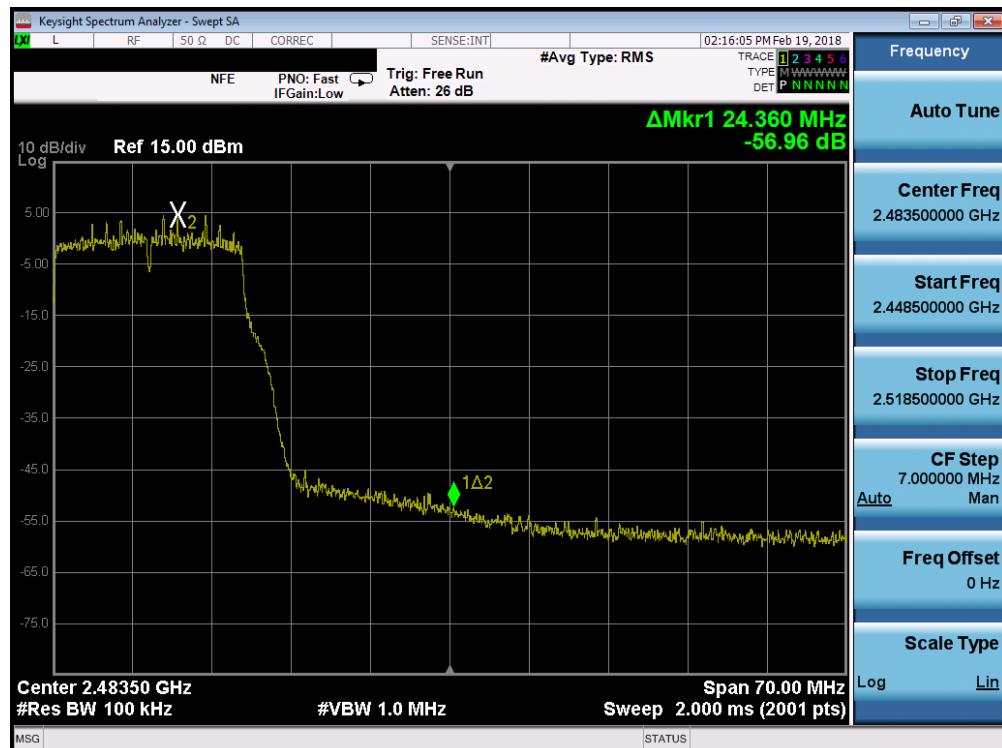
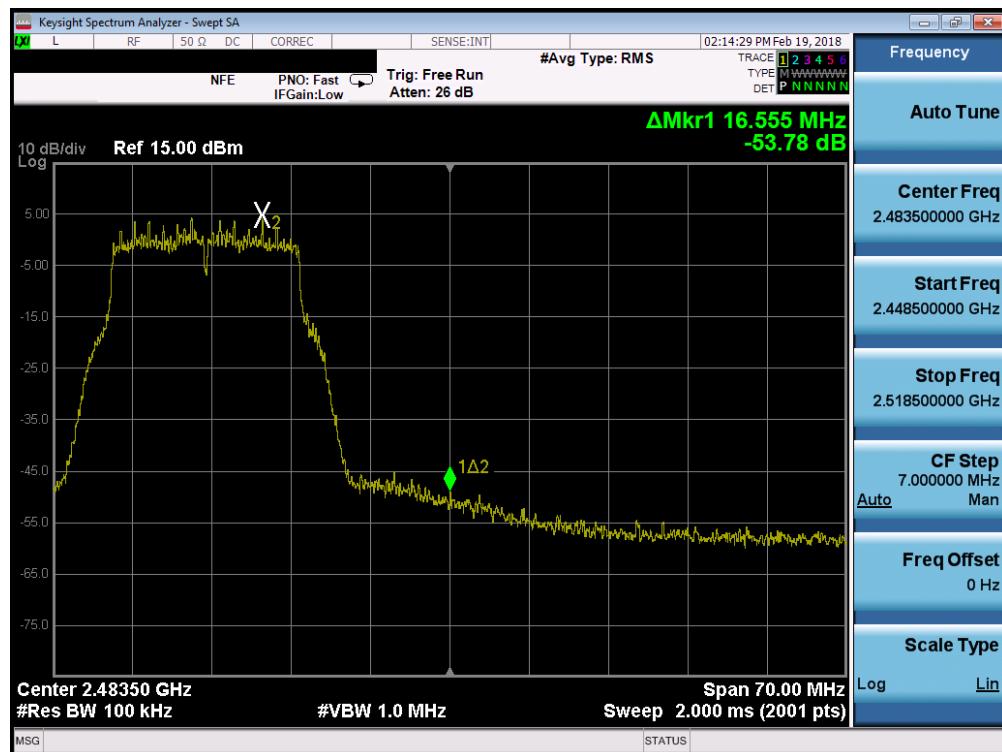


Plot 7-118. Band Edge Plot MIMO ANT1 (802.11g – Ch. 10)

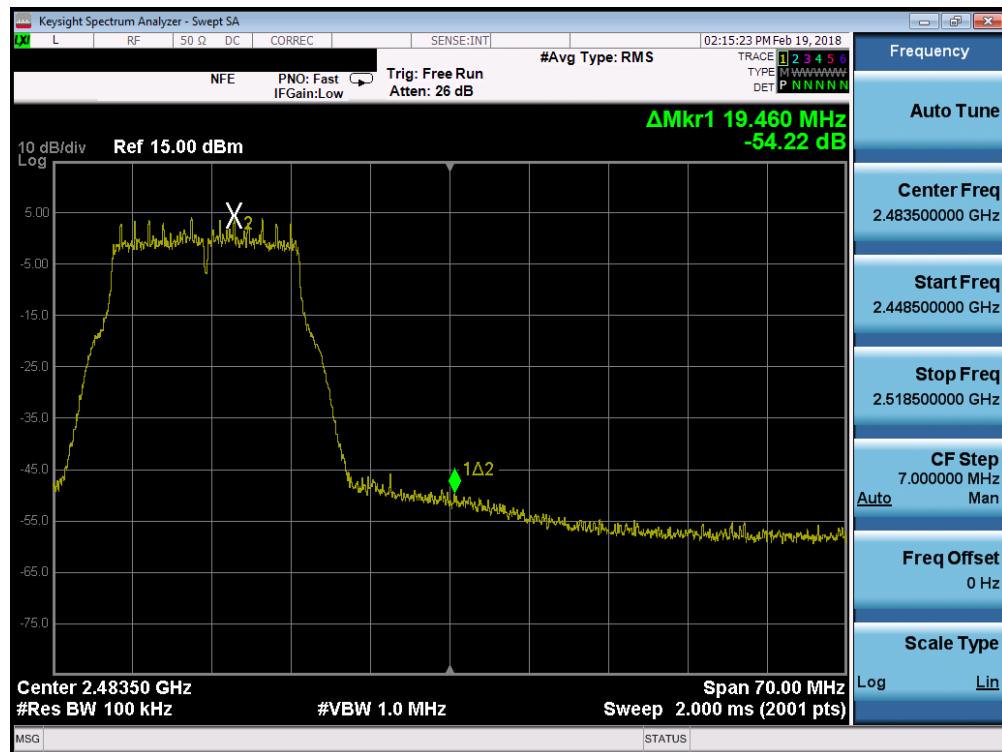


Plot 7-119. Band Edge Plot MIMO ANT2 (802.11g – Ch. 10)

FCC ID: BCGA1893	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 86 of 173

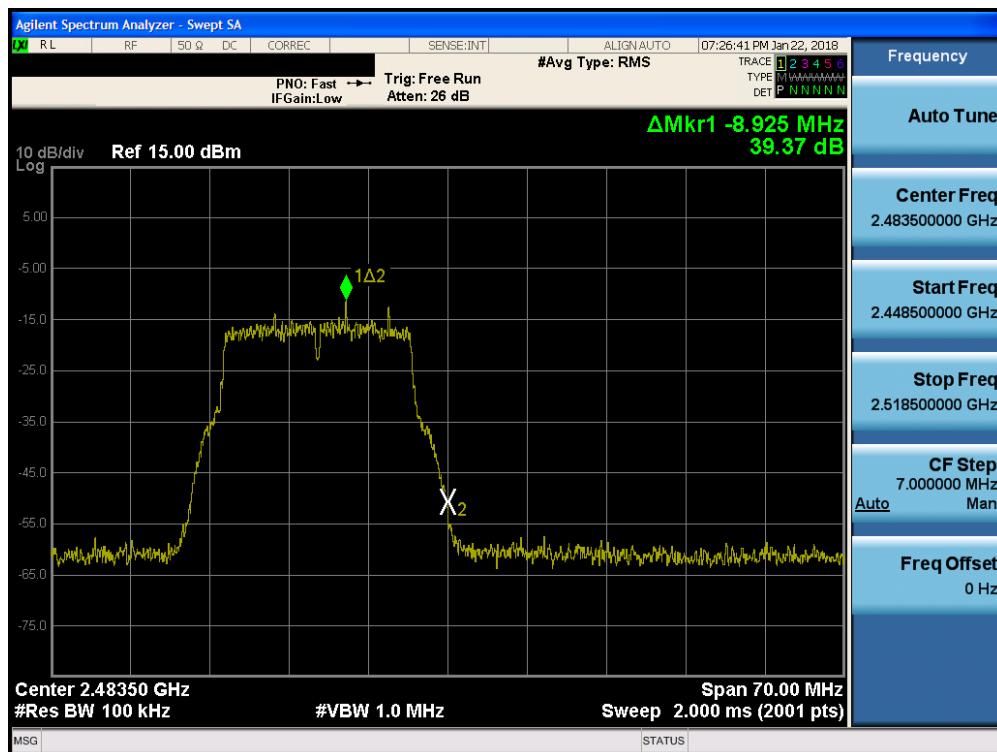


Plot 7-120. Band Edge Plot MIMO ANT1 (802.11g- Ch. 11)

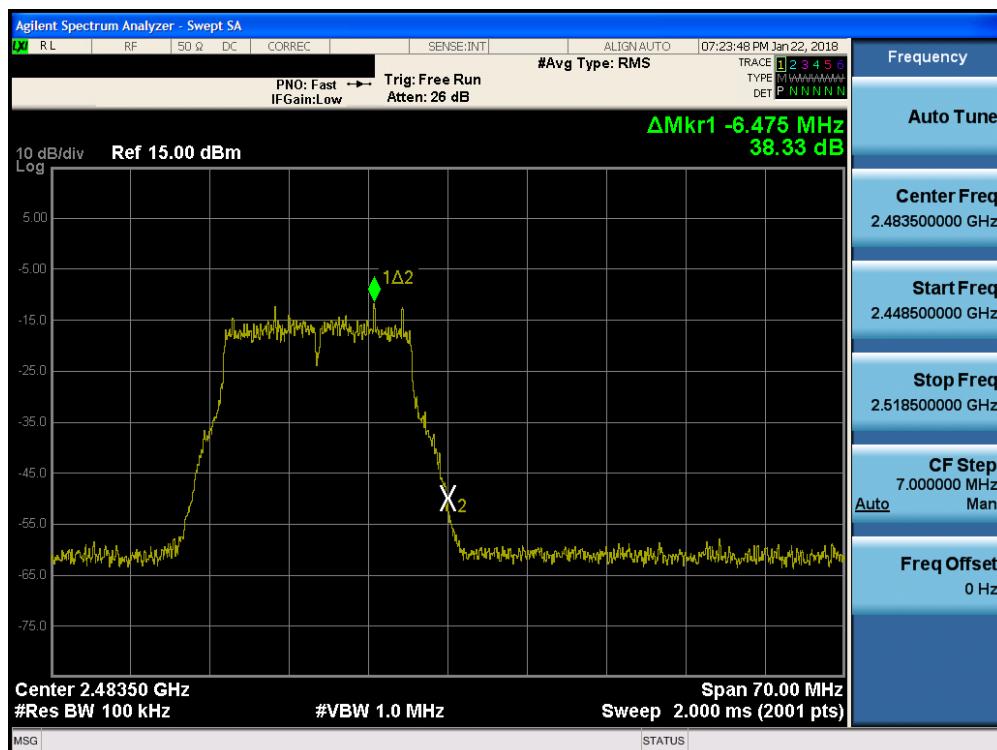


Plot 7-121. Band Edge Plot MIMO ANT2 (802.11g- Ch. 11)

FCC ID: BCGA1893	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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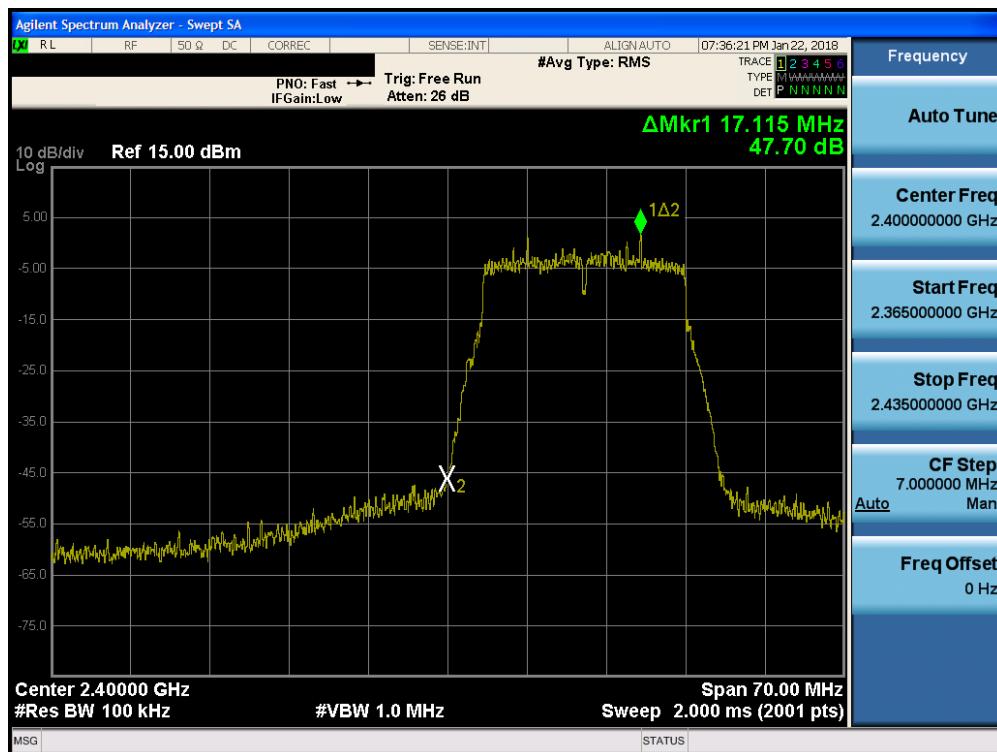


Plot 7-122. Band Edge Plot MIMO ANT1 (802.11g – Ch. 13)

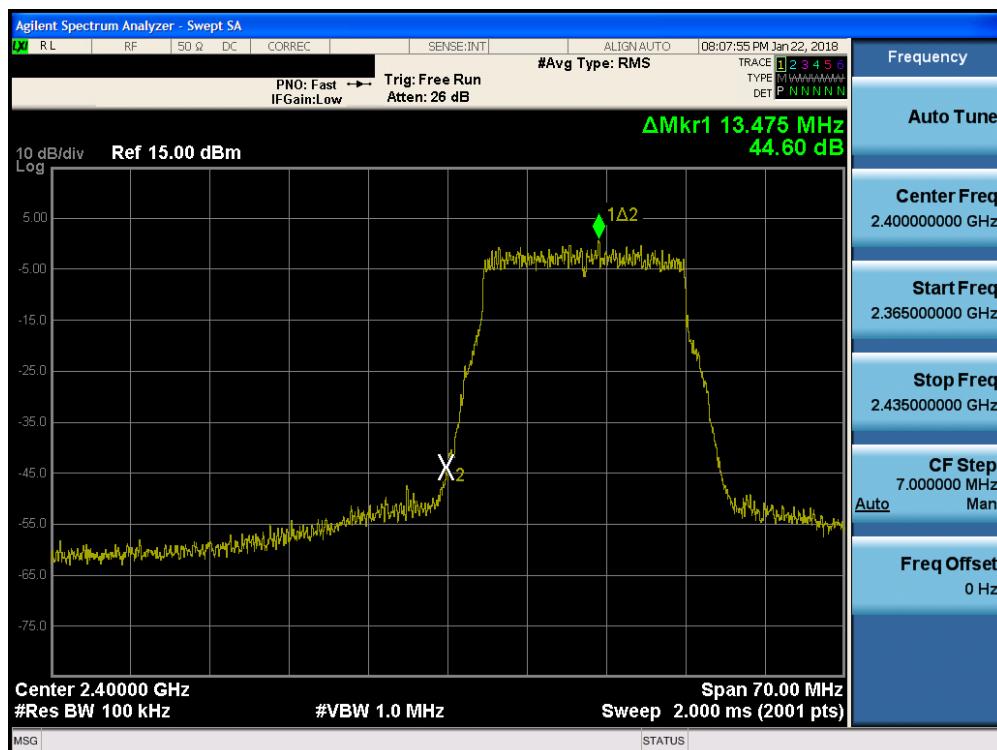


Plot 7-123. Band Edge Plot MIMO ANT2 (802.11g – Ch. 13)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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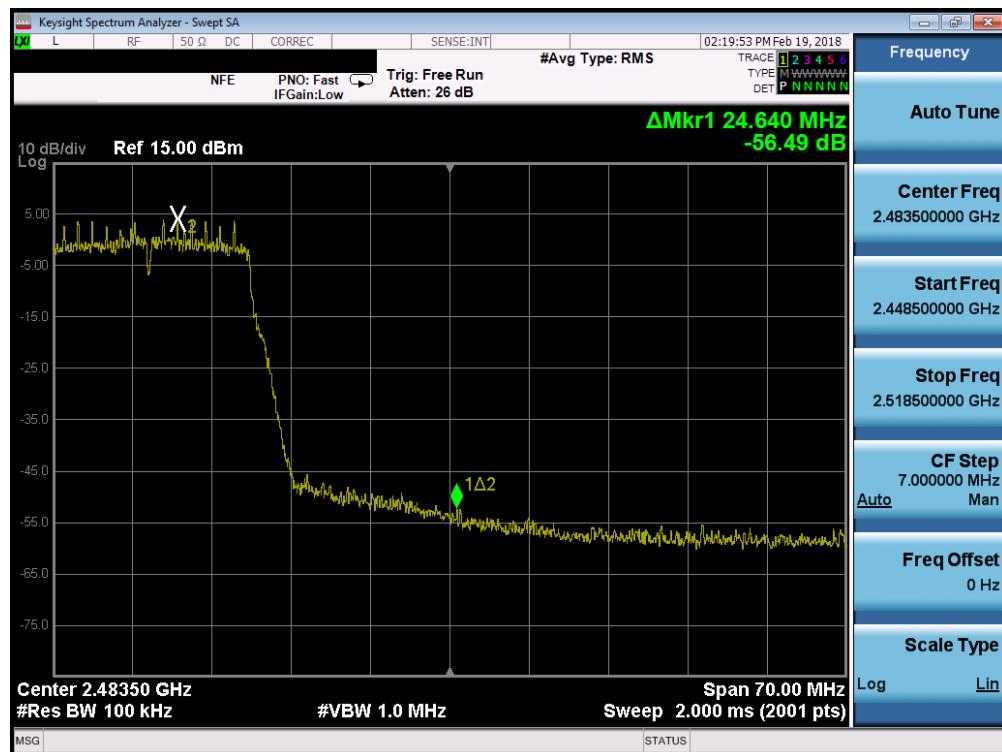


Plot 7-124. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 1)

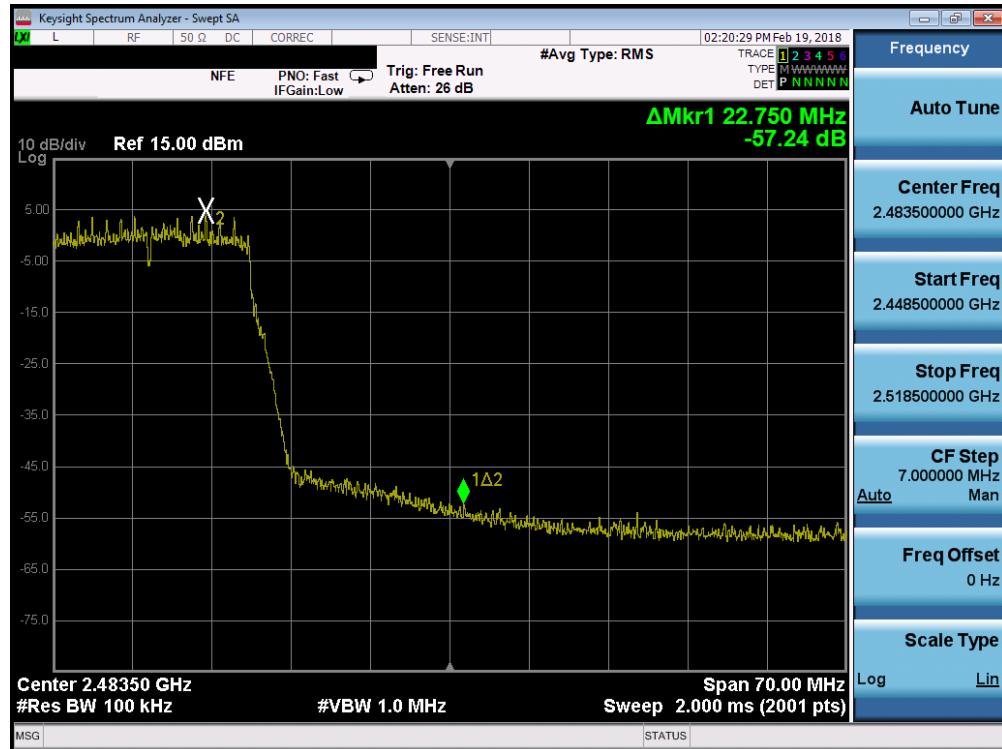


Plot 7-125. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 1)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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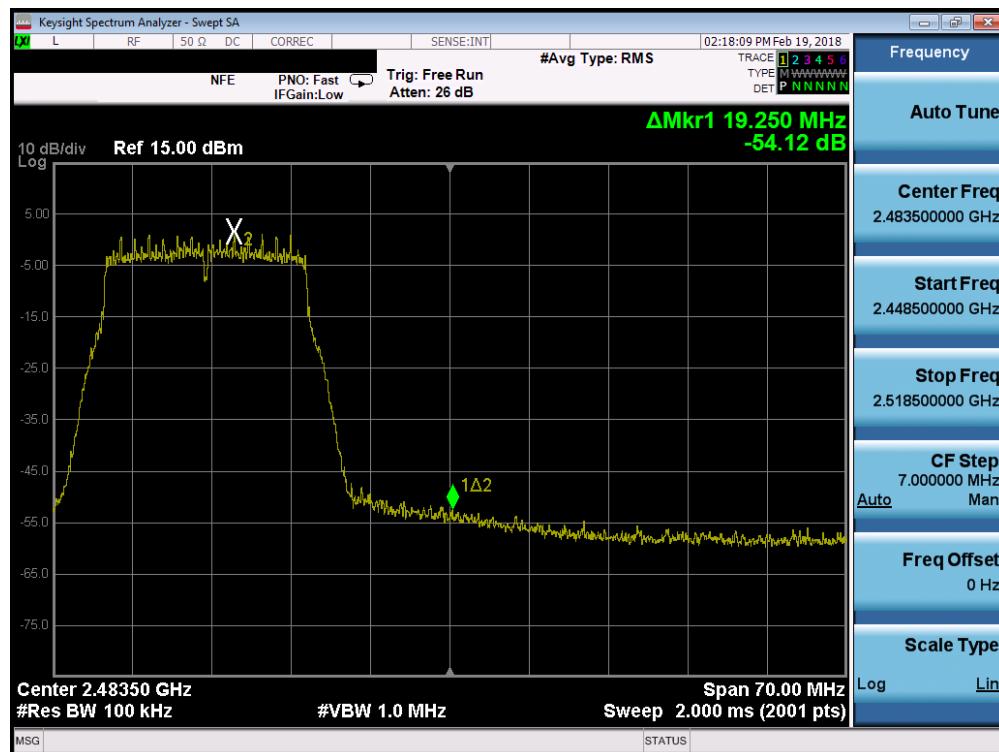


Plot 7-126. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 10)

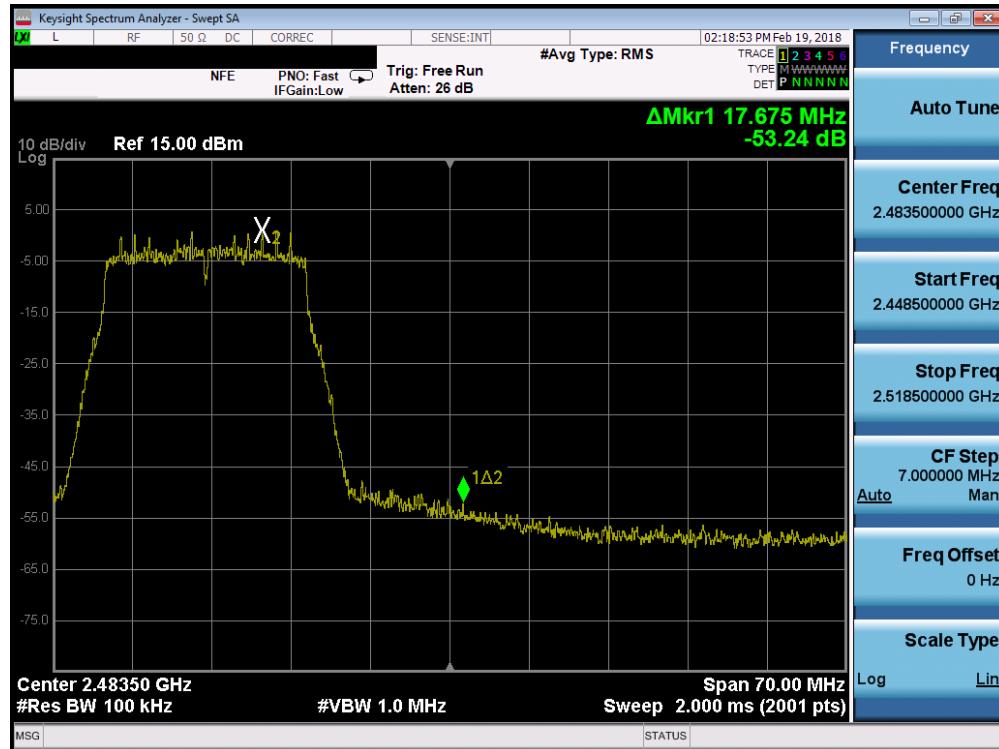


Plot 7-127. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 10)

FCC ID: BCGA1893	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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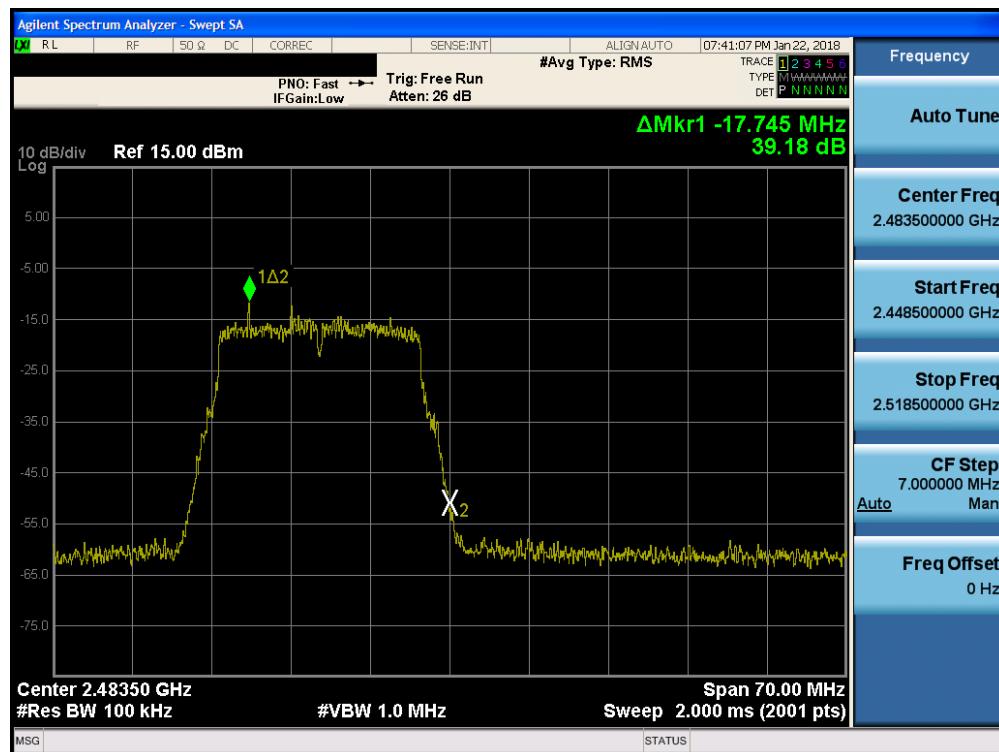


Plot 7-128. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 11)

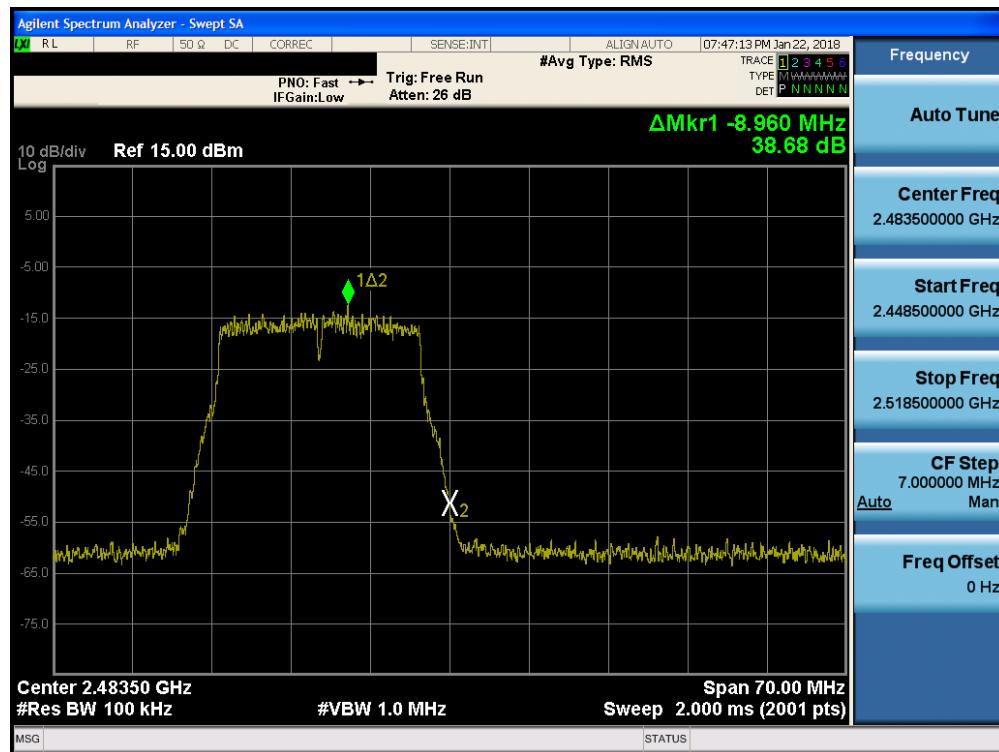


Plot 7-129. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 11)

FCC ID: BCGA1893	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-130. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 13)



Plot 7-131. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 13)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	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 were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for "b", "g", and "n" modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in "b" mode at 1 Mbps and are shown in the plots below.

**The limit for out-of-band spurious emissions at the band edge is N/AdB 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 v04.**

### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
 KDB 558074 D01 v04 – Section 11.3  
 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**

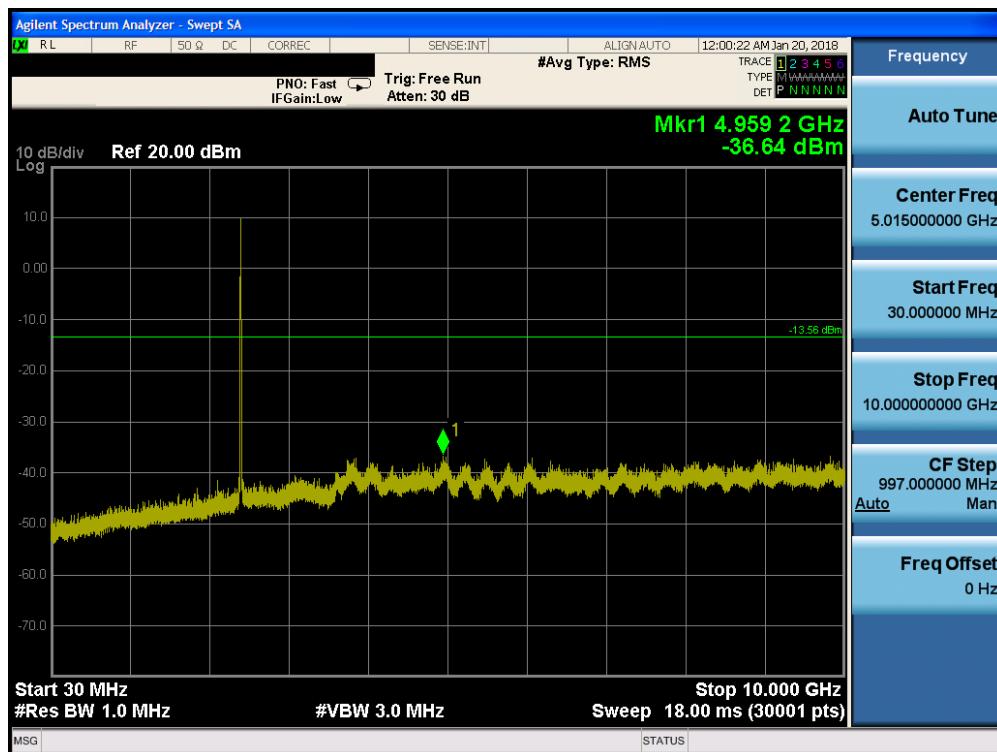
FCC ID: BCGA1893	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 93 of 173

## Test Notes

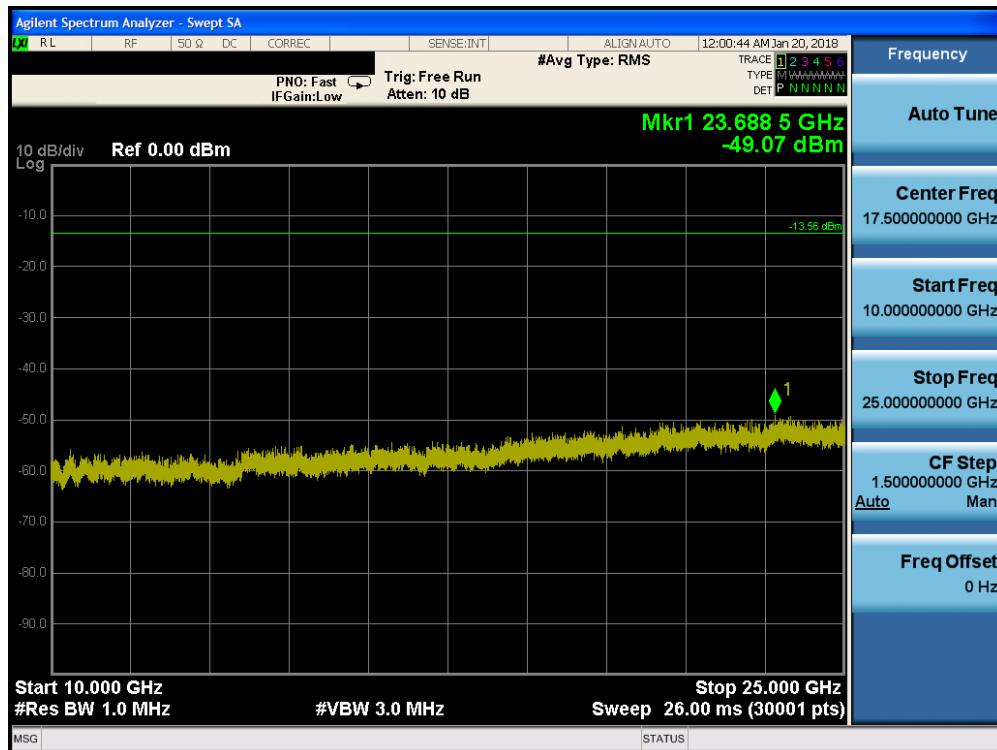
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at N/AdB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be N/AdB 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.

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## Antenna-1 Conducted Spurious Emission

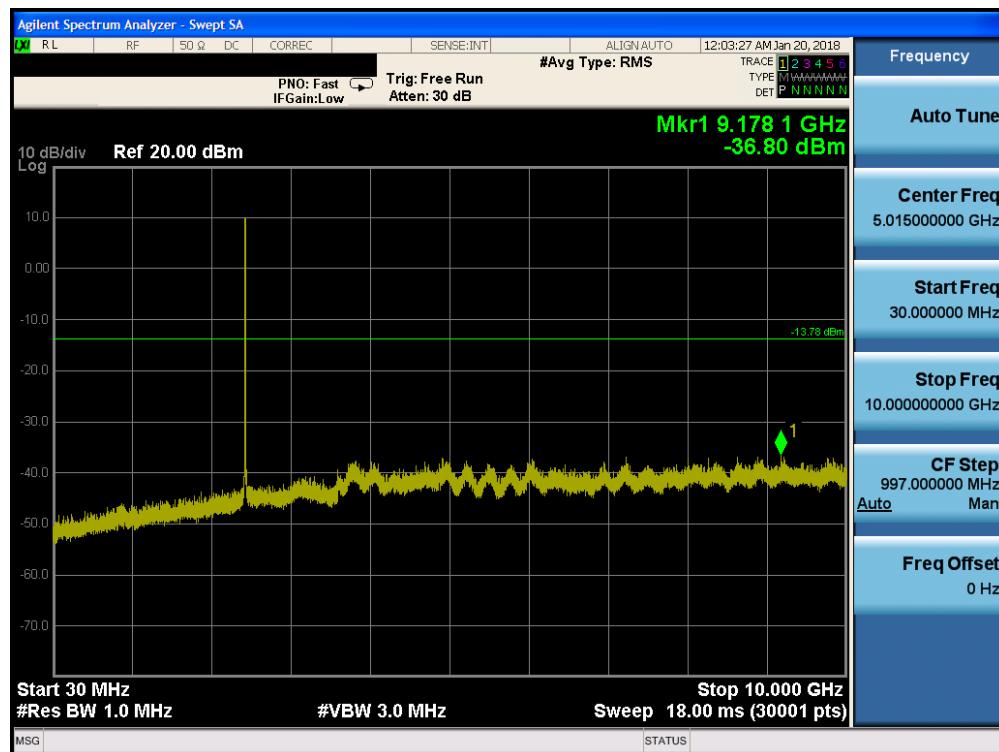


Plot 7-132. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 1)

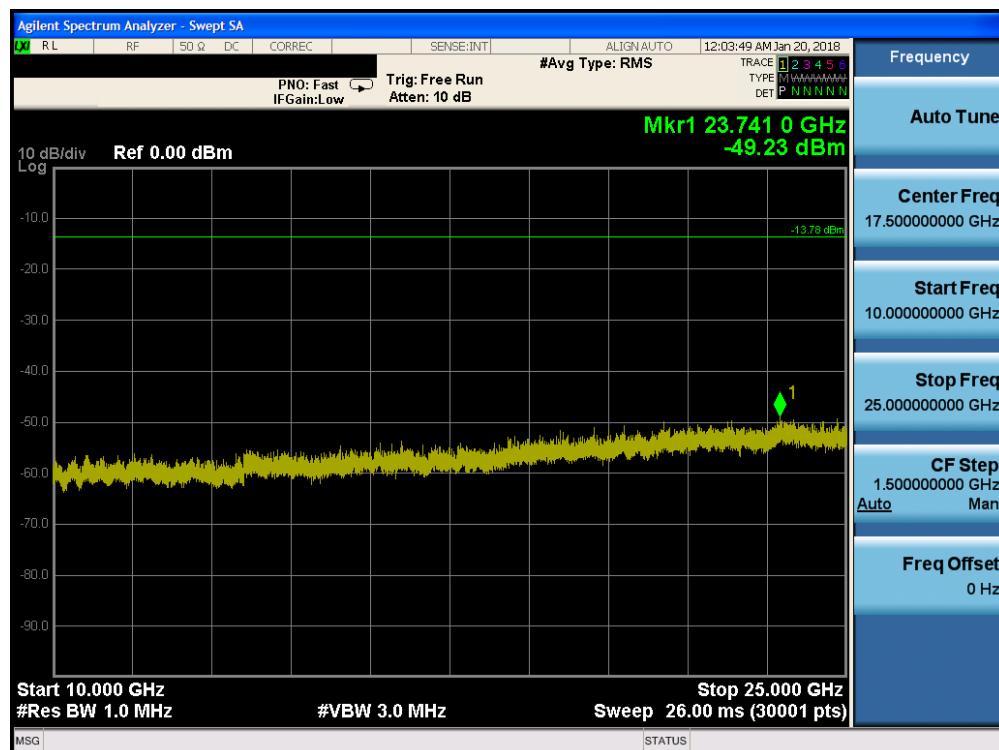


Plot 7-133. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 1)

FCC ID: BCGA1893	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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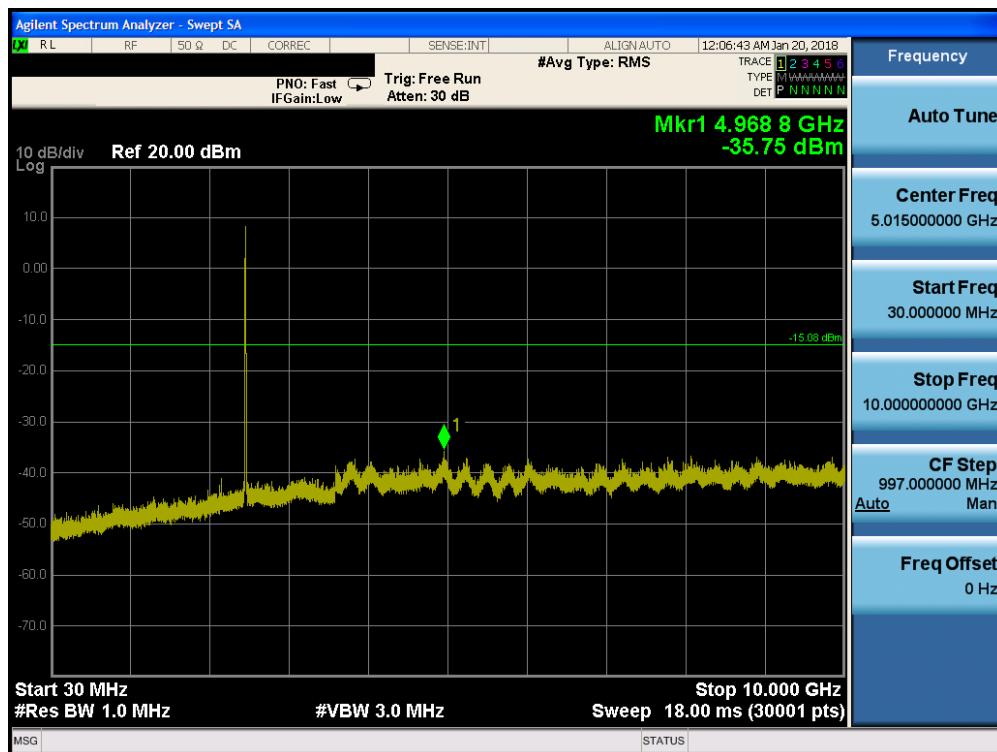


Plot 7-134. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 7)

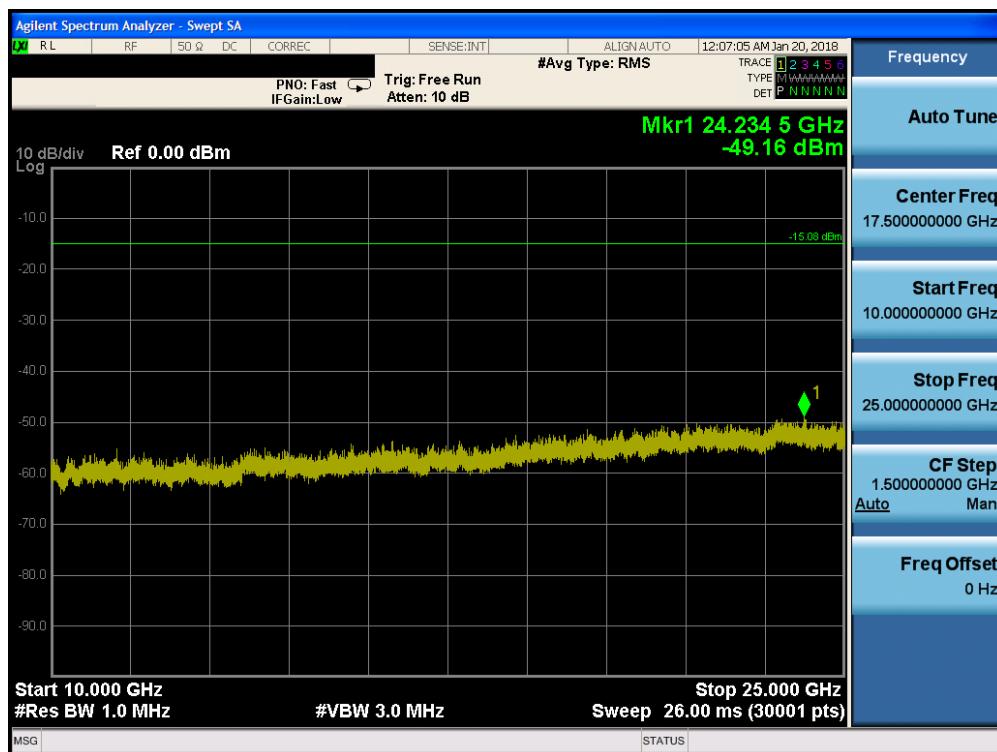


Plot 7-135. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 7)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 96 of 173



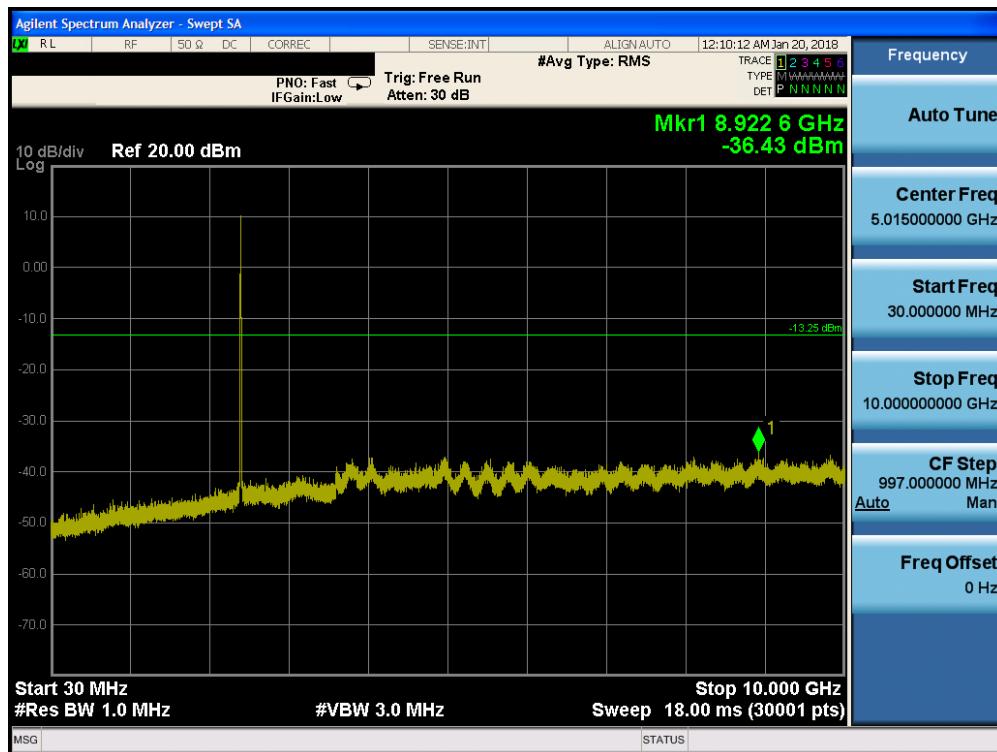
Plot 7-136. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 13)



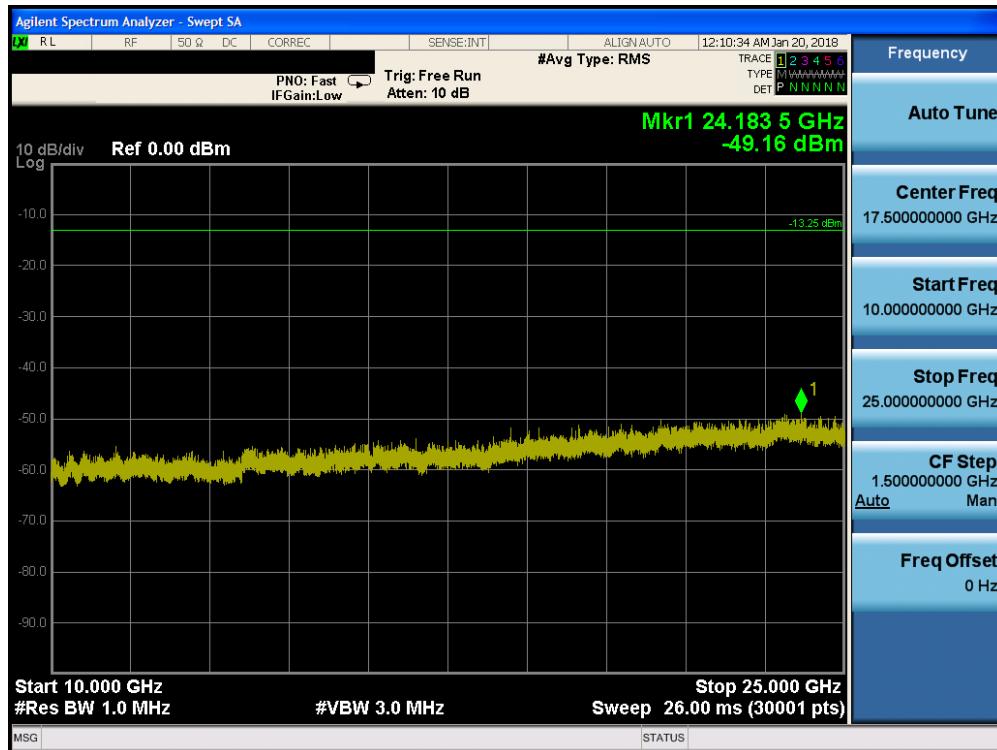
Plot 7-137. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 13)

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 97 of 173

## Antenna-2 Conducted Spurious Emissions

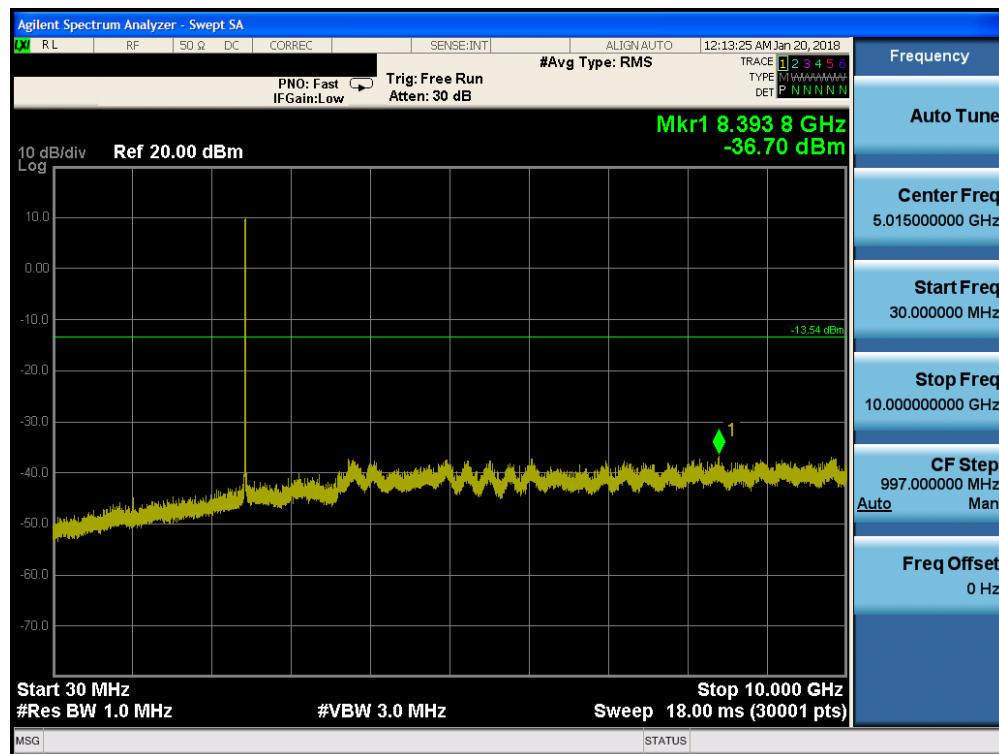


Plot 7-138. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 1)

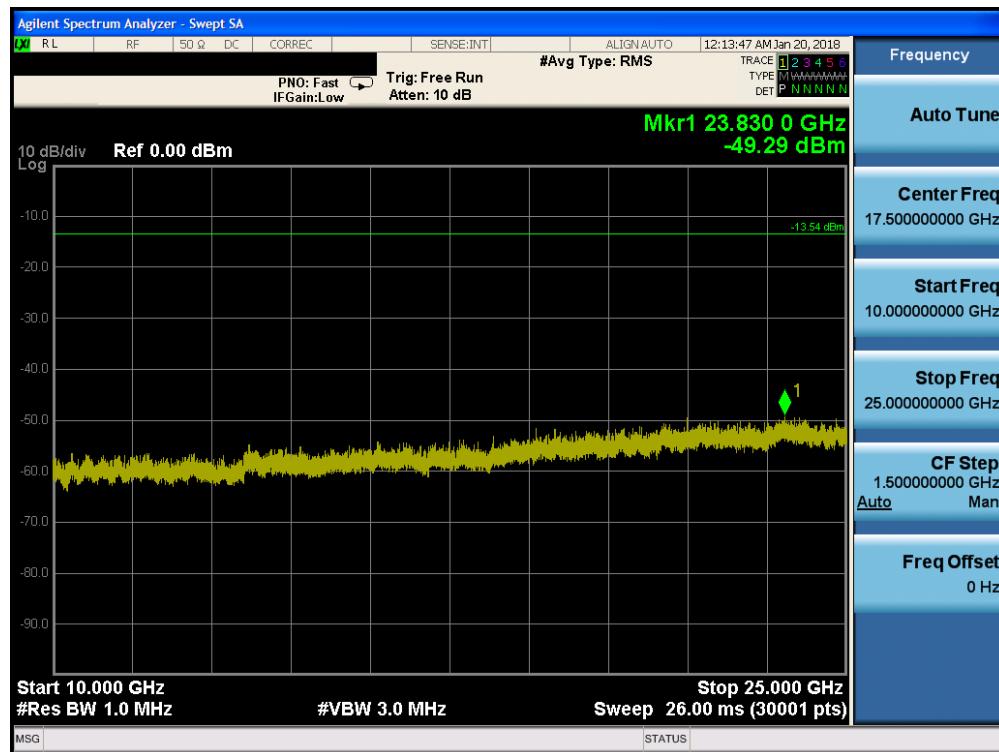


Plot 7-139. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 1)

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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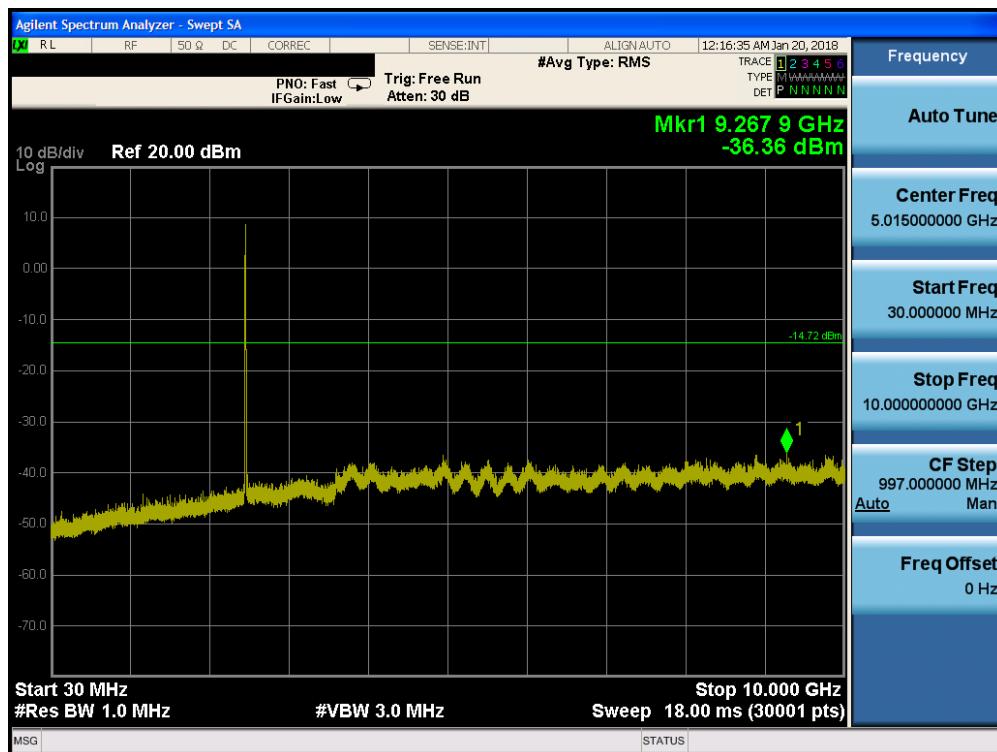


Plot 7-140. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 7)

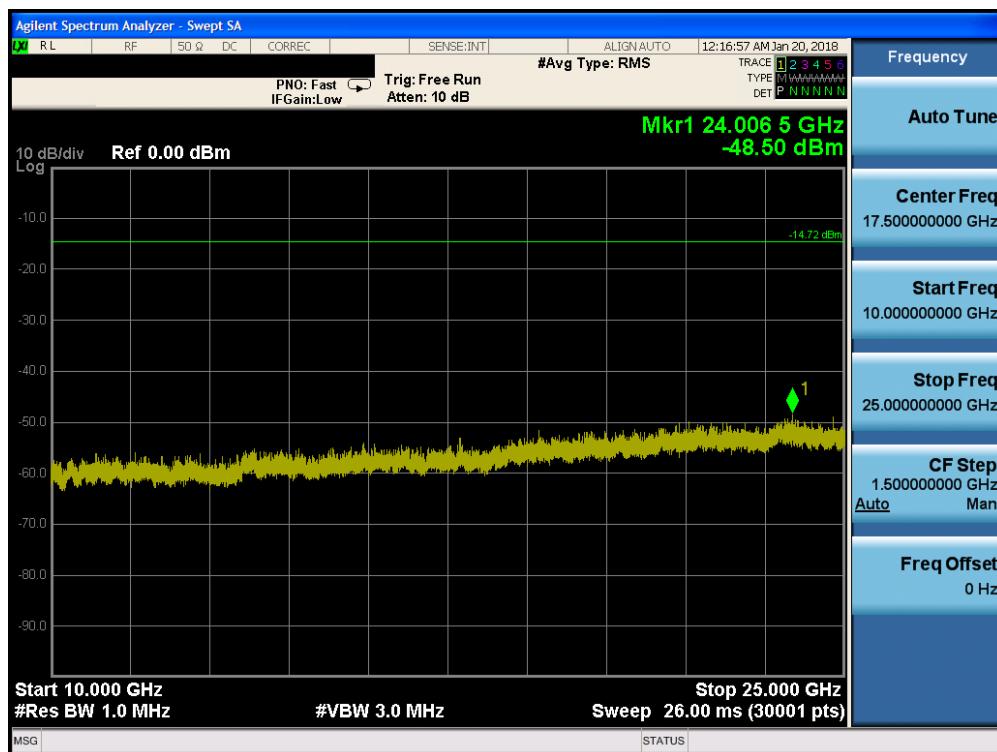


Plot 7-141. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 7)

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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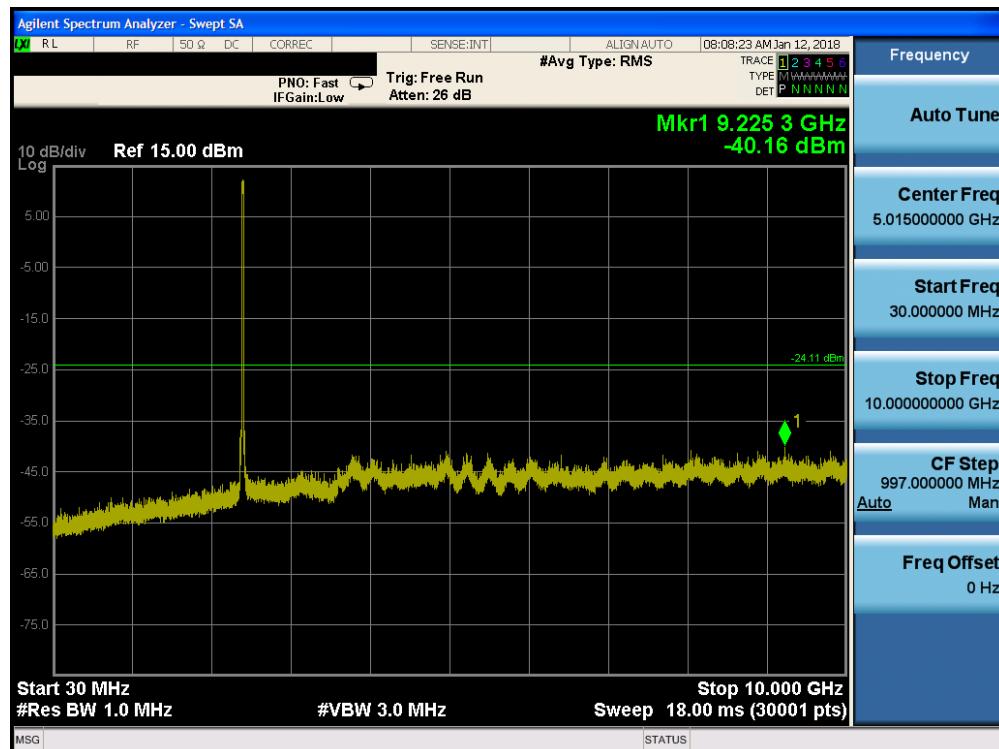
Plot 7-142. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 13)



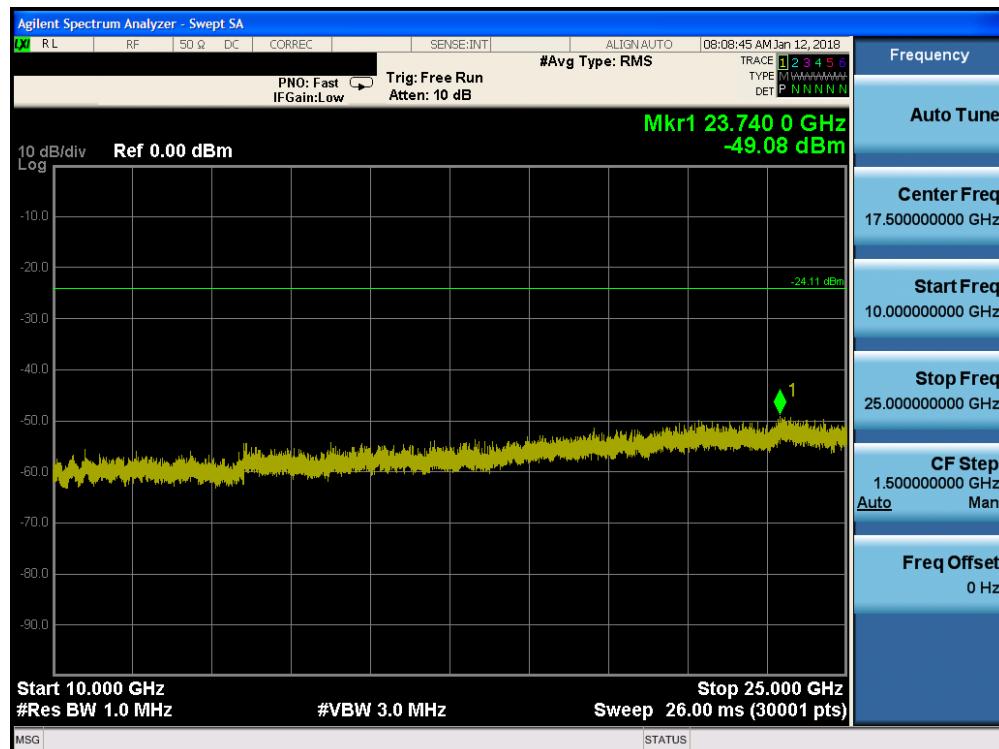
Plot 7-143. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 13)

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 100 of 173	

## MIMO Conducted Spurious Emissions

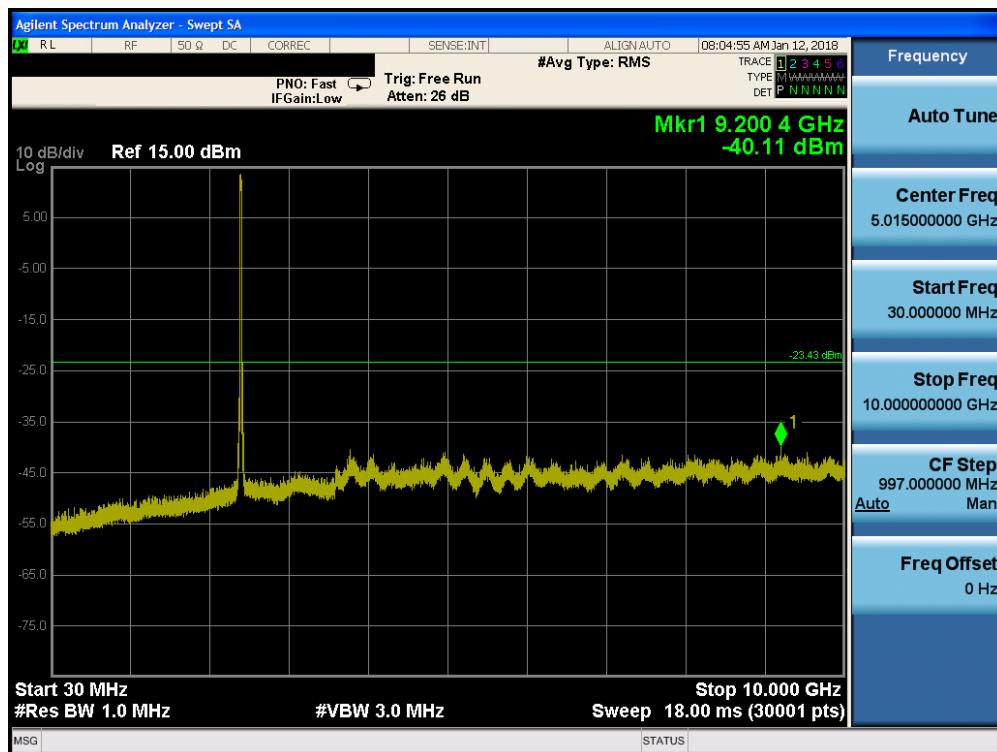


Plot 7-144. Conducted Spurious Plot MIMO ANT1 (802.11n – Ch. 1)

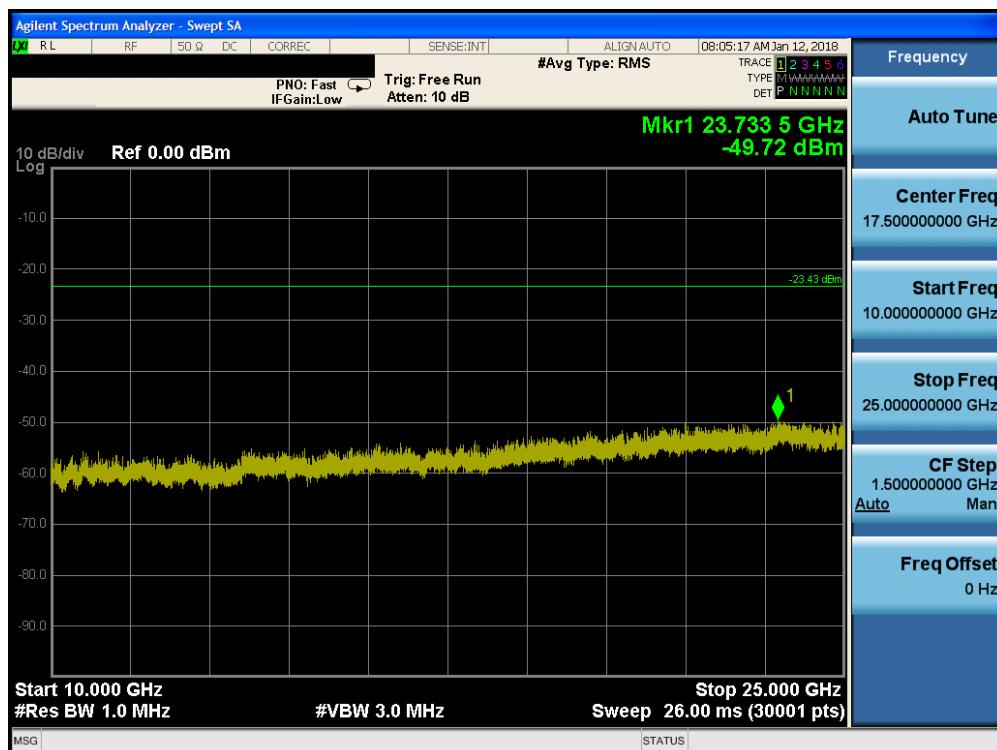


Plot 7-145. Conducted Spurious Plot MIMO ANT1 (802.11n – Ch. 1)

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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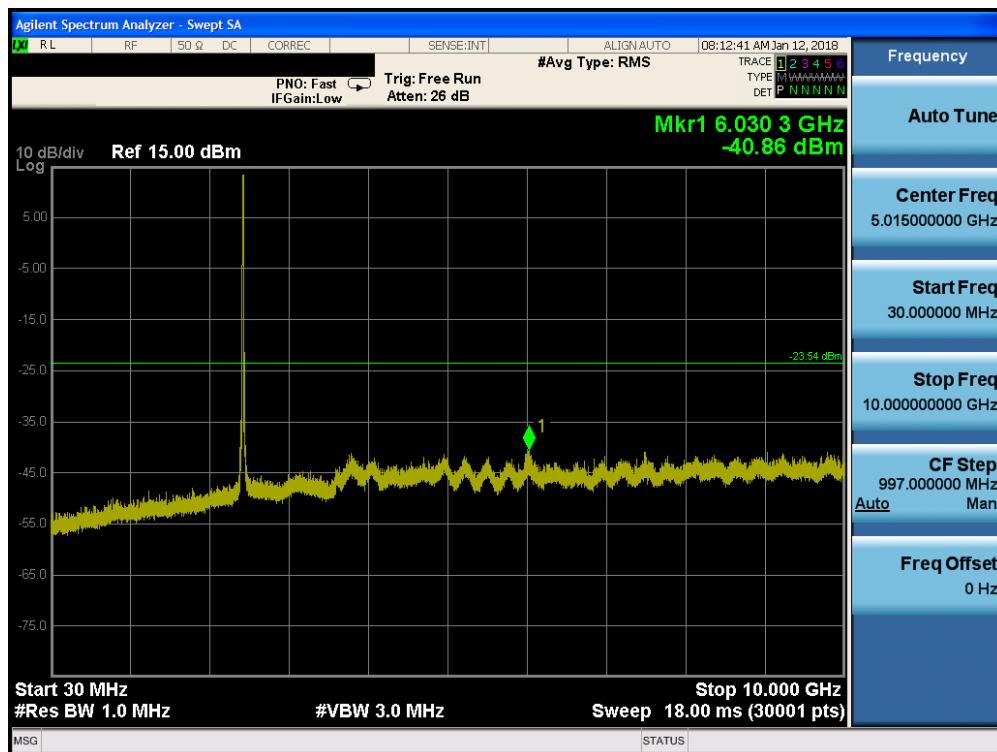


Plot 7-146. Conducted Spurious Plot MIMO ANT2 (802.11n – Ch. 1)

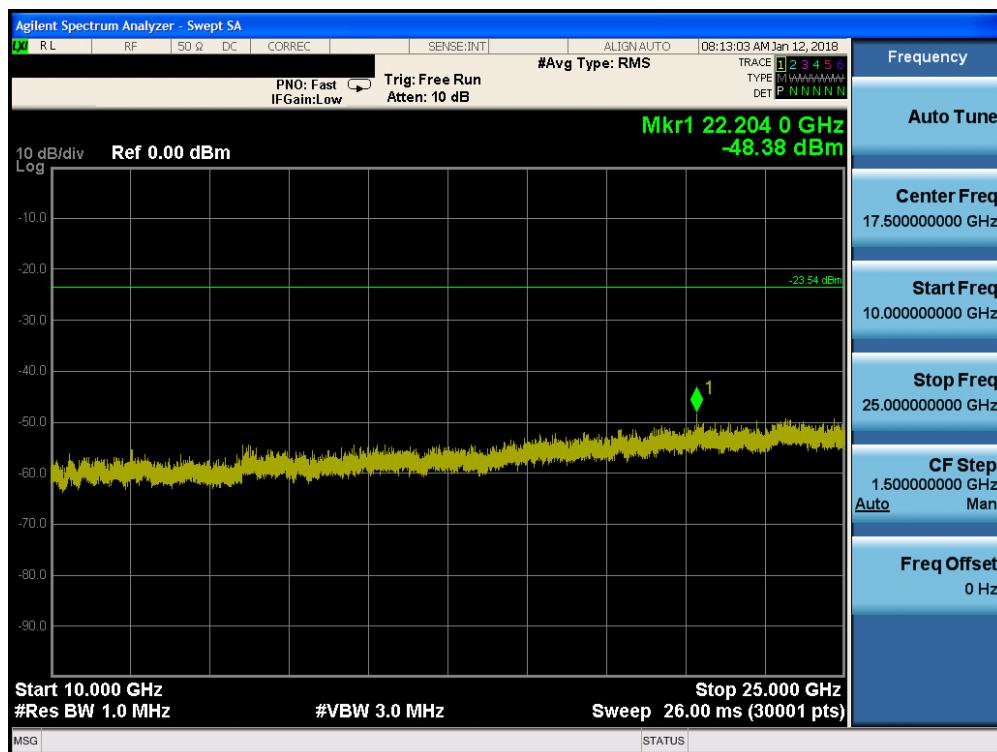


Plot 7-147. Conducted Spurious Plot MIMO ANT2 (802.11n – Ch. 1)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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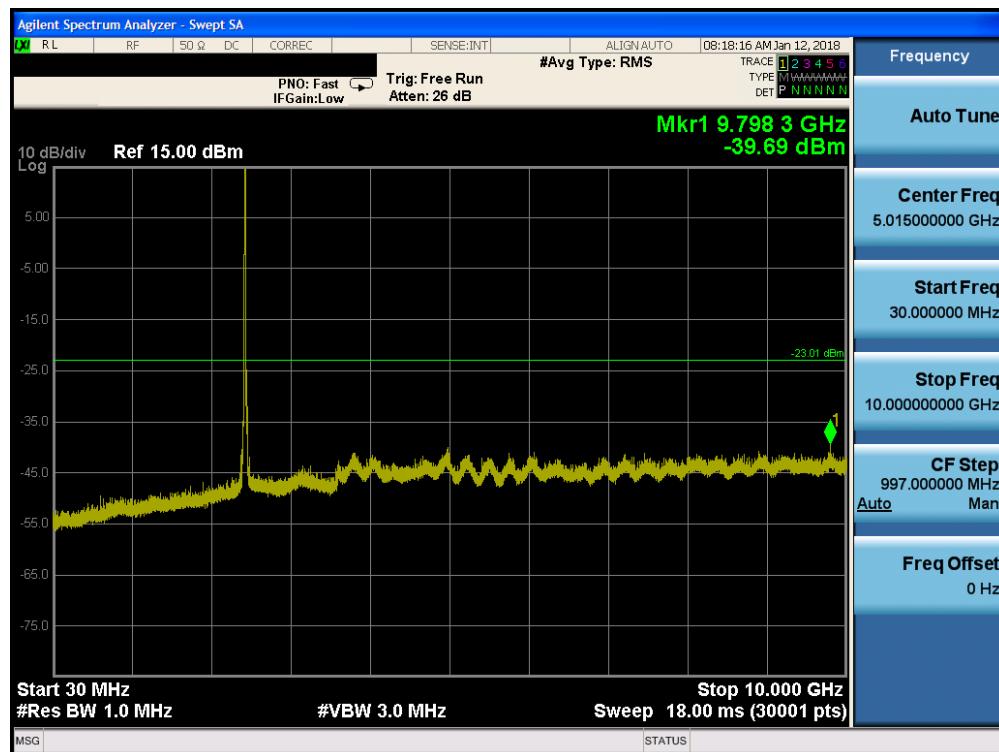


Plot 7-148. Conducted Spurious Plot MIMO ANT1 (802.11n – Ch. 7)

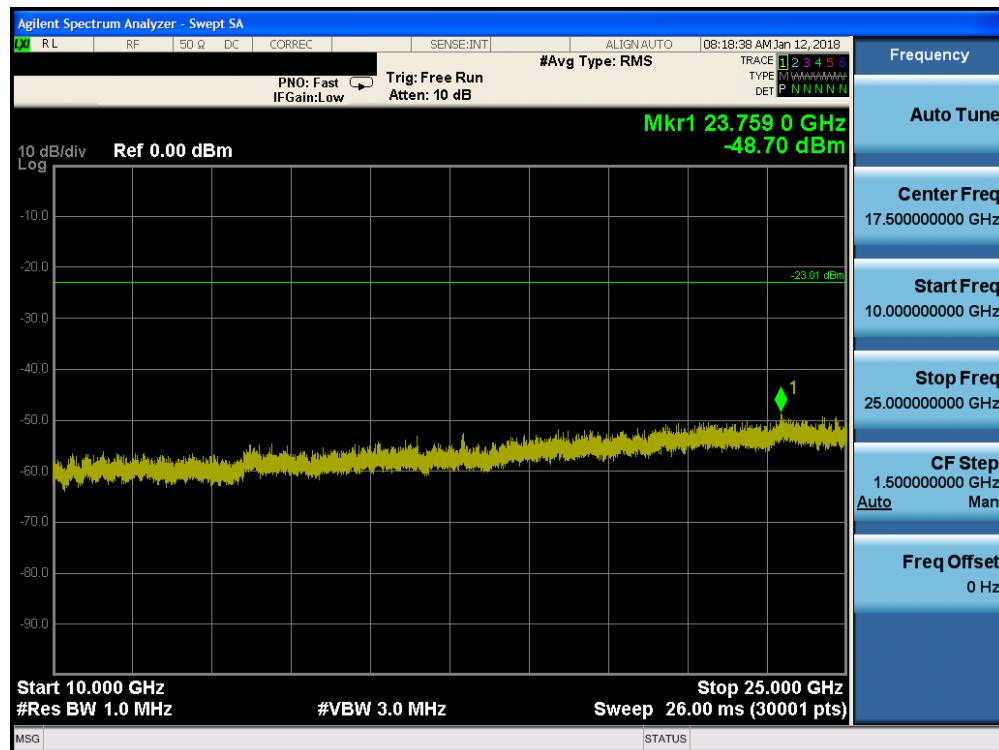


Plot 7-149. Conducted Spurious Plot MIMO ANT1 (802.11n – Ch. 7)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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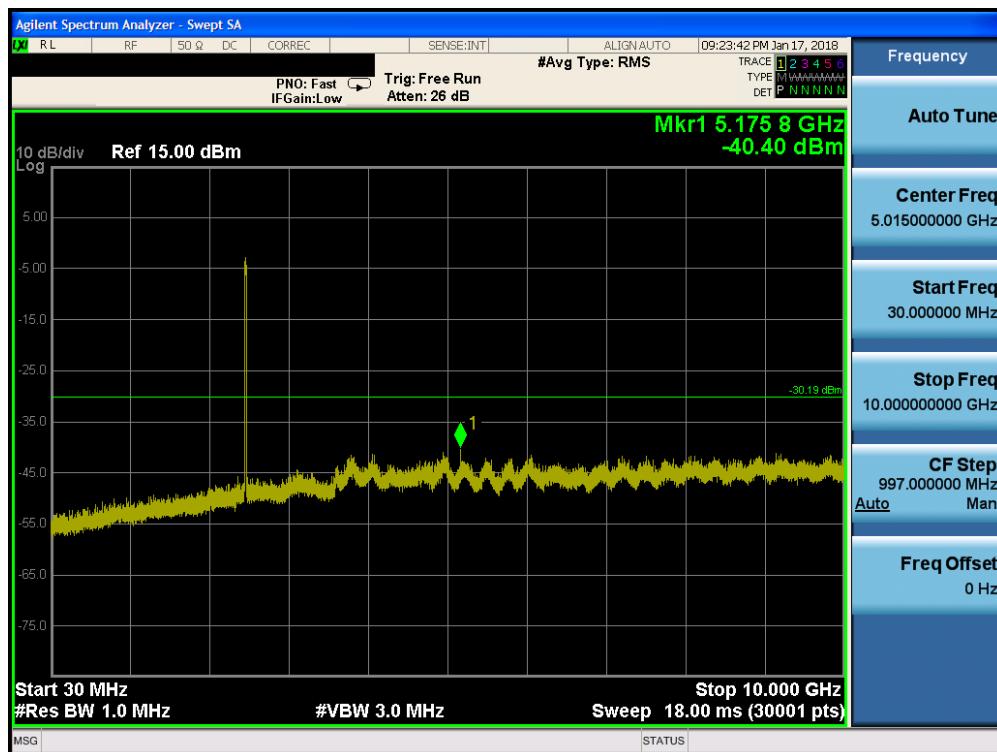


Plot 7-150. Conducted Spurious Plot MIMO ANT2 (802.11n – Ch. 7)



Plot 7-151. Conducted Spurious Plot MIMO ANT2 (802.11n – Ch. 7)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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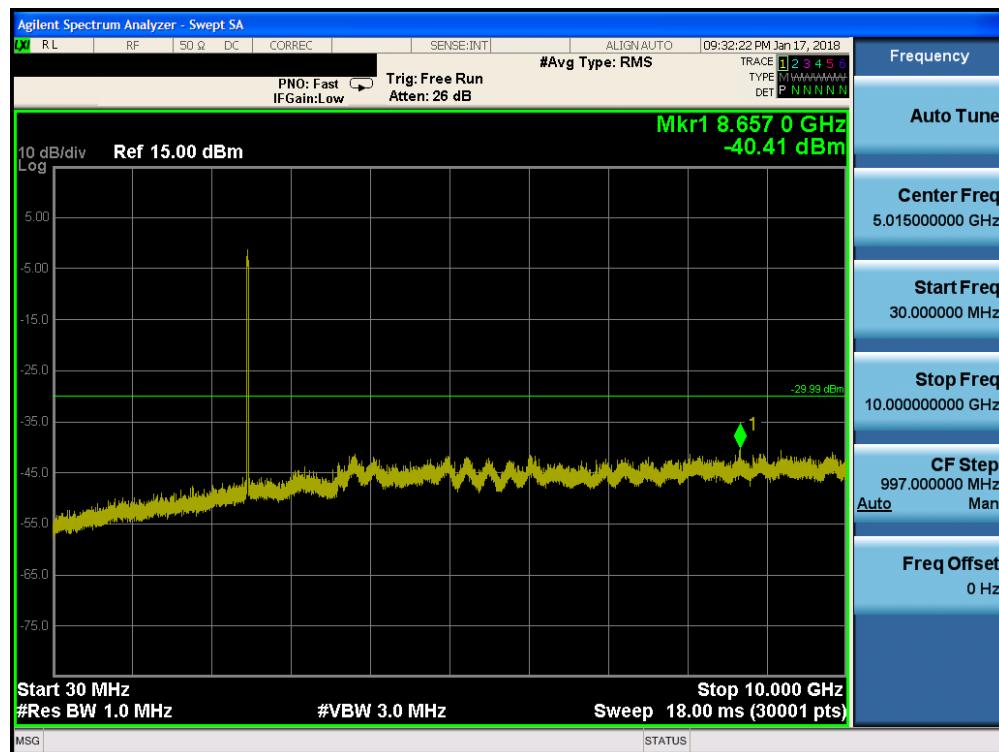


Plot 7-152. Conducted Spurious Plot MIMO ANT1 (802.11n – Ch. 13)

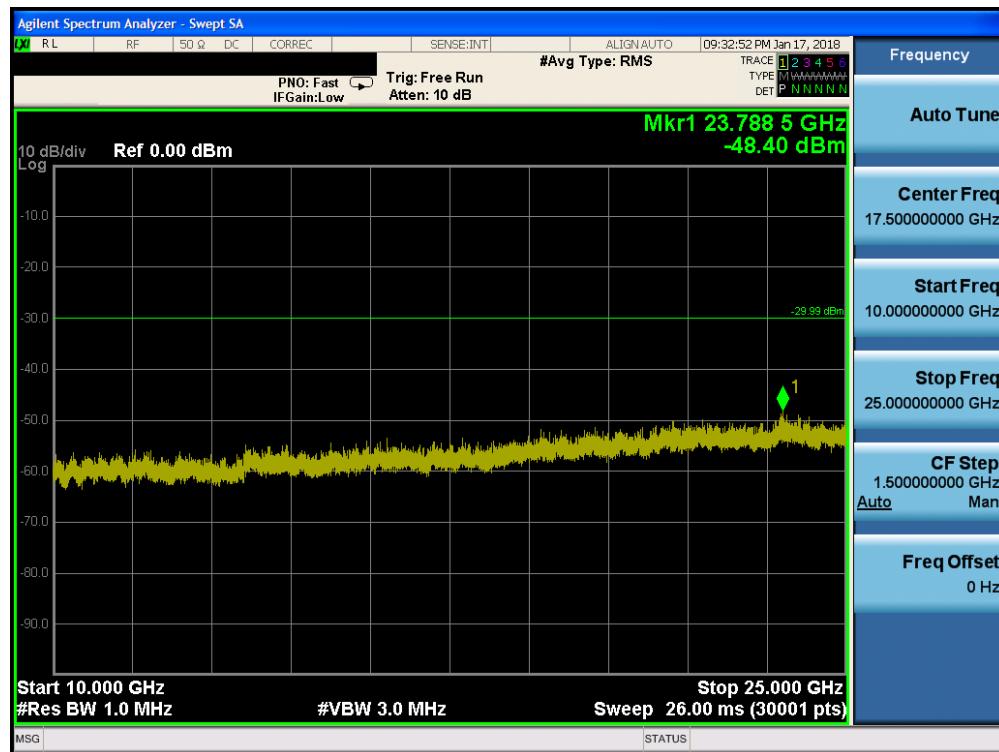


Plot 7-153. Conducted Spurious Plot MIMO ANT1 (802.11n – Ch. 13)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-154. Conducted Spurious Plot MIMO ANT2 (802.11n – Ch. 13)



Plot 7-155. Conducted Spurious Plot MIMO ANT2 (802.11n – Ch. 13)

FCC ID: BCGA1893	<b>PCTEST®</b> ENGINEERING LABORATORY, INC.	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 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-16 per Section 15.209 and RSS-Gen (8.9).**

Frequency	Field Strength [ $\mu$ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

**Table 7-16. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

KDB 558074 D01 v04 – Section 12.1, 12.2.7

### 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  $\geq 2 \times$  span/RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

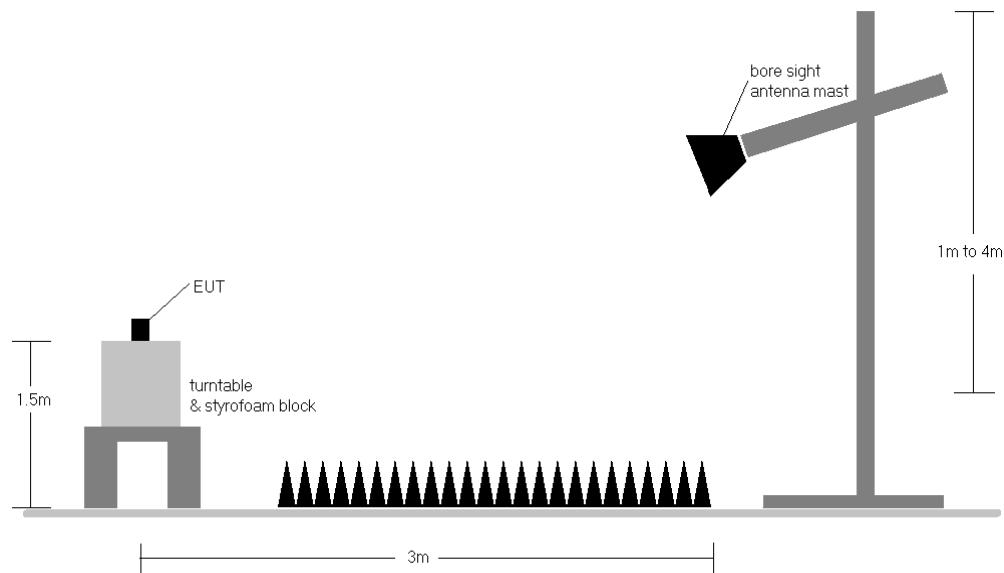
#### Peak Field Strength Measurements

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 v04 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 7-16.
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.

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7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. 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.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

## Sample Calculations

### Determining Spurious Emissions Levels

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

### Radiated Band Edge Measurement Offset

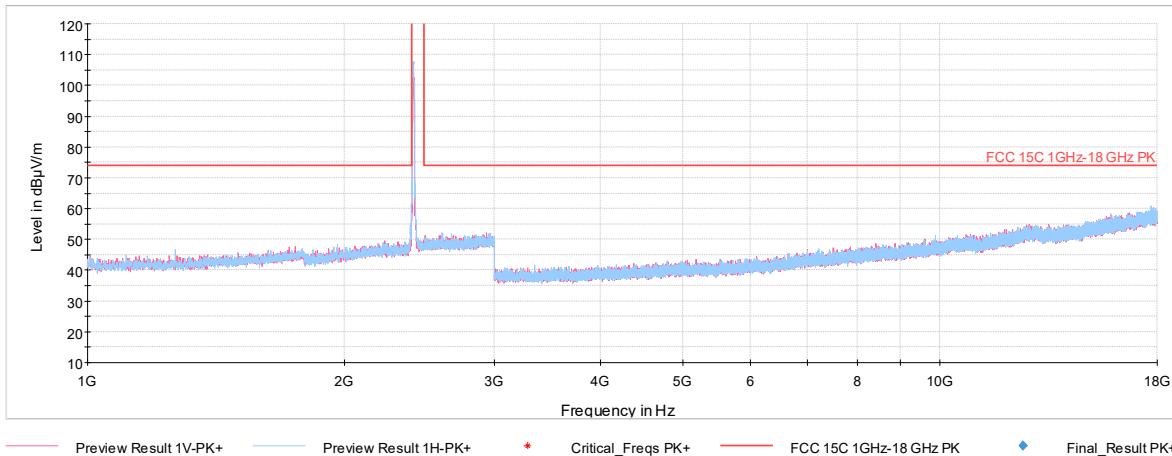
- o The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:  

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

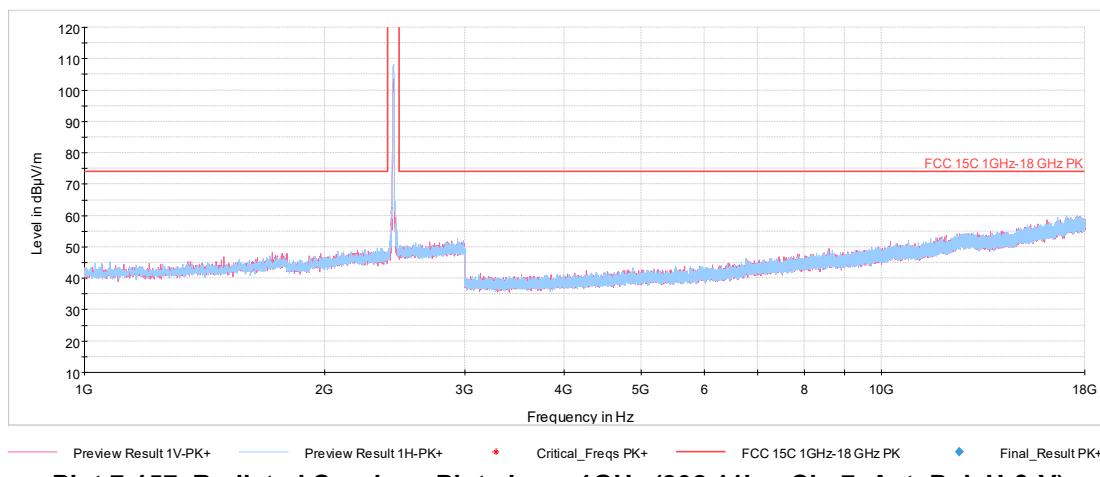
FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 109 of 173

## 7.7.1 Antenna-1 Radiated Spurious Emission Measurements

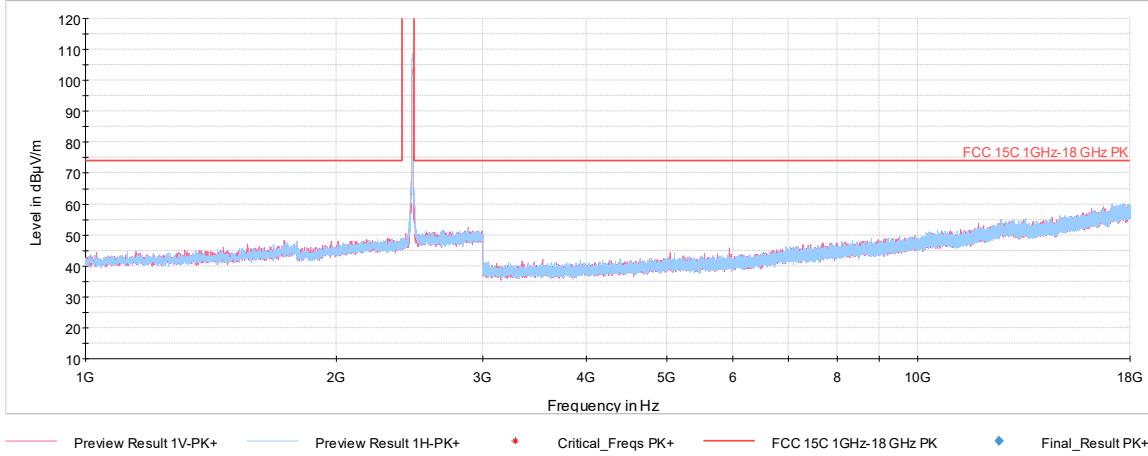
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



**Plot 7-156. Radiated Spurious Plot above 1GHz (802.11b – Ch. 1, Ant. Pol. H & V)**



**Plot 7-157. Radiated Spurious Plot above 1GHz (802.11b – Ch. 7, Ant. Pol. H & V)**

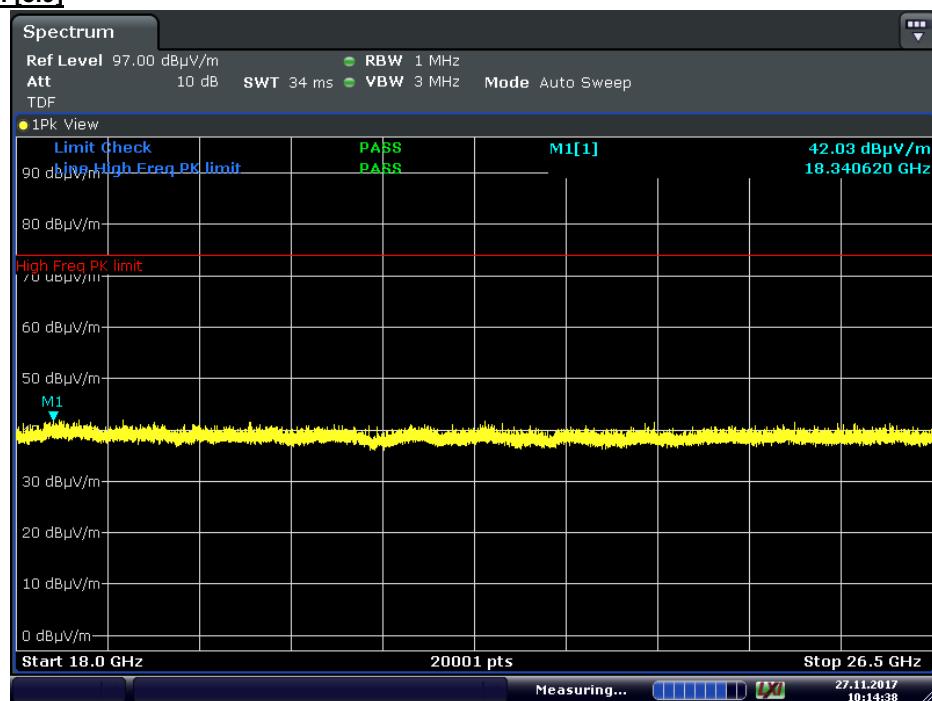


**Plot 7-158. Radiated Spurious Plot above 1GHz (802.11b – Ch. 13, Ant. Pol. H & V)**

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device			Page 110 of 173

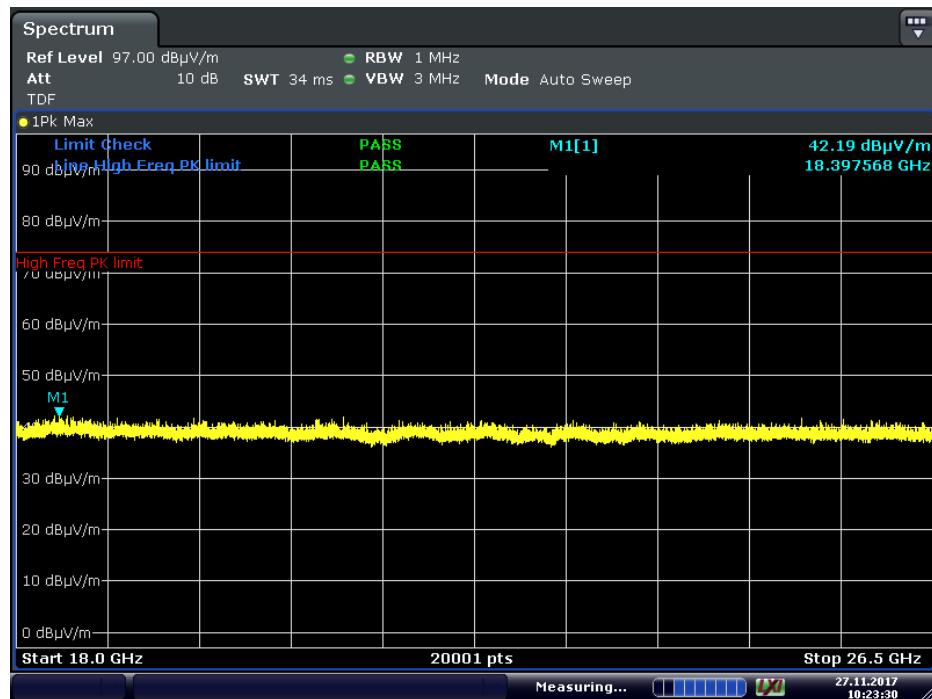
## Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Date: 27 NOV 2017 10:14:39

**Plot 7-159. Radiated Spurious Plot above 18GHz (802.11b – Ch. 7, Ant. Pol. H)**



Date: 27 NOV 2017 10:23:30

**Plot 7-160. Radiated Spurious Plot above 18GHz (802.11b – Ch. 7, Ant. Pol. V)**

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 111 of 173

## Antenna-1 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1 Mbps
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 $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4824.00	Avg	H	-	-	-74.62	2.09	34.47	53.98	-19.51
4824.00	Peak	H	-	-	-62.20	2.09	46.89	73.98	-27.09
12060.00	Avg	H	-	-	-77.11	13.10	42.99	53.98	-10.99
12060.00	Peak	H	-	-	-65.75	13.10	54.35	73.98	-19.63

**Table 7-17. Radiated Measurements**

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2442MHz
Channel:	07

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4884.00	Avg	H	100	172	-73.54	2.46	35.92	53.98	-18.06
4884.00	Peak	H	100	172	-62.53	2.46	46.93	73.98	-27.05
7326.00	Avg	H	-	-	-76.40	6.67	37.27	53.98	-16.71
7326.00	Peak	H	-	-	-64.25	6.67	49.42	73.98	-24.56
12210.00	Avg	H	-	-	-78.04	13.40	42.36	53.98	-11.62
12210.00	Peak	H	-	-	-65.26	13.40	55.14	73.98	-18.84

**Table 7-18. Radiated Measurements**

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device				

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13

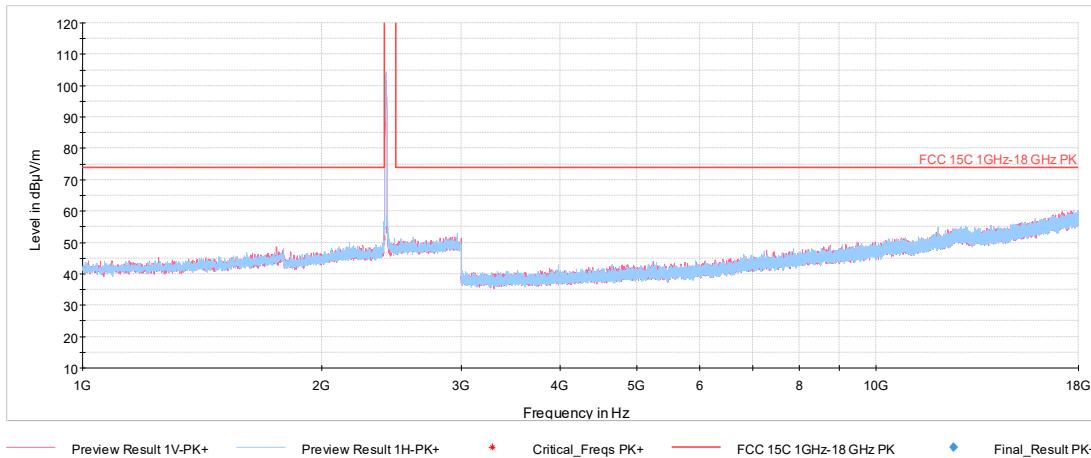
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4944.00	Avg	H	100	153	-72.85	2.21	36.36	53.98	-17.62
4944.00	Peak	H	100	153	-62.79	2.21	46.42	73.98	-27.56
7416.00	Avg	H	-	-	-76.69	7.13	37.44	53.98	-16.54
7416.00	Peak	H	-	-	-63.78	7.13	50.35	73.98	-23.63
12360.00	Avg	H	-	-	-77.77	13.82	43.05	53.98	-10.93
12360.00	Peak	H	-	-	-65.27	13.82	55.55	73.98	-18.43

**Table 7-19. Radiated Measurements**

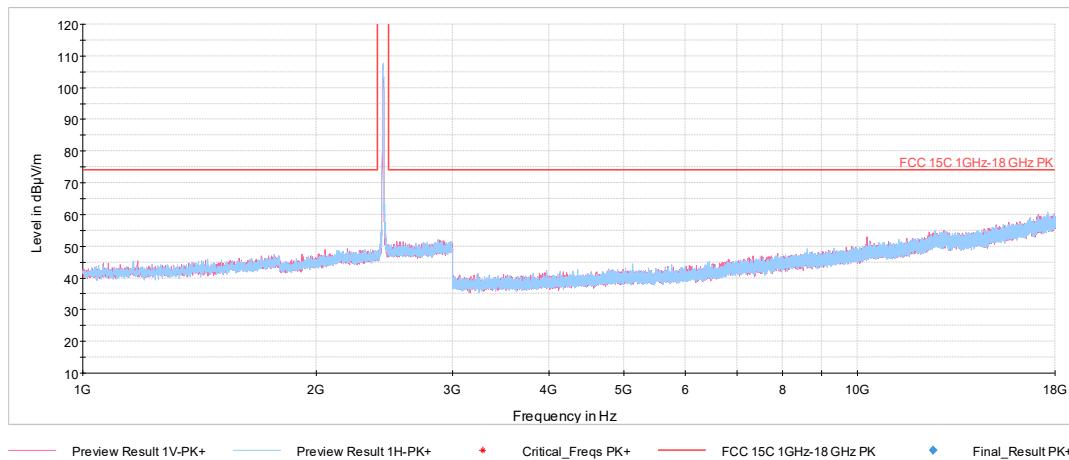
FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device			

## 7.7.2 Antenna-2 Radiated Spurious Emission Measurements

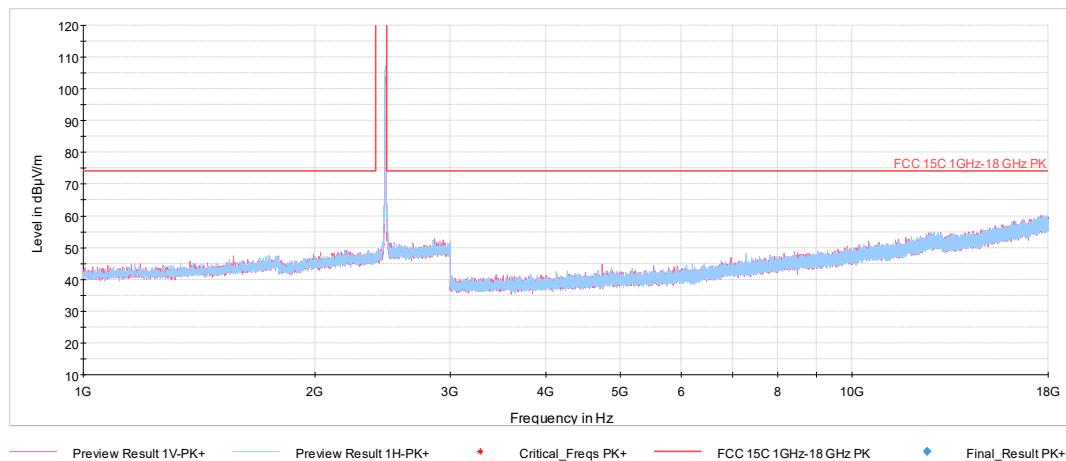
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



**Plot 7-161. Radiated Spurious Plot above 1GHz (802.11b – Ch. 1, Ant. Pol. H & V)**



**Plot 7-162. Radiated Spurious Plot above 1GHz (802.11b – Ch. 7, Ant. Pol. H & V)**

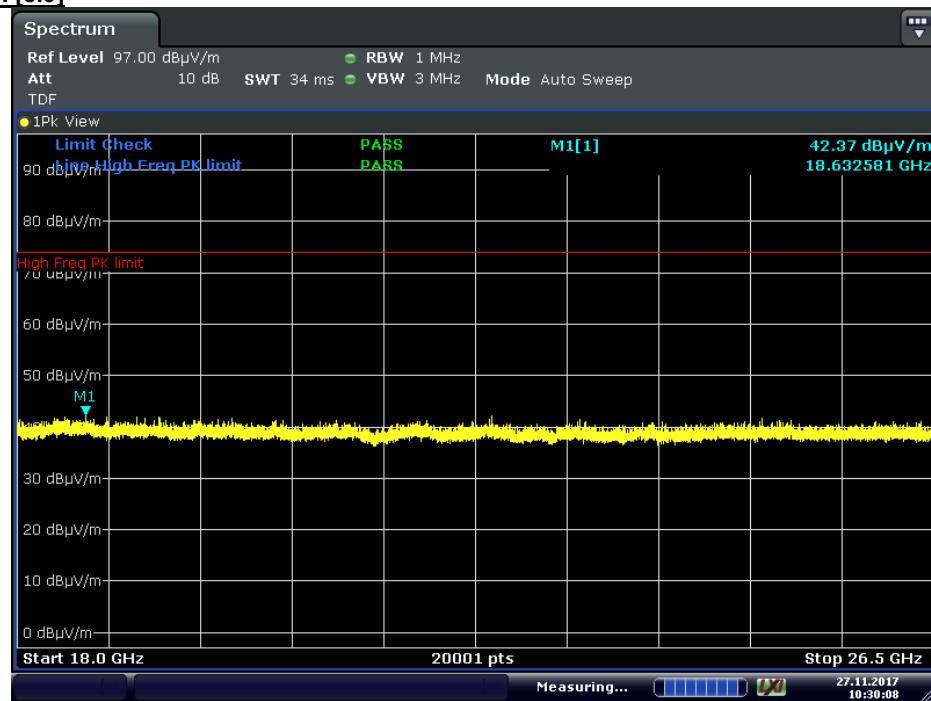


**Plot 7-163. Radiated Spurious Plot above 1GHz (802.11b – Ch. 13, Ant. Pol. H & V)**

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device			Page 114 of 173

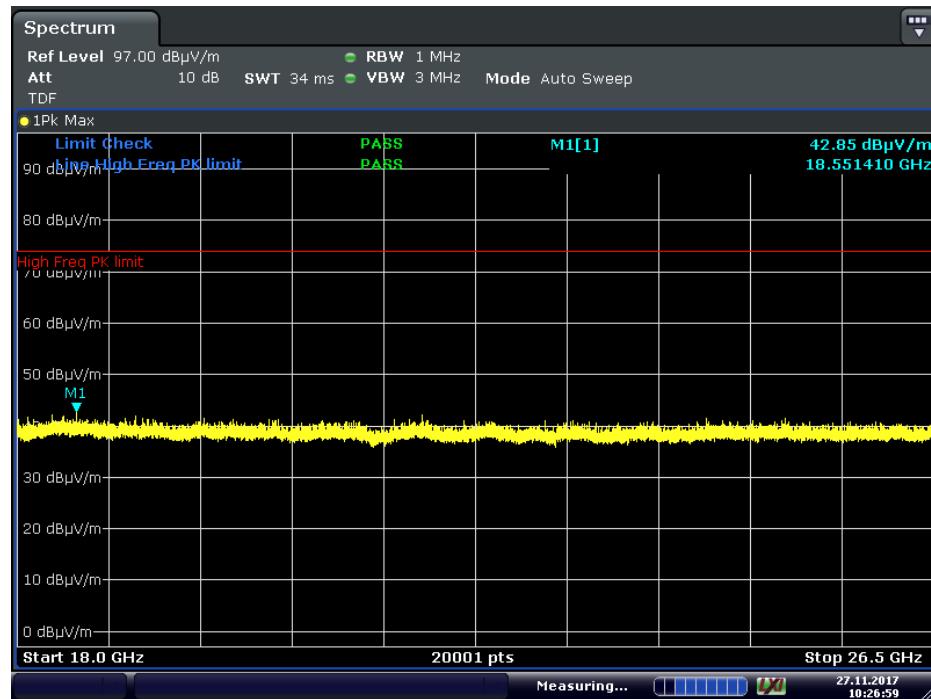
## Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Date: 27 NOV 2017 10:30:09

**Plot 7-164. Radiated Spurious Plot above 18GHz (802.11b – Ch. 7, Ant. Pol. H)**



Date: 27 NOV 2017 10:26:59

**Plot 7-165. Radiated Spurious Plot above 18GHz (802.11b – Ch. 7, Ant. Pol. V)**

FCC ID: BCGA1893	 PCTEST® ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 115 of 173

## Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1 Mbps
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 $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4824.00	Avg	H	154	82	-72.26	2.09	36.83	53.98	-17.15
4824.00	Peak	H	154	82	-52.82	2.09	56.27	73.98	-17.71
12060.00	Avg	H	-	-	-77.59	13.10	42.51	53.98	-11.47
12060.00	Peak	H	-	-	-65.79	13.10	54.31	73.98	-19.67

**Table 7-20. Radiated Measurements**

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2442MHz
Channel:	07

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4884.00	Avg	H	104	157	-72.61	2.28	36.67	53.98	-17.31
4884.00	Peak	H	104	157	-63.24	2.28	46.04	73.98	-27.94
7326.00	Avg	H	245	157	-73.46	6.60	40.14	53.98	-13.84
7326.00	Peak	H	245	157	-62.68	6.60	50.92	73.98	-23.06
12210.00	Avg	H	-	-	-77.70	13.60	42.90	53.98	-11.08
12210.00	Peak	H	-	-	-66.18	13.60	54.42	73.98	-19.56

**Table 7-21. Radiated Measurements**

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device				

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13

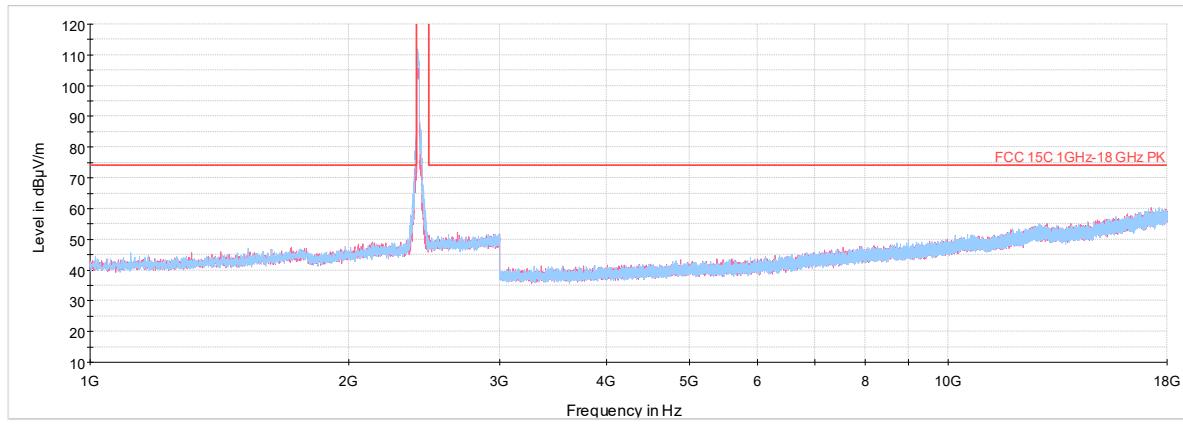
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4944.00	Avg	H	167	89	-71.73	2.11	37.38	53.98	-16.60
4944.00	Peak	H	167	89	-62.77	2.11	46.34	73.98	-27.64
7416.00	Avg	H	113	160	-70.12	6.89	43.77	53.98	-10.21
7416.00	Peak	H	113	160	-61.95	6.89	51.94	73.98	-22.04
12360.00	Avg	H	-	-	-77.32	13.82	43.50	53.98	-10.48
12360.00	Peak	H	-	-	-66.03	13.82	54.79	73.98	-19.19

**Table 7-22. Radiated Measurements**

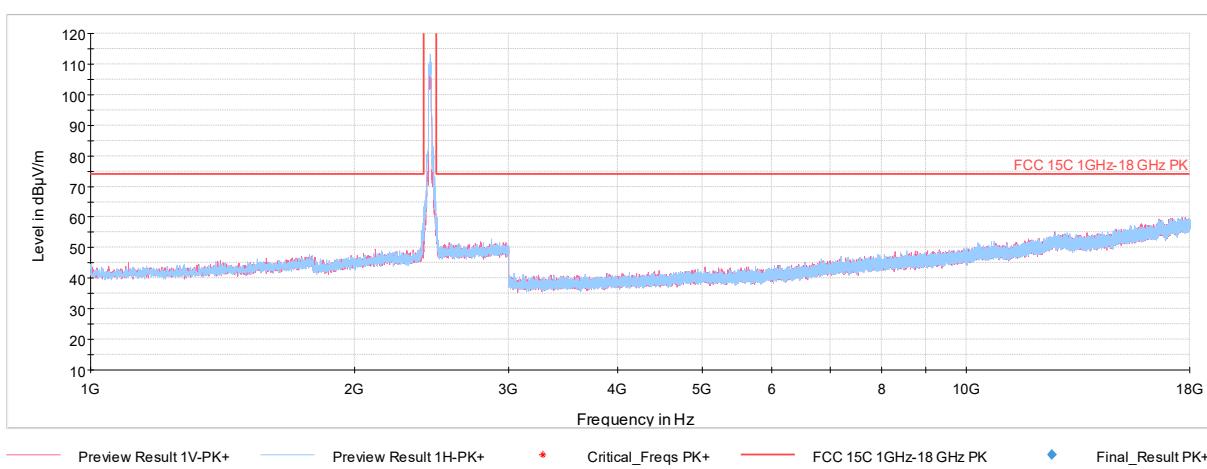
FCC ID: BCGA1893	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 117 of 173	

### 7.7.3 MIMO Radiated Spurious Emission Measurements

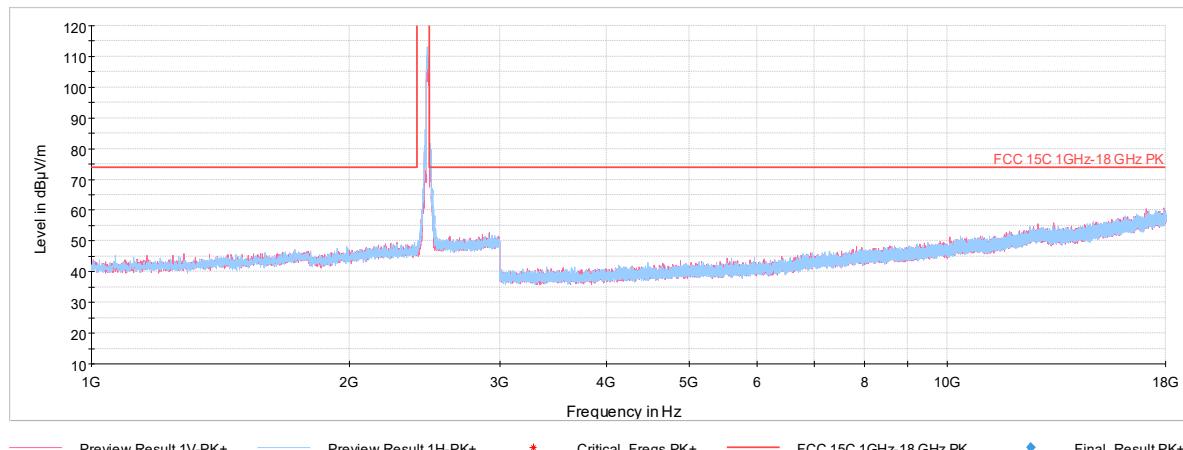
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



**Plot 7-166. Radiated Spurious Plot above 1GHz (802.11n – Ch. 1, Ant. Pol. H & V)**



**Plot 7-167. Radiated Spurious Plot above 1GHz (802.11n – Ch. 7, Ant. Pol. H & V)**

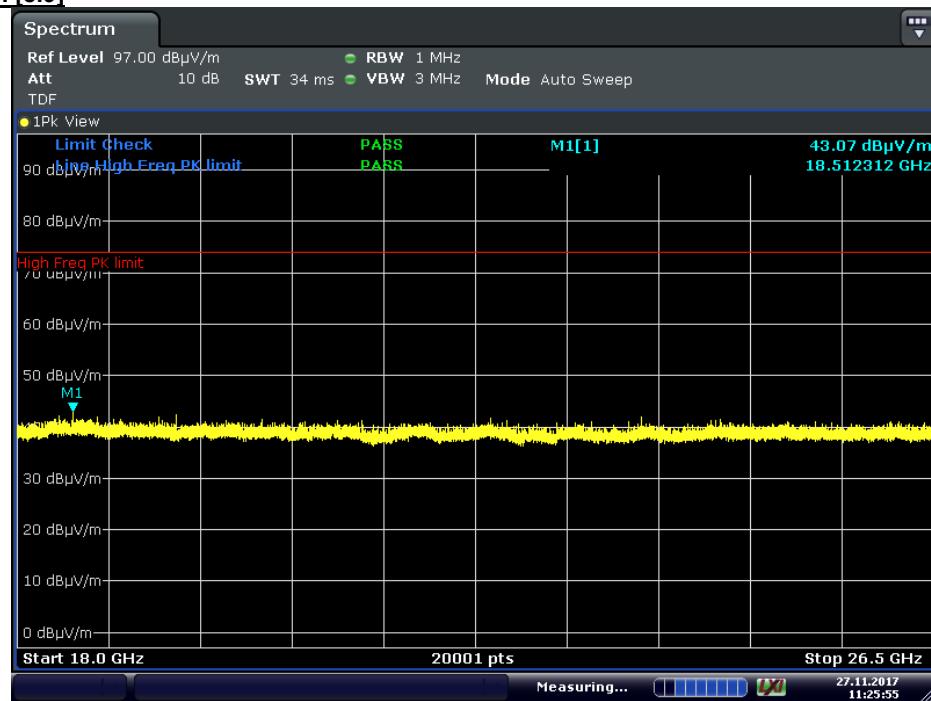


**Plot 7-168. Radiated Spurious Plot above 1GHz (802.11n – Ch. 13, Ant. Pol. H & V)**

FCC ID: BCGA1893	 PCTEST® ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 118 of 173

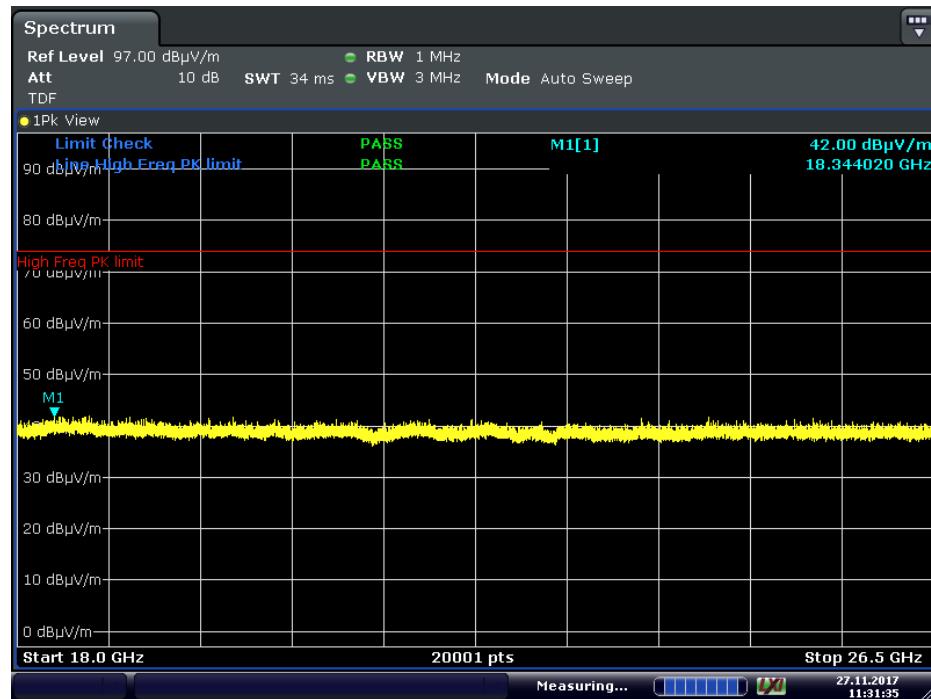
## MIMO Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Date: 27 NOV.2017 11:25:55

**Plot 7-169. Radiated Spurious Plot above 18GHz (802.11n – Ch. 7, Ant. Pol. H)**



Date: 27 NOV.2017 11:31:35

**Plot 7-170. Radiated Spurious Plot above 18GHz (802.11n – Ch. 7, Ant. Pol. V)**

FCC ID: BCGA1893	 <b>PCTEST®</b> ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device		Page 119 of 173

## MIMO Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V 1]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4824.00	Avg	H	-	-	-74.89	2.09	34.20	53.98	-19.78
4824.00	Peak	H	-	-	-63.46	2.09	45.63	73.98	-28.35
12060.00	Avg	H	-	-	-77.50	13.10	42.60	53.98	-11.38
12060.00	Peak	H	-	-	-65.78	13.10	54.32	73.98	-19.66

**Table 7-23. Radiated Measurements**

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2442MHz
Channel:	07

Frequency [MHz]	Detector	Ant. Pol. [H/V 1]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4884.00	Avg	H	-	-	-74.77	2.46	34.69	53.98	-19.29
4884.00	Peak	H	-	-	-63.16	2.46	46.30	73.98	-27.68
7326.00	Avg	H	-	-	-75.90	6.67	37.77	53.98	-16.21
7326.00	Peak	H	-	-	-63.91	6.67	49.76	73.98	-24.22
12210.00	Avg	H	-	-	-77.44	13.40	42.96	53.98	-11.02
12210.00	Peak	H	-	-	-66.01	13.40	54.39	73.98	-19.59

**Table 7-24. Radiated Measurements**

FCC ID: BCGA1893	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 120 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4944.00	Avg	H	-	-	-74.81	2.21	34.40	53.98	-19.58
4944.00	Peak	H	-	-	-62.50	2.21	46.71	73.98	-27.27
7416.00	Avg	H	126	80	-72.75	7.13	41.38	53.98	-12.60
7416.00	Peak	H	126	80	-61.14	7.13	52.99	73.98	-20.99
12360.00	Avg	H	-	-	-77.54	13.82	43.28	53.98	-10.70
12360.00	Peak	H	-	-	-65.70	13.82	55.12	73.98	-18.86

**Table 7-25. Radiated Measurements**

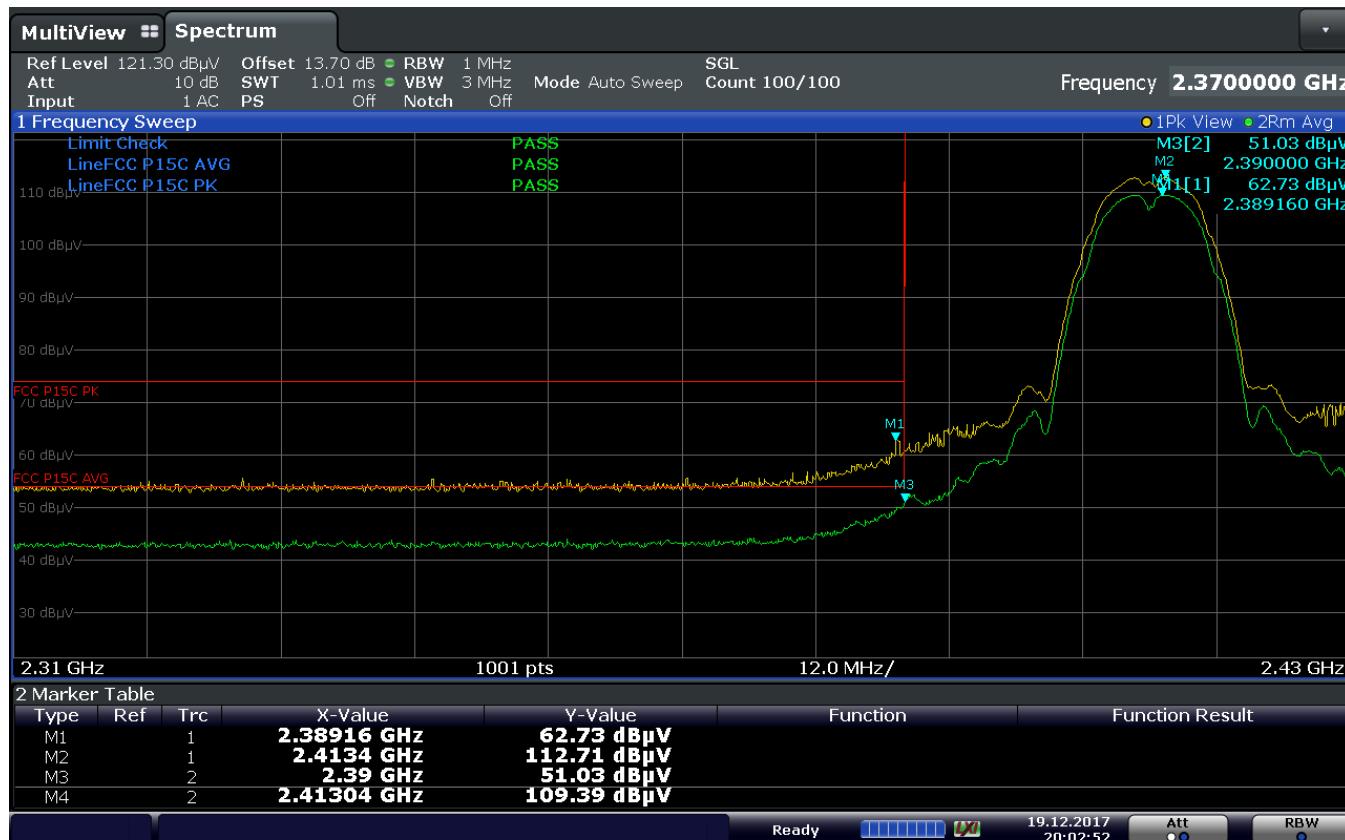
FCC ID: BCGA1893	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 121 of 173	

## 7.7.4 Antenna-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: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1



20:02:53 19.12.2017

**Plot 7-171. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 122 of 173

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2417MHz  
 Channel: 2



**Plot 7-172. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 123 of 173	

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

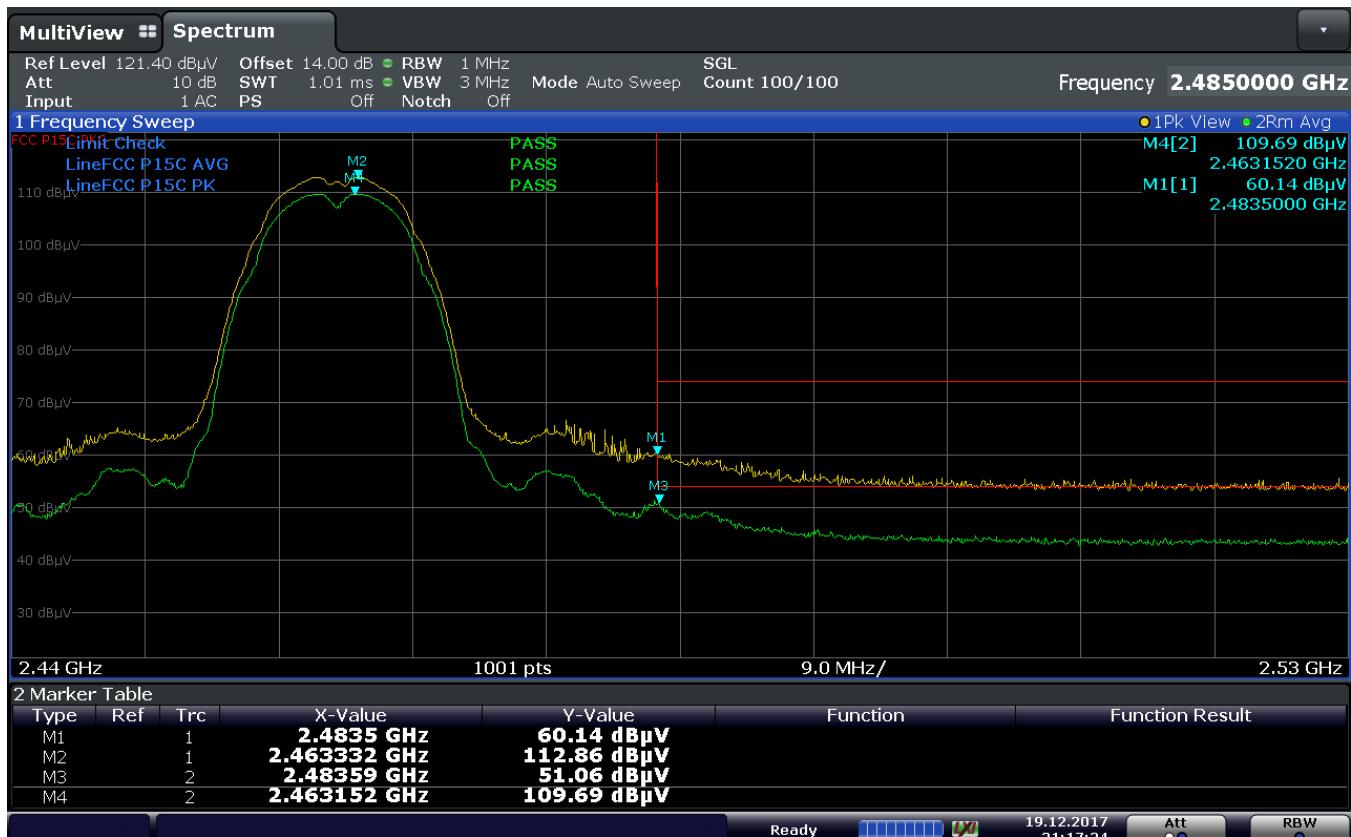


21:46:13 19.12.2017

**Plot 7-173. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 124 of 173

Worst Case Mode: 802.11b  
Worst Case Transfer Rate: 1Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2462MHz  
Channel: 11

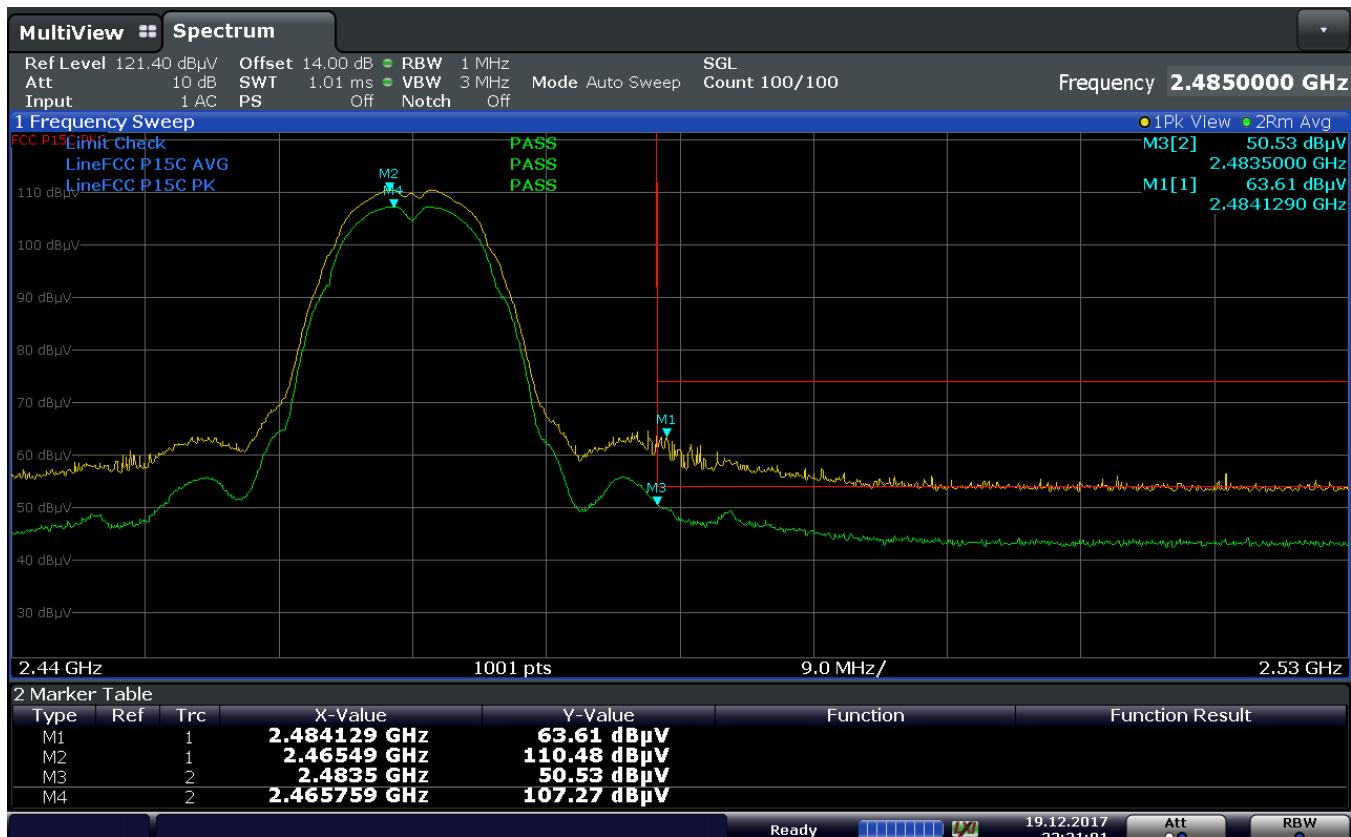


21:17:25 19.12.2017

**Plot 7-174. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 125 of 173

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2467MHz  
 Channel: 12

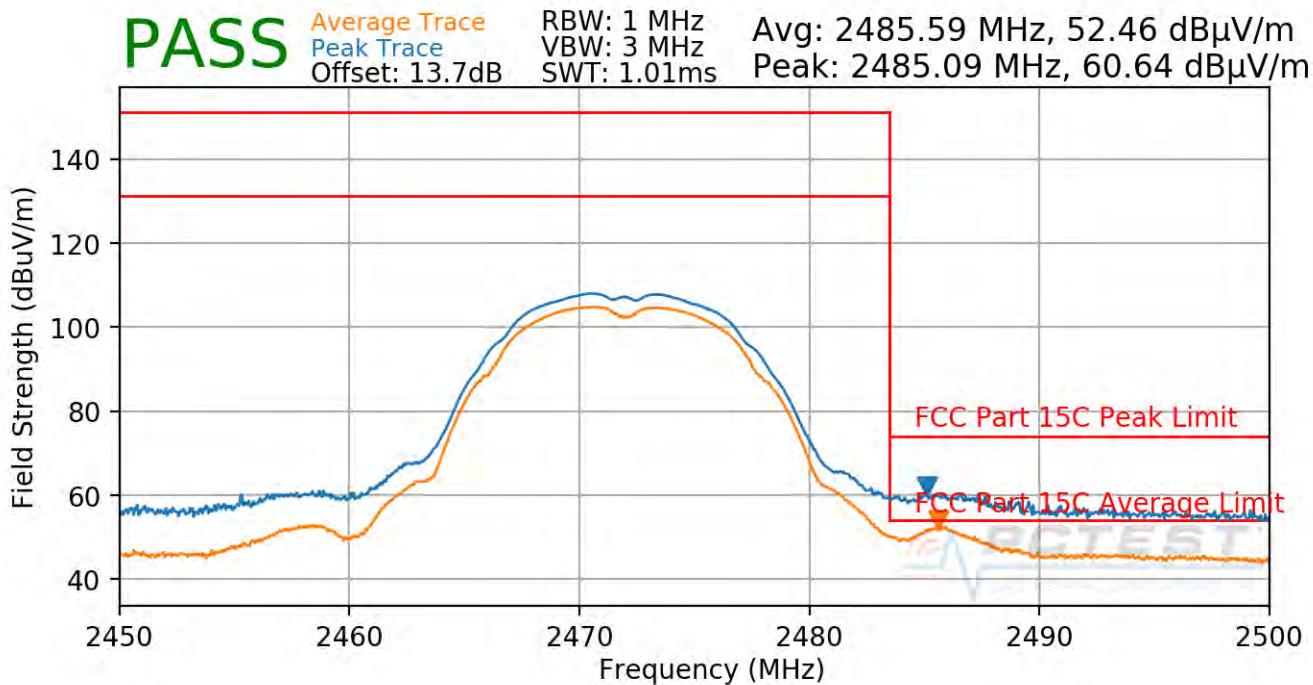


22:21:02 19.12.2017

**Plot 7-175. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 126 of 173

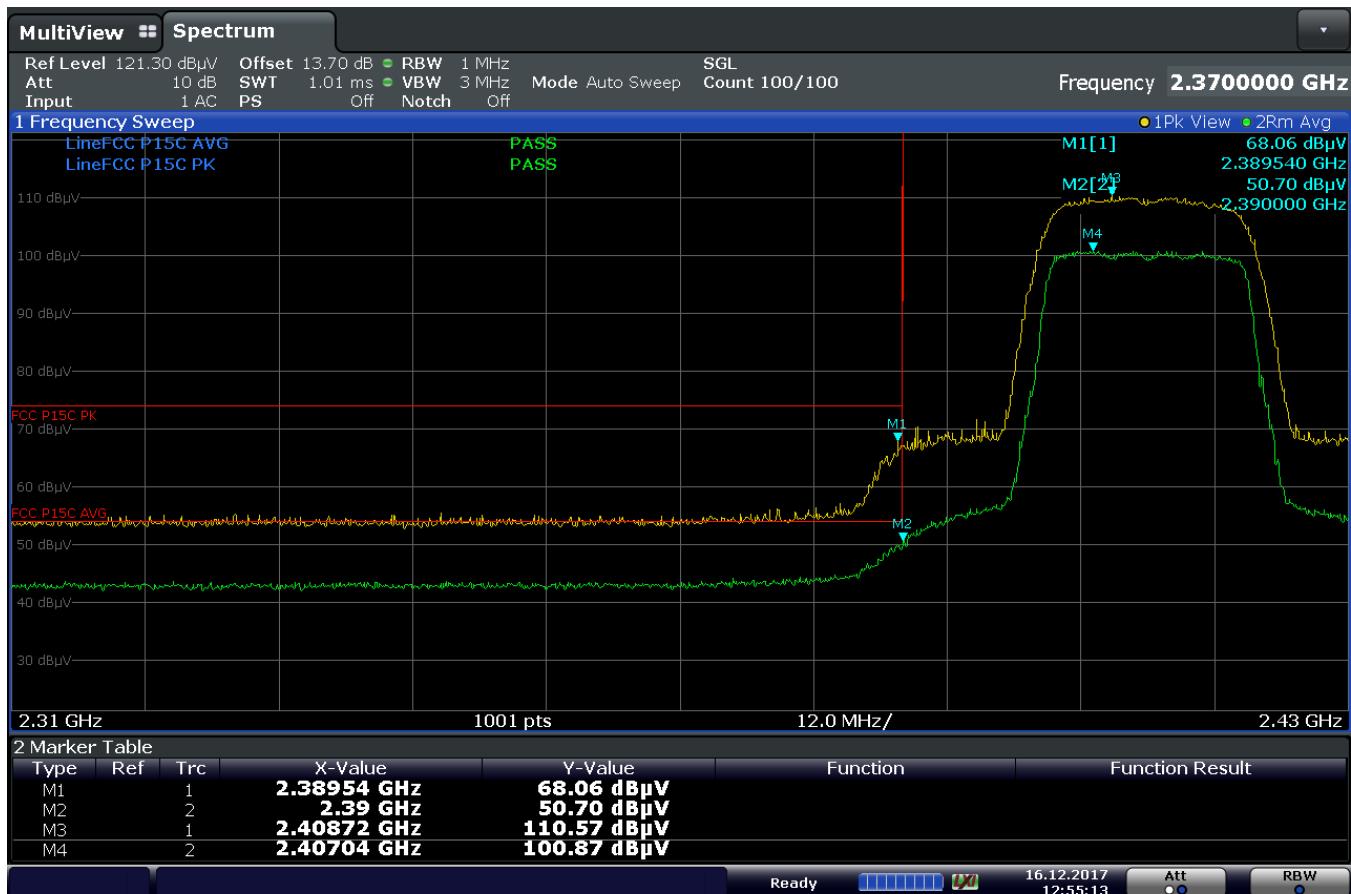
Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13



**Plot 7-176. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 127 of 173	

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1



12:55:14 16.12.2017

**Plot 7-177. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 128 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2417MHz  
 Channel: 2



22:01:54 20.12.2017

**Plot 7-178. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 129 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2422MHz  
 Channel: 3



22:13:23 20.12.2017

**Plot 7-179. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 130 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2427MHz  
 Channel: 4



22:23:19 20.12.2017

**Plot 7-180. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 131 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2437MHz  
 Channel: 6



01:36:03 21.12.2017

**Plot 7-181. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 132 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2442MHz  
 Channel: 7



00:33:09 21.12.2017

**Plot 7-182. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 133 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2447MHz  
 Channel: 8

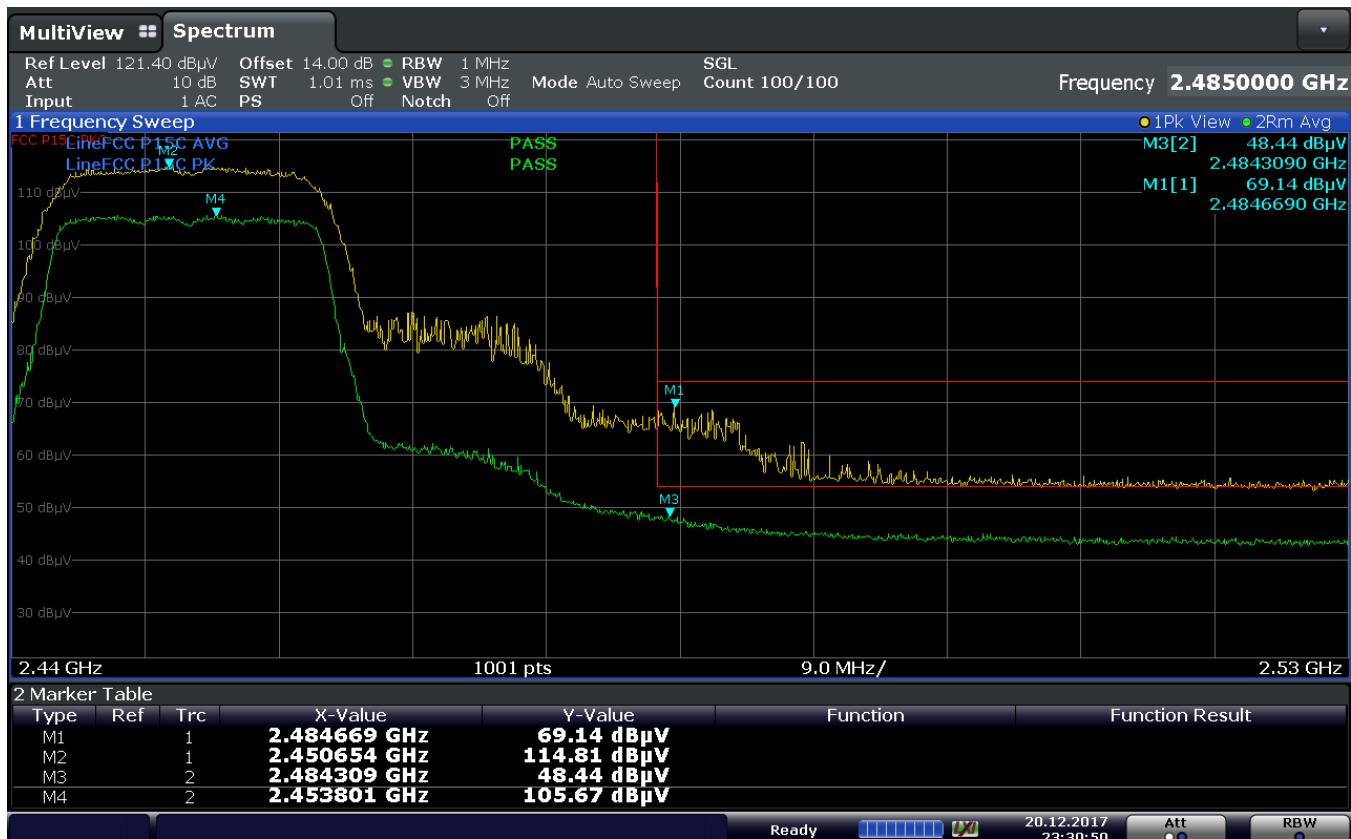


23:56:22 20.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 134 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2452MHz  
 Channel: 9



23:30:50 20.12.2017

**Plot 7-184. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 135 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

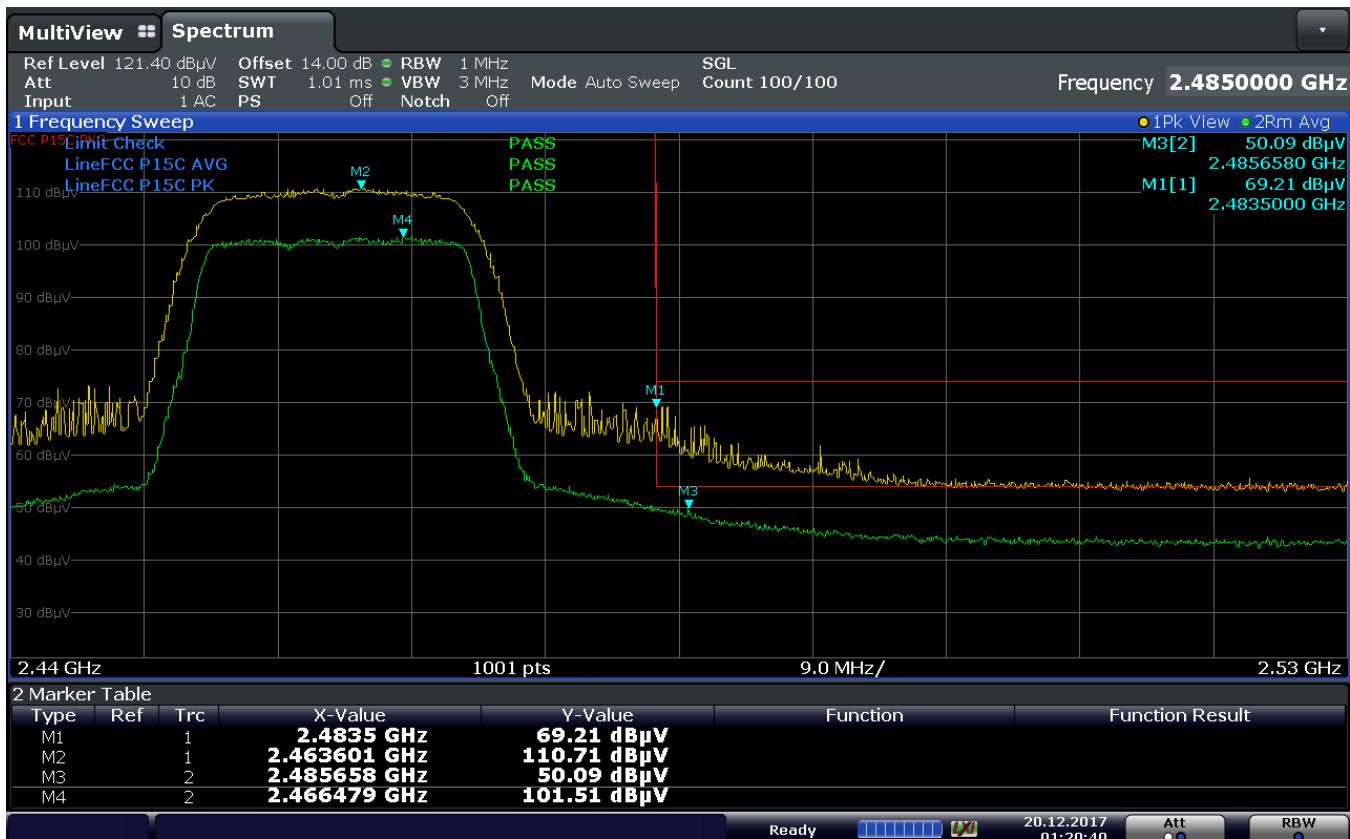


22:52:49 20.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 136 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

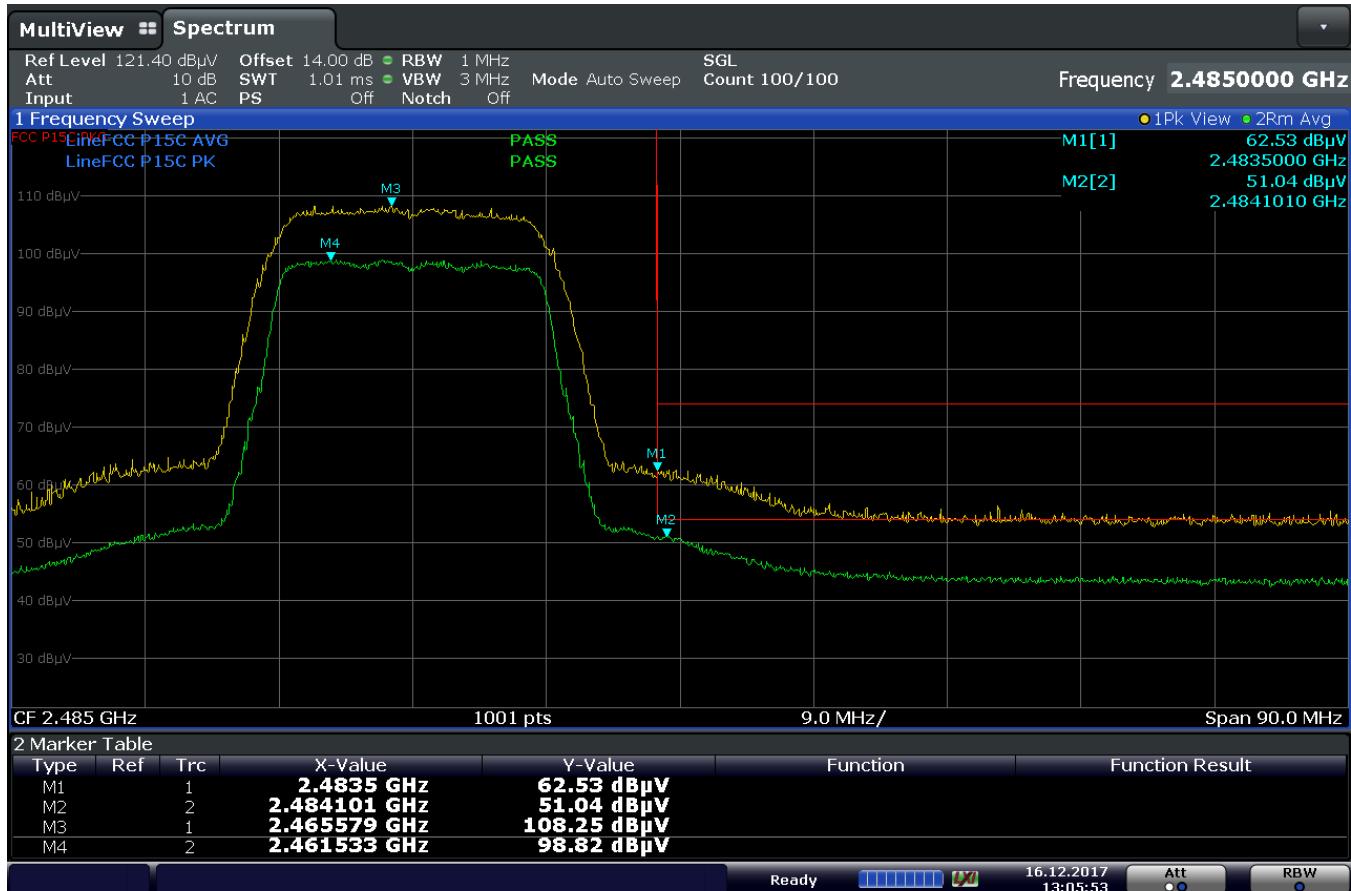


01:20:40 20.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 137 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2467MHz  
 Channel: 12

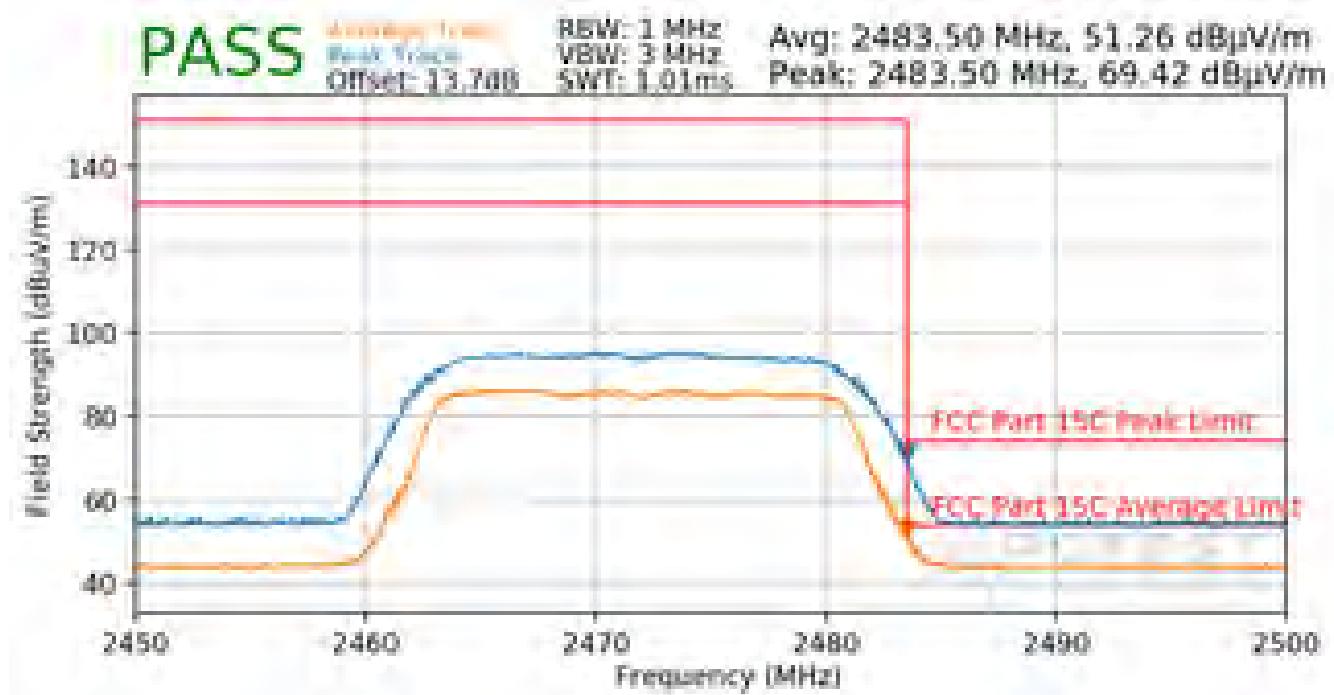


13:05:54 16.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 138 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13



Plot 7-188. Radiated Restricted Upper Band Edge Measurement (Average & Peak)

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 139 of 173

## 7.7.5 Antenna-2 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: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1



22:41:34 19.12.2017

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

FCC ID: BCGA1893	 PCTEST® ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 140 of 173

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

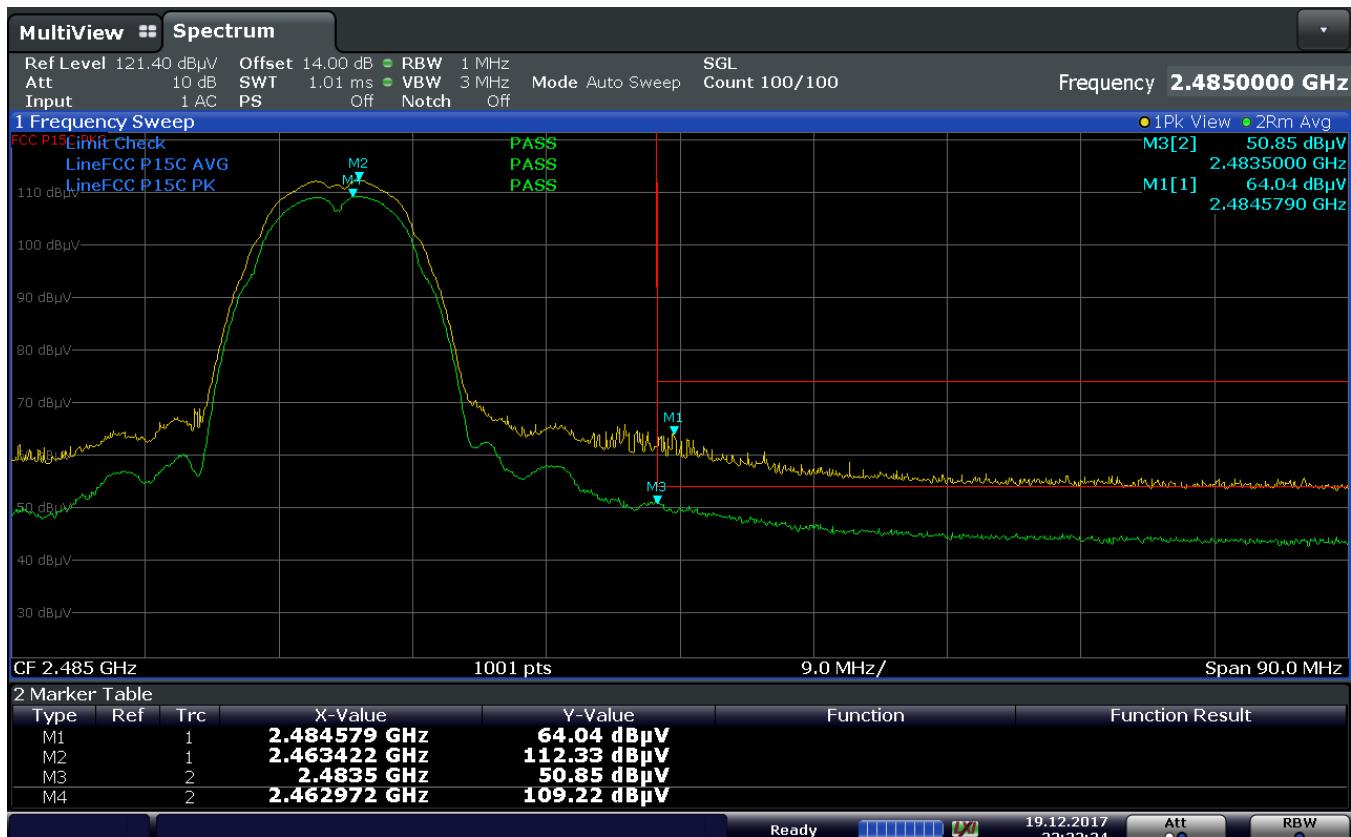


23:42:35 19.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 141 of 173

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

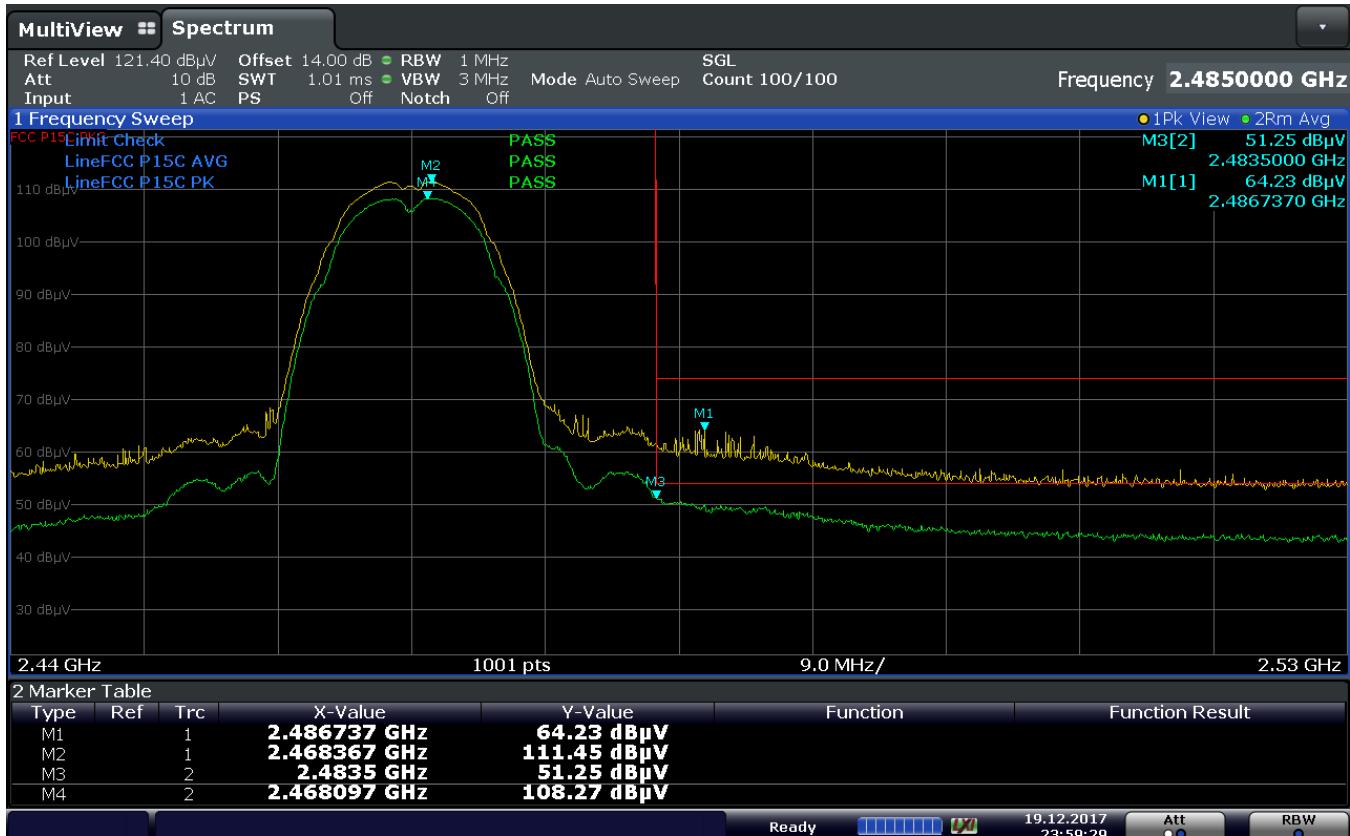


23:22:34 19.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 142 of 173

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2467MHz  
 Channel: 12

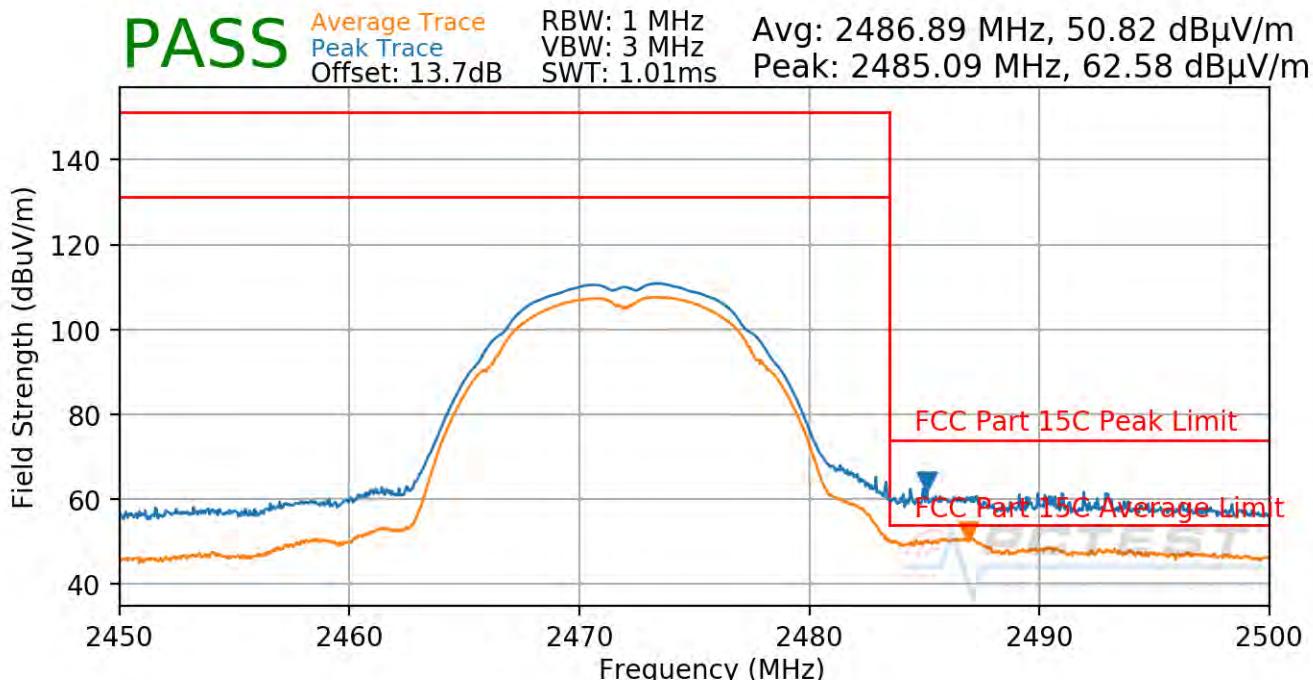


23:59:29 19.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 143 of 173

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13

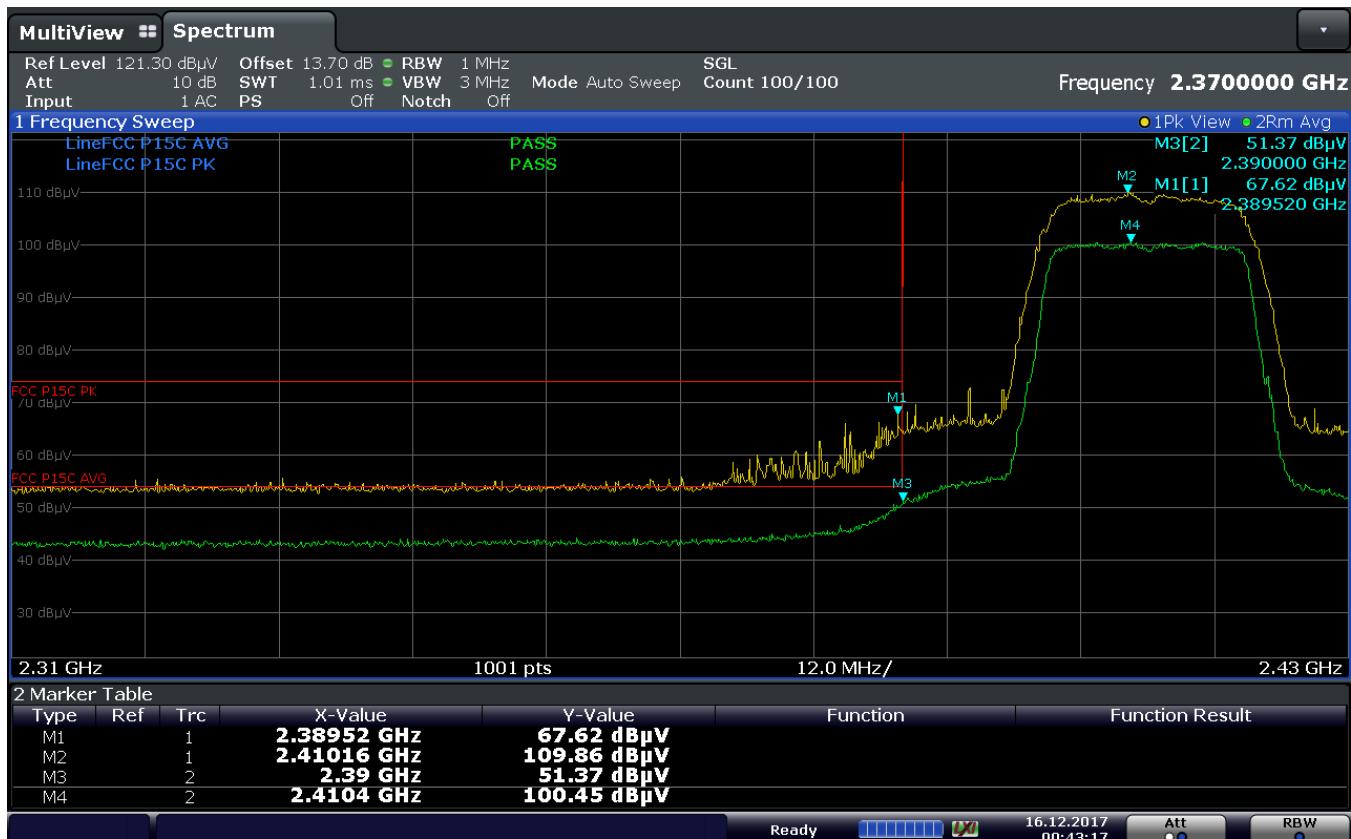


**Plot 7-193. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 144 of 173	



Worst Case Mode:	802.11n
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



00:43:17 16.12.2017

**Plot 7-194. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 145 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2417MHz  
 Channel: 2



15:09:08 22.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 146 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2422MHz  
 Channel: 3



12:15:50 21.12.2017

**Plot 7-196. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 147 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2427MHz  
 Channel: 4



11:03:43 21.12.2017

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

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 148 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2432MHz  
 Channel: 5



11:11:02 21.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 149 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2442MHz  
 Channel: 7



11:56:31 21.12.2017

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

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 150 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2447MHz  
 Channel: 8

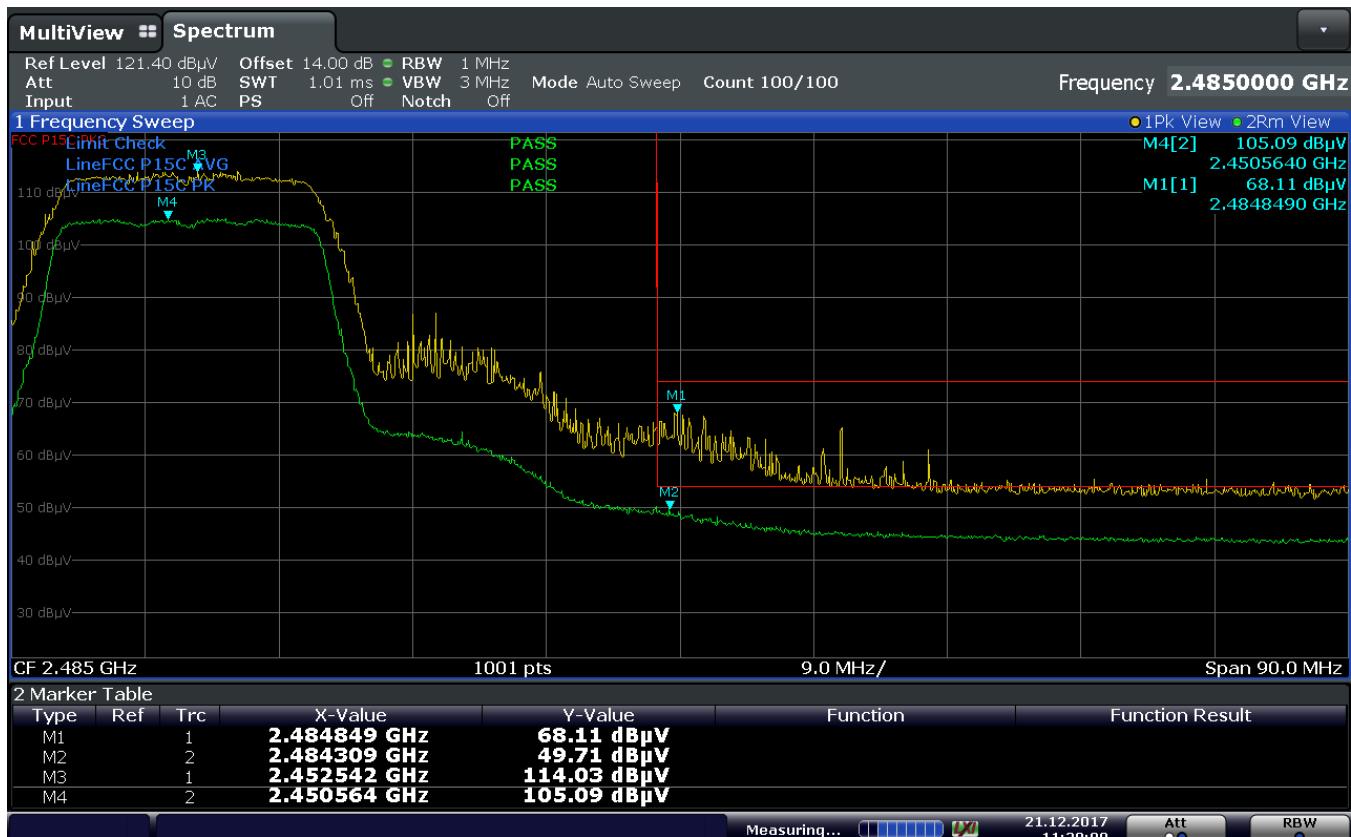


11:49:35 21.12.2017

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

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 151 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2452MHz  
 Channel: 9

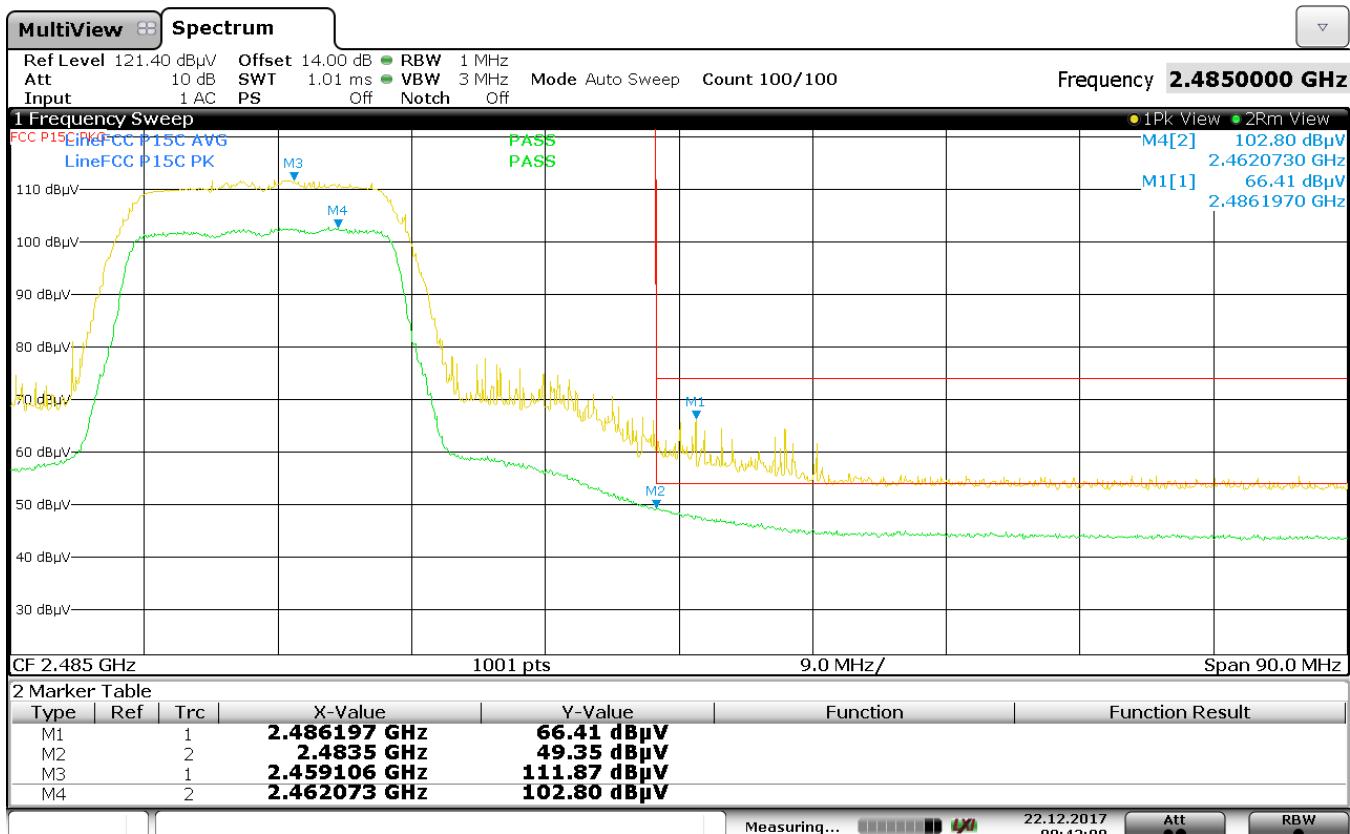


11:28:01 21.12.2017

**Plot 7-201. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 152 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

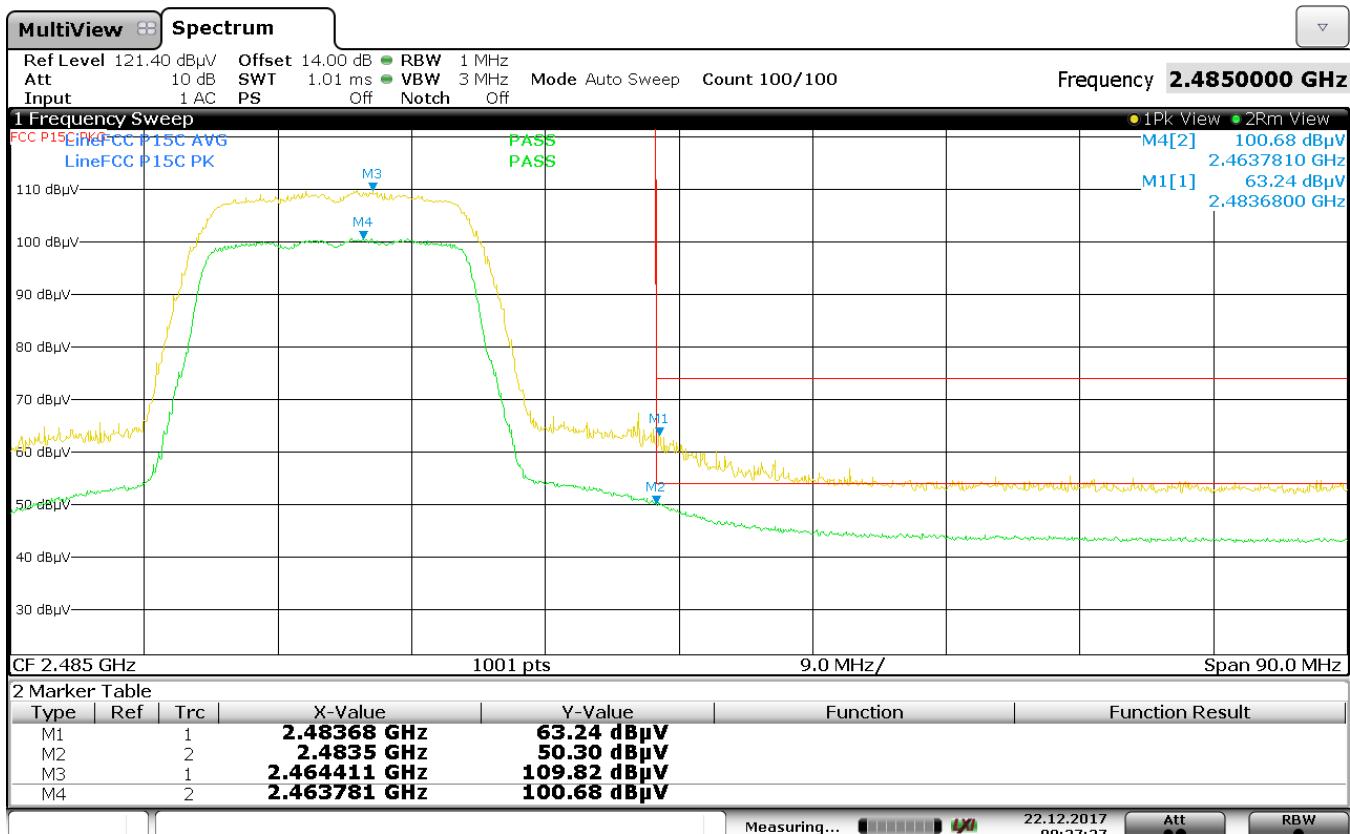


09:42:08 22.12.2017

**Plot 7-202. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 153 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

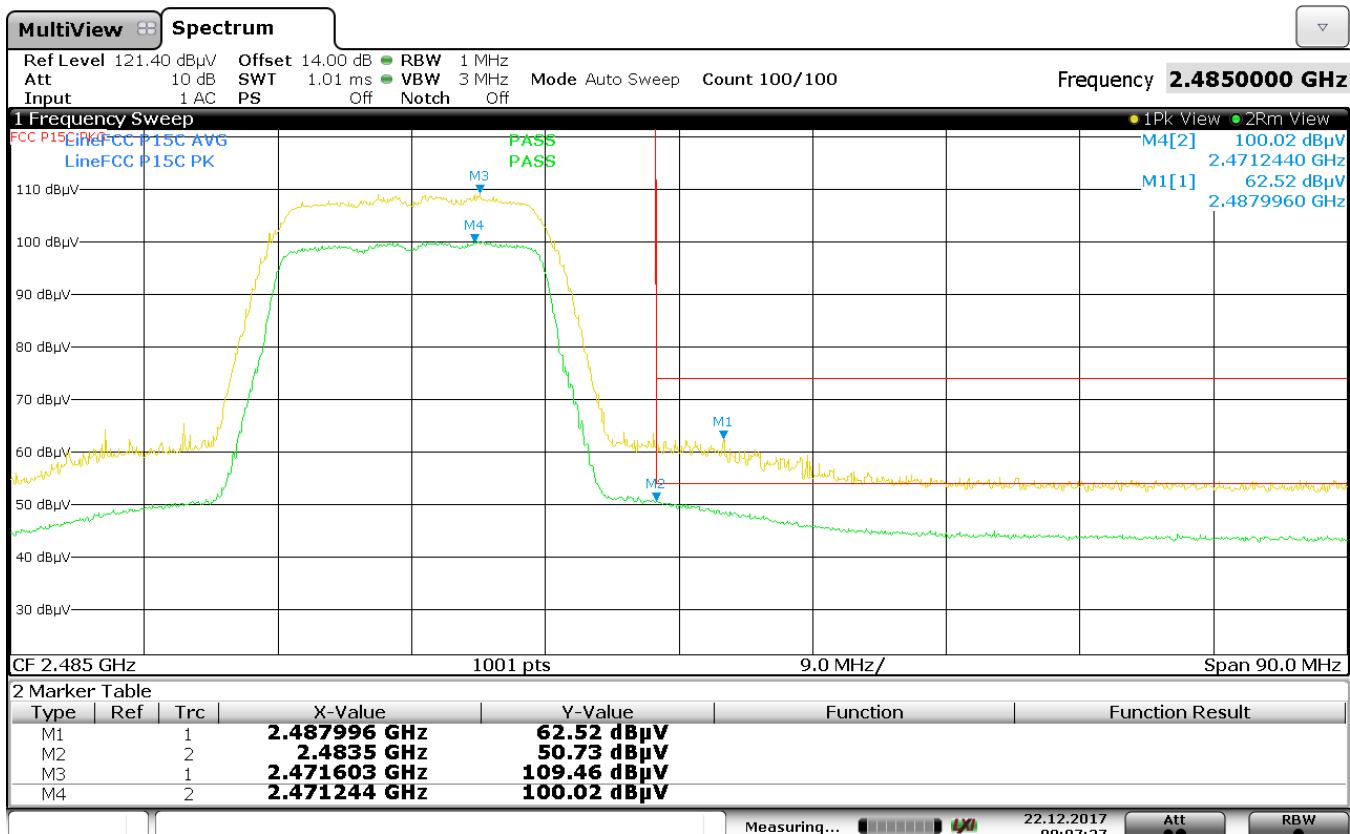


09:27:27 22.12.2017

**Plot 7-203. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 154 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2467MHz  
 Channel: 12

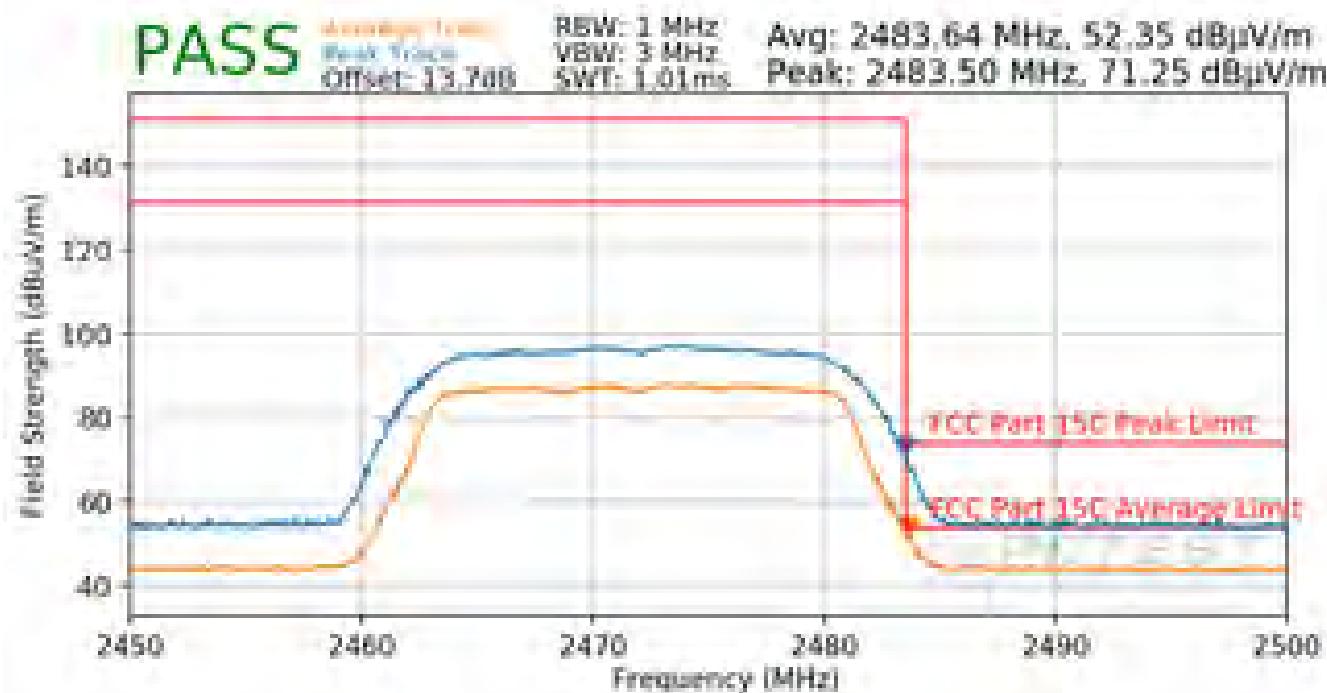


09:07:37 22.12.2017

**Plot 7-204. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 155 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13



Plot 7-205. Radiated Restricted Upper Band Edge Measurement (Average & Peak)

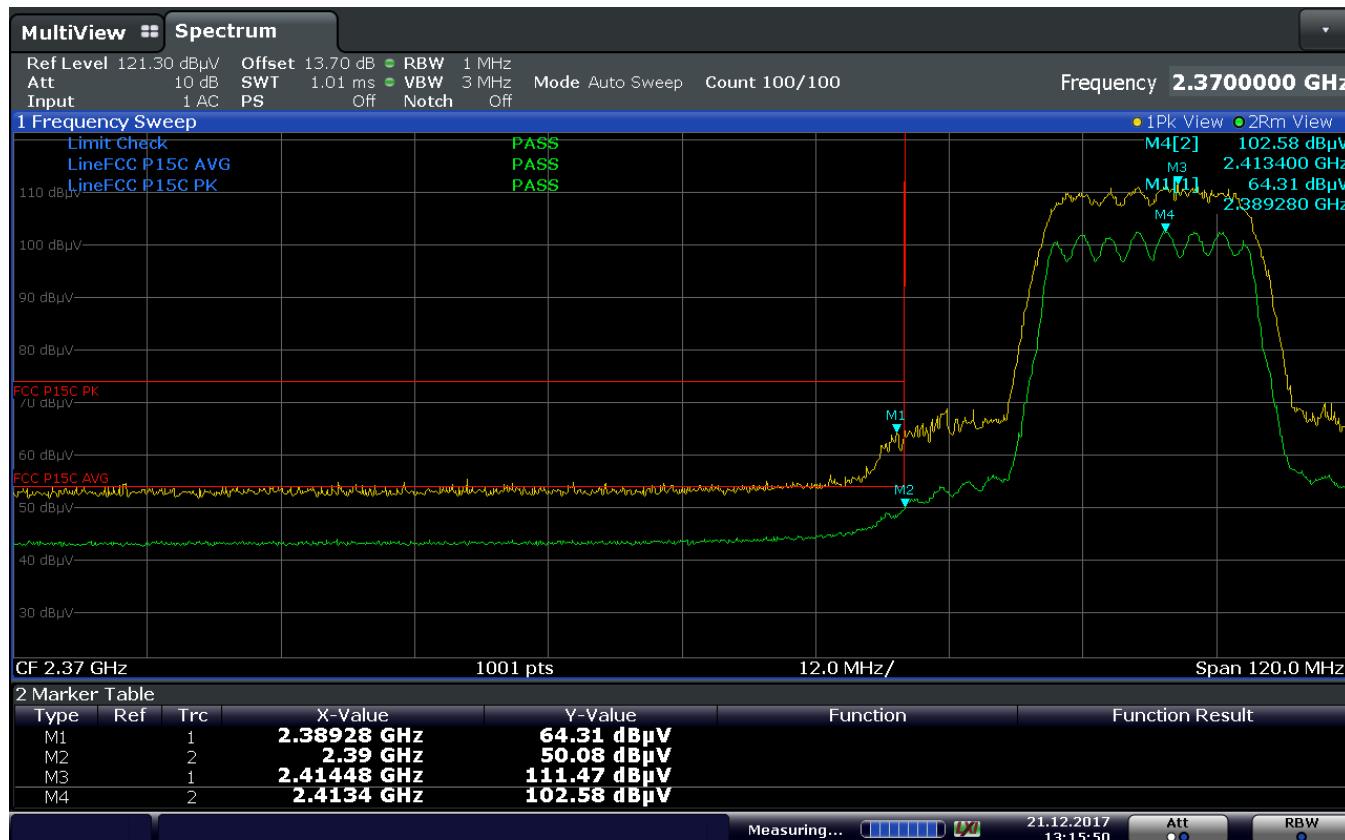
FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 156 of 173	

## 7.7.6 MIMO 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: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1



13:15:51 21.12.2017

**Plot 7-206. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 157 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2417MHz  
 Channel: 2



07:52:08 16.12.2017

**Plot 7-207. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 158 of 173

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

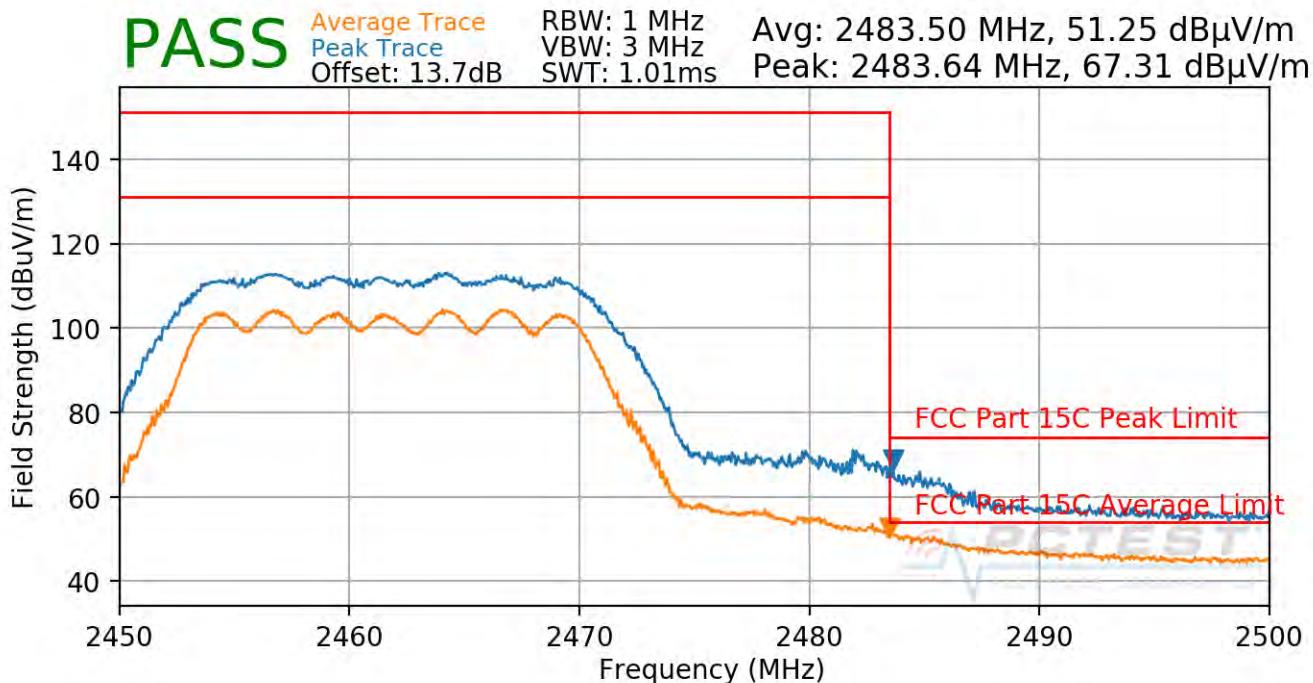


08:17:52 16.12.2017

**Plot 7-208. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 159 of 173

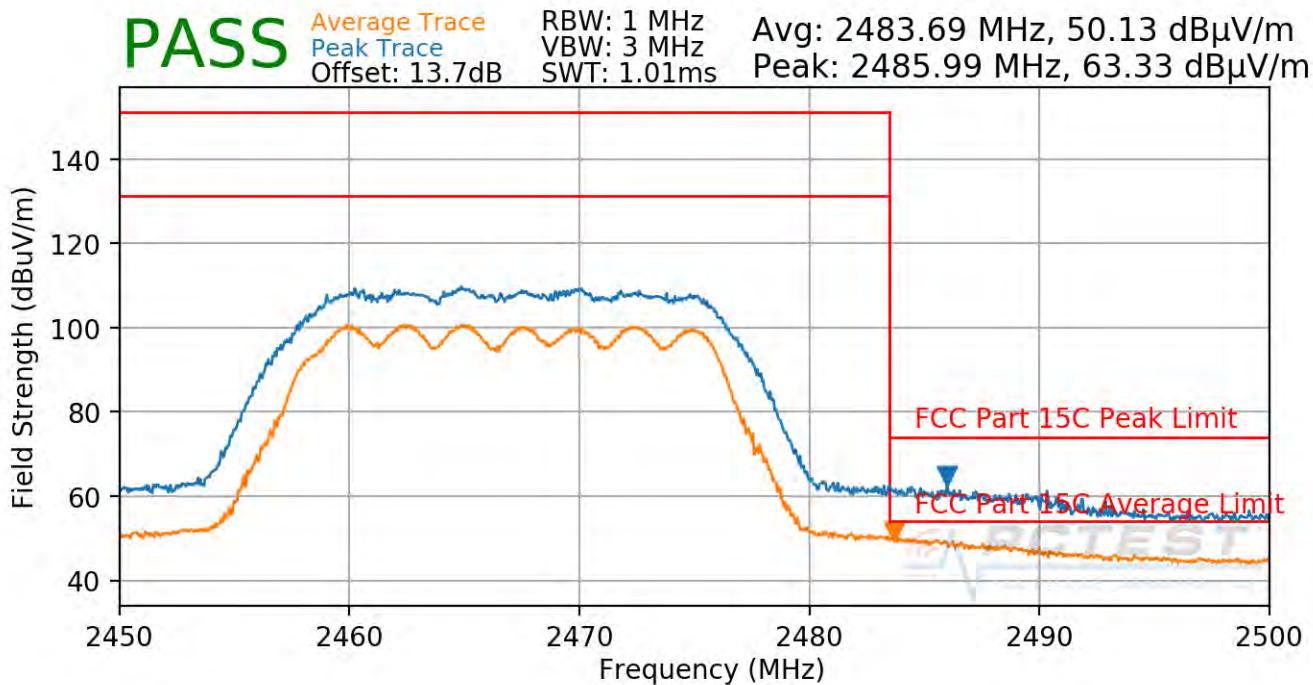
Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



**Plot 7-209. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 160 of 173

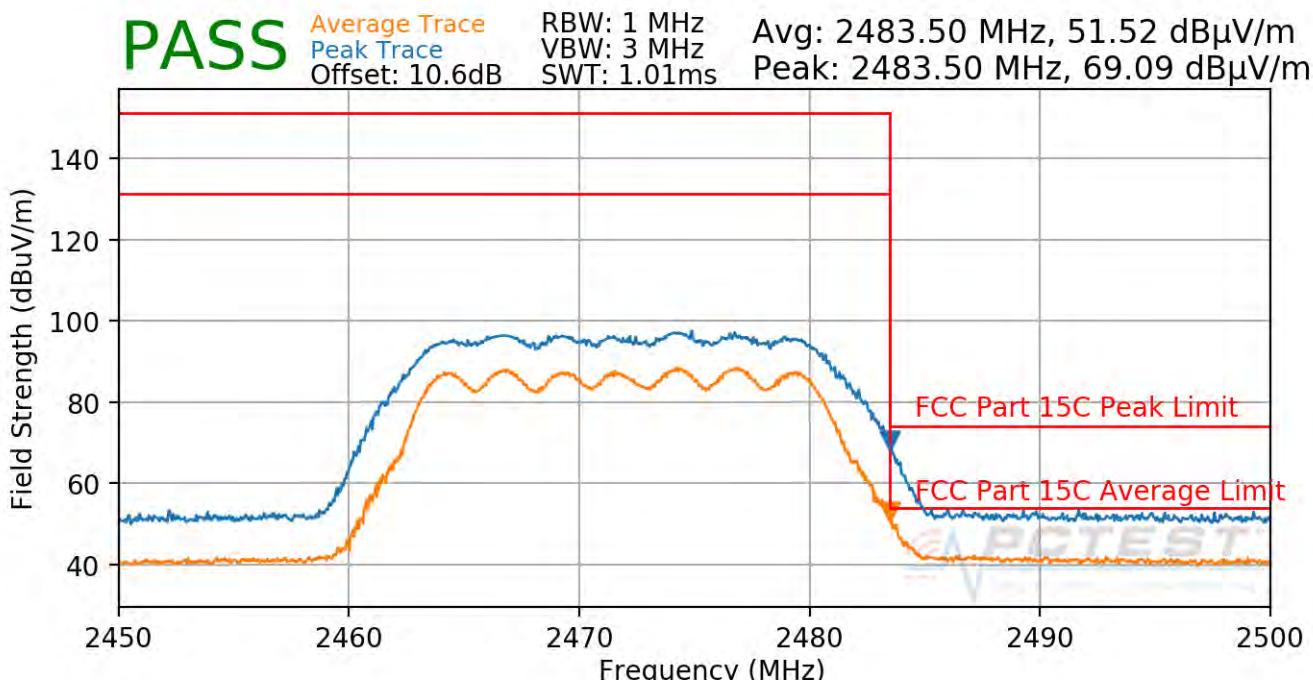
Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2467MHz  
 Channel: 12



**Plot 7-210. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 161 of 173	

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13



**Plot 7-211. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 162 of 173	

## 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 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-26 per Section 15.209 and RSS-Gen (8.9).**

Frequency	Field Strength [ $\mu$ 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 7-26. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

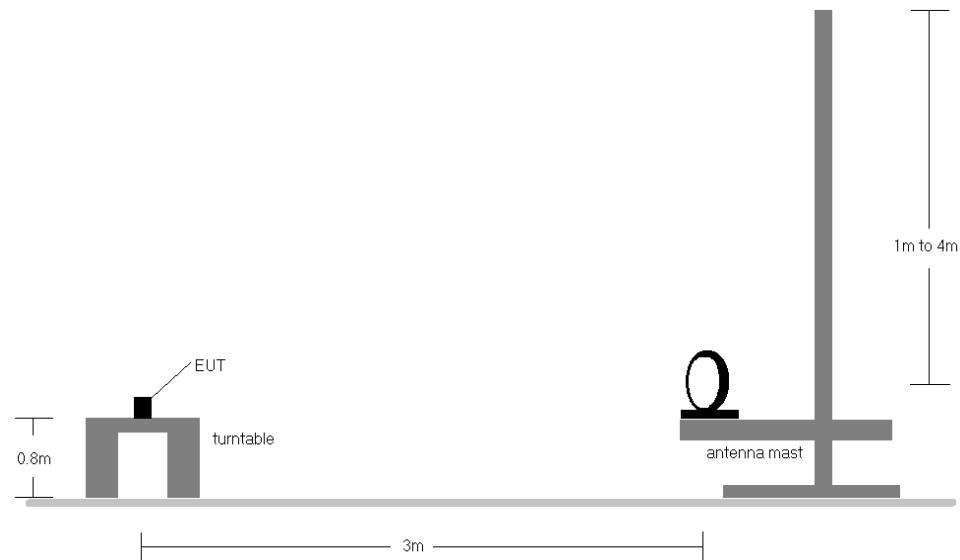
#### Quasi-Peak Field Strength Measurements

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

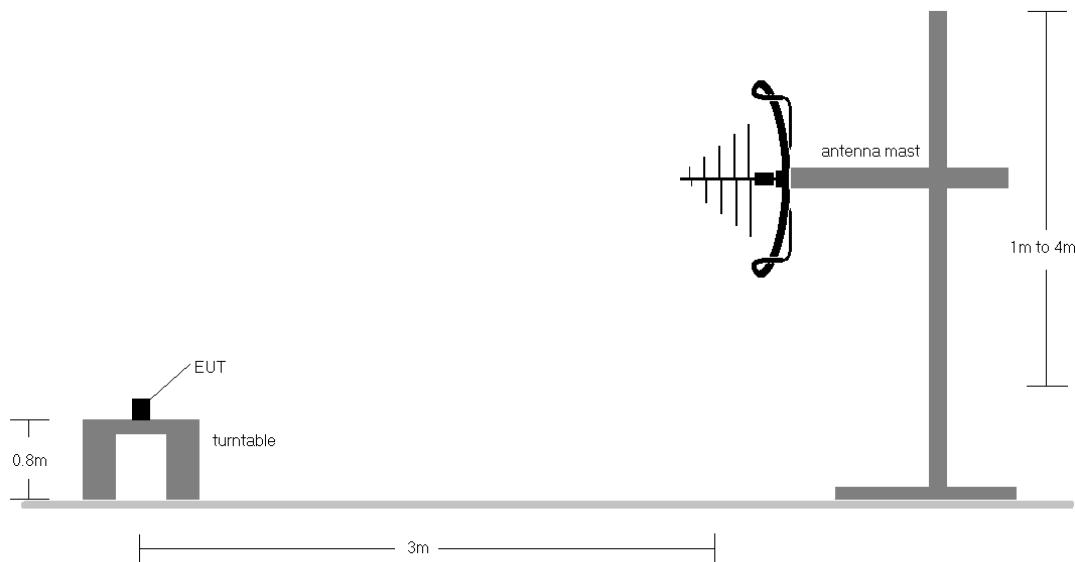
FCC ID: BCGA1893	 <b>PCTEST®</b> <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060005-02-R1.BCG	Test Dates: 10/31-2/19/2018	EUT Type: Tablet Device	Page 163 of 173

## 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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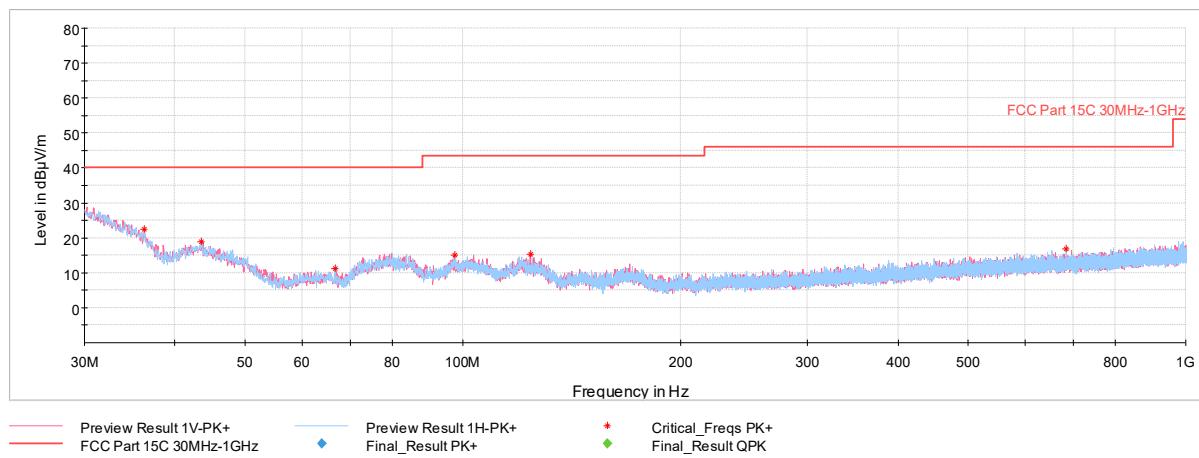
## Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-26.
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. 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 modes were investigated but the highest radiated spurious emissions are provided.

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## Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-212. Radiated Spurious Plot below 1GHz (802.11b – Ch. 7, Pol. H & V)**

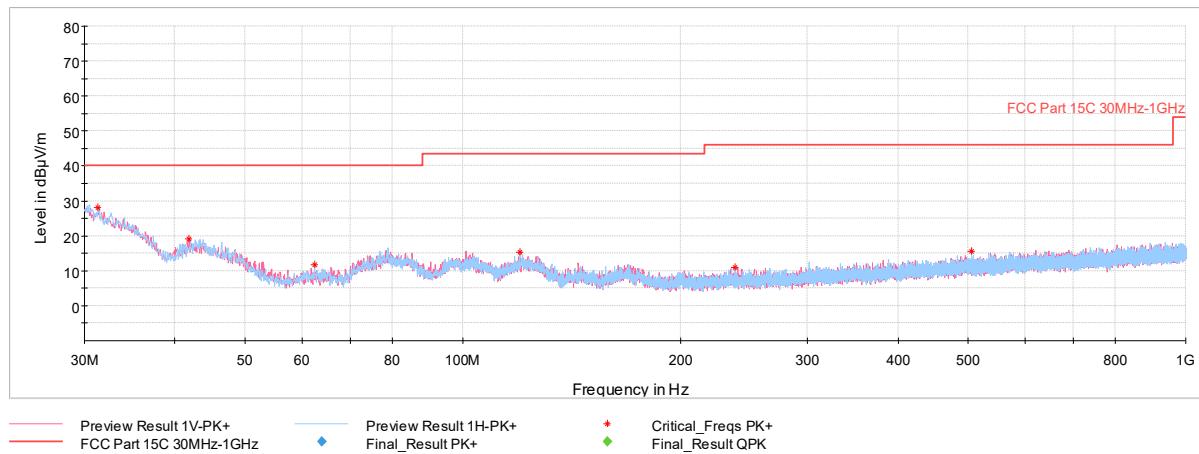
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
36.31	Quasi-Peak	V	-	-	-65.61	-18.90	22.49	40.00	-17.51
43.58	Quasi-Peak	H	-	-	-64.87	-23.22	18.91	40.00	-21.09
66.62	Quasi-Peak	H	-	-	-68.44	-27.43	11.13	40.00	-28.87
97.46	Quasi-Peak	V	-	-	-67.43	-24.56	15.01	43.52	-28.52
124.04	Quasi-Peak	V	-	-	-67.90	-23.90	15.20	43.52	-28.32
684.12	Quasi-Peak	H	-	-	-74.05	-16.17	16.78	46.02	-29.24

**Table 7-27. Radiated Spurious Emissions below 1GHz**

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## Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-213. Radiated Spurious Plot below 1GHz (802.11b – Ch. 7, Pol. H & V)**

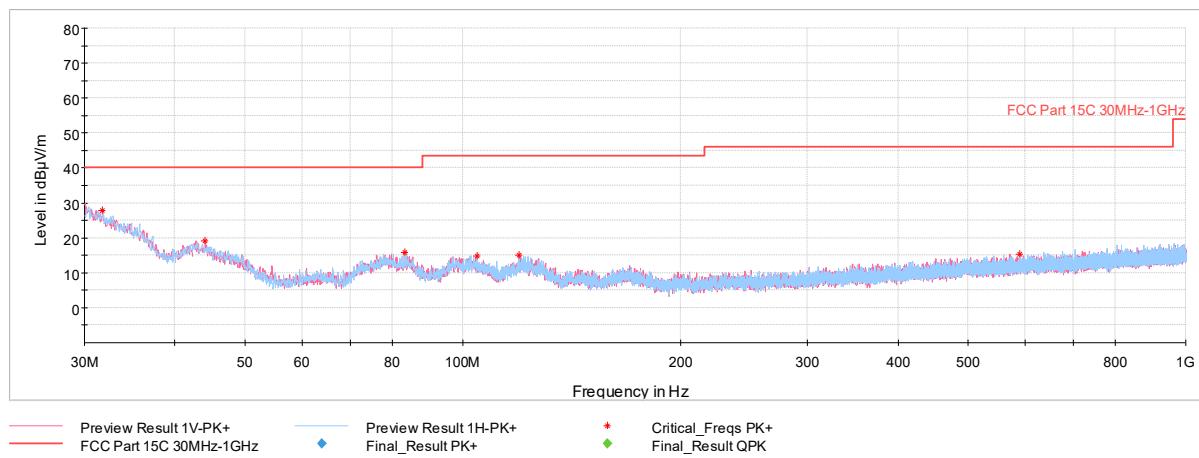
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
31.31	Quasi-Peak	H	-	-	-62.56	-16.23	28.21	40.00	-11.79
41.88	Quasi-Peak	V	-	-	-65.83	-22.14	19.03	40.00	-20.97
62.45	Quasi-Peak	H	-	-	-66.15	-29.21	11.64	40.00	-28.36
119.97	Quasi-Peak	H	-	-	-67.81	-23.76	15.43	43.52	-28.09
238.36	Quasi-Peak	H	-	-	-71.38	-24.67	10.95	46.02	-35.07
506.27	Quasi-Peak	H	-	-	-72.66	-18.72	15.62	46.02	-30.40

**Table 7-28. Radiated Spurious Emissions below 1GHz**

FCC ID: BCGA1893		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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## MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-214. Radiated Spurious Plot below 1GHz (802.11n – Ch. 7, Pol. H & V)**

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]
31.79	Quasi-Peak	V	-	-	-62.54	-16.50	27.96	40.00	-12.04
44.02	Quasi-Peak	V	-	-	-64.32	-23.50	19.18	40.00	-20.82
83.11	Quasi-Peak	V	-	-	-66.44	-24.75	15.81	40.00	-24.19
104.64	Quasi-Peak	H	-	-	-67.70	-24.44	14.86	43.52	-28.66
119.82	Quasi-Peak	V	-	-	-68.12	-23.76	15.12	43.52	-28.40
589.01	Quasi-Peak	H	-	-	-74.23	-17.39	15.38	46.02	-30.64

**Table 7-29. Radiated Spurious Emissions below 1GHz**

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## 7.9 Line-Conducted Test Data

§15.207; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

**All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).**

Frequency of emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-30. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

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

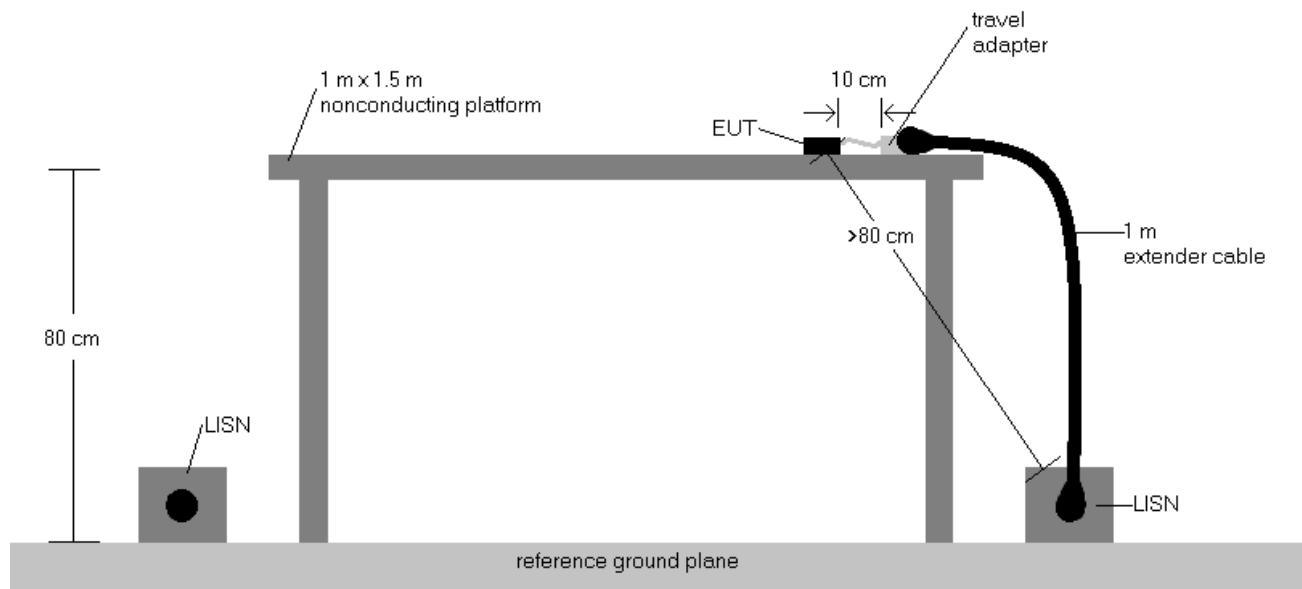
#### Average Field Strength Measurements

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

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## Test Setup

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

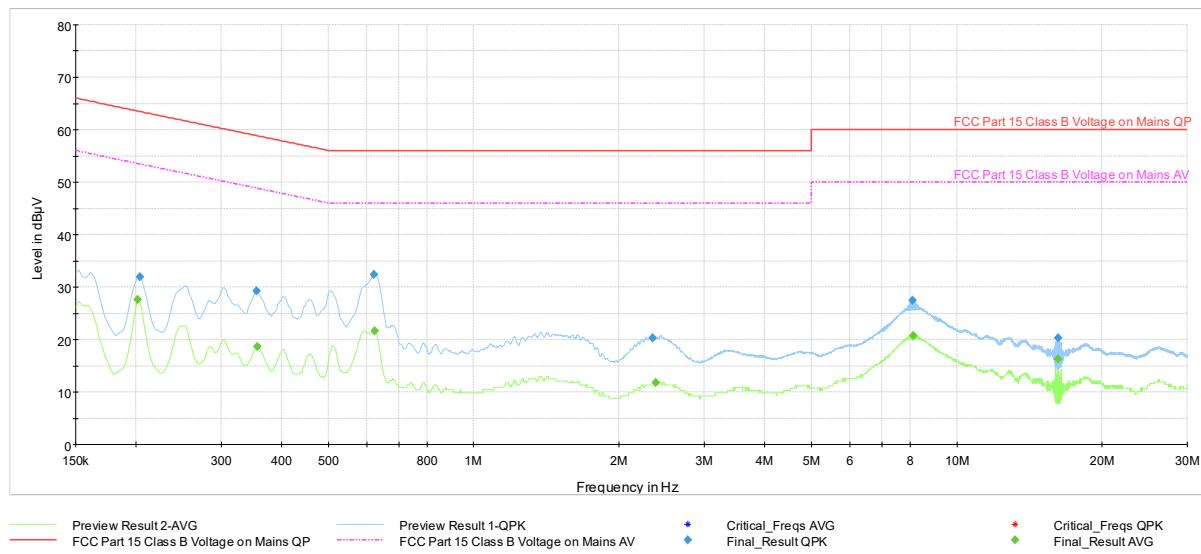


**Figure 7-9. Test Instrument & Measurement Setup**

## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dB $\mu$ V) = QP/AV Analyzer/Receiver Level (dB $\mu$ V) + Corr. (dB)
5. Margin (dB) = QP/AV Limit (dB $\mu$ V) - QP/AV Level (dB $\mu$ V)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

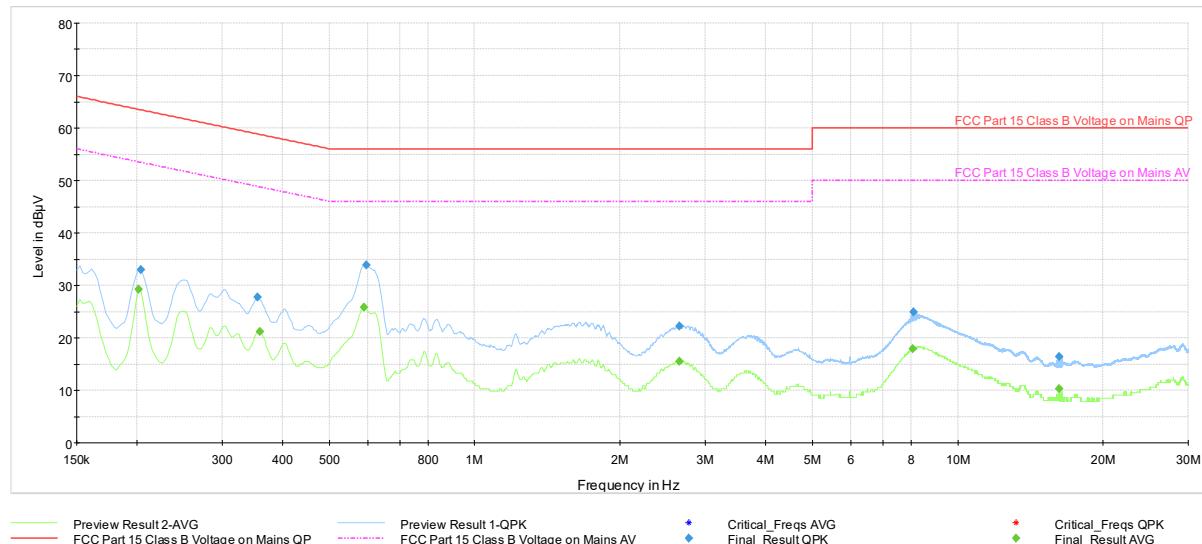
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**Plot 7-215. Line Conducted Plot with 802.11b (L1)**

Frequency MHz	Process State	QuasiPeak dB $\mu$ V	Average dB $\mu$ V	Limit dB $\mu$ V	Margin dB	Meas. Time ms	Bandwidth kHz	Line	PE
0.201750	FINAL	—	27.67	53.54	25.87	10000.0	9.000	L1	GND
0.204000	FINAL	31.96	—	63.45	31.49	10000.0	9.000	L1	GND
0.354750	FINAL	29.30	—	58.85	29.55	10000.0	9.000	L1	GND
0.357000	FINAL	—	18.65	48.80	30.15	10000.0	9.000	L1	GND
0.622500	FINAL	32.36	—	56.00	23.64	10000.0	9.000	L1	GND
0.624750	FINAL	—	21.58	46.00	24.42	10000.0	9.000	L1	GND
2.348250	FINAL	20.30	—	56.00	35.70	10000.0	9.000	L1	GND
2.382000	FINAL	—	11.76	46.00	34.24	10000.0	9.000	L1	GND
8.110500	FINAL	27.46	—	60.00	32.54	10000.0	9.000	L1	GND
8.119500	FINAL	—	20.68	50.00	29.32	10000.0	9.000	L1	GND
16.221750	FINAL	20.24	—	60.00	39.76	10000.0	9.000	L1	GND
16.221750	FINAL	—	16.31	50.00	33.69	10000.0	9.000	L1	GND

**Table 7-31. Line Conducted Table with 802.11b (L1)**

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**Plot 7-216. Line Conducted Plot with 802.11b (N)**

Frequency MHz	Process State	QuasiPeak dBμV	Average dBμV	Limit dBμV	Margin dB	Meas. Time ms	Bandwidth kHz	Line	PE
0.201750	FINAL	—	29.18	53.54	24.36	10000.0	9.000	N	GND
0.204000	FINAL	33.00	—	63.45	30.45	10000.0	9.000	N	GND
0.354750	FINAL	27.76	—	58.85	31.09	10000.0	9.000	N	GND
0.359250	FINAL	—	21.17	48.75	27.57	10000.0	9.000	N	GND
0.591000	FINAL	—	25.86	46.00	20.14	10000.0	9.000	N	GND
0.595500	FINAL	33.88	—	56.00	22.12	10000.0	9.000	N	GND
2.652000	FINAL	22.22	—	56.00	33.78	10000.0	9.000	N	GND
2.654250	FINAL	—	15.50	46.00	30.50	10000.0	9.000	N	GND
8.065500	FINAL	—	17.97	50.00	32.03	10000.0	9.000	N	GND
8.110500	FINAL	24.87	—	60.00	35.13	10000.0	9.000	N	GND
16.219500	FINAL	16.43	—	60.00	43.57	10000.0	9.000	N	GND
16.219500	FINAL	—	10.32	50.00	39.68	10000.0	9.000	N	GND

**Table 7-32. Line Conducted Table with 802.11b (N)**

FCC ID: BCGA1893	 PCTEST® ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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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: BCGA1893** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA1893	 <b>PCTEST</b> <sup>®</sup> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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