

# 7.3 Occupied Bandwidth

#### §2.1049

#### **Test Overview**

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

## **Test Procedure Used**

KDB 971168 D01 v03 - Section 4.2

## **Test Settings**

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2-7 were repeated after changing the RBW such that it would be within
  - 1 5% of the 99% occupied bandwidth observed in Step 7

#### **Test Setup**

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

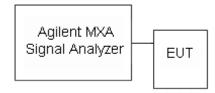


Figure 7-1. Test Instrument & Measurement Setup

## **Test Notes**

None.

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### Band 41 - Antenna 1



Plot 7-97. Occupied Bandwidth Plot (Band 41 - 5.0MHz QPSK)

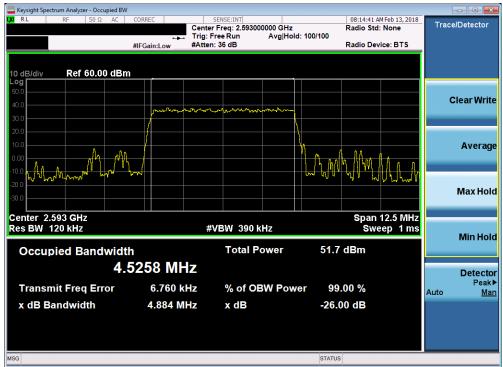


Plot 7-98. Occupied Bandwidth Plot (Band 41 - 5.0MHz 16-QAM)

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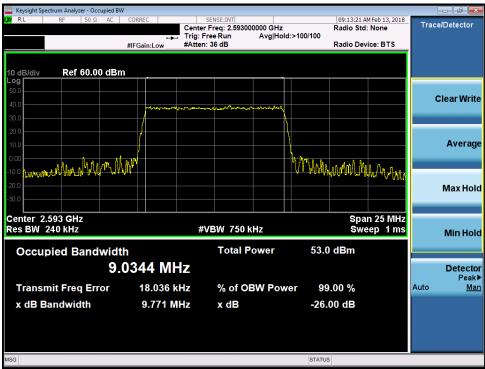
Plot 7-99. Occupied Bandwidth Plot (Band 41 - 5.0MHz 64-QAM)



Plot 7-100. Occupied Bandwidth Plot (Band 41 - 5.0MHz 256-QAM)

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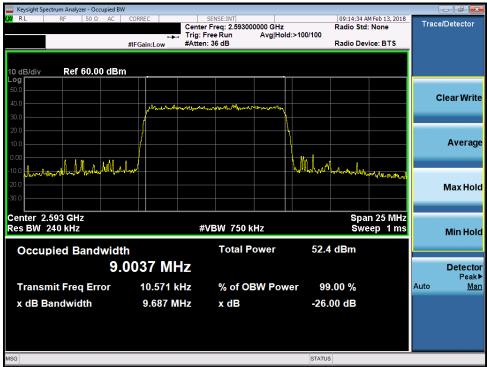
Plot 7-101. Occupied Bandwidth Plot (Band 41 - 10.0MHz QPSK)



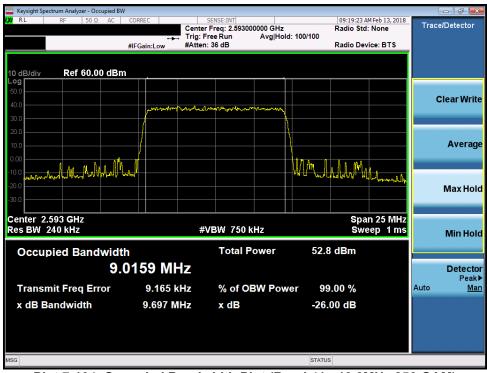
Plot 7-102. Occupied Bandwidth Plot (Band 41 - 10.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-103. Occupied Bandwidth Plot (Band 41 - 10.0MHz 64-QAM)



Plot 7-104. Occupied Bandwidth Plot (Band 41 - 10.0MHz 256-QAM)

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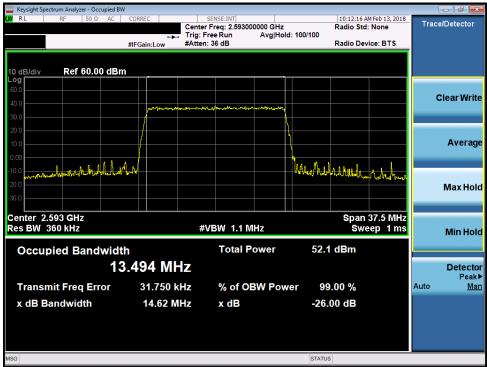
Plot 7-105. Occupied Bandwidth Plot (Band 41 - 15.0MHz QPSK)



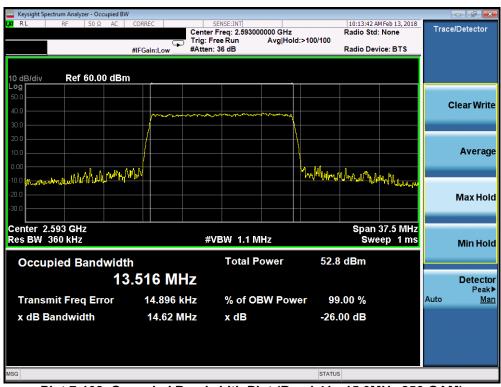
Plot 7-106. Occupied Bandwidth Plot (Band 41 - 15.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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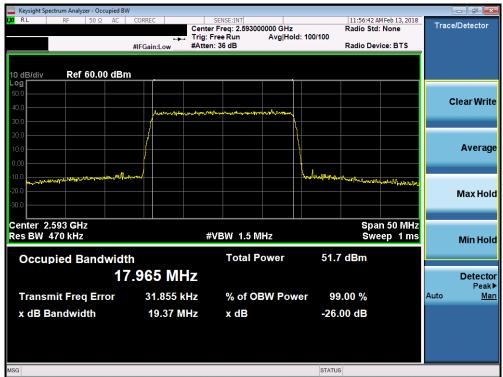
Plot 7-107. Occupied Bandwidth Plot (Band 41 - 15.0MHz 64-QAM)



Plot 7-108. Occupied Bandwidth Plot (Band 41 - 15.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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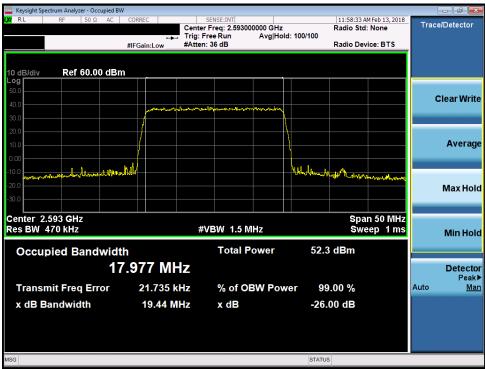
Plot 7-109. Occupied Bandwidth Plot (Band 41 - 20.0MHz QPSK)



Plot 7-110. Occupied Bandwidth Plot (Band 41 - 20.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-111. Occupied Bandwidth Plot (Band 41 - 20.0MHz 64-QAM)



Plot 7-112. Occupied Bandwidth Plot (Band 41 - 20.0MHz 256-QAM)

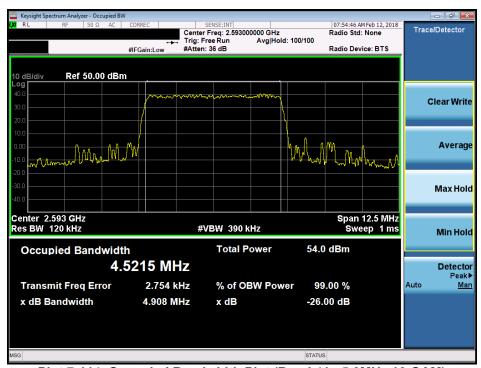
FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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### Band 41 - Antenna 2



Plot 7-113. Occupied Bandwidth Plot (Band 41 - 5.0MHz QPSK)



Plot 7-114. Occupied Bandwidth Plot (Band 41 - 5.0MHz 16-QAM)

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Plot 7-115. Occupied Bandwidth Plot (Band 41 - 5.0MHz 64-QAM)



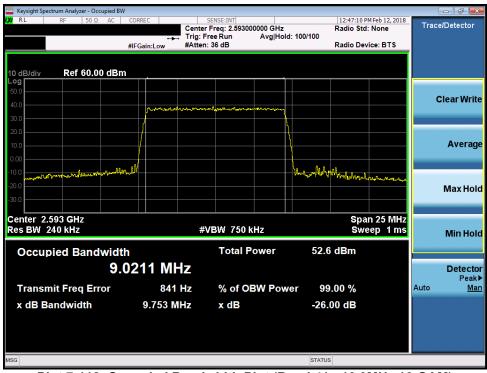
Plot 7-116. Occupied Bandwidth Plot (Band 41 - 5.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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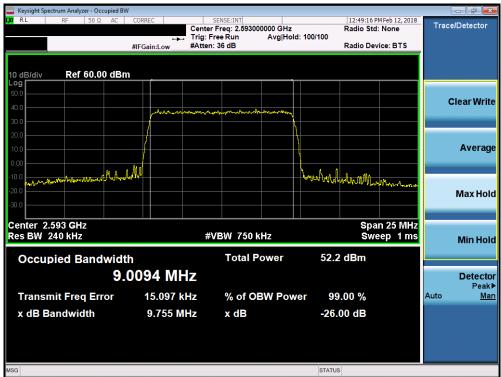
Plot 7-117. Occupied Bandwidth Plot (Band 41 - 10.0MHz QPSK)



Plot 7-118. Occupied Bandwidth Plot (Band 41 - 10.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-119. Occupied Bandwidth Plot (Band 41 - 10.0MHz 64-QAM)



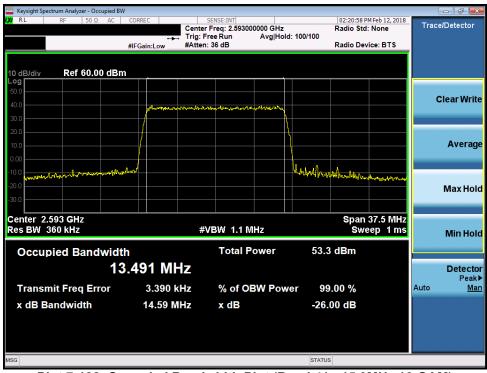
Plot 7-120. Occupied Bandwidth Plot (Band 41 - 10.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-121. Occupied Bandwidth Plot (Band 41 - 15.0MHz QPSK)



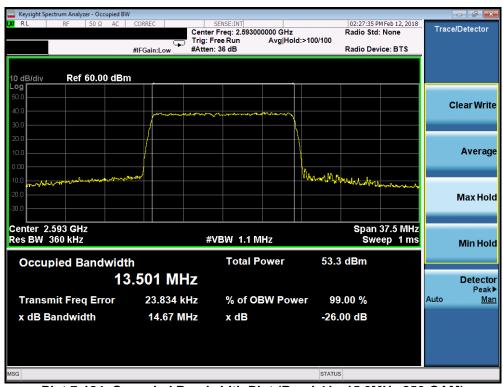
Plot 7-122. Occupied Bandwidth Plot (Band 41 - 15.0MHz 16-QAM)

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Plot 7-123. Occupied Bandwidth Plot (Band 41 - 15.0MHz 64-QAM)



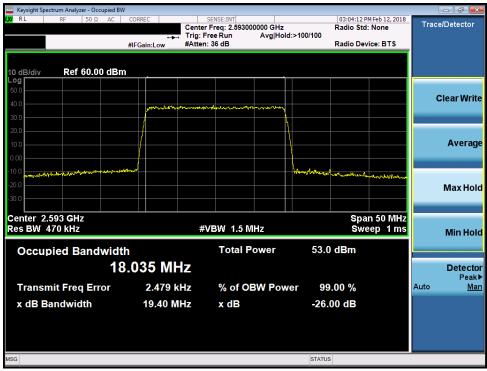
Plot 7-124. Occupied Bandwidth Plot (Band 41 - 15.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-125. Occupied Bandwidth Plot (Band 41 - 20.0MHz QPSK)



Plot 7-126. Occupied Bandwidth Plot (Band 41 - 20.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-127. Occupied Bandwidth Plot (Band 41 - 20.0MHz 64-QAM)



Plot 7-128. Occupied Bandwidth Plot (Band 41 - 20.0MHz 256-QAM)

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# 7.4 Out-of-Band Emissions in the Spurious Domain

§2.1051 §27.53(m)

### **Test Overview**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. 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. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 +  $log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

### **Test Procedure Used**

KDB 971168 D01 v03 - Section 6.0

ANSI C63.26-2015 Section 6.4.4.1

## **Test Settings**

- 1. Start frequency was set to 30MHz and stop frequency was set to at least 10 \* the fundamental frequency (separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

# **Test Setup**

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

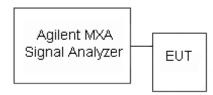


Figure 7-2. Test Instrument & Measurement Setup

# **Test Notes**

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by: Quality Manager
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The plots shown in this section address compliance of each individual antenna to the Part 27.53(m) spurious emission limits. Per ANSI C63.26-2015 Section 6.4.4.1, spurious emission compliance for MIMO operation is addressed by the "Measure and add [10 log N] dB" technique where N = 2 and the resulting spurious emission level addition is 3dB.

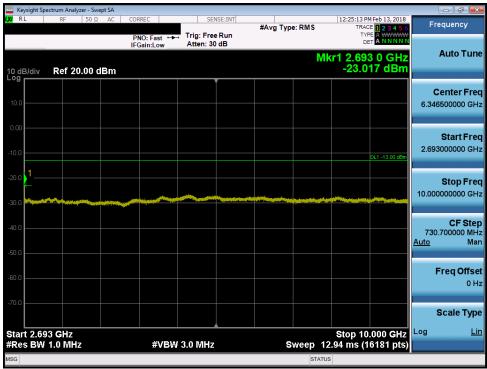
FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by: Quality Manager
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# Band 41 - Antenna 1



Plot 7-129. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Low Channel)



Plot 7-130. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Low Channel)

FCC ID: QLJ4GRFN-041	POTEST V PROTECTION (NO. 1904-1909) (No.	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by: Quality Manager
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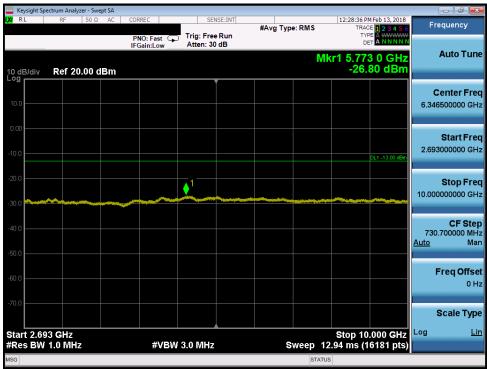
Plot 7-131. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Low Channel)



Plot 7-132. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Mid Channel)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-133. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Mid Channel)



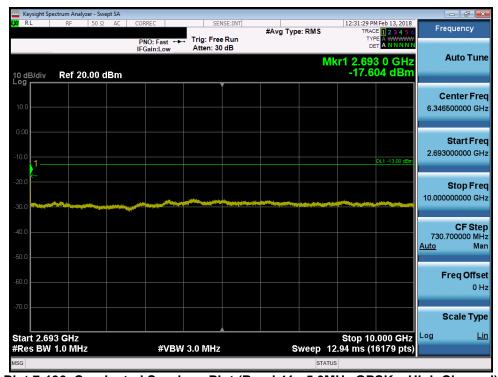
Plot 7-134. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Mid Channel)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-135. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - High Channel)



Plot 7-136. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - High Channel)

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Plot 7-137. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - High Channel)

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# Band 41 - Antenna 2



Plot 7-138. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Low Channel)



Plot 7-139. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Low Channel)

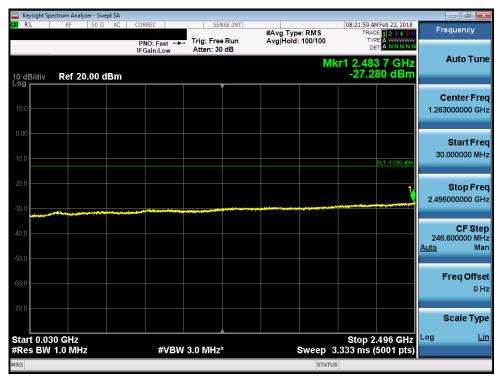
				,
FCC ID: QLJ4GRFN-041	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by:
		(OLIVIII IOATION)	networks	Quality Manager
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Plot 7-140. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Low Channel)



Plot 7-141. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Mid Channel)

FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-142. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Mid Channel)



Plot 7-143. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - Mid Channel)

FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-144. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - High Channel)



Plot 7-145. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - High Channel)

FCC ID: QLJ4GRFN-041	PETEST* yestel/dirt.yabsa-saya,/dir	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-146. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - High Channel)

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# 7.5 Out-of-Band Emissions at the Band Edge

§2.1051 §27.53(m)

#### **Test Overview**

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. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 +  $log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

## **Test Procedure Used**

KDB 971168 D01 v03 - Section 6.0

ANSI C63.26-2015 Section 6.4.4.1

# **Test Settings**

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. VBW  $\geq$  3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

### **Test Setup**

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

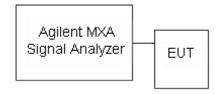


Figure 7-3. Test Instrument & Measurement Setup

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by: Quality Manager
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# **Test Notes**

Per 27.53(m)(6) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

The plots shown in this section address compliance of each individual antenna to the Part 27.53(m) spurious emission limits at the band edge. Per ANSI C63.26-2015 Section 6.4.4.1, spurious emission compliance for MIMO operation is addressed by the "Measure and sum spectral maxima across the outputs" technique. Final MIMO measurement results are shown at the end of this section.

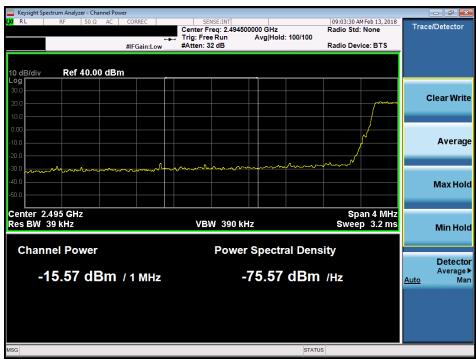
FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by: Quality Manager
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# Band 41 - Antenna 1



Plot 7-147. Lower Band Edge Plot (Band 41 - 5.0MHz QPSK)



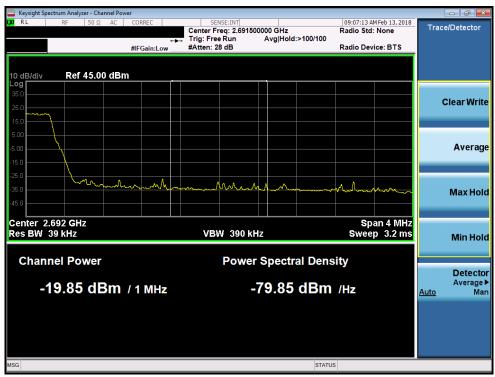
Plot 7-148. Lower Extended Band Edge Plot (Band 41 - 5.0MHz QPSK)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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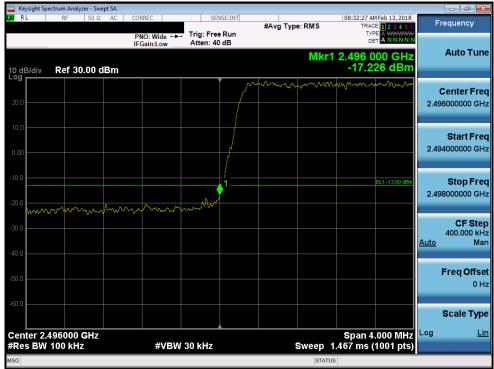
Plot 7-149. Upper Band Edge Plot (Band 41 - 5.0MHz QPSK)



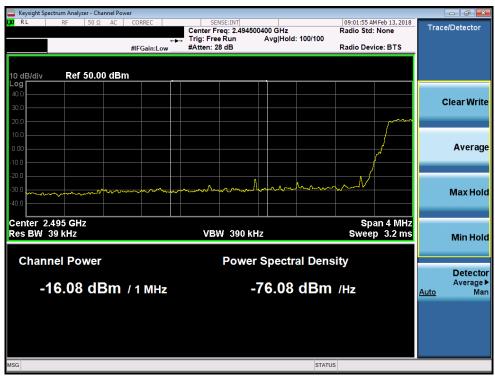
Plot 7-150. Upper Extended Band Edge Plot (Band 41 - 5.0MHz QPSK)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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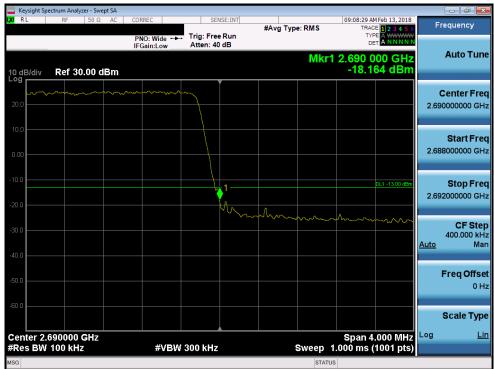
Plot 7-151. Lower Band Edge Plot (Band 41 - 5.0MHz 16-QAM)



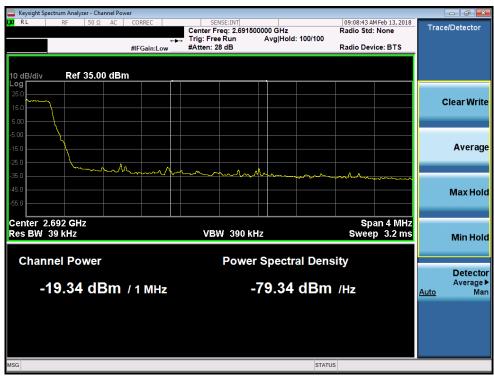
Plot 7-152. Lower Extended Band Edge Plot (Band 41 - 5.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST THE PROPERTY OF THE PRO	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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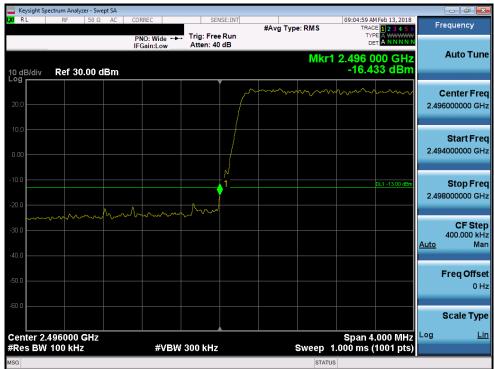
Plot 7-153. Upper Band Edge Plot (Band 41 - 5.0MHz 16-QAM)



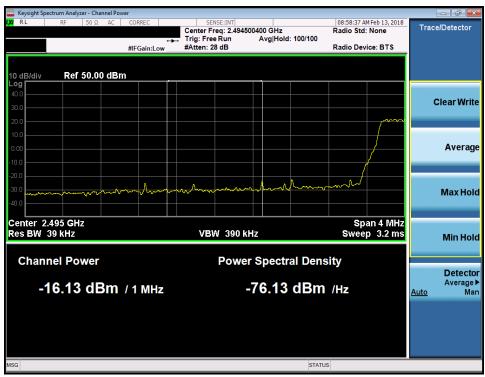
Plot 7-154. Upper Extended Band Edge Plot (Band 41 - 5.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PETEST* (VEDELIA FERENCE DE LA VEDE DE LA VE	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-155. Lower Band Edge Plot (Band 41 - 5.0MHz 64-QAM)



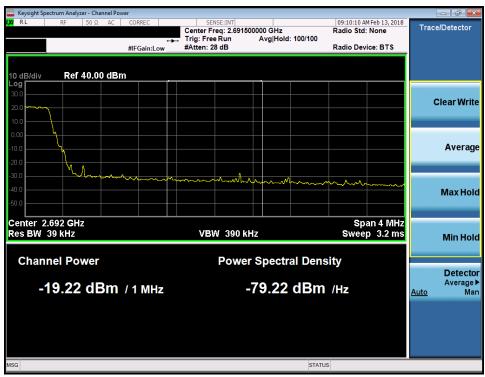
Plot 7-156. Lower Extended Band Edge Plot (Band 41 - 5.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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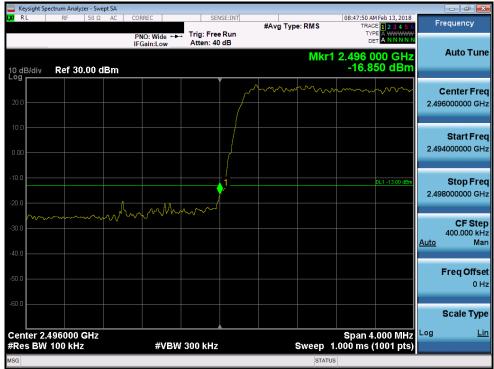
Plot 7-157. Upper Band Edge Plot (Band 41 - 5.0MHz 64-QAM)



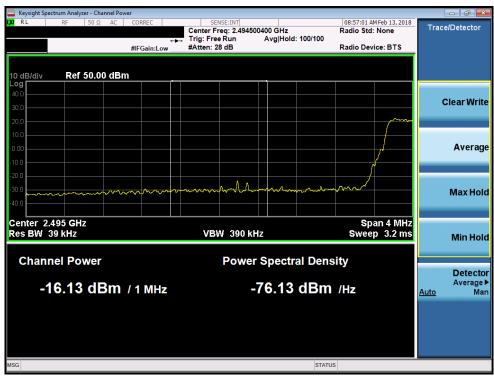
Plot 7-158. Upper Extended Band Edge Plot (Band 41 - 5.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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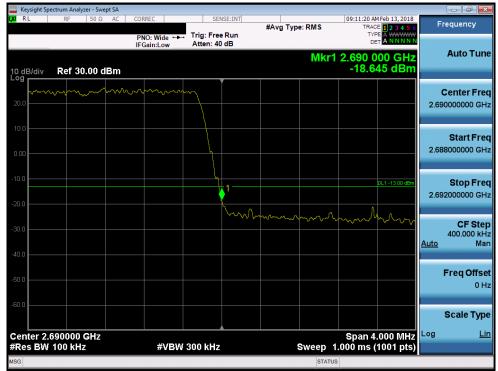
Plot 7-159. Lower Band Edge Plot (Band 41 - 5.0MHz 256-QAM)



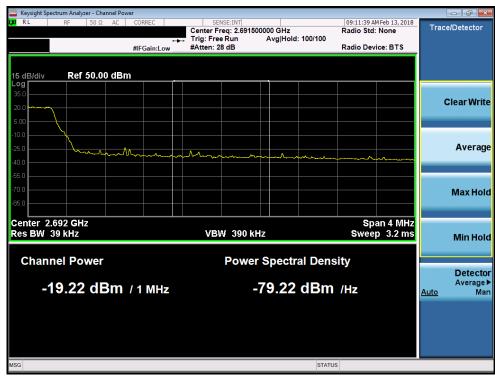
Plot 7-160. Lower Extended Band Edge Plot (Band 41 - 5.0MHz 256-QAM

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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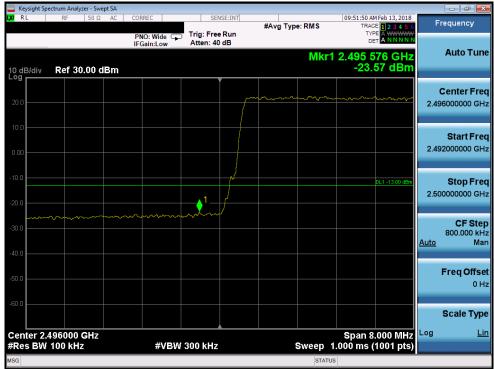
Plot 7-161. Upper Band Edge Plot (Band 41 - 5.0MHz 256-QAM)



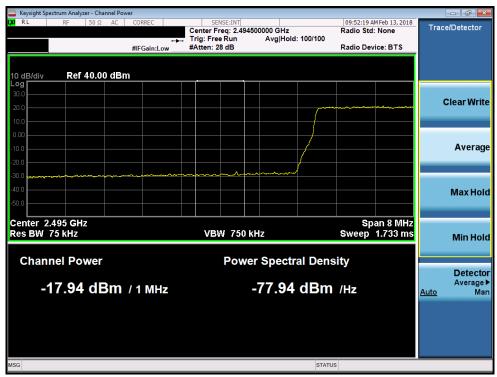
Plot 7-162. Upper Extended Band Edge Plot (Band 41 - 5.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-163. Lower Band Edge Plot (Band 41 - 10.0MHz QPSK)



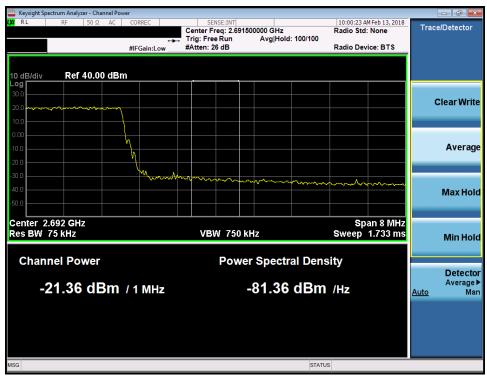
Plot 7-164. Lower Extended Band Edge Plot (Band 41 - 10.0MHz QPSK)

FCC ID: QLJ4GRFN-041	PCTEST THE STREET PROPERTY, 141	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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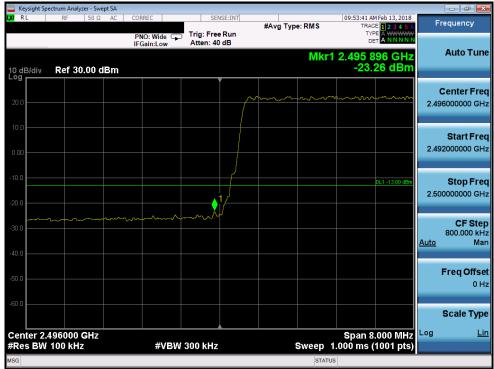
Plot 7-165. Upper Band Edge Plot (Band 41 - 10.0MHz QPSK)



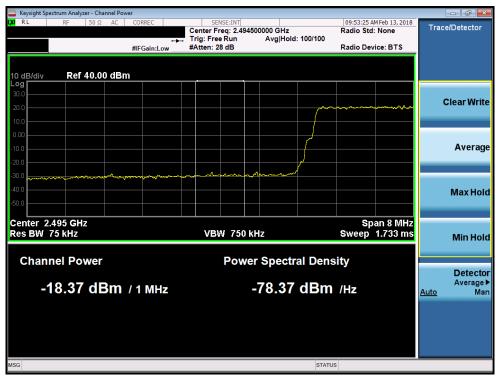
Plot 7-166. Upper Extended Band Edge Plot (Band 41 - 10.0MHz QPSK)

FCC ID: QLJ4GRFN-041	PCTEST VENEZIERZENIZ 1418410Y1, JAL	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-167. Lower Band Edge Plot (Band 41 - 10.0MHz 16-QAM)



Plot 7-168. Lower Extended Band Edge Plot (Band 41 - 10.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST THE STREET STREET STREET STREET	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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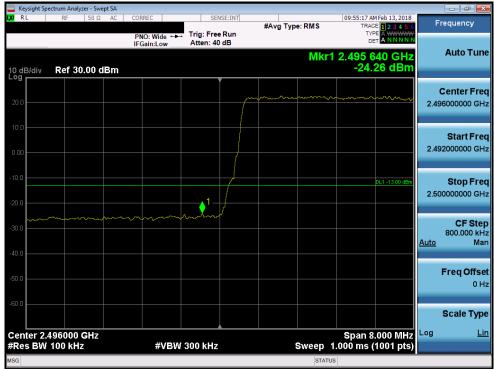
Plot 7-169. Upper Band Edge Plot (Band 41 - 10.0MHz 16-QAM)



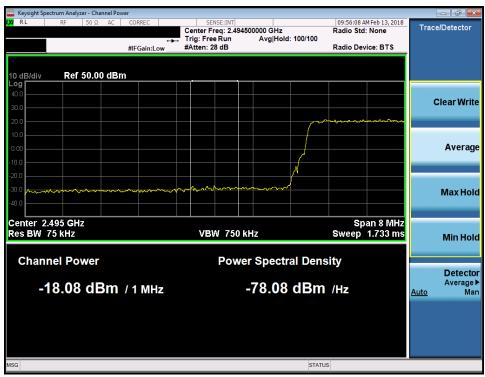
Plot 7-170. Upper Extended Band Edge Plot (Band 41 - 10.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST VENEZIERZENIZ 1418410Y1, JAL	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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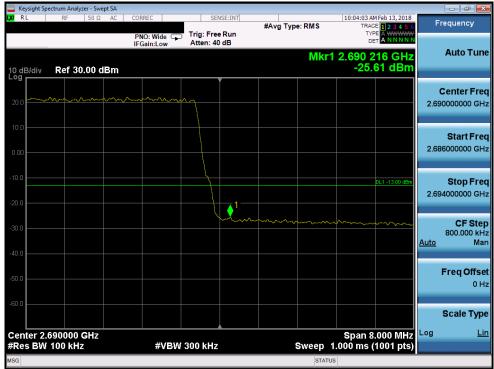
Plot 7-171. Lower Band Edge Plot (Band 41 - 10.0MHz 64-QAM)



Plot 7-172. Lower Extended Band Edge Plot (Band 41 - 10.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST THE STREET STREET STREET STREET	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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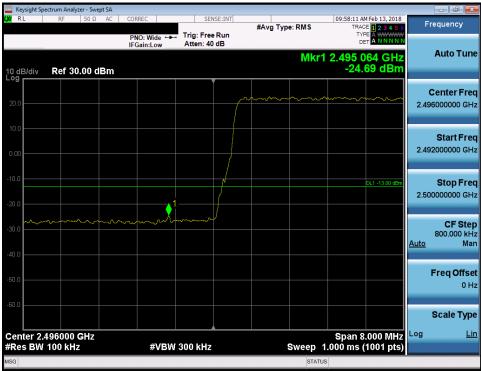
Plot 7-173. Upper Band Edge Plot (Band 41 - 10.0MHz 64-QAM)



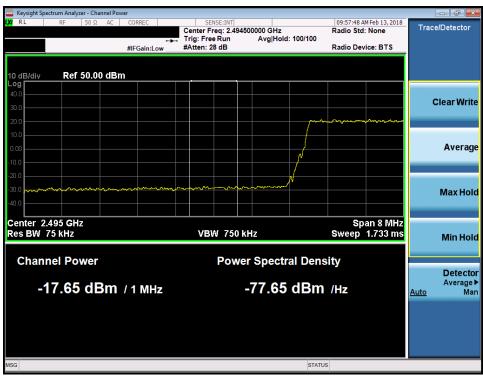
Plot 7-174. Upper Extended Band Edge Plot (Band 41 - 10.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST VENEZIERZENIZ 1418410Y1, JAL	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-175. Lower Band Edge Plot (Band 41 - 10.0MHz 256-QAM)



Plot 7-176. Lower Extended Band Edge Plot (Band 41 - 10.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PCTEST VENEZIERZENIZ 1418410Y1, JAL	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-177. Upper Band Edge Plot (Band 41 - 10.0MHz 256-QAM)



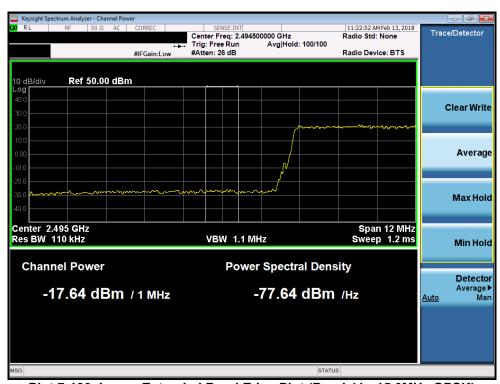
Plot 7-178, Upper Extended Band Edge Plot (Band 41 - 10.0MHz 256-QAM)

• •	ot : oppo: =x.	.0.1404		••,
FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by: Quality Manager
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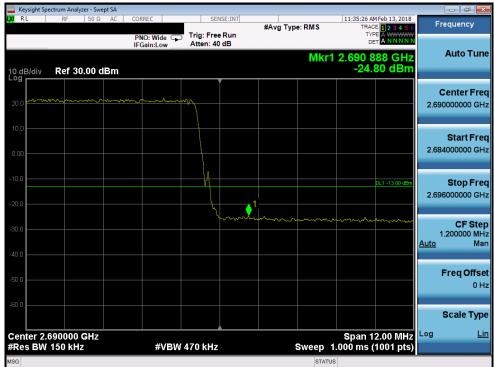
Plot 7-179. Lower Band Edge Plot (Band 41 - 15.0MHz QPSK)



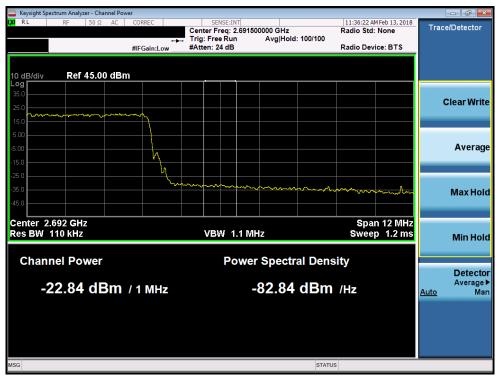
Plot 7-180. Lower Extended Band Edge Plot (Band 41 - 15.0MHz QPSK)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Tecore	Approved by: Quality Manager
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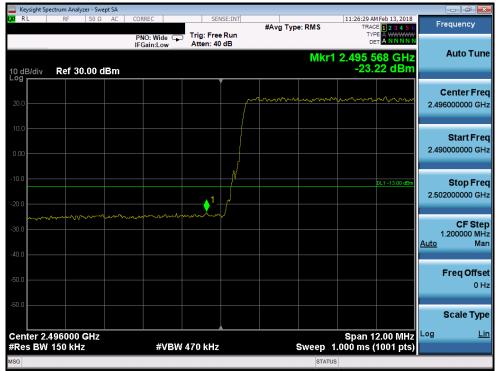
Plot 7-181. Upper Band Edge Plot (Band 41 - 15.0MHz QPSK)



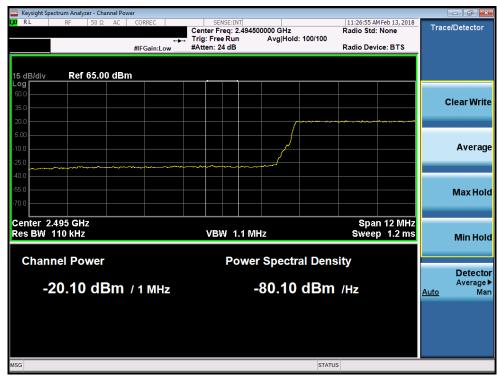
Plot 7-182. Upper Extended Band Edge Plot (Band 41 - 15.0MHz QPSK)

FCC ID: QLJ4GRFN-041	POTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-183. Lower Band Edge Plot (Band 41 - 15.0MHz 16-QAM)

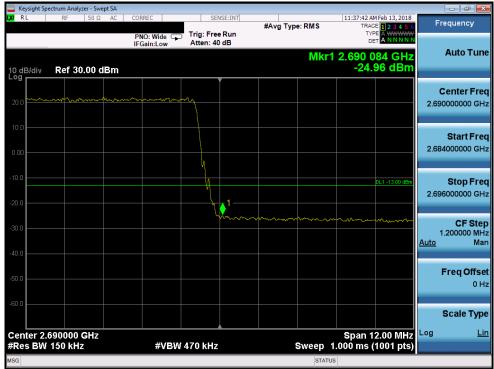


Plot 7-184. Lower Extended Band Edge Plot (Band 41 - 15.0MHz 16-QAM)

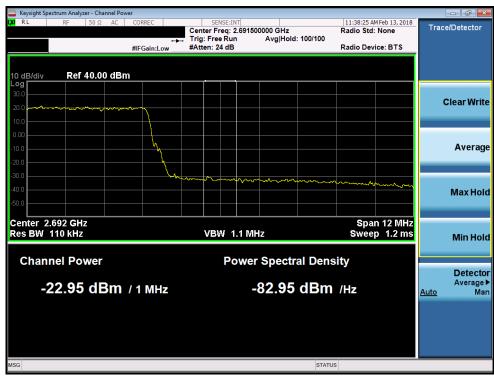
FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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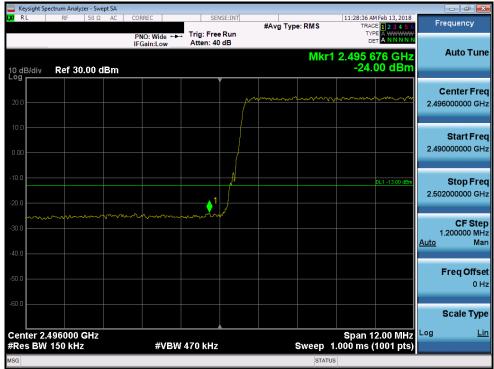
Plot 7-185. Upper Band Edge Plot (Band 41 - 15.0MHz 16-QAM)



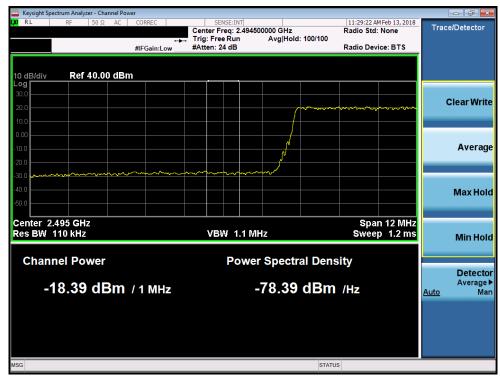
Plot 7-186. Upper Extended Band Edge Plot (Band 41 - 15.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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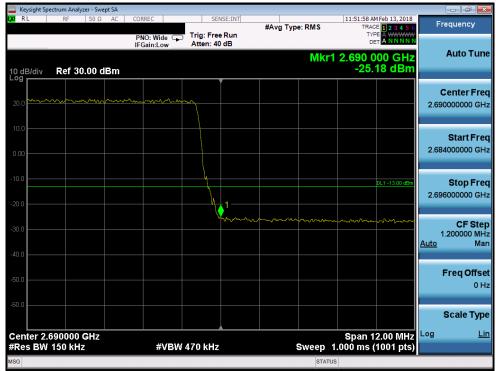
Plot 7-187. Lower Band Edge Plot (Band 41 - 15.0MHz 64-QAM)



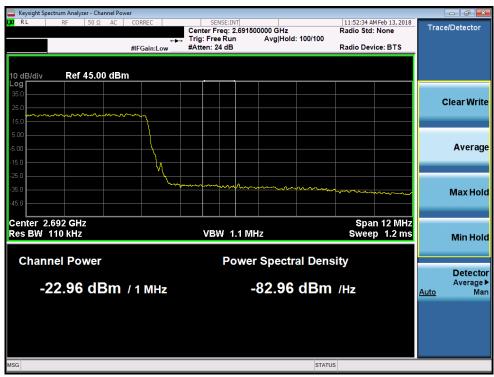
Plot 7-188. Lower Extended Band Edge Plot (Band 41 - 15.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST THE STREET PROPERTY, 141	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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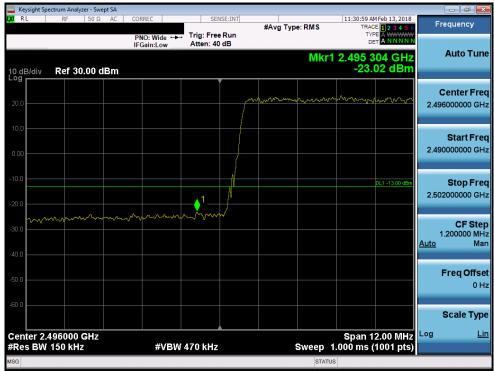
Plot 7-189. Upper Band Edge Plot (Band 41 - 15.0MHz 64-QAM)



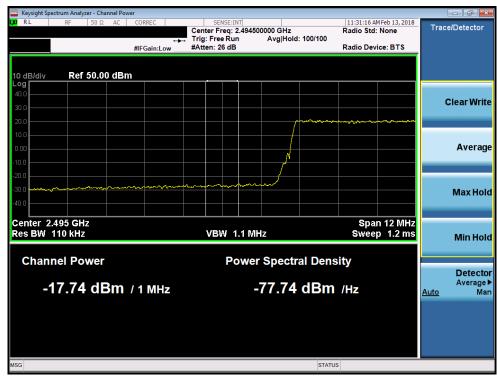
Plot 7-190. Upper Extended Band Edge Plot (Band 41 - 15.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-191. Lower Band Edge Plot (Band 41 - 15.0MHz 256-QAM)

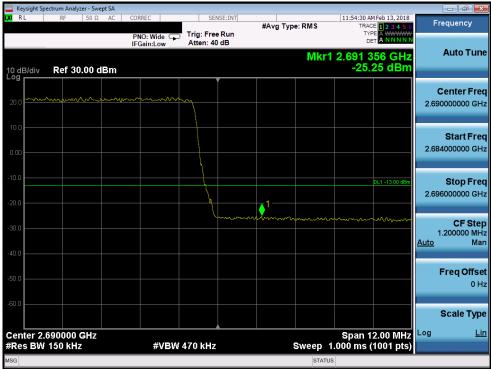


Plot 7-192. Lower Extended Band Edge Plot (Band 41 - 15.0MHz 256-QAM)

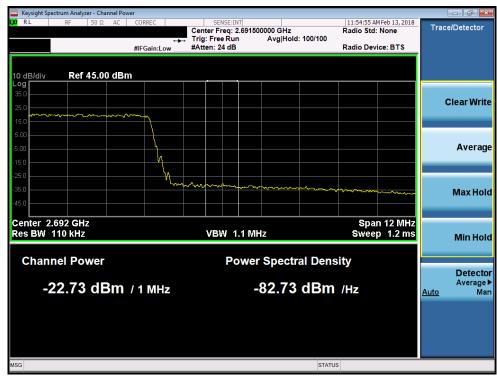
FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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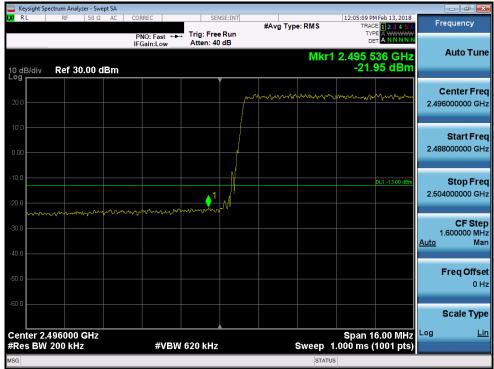
Plot 7-193. Upper Band Edge Plot (Band 41 - 15.0MHz 256-QAM)



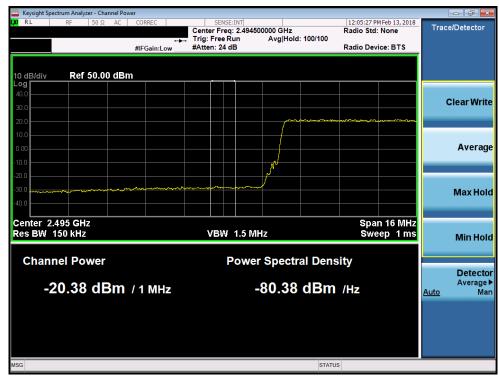
Plot 7-194. Upper Extended Band Edge Plot (Band 41 - 15.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	POTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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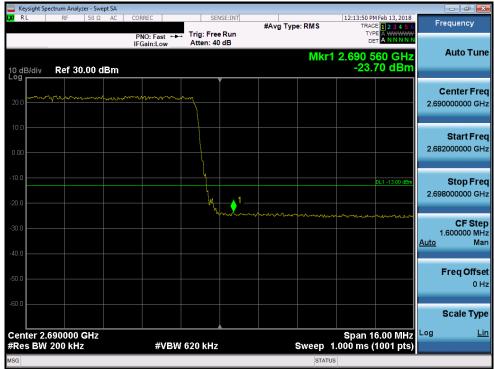
Plot 7-195. Lower Band Edge Plot (Band 41 - 20.0MHz QPSK)



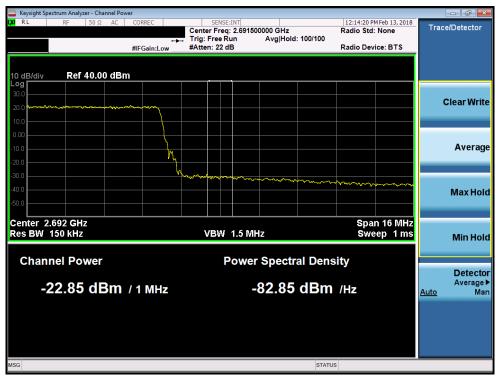
Plot 7-196. Lower Extended Band Edge Plot (Band 41 - 20.0MHz QPSK)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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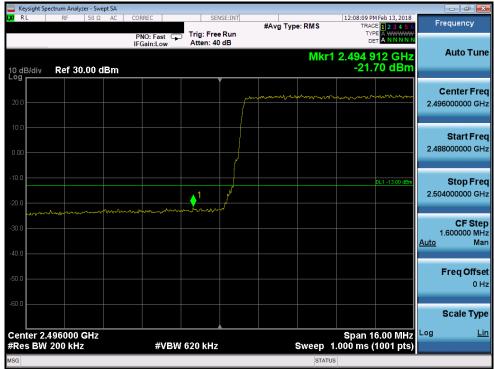
Plot 7-197. Upper Band Edge Plot (Band 41 - 20.0MHz QPSK)



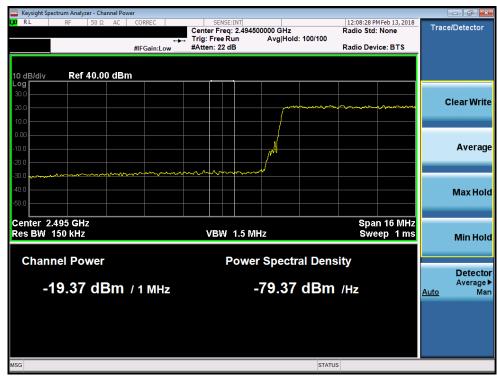
Plot 7-198. Upper Extended Band Edge Plot (Band 41 - 20.0MHz QPSK)

FCC ID: QLJ4GRFN-041	PCTEST VENEZIERZENIZ 1418410Y1, JAL	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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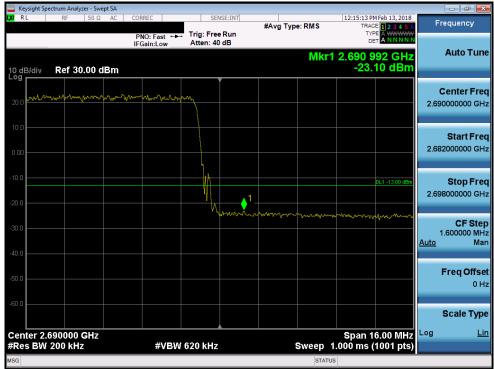
Plot 7-199. Lower Band Edge Plot (Band 41 - 20.0MHz 16-QAM)



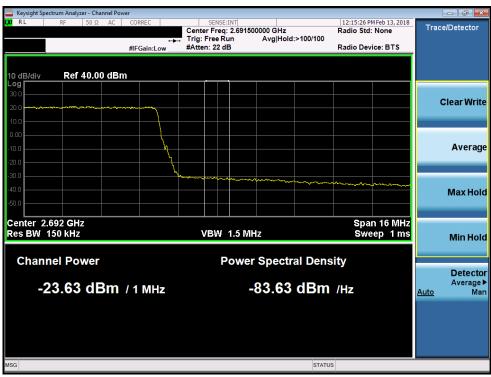
Plot 7-200. Lower Extended Band Edge Plot (Band 41 - 20.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST THE PROPERTY LINE - THE PROPERTY LINE	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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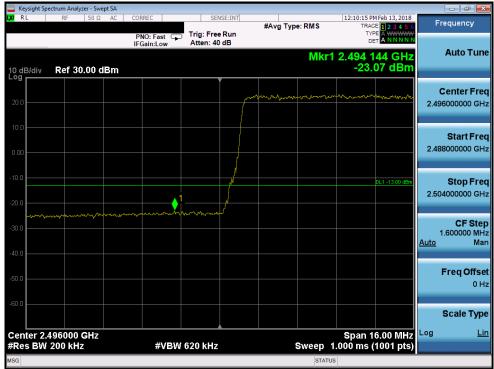
Plot 7-201. Upper Band Edge Plot (Band 41 - 20.0MHz 16-QAM)



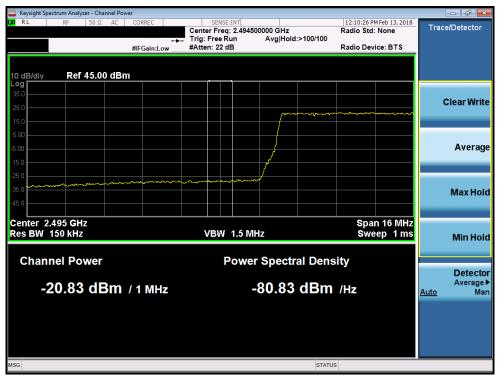
Plot 7-202. Upper Extended Band Edge Plot (Band 41 - 20.0MHz 16-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-203. Lower Band Edge Plot (Band 41 - 20.0MHz 64-QAM)



Plot 7-204. Lower Extended Band Edge Plot (Band 41 - 20.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST THE STREET PROPERTY, 141	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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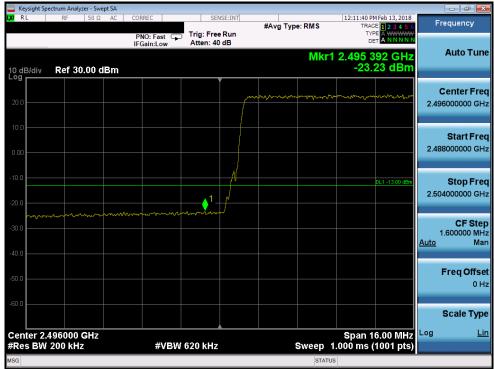
Plot 7-205. Upper Band Edge Plot (Band 41 - 20.0MHz 64-QAM)



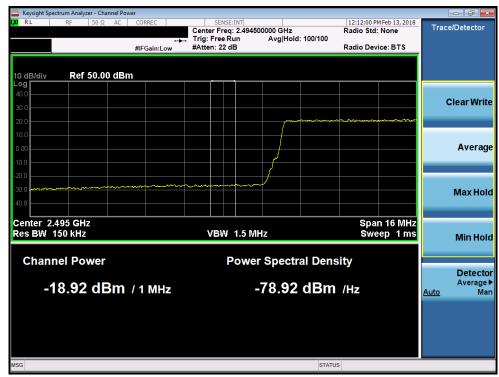
Plot 7-206. Upper Extended Band Edge Plot (Band 41 - 20.0MHz 64-QAM)

FCC ID: QLJ4GRFN-041	PCTEST VENEZIERZENIZ 1418410Y1, JAL	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-207. Lower Band Edge Plot (Band 41 - 20.0MHz 256-QAM)



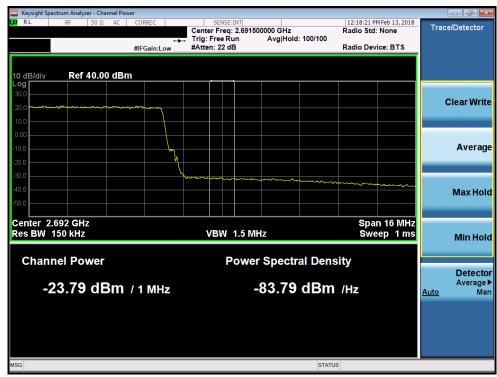
Plot 7-208. Lower Extended Band Edge Plot (Band 41 - 20.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)  Tecore networks	Approved by: Quality Manager
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Plot 7-209. Upper Band Edge Plot (Band 41 - 20.0MHz 256-QAM)



Plot 7-210. Upper Extended Band Edge Plot (Band 41 - 20.0MHz 256-QAM)

FCC ID: QLJ4GRFN-041	PCTEST VENEZIERZENIZ 1418410Y1, JAL	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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