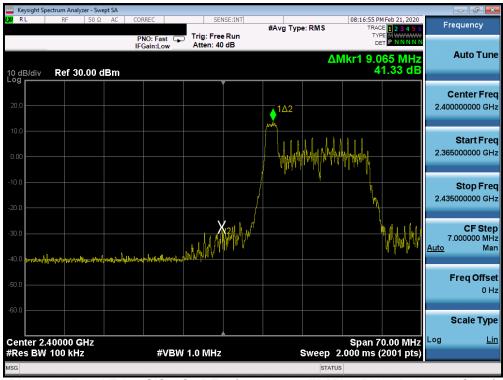


SISO Core 1 Conducted Emissions at the Band Edge



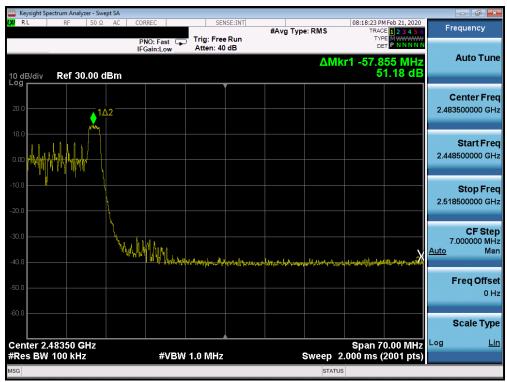
Plot 7-85. Band Edge SISO CORE 1 (802.11ax OFDMA - RU26 Index 0 - Ch. 1)



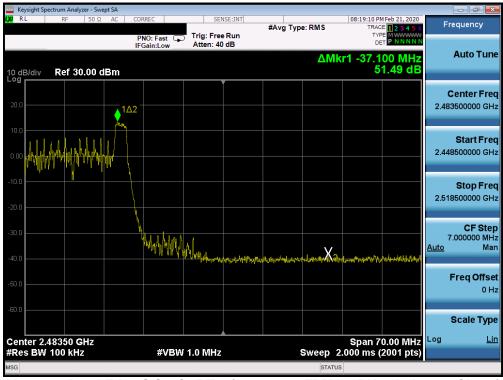
Plot 7-86. Band Edge SISO CORE 1 (802.11ax OFDMA - RU26 Index 0 - Ch. 2)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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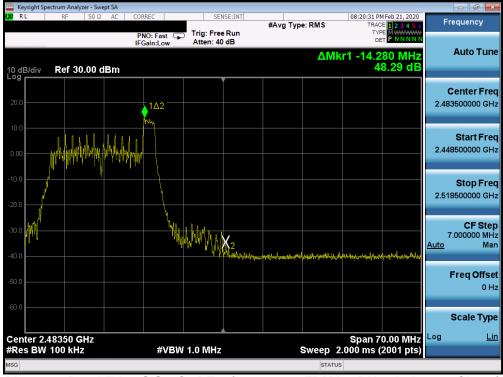
Plot 7-87. Band Edge SISO CORE 1 (802.11ax OFDMA - RU26 Index 8 - Ch. 9)



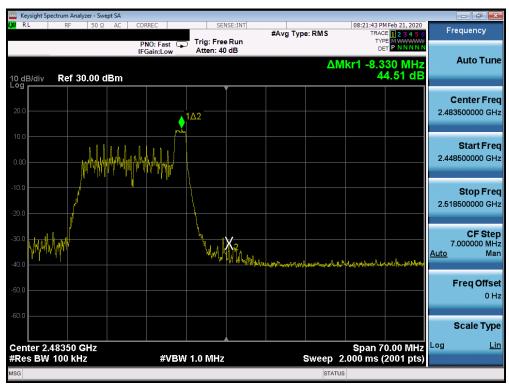
Plot 7-88. Band Edge SISO CORE 1 (802.11ax OFDMA - RU26 Index 8 - Ch. 10)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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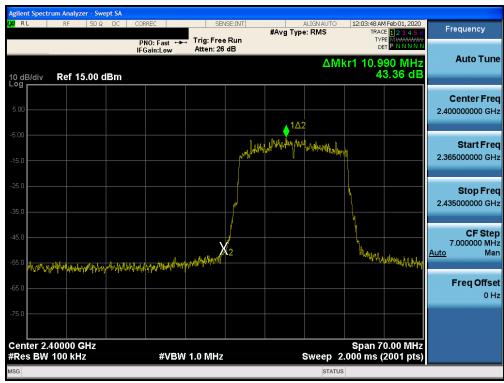
Plot 7-89. Band Edge SISO CORE 1 (802.11ax OFDMA - RU26 Index 8 - Ch. 11)



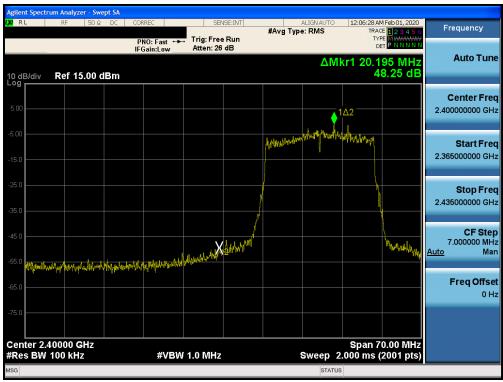
Plot 7-90. Band Edge SISO CORE 1 (802.11ax OFDMA - RU26 Index 8 - Ch. 12)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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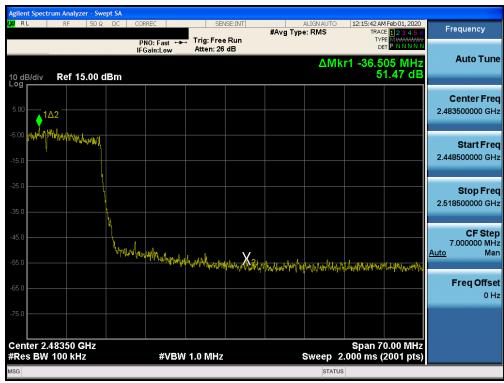
Plot 7-91. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 1)



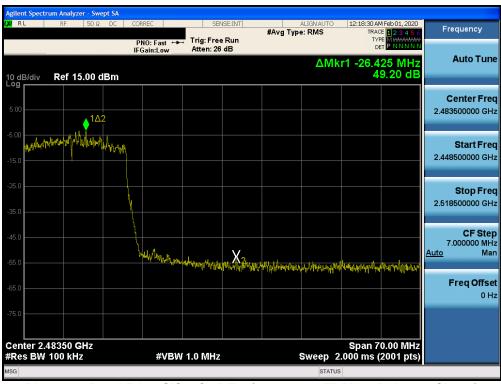
Plot 7-92. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 2)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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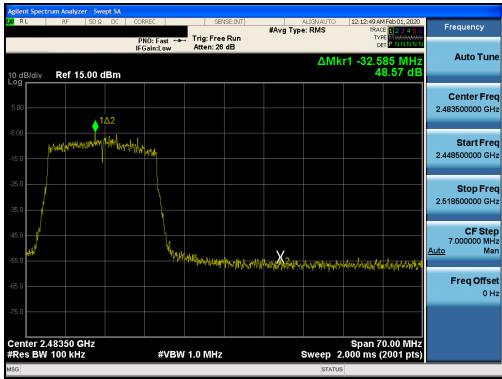
Plot 7-93. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 9)



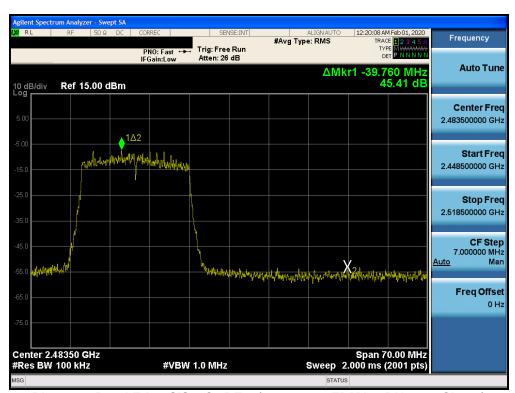
Plot 7-94. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 10)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-95. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 11)



Plot 7-96. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 12)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates, RU configurations, and RU indices were investigated to determine the worst case configuration. For the following out of band conducted emissions plots, the EUT was set to a data rate of MCS0 in 802.11ax mode as this setting produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05r01.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3 KDB 558074 D01 v05 – Section 8.5 ANSI C63.10-2013 – Section 14.3.3 KDB 662911 D01 v02r01 – Section E)3)b)

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- 2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
- 4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.
- 5. All antenna configurations were investigated and only the worst case is reported.
- 6. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's were reported.

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SISO Core 0 Conducted Spurious Emission



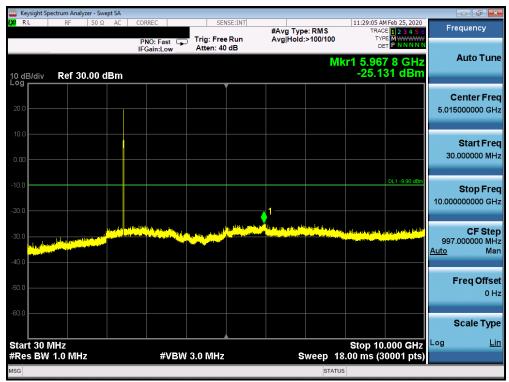
Plot 7-97. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 1)



Plot 7-98. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 1)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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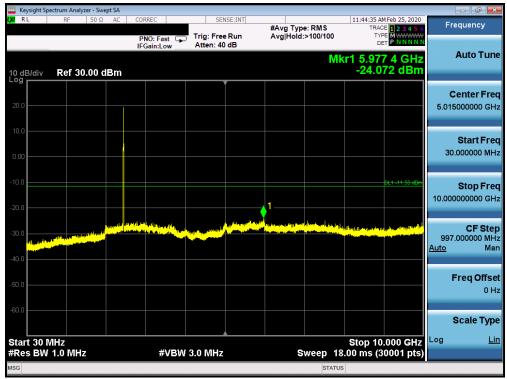
Plot 7-99. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 6)



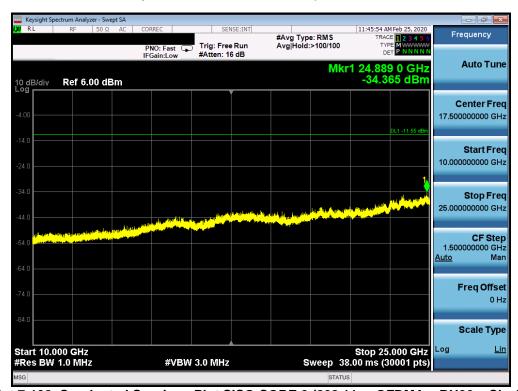
Plot 7-100. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 6)

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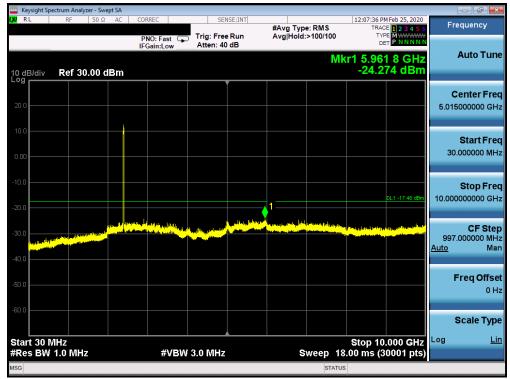
Plot 7-101. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 11)



Plot 7-102. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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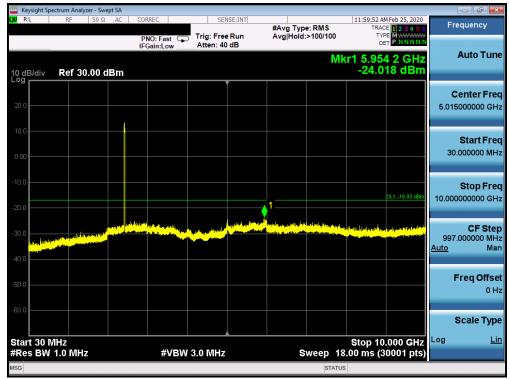
Plot 7-103. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 1)



Plot 7-104. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 1)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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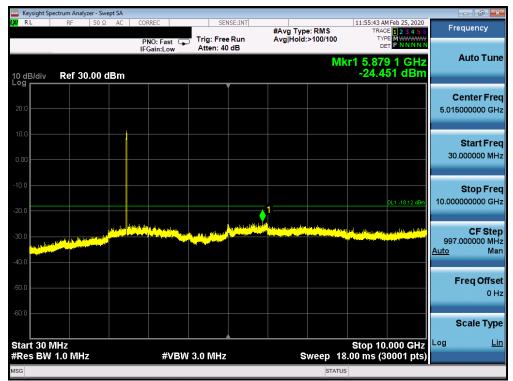
Plot 7-105. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 6)



Plot 7-106. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 6)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-107. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 11)

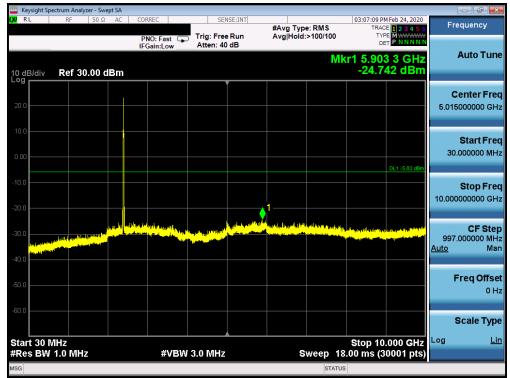


Plot 7-108. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 11)

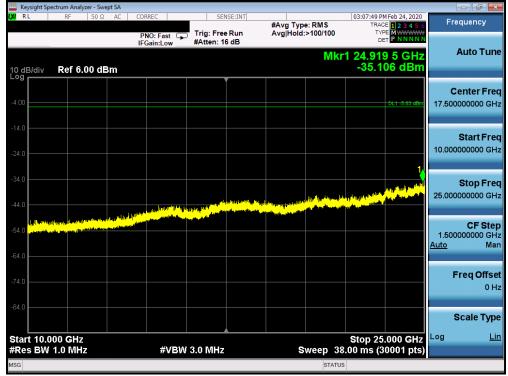
FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Core 1 Conducted Spurious Emissions



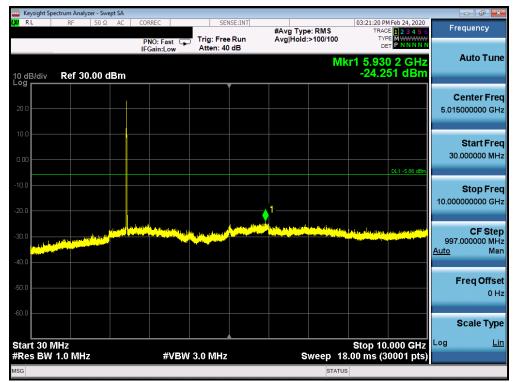
Plot 7-109. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 1)



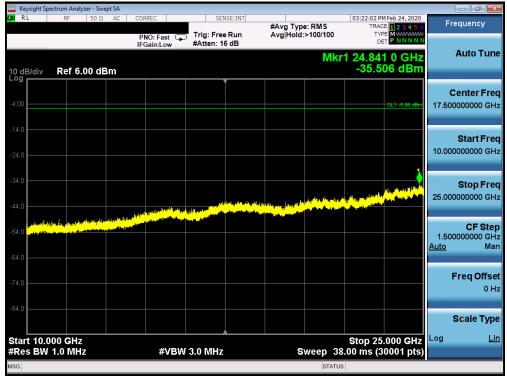
Plot 7-110. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 1)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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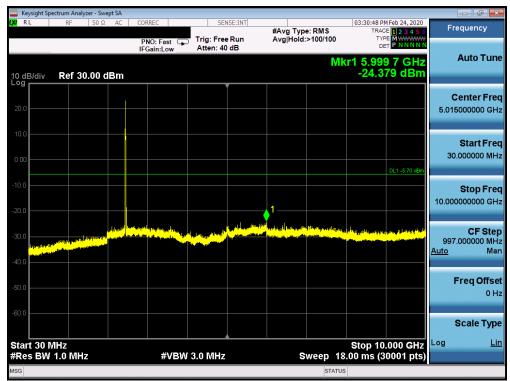
Plot 7-111. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 6)



Plot 7-112. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 6)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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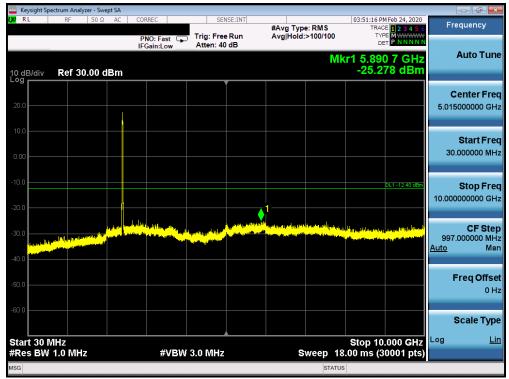
Plot 7-113. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 11)



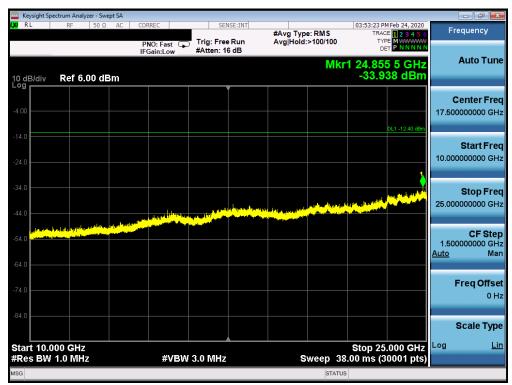
Plot 7-114. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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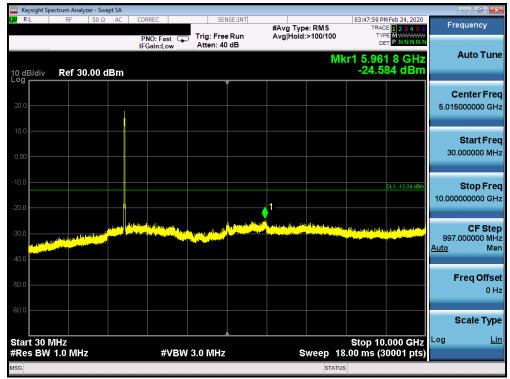
Plot 7-115. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 1)



Plot 7-116. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 1)

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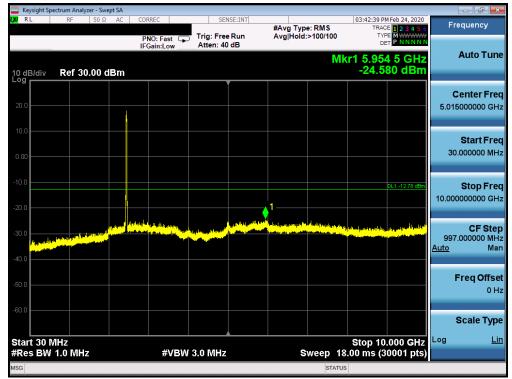
Plot 7-117. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 6)



Plot 7-118. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 6)

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Plot 7-119. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 11)



Plot 7-120. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 11)

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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 > 2 x 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.

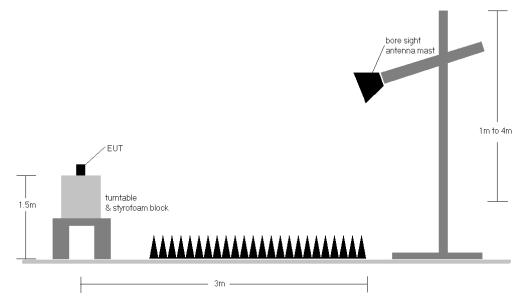


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

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

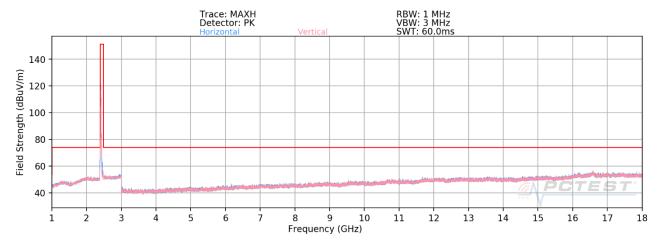
Radiated Band Edge Measurement Offset

- 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

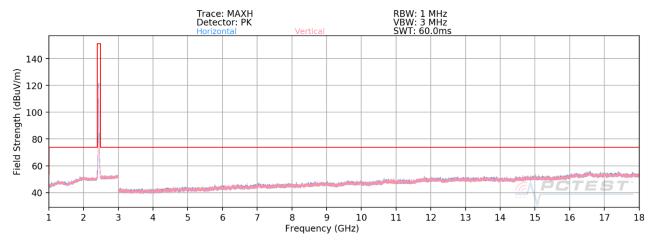
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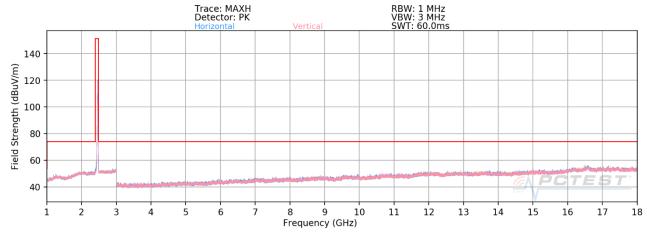
7.7.1 SISO Core 0 Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-121. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 1)



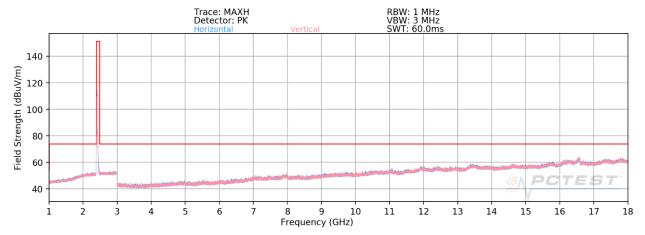
Plot 7-122. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 6)



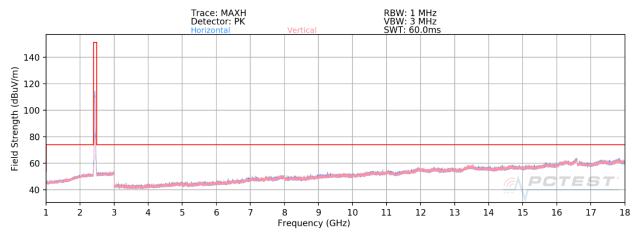
Plot 7-123. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 11)

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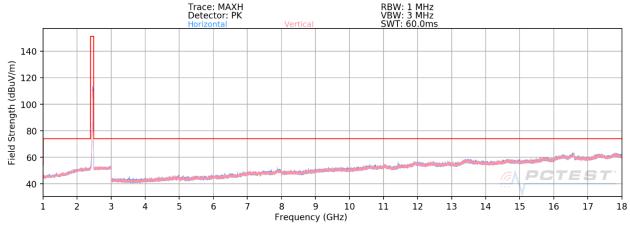




Plot 7-124. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA – RU242 – Ch. 1)



Plot 7-125. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 6)



Plot 7-126. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 11)

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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:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

4

3 Meters

2412MHz

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	Н	-	-	-79.62	9.29	36.67	53.98	-17.31
4824.00	Peak	Н	-	-	-68.42	9.29	47.87	73.98	-26.11
12060.00	Avg	Н	-	-	-82.19	21.39	46.20	53.98	-7.78
12060.00	Peak	Н	-	-	-70.44	21.39	57.95	73.98	-16.03

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

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

4

3 Meters

2437MHz

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	Н	-	-	-79.68	9.26	36.58	53.98	-17.40
4874.00	Peak	Н	-	-	-68.24	9.26	48.02	73.98	-25.96
7311.00	Avg	Н	-	-	-81.35	13.78	39.43	53.98	-14.55
7311.00	Peak	Н	-	-	-69.99	13.78	50.79	73.98	-23.19
12185.00	Avg	Н	-	-	-82.13	21.36	46.23	53.98	-7.75
12185.00	Peak	Н	-	-	-71.34	21.36	57.02	73.98	-16.96

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

FCC ID: BCGA2232	PCTEST	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 07 of 125
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Worst Case Mode: 802.11ax OFDMA Worst Case Transfer Rate: MCS0 4 RU Index: 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	Н	-	-	-79.98	8.98	36.00	53.98	-17.98
4924.00	Peak	Н	-	-	-68.19	8.98	47.79	73.98	-26.19
7386.00	Avg	Н	-	-	-81.91	14.01	39.10	53.98	-14.88
7386.00	Peak	Н	-	-	-70.92	14.01	50.09	73.98	-23.89
12310.00	Avg	Н	-	-	-82.66	21.79	46.13	53.98	-7.85
12310.00	Peak	Н	-	-	-71.56	21.79	57.23	73.98	-16.75

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	Н	-	-	-82.50	9.29	33.79	53.98	-20.19
4824.00	Peak	Н	-	-	-70.82	9.29	45.47	73.98	-28.51
12060.00	Avg	Н	-	-	-84.53	21.39	43.86	53.98	-10.12
12060.00	Peak	Н	-	-	-72.98	21.39	55.41	73.98	-18.57

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

FCC ID: BCGA2232	PCTEST	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 98 of 135
1C1912170055-07.BCG	12/10/2019 - 02/26/2020	Tablet Device	rage 90 01 135

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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	Н	-	-	-81.81	9.26	34.45	53.98	-19.53
4874.00	Peak	Н	-	-	-70.79	9.26	45.47	73.98	-28.51
7311.00	Avg	Н	-	-	-83.40	13.78	37.38	53.98	-16.60
7311.00	Peak	Н	-	-	-72.47	13.78	48.31	73.98	-25.67
12185.00	Avg	Н	-	-	-84.18	21.36	44.18	53.98	-9.80
12185.00	Peak	Н	-	-	-73.11	21.36	55.25	73.98	-18.73

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	Н	-	-	-81.80	8.98	34.18	53.98	-19.80
4924.00	Peak	Н	-	-	-70.90	8.98	45.08	73.98	-28.90
7386.00	Avg	Н	-	-	-83.88	14.01	37.13	53.98	-16.85
7386.00	Peak	Н	-	-	-72.52	14.01	48.49	73.98	-25.49
12310.00	Avg	Н	-	-	-84.79	21.79	44.00	53.98	-9.98
12310.00	Peak	Н	-	-	-76.79	21.79	52.00	73.98	-21.98

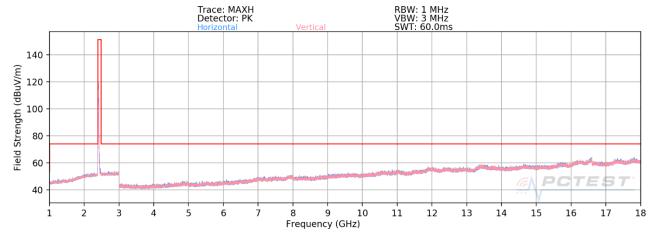
Table 7-25. Radiated Measurements SISO CORE 0 (RU242)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 00 of 125		
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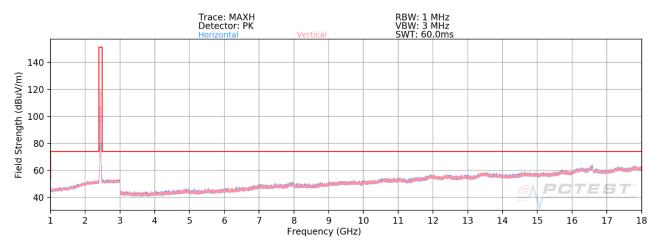


7.7.2 SISO Core 1 Radiated Spurious Emission Measurements

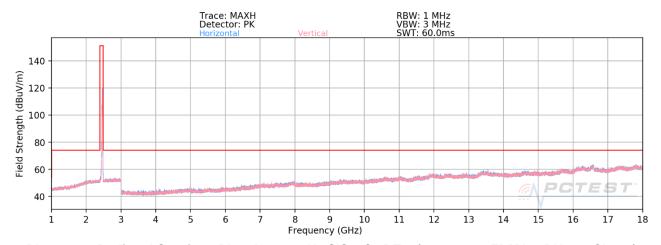
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-127. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 1)



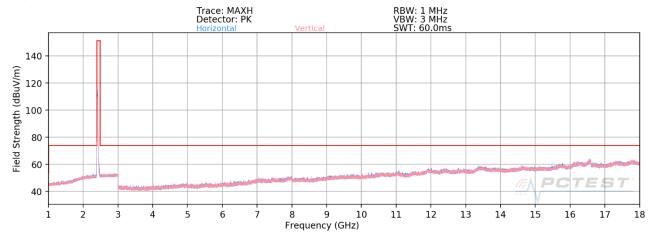
Plot 7-128. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 6)



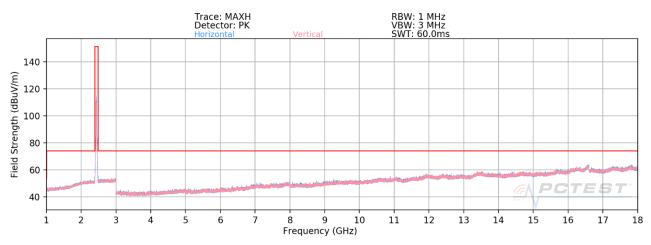
Plot 7-129. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2232	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 100 of 125
1C1912170055-07.BCG	12/10/2019 - 02/26/2020	Tablet Device	Page 100 of 135
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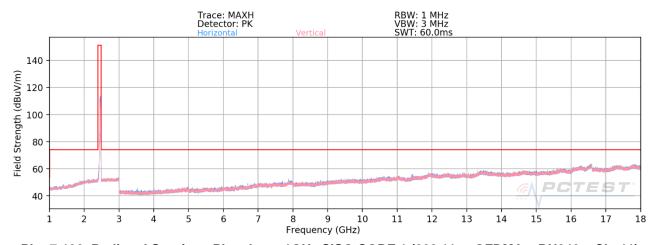




Plot 7-130. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 1)



Plot 7-131. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 6)



Plot 7-132. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 11)

FCC ID: BCGA2232	PCTEST	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 101 of 125
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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:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

4

3 Meters

2412MHz

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	Н	-	-	-82.10	9.29	34.19	53.98	-19.79
4824.00	Peak	Н	-	-	-70.57	9.29	45.72	73.98	-28.26
12060.00	Avg	Н	-	-	-84.40	21.39	43.99	53.98	-9.99
12060.00	Peak	Н	-	-	-72.82	21.39	55.57	73.98	-18.41

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

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

4

2437MHz

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	Η	ı	-	-81.88	9.26	34.38	53.98	-19.60
4874.00	Peak	Н	-	-	-69.97	9.26	46.29	73.98	-27.69
7311.00	Avg	Н	-	-	-83.60	13.78	37.18	53.98	-16.80
7311.00	Peak	Н	-	-	-72.05	13.78	48.73	73.98	-25.25
12185.00	Avg	Н	-	-	-84.26	21.36	44.10	53.98	-9.88
12185.00	Peak	Н	ı	-	-72.89	21.36	55.47	73.98	-18.51

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

FCC ID: BCGA2232	PCTEST	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 102 of 125
1C1912170055-07.BCG	12/10/2019 - 02/26/2020	Tablet Device	Page 102 of 135



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	Н	-	-	-82.18	8.98	33.80	53.98	-20.18
4924.00	Peak	Н	-	-	-70.60	8.98	45.38	73.98	-28.60
7386.00	Avg	Н	-	-	-83.95	14.01	37.06	53.98	-16.92
7386.00	Peak	Н	-	-	-72.95	14.01	48.06	73.98	-25.92
12310.00	Avg	Н	-	-	-84.79	21.79	44.00	53.98	-9.98
12310.00	Peak	Н	1	-	-73.24	21.79	55.55	73.98	-18.43

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

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

61

3 Meters

2412MHz

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	Н	-	-	-82.20	9.29	34.09	53.98	-19.89
4824.00	Peak	Н	-	-	-70.92	9.29	45.37	73.98	-28.61
12060.00	Avg	Н	-	-	-84.63	21.39	43.76	53.98	-10.22
12060.00	Peak	Н	-	-	-72.92	21.39	55.47	73.98	-18.51

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

FCC ID: BCGA2232	PCTEST	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 102 of 125
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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	Н	-	-	-81.91	9.26	34.35	53.98	-19.63
4874.00	Peak	Н	-	-	-70.76	9.26	45.50	73.98	-28.48
7311.00	Avg	Н	-	-	-83.44	13.78	37.34	53.98	-16.64
7311.00	Peak	Н	-	-	-72.46	13.78	48.32	73.98	-25.66
12185.00	Avg	Н	-	-	-84.20	21.36	44.16	53.98	-9.82
12185.00	Peak	Н	-	-	-73.01	21.36	55.35	73.98	-18.63

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	Н	-	-	-81.76	8.98	34.22	53.98	-19.76
4924.00	Peak	Н	-	-	-70.77	8.98	45.21	73.98	-28.77
7386.00	Avg	Н	-	-	-83.82	14.01	37.19	53.98	-16.79
7386.00	Peak	Н	-	-	-72.62	14.01	48.39	73.98	-25.59
12310.00	Avg	Н	-	-	-84.73	21.79	44.06	53.98	-9.92
12310.00	Peak	Н	-	-	-76.69	21.79	52.10	73.98	-21.88

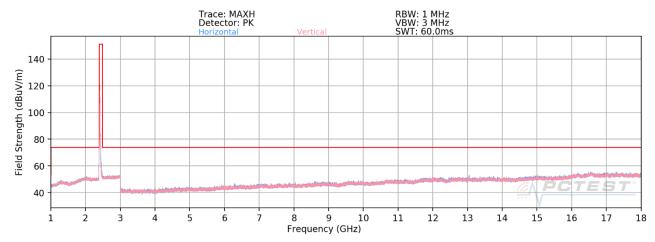
Table 7-31. Radiated Measurements SISO CORE 1 (RU242)

FCC ID: BCGA2232	PCTEST	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 104 of 125
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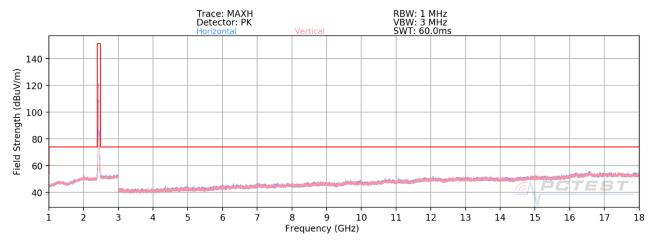
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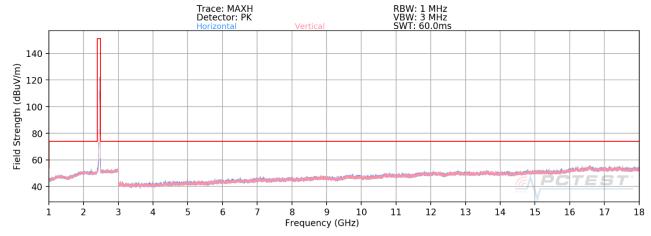
7.7.3 CDD Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-133. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU26 - Ch. 1)



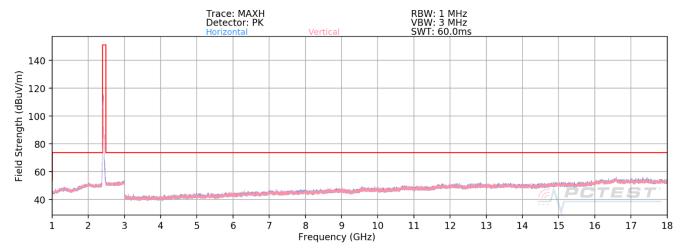
Plot 7-134. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU26 - Ch. 6)



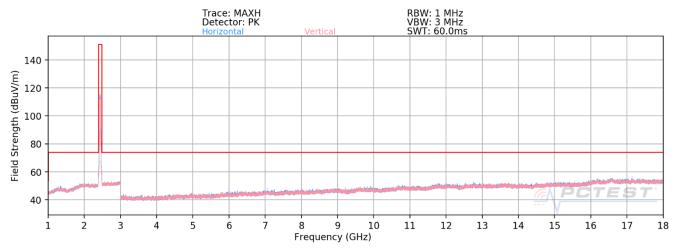
Plot 7-135. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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1C1912170055-07.BCG	12/10/2019 - 02/26/2020	Tablet Device	Page 105 of 135
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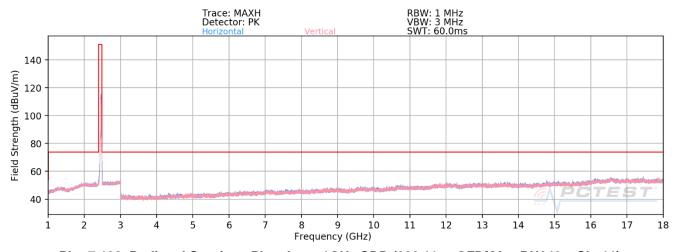




Plot 7-136. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU242 - Ch. 1)



Plot 7-137. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU242 - Ch. 6)

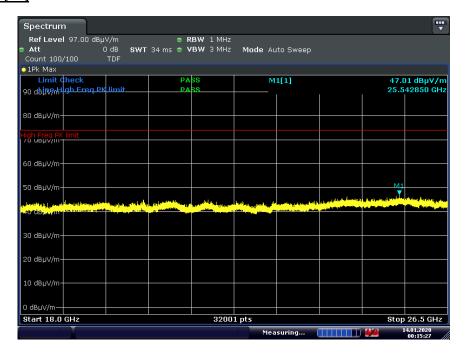


Plot 7-138. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU242 - Ch. 11)

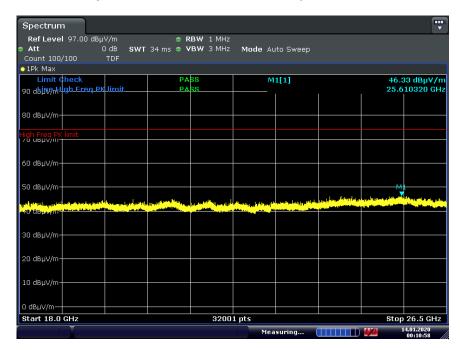
FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 100 of 125
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CDD Radiated Spurious Emissions Measurements (Above 18GHz) §15.209; RSS-Gen [8.9]



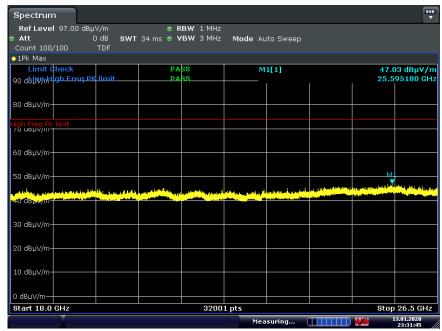
Plot 7-139. Radiated Spurious Plot above 18GHz CDD (802.11ax OFDMA - RU26, Pol. H)



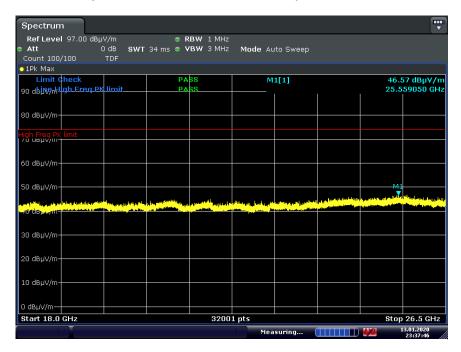
Plot 7-140. Radiated Spurious Plot above 18GHz CDD (802.11ax OFDMA - RU26, Pol. V)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 107 of 125
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Plot 7-141. Radiated Spurious Plot above 18GHz CDD (802.11ax OFDMA - RU242. Pol. H)



lot 7-142. Radiated Spurious Plot above 18GHz CDD (802.11ax OFDMA - RU242, Pol. V)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 108 of 135
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CDD Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

4

3 Meters

2412MHz

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	Н	102	300	-76.97	9.29	39.32	53.98	-14.66
4824.00	Peak	Н	102	300	-66.15	9.29	50.14	73.98	-23.84
12060.00	Avg	Н	-	-	-82.43	21.39	45.96	53.98	-8.02
12060.00	Peak	Н	-	-	-70.95	21.39	57.44	73.98	-16.54

Table 7-32. Radiated Measurements CDD (RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

4

2437MHz

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	Н	-	-	-79.95	9.26	36.31	53.98	-17.67
4874.00	Peak	Н	-	-	-68.58	9.26	47.68	73.98	-26.30
7311.00	Avg	Н	-	-	-81.32	13.78	39.46	53.98	-14.52
7311.00	Peak	Н	-	-	-70.31	13.78	50.47	73.98	-23.51
12185.00	Avg	Н	-	-	-82.38	21.36	45.98	53.98	-8.00
12185.00	Peak	Н	-	-	-71.52	21.36	56.84	73.98	-17.14

Table 7-33. Radiated Measurements CDD (RU26)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:	Dogg 400 of 425			
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Worst Case Mode: 802.11ax OFDMA Worst Case Transfer Rate: MCS0 4 RU Index: 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	Н	-	-	-79.97	8.98	36.01	53.98	-17.97
4924.00	Peak	Н	-	-	-68.58	8.98	47.40	73.98	-26.58
7386.00	Avg	Н	-	-	-81.90	14.01	39.11	53.98	-14.87
7386.00	Peak	Н	-	-	-70.68	14.01	50.33	73.98	-23.65
12310.00	Avg	Н	-	-	-83.05	21.79	45.74	53.98	-8.24
12310.00	Peak	Н	-	-	-72.35	21.79	56.44	73.98	-17.54

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	Н	-	-	-79.66	9.29	36.63	53.98	-17.35
4824.00	Peak	Н	-	-	-67.93	9.29	48.36	73.98	-25.62
12060.00	Avg	Н	-	-	-82.24	21.39	46.15	53.98	-7.83
12060.00	Peak	Н	-	-	-70.88	21.39	57.51	73.98	-16.47

Table 7-35. Radiated Measurements CDD (RU242)

FCC ID: BCGA2232	PCTEST	MENOSICEMENT INC. OIC		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 110 of 125	
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

61

3 Meters

2437MHz

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	Н	-	-	-79.74	9.26	36.52	53.98	-17.46
4874.00	Peak	Н	-	-	-67.53	9.26	48.73	73.98	-25.25
7311.00	Avg	Н	-	-	-81.22	13.78	39.56	53.98	-14.42
7311.00	Peak	Н	-	-	-69.80	13.78	50.98	73.98	-23.00
12185.00	Avg	Н	-	-	-82.29	21.36	46.07	53.98	-7.91
12185.00	Peak	Н	-	-	-71.21	21.36	57.15	73.98	-16.83

Table 7-36. Radiated Measurements CDD (RU242)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

61

3 Meters

2462MHz

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	Н	-	-	-80.08	8.98	35.90	53.98	-18.08
4924.00	Peak	Н	-	-	-68.50	8.98	47.48	73.98	-26.50
7386.00	Avg	Н	-	-	-81.92	14.01	39.09	53.98	-14.89
7386.00	Peak	Н	-	-	-70.22	14.01	50.79	73.98	-23.19
12310.00	Avg	Н	-	-	-82.31	21.79	46.48	53.98	-7.50
12310.00	Peak	Н	-	-	-70.69	21.79	58.10	73.98	-15.88

Table 7-37. Radiated Measurements CDD (RU242)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 444 of 405		
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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:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

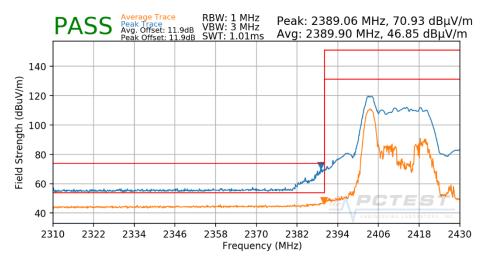
802.11ax OFDMA

MCS0

0

3 Meters

2412MHz



Plot 7-143. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 (Peak & Average) - RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

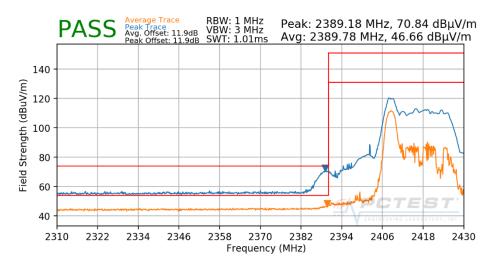
MCS0

0

3 Meters

2417MHz

2



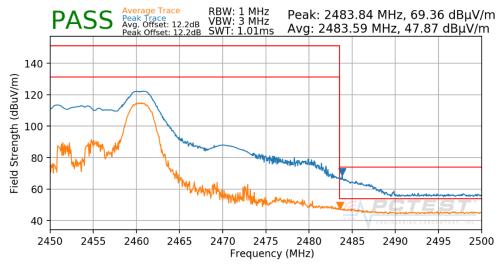
Plot 7-144. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 (Peak & Average) - RU26)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 442 of 425
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS0
8
3 Meters
2452MHz



Plot 7-145. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average) - RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

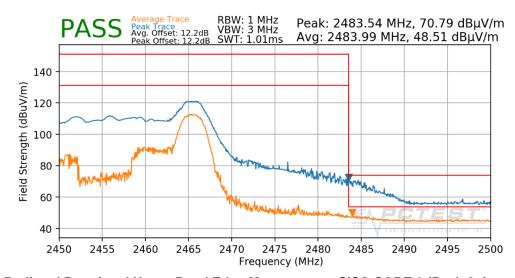
MCS0

8

3 Meters

2457MHz

10



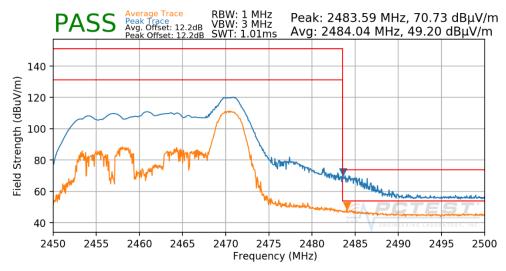
Plot 7-146. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average) - RU26)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 442 of 425
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS0
8
3 Meters
2462MHz
11



Plot 7-147. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average) - RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

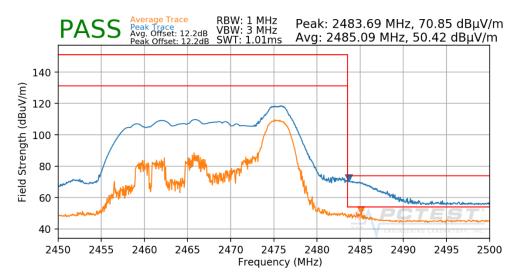
MCS0

8

3 Meters

2467MHz

12



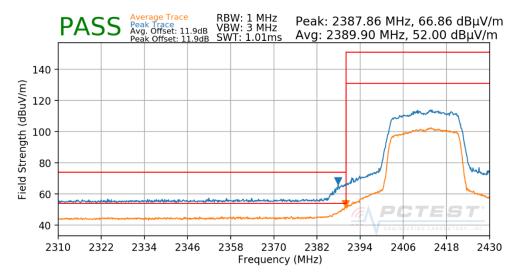
Plot 7-148. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average) - RU26)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 444 of 425
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

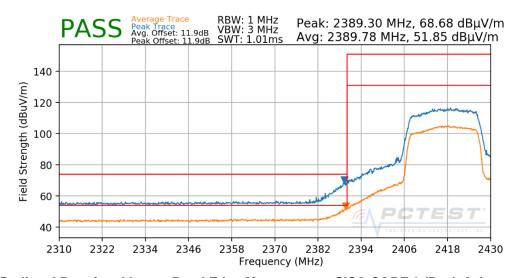
802.11ax OFDMA
MCS0
61
3 Meters
2412MHz



Plot 7-149. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 (Peak & Average) – RU242)

Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS0
61
3 Meters
2417MHz
2



Plot 7-150. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 (Peak & Average) – RU242)

FCC ID: BCGA2232	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 115 of 125
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