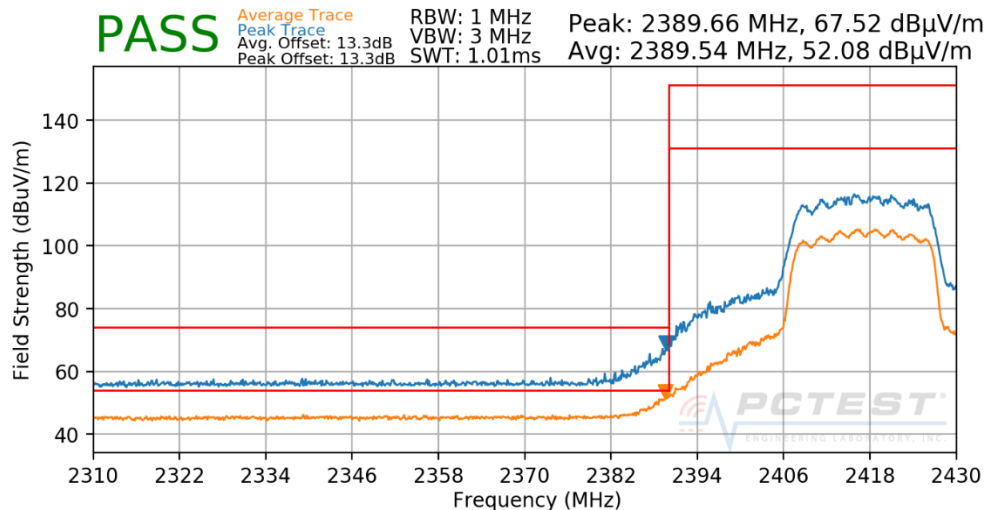


Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-145. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

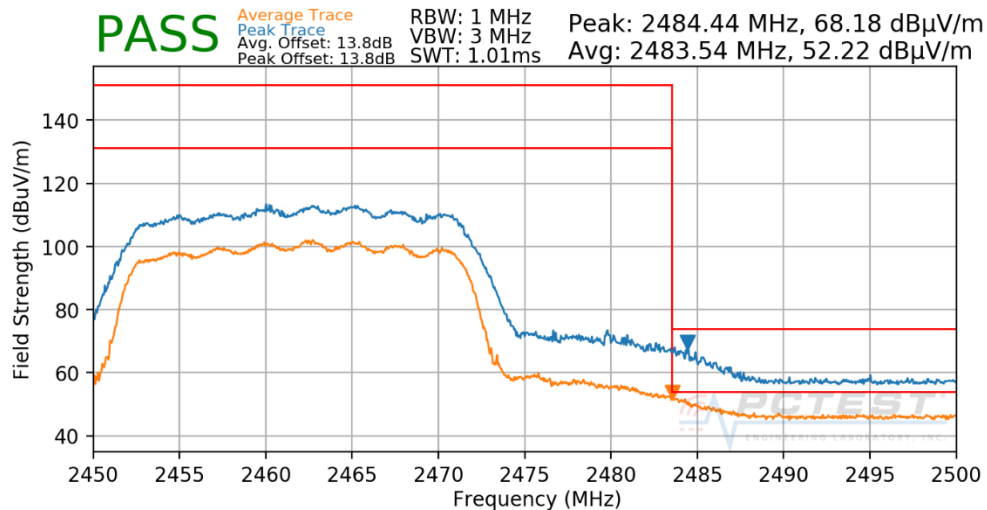
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-146. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

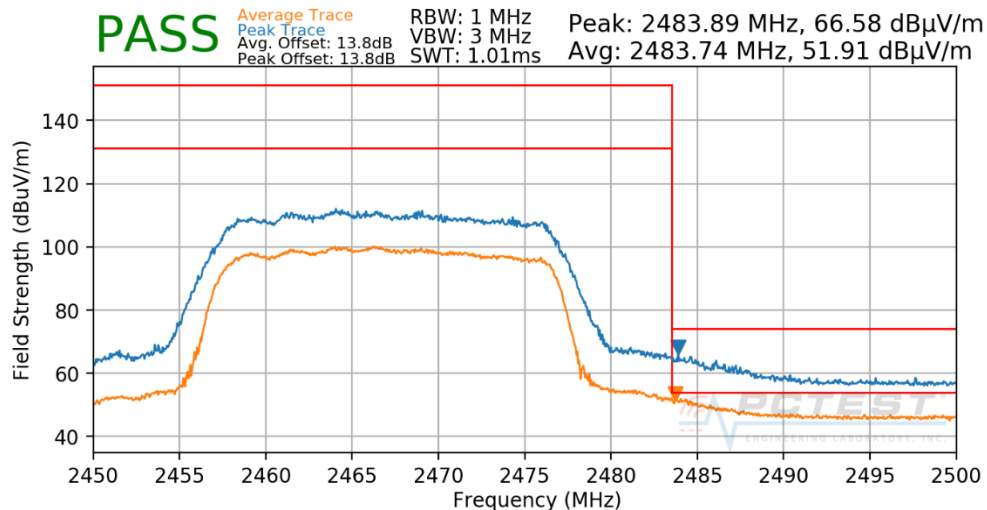
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



Plot 7-147. 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 7-148. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

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7.8 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-38 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-38. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

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

Peak Field Strength Measurements

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

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Test Setup

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

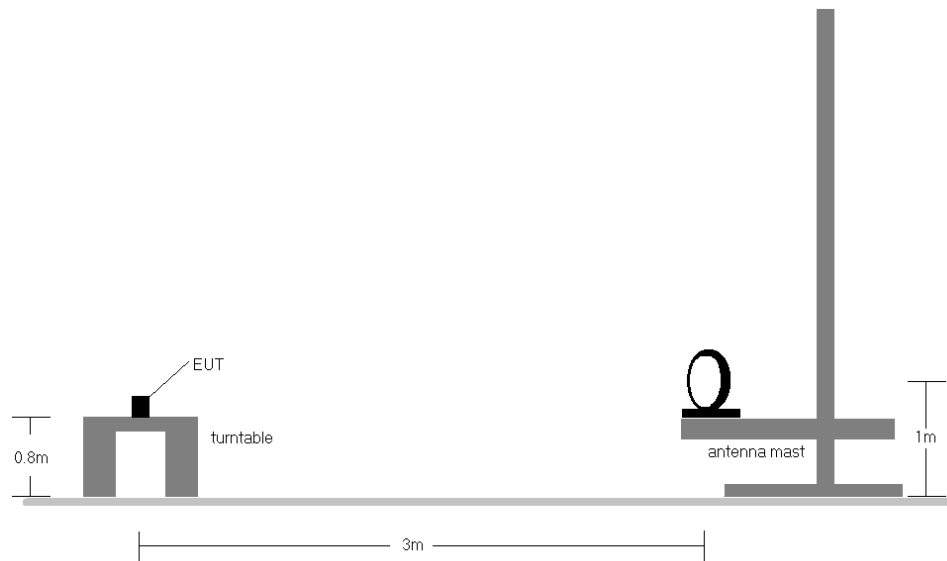


Figure 7-7. Radiated Test Setup < 30Mhz

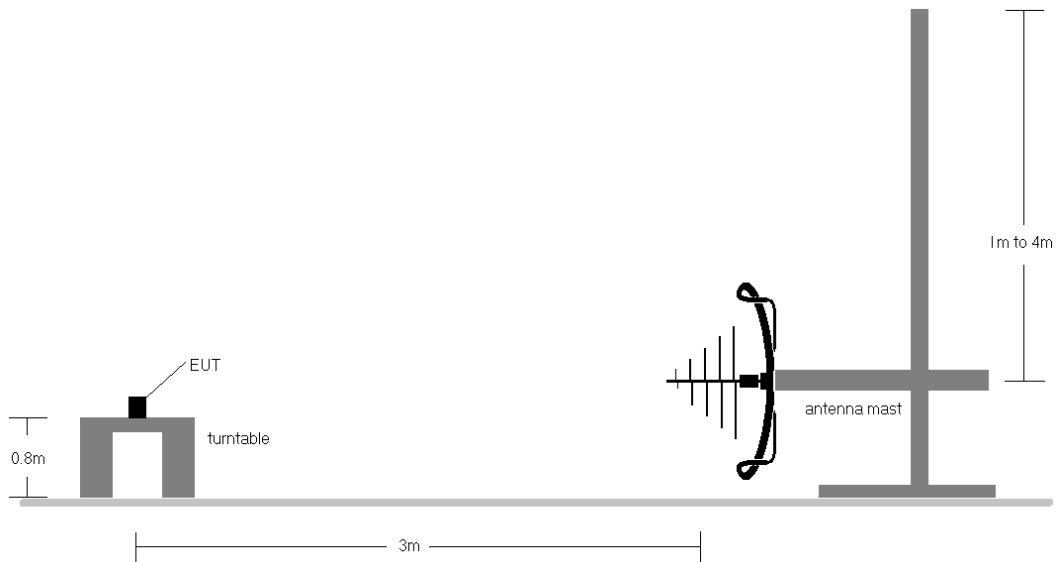


Figure 7-8. Radiated Test Setup < 1GHz

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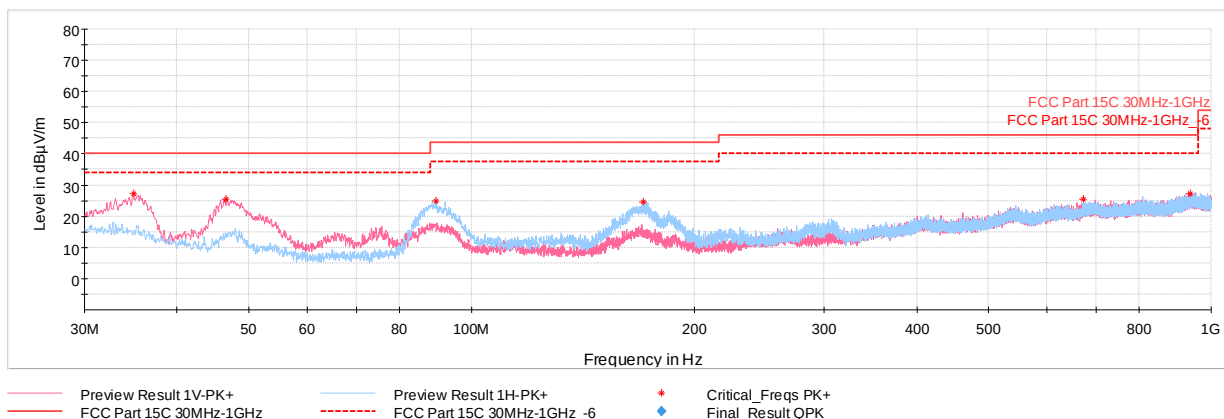
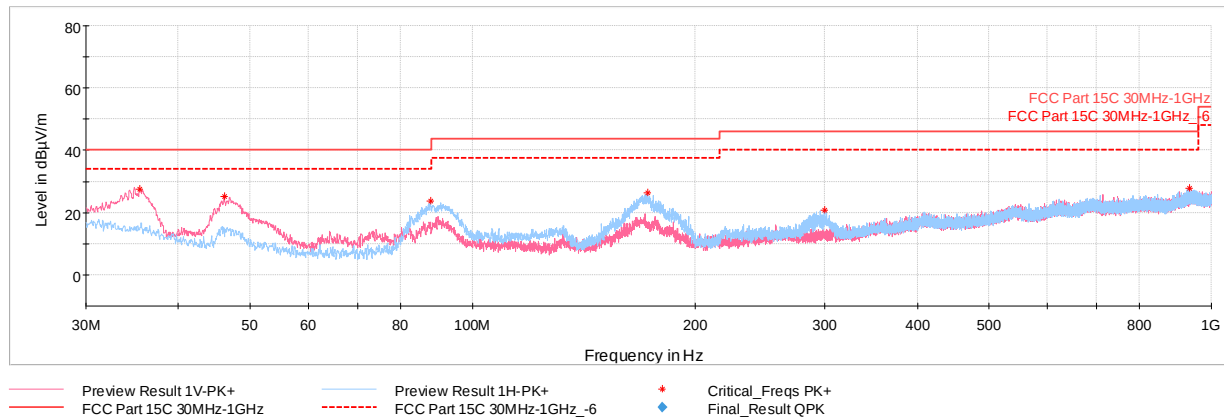
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-38.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
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 on emissions that were within 6dB of the limit. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. All antenna configurations were investigated and only the worst case is reported.
11. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

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CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



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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]
35.43	Max Peak	V	100	217	-64.70	-14.89	27.41	40.00	-12.59
46.15	Max Peak	V	100	281	-61.41	-20.43	25.16	40.00	-14.84
87.72	Max Peak	H	250	173	-62.24	-21.12	23.64	40.00	-16.36
172.74	Max Peak	H	100	88	-63.54	-17.24	26.22	43.52	-17.30
299.95	Max Peak	H	100	30	-72.63	-13.51	20.86	46.02	-25.16
935.35	Max Peak	H	100	15	-79.52	0.25	27.73	46.02	-18.29

Table 7-39. 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]
34.95	Max Peak	V	100	234	-65.13	-14.59	27.28	40.00	-12.72
46.64	Max Peak	V	100	234	-60.86	-20.57	25.57	40.00	-14.43
89.70	Max Peak	H	250	224	-61.34	-20.91	24.75	43.52	-18.77
170.80	Max Peak	H	100	82	-64.97	-17.52	24.51	43.52	-19.01
672.67	Max Peak	H	100	313	-78.24	-3.27	25.49	46.02	-20.53
937.29	Max Peak	H	100	32	-80.03	0.30	27.27	46.02	-18.75

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

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2230** 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.

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