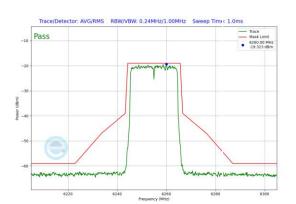
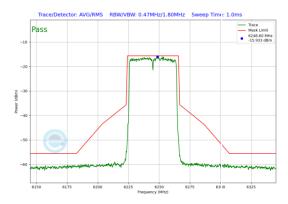


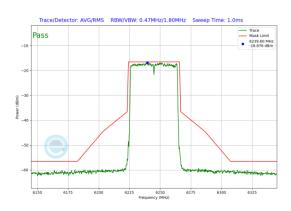
Plot 7-69. In-Band Emission Plot SDM Antenna WF8 (20MHz 802.11ax (UNII Band 5) – Ch. 61)



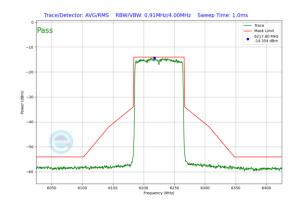
Plot 7-70. In-Band Emission Plot SDM Antenna WF7a (20MHz 802.11ax (UNII Band 5) – Ch. 61)



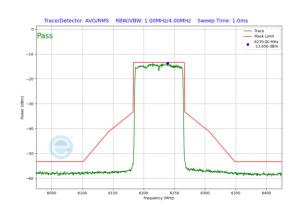
Plot 7-71. In-Band Emission Plot SDM Antenna WF8 (40MHz 802.11ax (UNII Band 5) – Ch. 59)



Plot 7-72. In-Band Emission Plot SDM Antenna WF7a (40MHz 802.11ax (UNII Band 5) – Ch. 59)



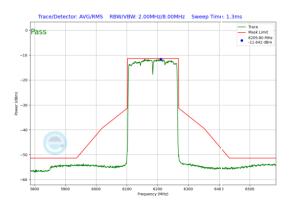
Plot 7-73. In-Band Emission Plot SDM Antenna WF8 (80MHz 802.11ax (UNII Band 5) – Ch. 55)



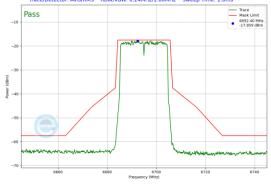
Plot 7-74. In-Band Emission Plot SDM Antenna WF7a (80MHz 802.11ax (UNII Band 5) – Ch. 55)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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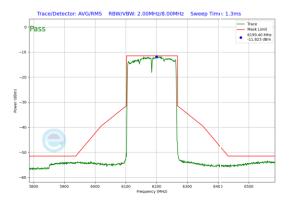




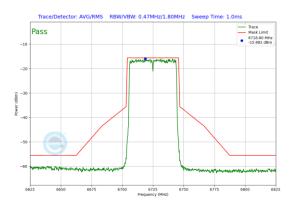
Plot 7-75. In-Band Emission Plot SDM Antenna WF8 (160MHz 802.11ax (UNII Band 5) - Ch. 47)



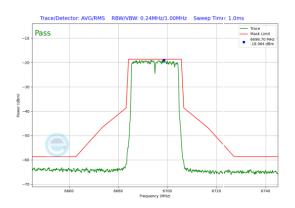
Plot 7-78. In-Band Emission Plot SDM Antenna WF7a (20MHz 802.11ax (UNII Band 7) – Ch. 149)



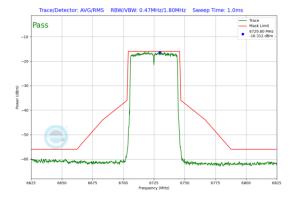
Plot 7-76. In-Band Emission Plot SDM Antenna WF7a (160MHz 802.11ax (UNII Band 5) – Ch. 47)



Plot 7-79. In-Band Emission Plot SDM Antenna WF8 (40MHz 802.11ax (UNII Band 7) – Ch. 155)



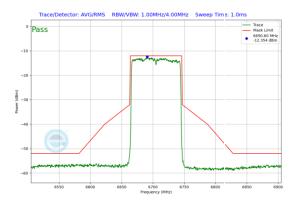
Plot 7-77. In-Band Emission Plot SDM Antenna WF8 (20MHz 802.11ax (UNII Band 7) – Ch. 149)



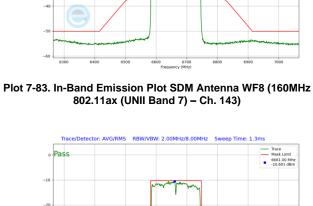
Plot 7-80. In-Band Emission Plot SDM Antenna WF7a (40MHz 802.11ax (UNII Band 7) – Ch. 155)

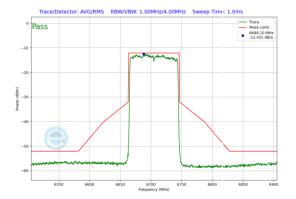
FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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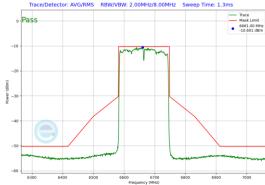


Plot 7-81. In-Band Emission Plot SDM Antenna WF8 (80MHz 802.11ax (UNII Band 7) – Ch. 151)





Plot 7-82. In-Band Emission Plot SDM Antenna WF7a (80MHz 802.11ax (UNII Band 7) – Ch. 151)



Plot 7-84. In-Band Emission Plot SDM Antenna WF7a (160MHz 802.11ax (UNII Band 7) – Ch. 143)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### 7.6 Contention Based Protocol

§15.407(d)(6); RSS-248[4.7]

#### **Test Overview and Limit**

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices), while very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power and very low power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor and very low power devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

#### **Test Procedure Used**

KDB 987594 D02 v03 - Section I

### **Test Settings**

- 1. Configure the EUT to transmit with a constant duty cycle.
- 2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
- 3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
- 4. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- 5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
- 6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
- 8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- 9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- 10. Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- 11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

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### **Test Setup**

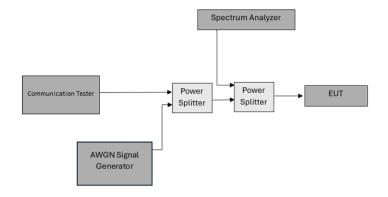


Figure 7-5. Contention-based protocol test setup, conducted method

### **Test Notes**

- 1. The EUT does not support channel puncturing.
- 2. Per guidance from KDB 987594 D02 v03, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
- 3. Per KDB 987594 D04 v03, contention-based protocol was tested with receiver with the lowest antenna gain.
- 4. 15 trials were ran in order to assure that at least 90% of certainty was met.

Detection Level = Injected AWGN Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)

**Equation 7-1. Incumbent Detection Level Calculation** 

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Band	Channel	Channel Frquency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-75.61	0.20	-75.81	-62.0	-13.81
UNII				6115	-71.05	0.20	-71.25	-62.0	-9.25
Band 5	47	6185	160	6185	-70.27	0.20	-70.47	-62.0	-8.47
				6260	-66.11	0.20	-66.31	-62.0	-4.31
	149	6695	20	6695	-75.68	0.20	-75.88	-62.0	-13.88
UNII				6590	-68.99	0.20	-69.19	-62.0	-7.19
Band 7	143	6665	160	6665	-72.01	0.20	-72.21	-62.0	-10.21
				6740	-68.10	0.20	-68.30	-62.0	-6.30

Table 7-22. Contention Based Protocol - Incumbent Detection Results

		Channel	Channel	Incumbent	EUT Transmission Status			
Band	Channel	Frquency	BW	Frequency	Adjusted	AWGN Pov	ver (dBm)	
		[MHz]	[MHz]	[MHz]	Normal	Minimal	Ceased	
	53	6215	20	6215	-86.99	-77.06	-75.81	
UNII				6110	-82.43	-72.50	-71.25	
Band 5	47	6185	160	6185	-81.64	-71.72	-70.47	
				6260	-77.49	-67.56	-66.31	
	149	6695	20	6695	-86.86	-77.10	-75.88	
UNII				6750	-80.17	-70.41	-69.19	
Band 7	143	6665	160	6825	-83.19	-73.43	-72.21	
				6900	-79.28	-69.52	-68.30	

Table 7-23. Contention Based Protocol VLP - Detection Results - All Tx Cases

								CBF	Detection	(1 = Detecti	ion, Blank	=No Detec	tion)								
Band	Channel	Channel Frquency [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate [%]	Limit [%]	Pass/Fail
	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
Band 5	47	6185	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
Band 7	175	6665	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass

Table 7-24. Contention Based Protocol – Incumbent Detection Trial Results

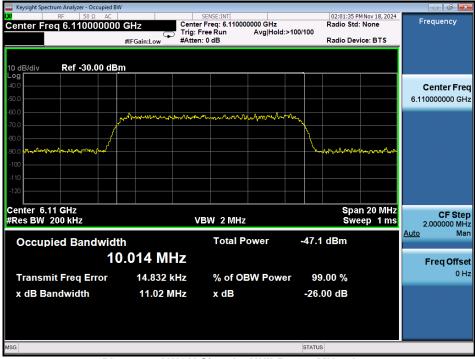
FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo EE of 00
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### **AWGN Plots**



Plot 7-85. AWGN Signal - UNII 5 - 20MHz



Plot 7-86. AWGN Signal - UNII 5 - 160MHz - Low

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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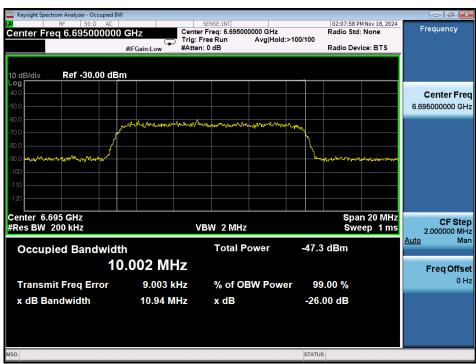
Plot 7-87. AWGN Signal - UNII 5 - 160MHz - Mid



Plot 7-88. AWGN Signal - UNII 5 - 160MHz - High

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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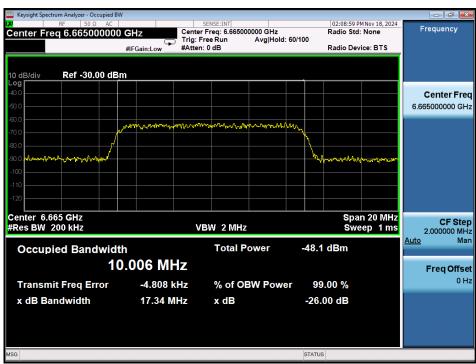
Plot 7-89. AWGN Signal - UNII 7 - 20MHz



Plot 7-90. AWGN Signal - UNII 7 - 160MHz - Low

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-91. AWGN Signal - UNII 7 - 160MHz - Mid

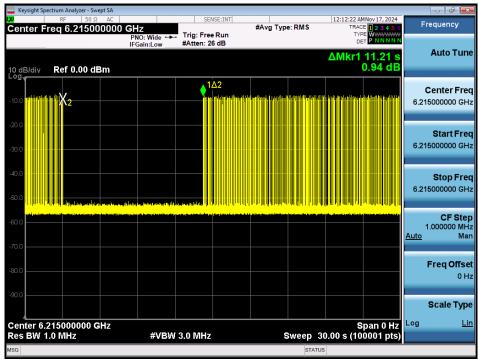


Plot 7-92. AWGN Signal - UNII 7 - 160MHz - High

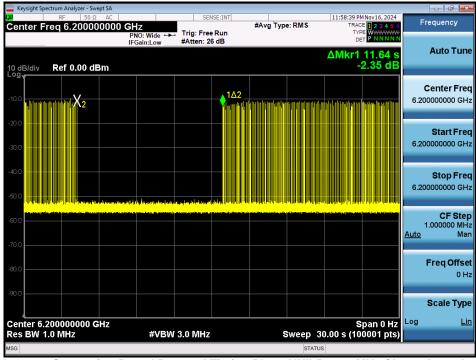
FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### **Contention-Based Protocol Timing Plots**



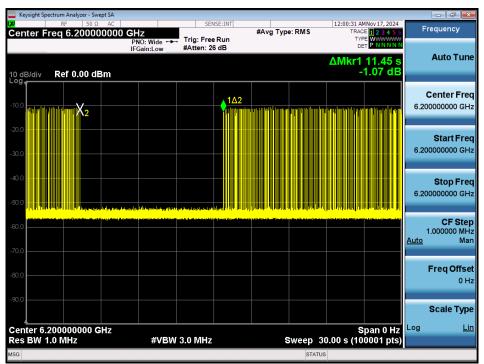
Plot 7-93. Contention Based Protocol Timing Plot – UNII 5 – 20MHz Channel 53



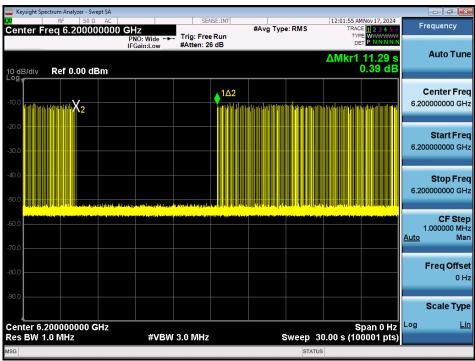
Plot 7-94. Contention Based Protocol Timing Plot - UNII 5 - 160MHz Channel 47 - Low

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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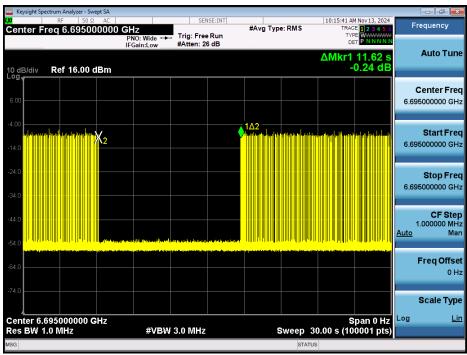
Plot 7-95. Contention Based Protocol Timing Plot –UNII 5 – 160MHz Channel 47 – Mid



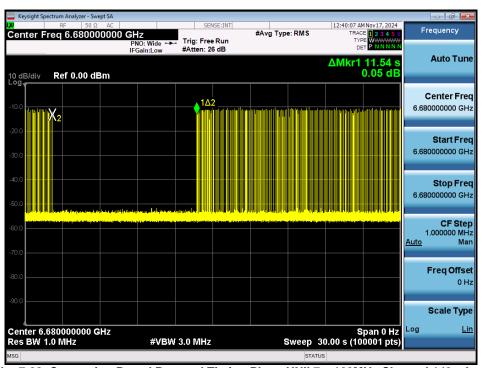
Plot 7-96. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – High

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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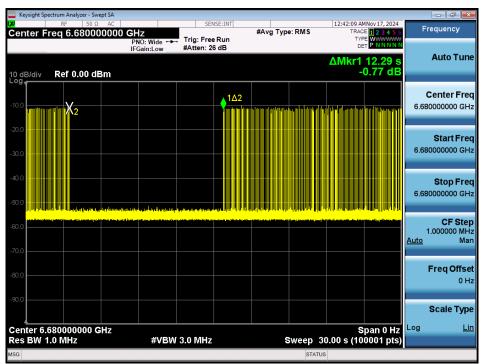
Plot 7-97. Contention Based Protocol Timing Plot – UNII 7 – 20MHz Channel 149



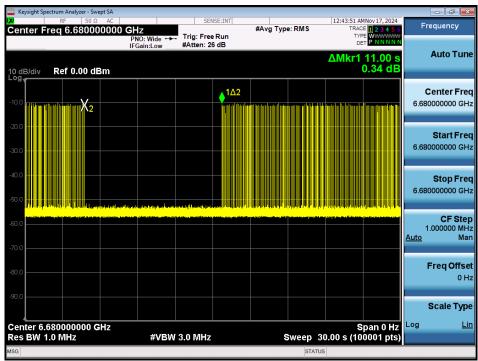
Plot 7-98. Contention Based Protocol Timing Plot - UNII 7 - 160MHz Channel 143 - Low

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 62 of 98
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Plot 7-99. Contention Based Protocol Timing Plot - UNII 7 - 160MHz Channel 143 - Mid



Plot 7-100. Contention Based Protocol Timing Plot - UNII 7 - 160MHz Channel 143 - High

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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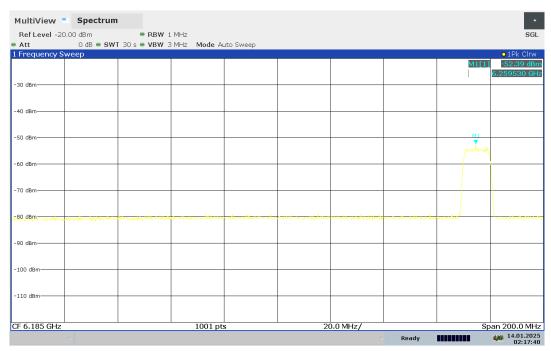


### **CBP Bandwidth Reduction Plots**



02:18:58 14.01.2025

Plot 7-101. 160MHz Bandwidth, Before AWGN Signal Injected - Channel 47

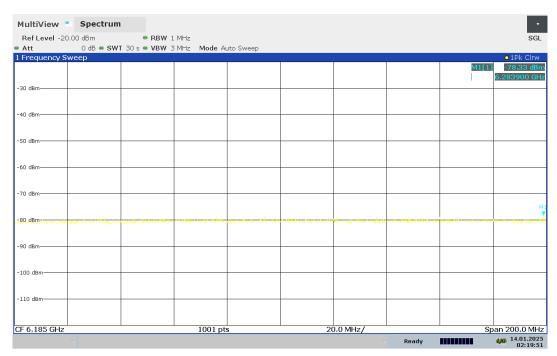


02:17:41 14.01.2025

Plot 7-102. 160MHz Bandwidth, AWGN Signal Injected at Low End - Channel 47

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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02:19:51 14.01.2025

Plot 7-103. 160MHz Bandwidth, AWGN Signal Injected at Center - Channel 47



02:16:21 14.01.2025

Plot 7-104. 160MHz Bandwidth, AWGN Signal Injected at High End - Channel 47

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# 7.7 Transmit Power Control (TPC)

§15.407(d.10); RSS-248[4.6]

#### **Test Overview and Limit**

Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

### **Test Procedure Used**

ANSI C63.10-2020 – Section 12.4.2.6 KDB 789033 D02 v02r01 – Section F

#### **Test Settings**

- 1. Analyzer was set to the center frequency of the UNII channel under investigation
- 2. Set span to encompass the entire 99% OBW of the signal.
- 3. Set sweep trigger to "free run."
- 4. Set RBW = 1 MHz
- 5. Set VBW ≥ 3 MHz
- 6. Number of points in sweep ≥ 2 × span / RBW.
- 7. Sweep time ≤ (number of points in sweep) × T, where T is defined
- 8. Detector = power averaging (rms).
- 9. Trace mode = max hold.
- 10. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

#### **Test Setup**

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

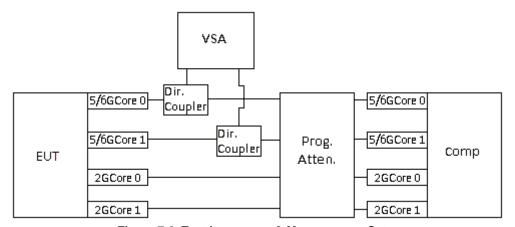


Figure 7-6. Test Instrument & Measurement Setup

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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This test demonstrates the ability of the device to increase and decrease power by the required 6dB as the RSSI is decreased and increased.

- 1. Configure EUT and companion device for peer-to-peer communication as shown in Figure 7-6.
- 2. Set variable attenuator to 0dB (noise free spectral environment, high RSSI simulation)
- 3. Establish a link and start communication between EUT and companion device
- 4. Capture PSD on spectrum analyzer
- 5. Set attenuator to 20dB (noisy spectral environment, low RSSI simulation)
- 6. Capture PSD on spectrum analyzer
- 7. Compare the highest PSD captured in step 4 to the highest PSD on step 6 and determine the delta.

### **Test Notes**

- 1. The companion device used was model: A3269 (refer to Table 2-10)
- 2. Per manufacturer's declaration, after establishing communication between the EUT and the companion device, 6GHz UNII signal was used to maintain communication and traffic.
- 3. TPC is triggered when a high RSSI is detected. As RSSI detected signal decreases, the transmitters output power will increase back to maximum allowed power.

FCC ID: BCGA3266 IC: 579C-A3266	element	element MEASUREMENT REPORT (CERTIFICATION)	
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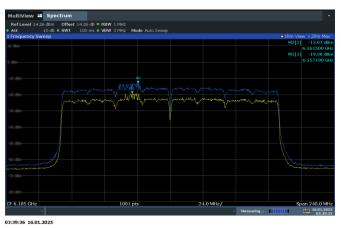


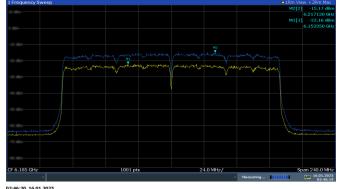
		MI	MO				
BW [MHz]	Frequency [MHz]	Measured Power Density [dBm/MHz]		Summed Power  Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	e.i.r.p. Power Density Limit [dBm/MHz]
		Antenna WF8	Antenna WF7a				
160	6185	-13.07	-15.17	-10.98	3.92	-7.07	-5.00

Table 7-25. PSD Measurements (No TPC)

			MI	MO				
	BW [MHz]	Frequency [MHz]	Measured Power Density [dBm/MHz]		Summed Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	e.i.r.p. Power Density Limit [dBm/MHz]
			Antenna WF8	Antenna WF7a				
Ī	160	6185	-19.38	-22.16	-17.54	3.92	-13.62	-11.00

Table 7-26. PSD Measurements (with TPC)





Plot 7-105. 160MHz Bandwidth - 6185MHz Antenna WF8

Plot 7-106. 160MHz Bandwidth - 6185MHz Antenna WF7a

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## 7.8 Radiated Spurious Emissions – Above 1GHz

§15.407(b) §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 its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax(SU) (20MHz BW), 802.11ax(SU) (40MHz BW), 802.11ax(SU) (80MHz), 802.11ax(SU) (160MHz) and modulations/data rates were investigated among the UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27 dBm/MHz. Emissions found in a restricted band are subject to the limits of 15.209 and RSS-Gen (8.9) as shown in the table below.

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

Table 7-27. Radiated Limits

#### **Test Procedures Used**

ANSI C63.10-2020 – Sections 12.7.7, 12.7.6. KDB 789033 D02 v02r01 – Section G

### **Test Settings**

### **Average Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be > 2 x span/RBW)
- 6. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

#### 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.

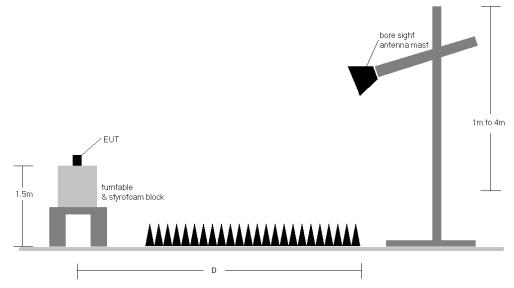


Figure 7-7. Test Instrument & Measurement Setup

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### **Test Notes**

- 1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and section 8.10 of RSS-Gen are below the limit shown in Table 7-27.
- 2. All spurious emissions lying in restricted bands specified in §15.205 and section 8.10 of RSS-Gen are below the limit shown in Table 7-27. All spurious emissions that do not lie in a restricted band are subject to a limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- 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.
- D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. All data rates and antenna configurations were investigated and only the worse case is reported
- 9. The unit was tested with all possible modes and only the highest emission is reported.
- 10. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 11. All radiated measurements were tested at the highest supported power setting per band.

### **Sample Calculations**

### **Determining Spurious Emissions Levels**

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

### **Radiated Band Edge Measurement Offset**

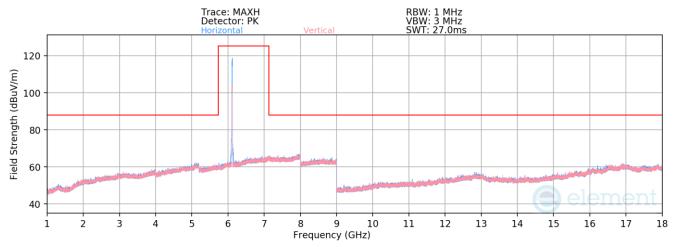
 The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.6 to 7.7.25 was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

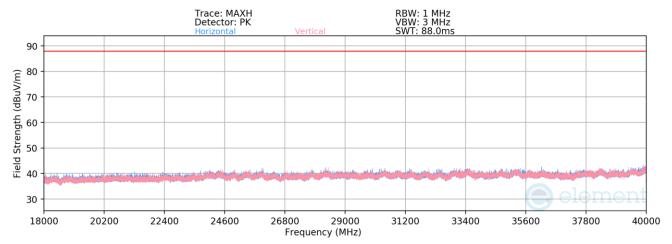
FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# 7.8.1 SDM Radiated Spurious Emission



Plot 7-107. Radiated Spurious Emissions 1-18GHz SDM (802.11ax - Ch. 33)



Plot 7-108. Radiated Spurious Emissions 18-40GHz SDM (802.11ax - Ch. 33)

 Mode:
 802.11ax

 Data Rate:
 MCS0

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 6115MHz

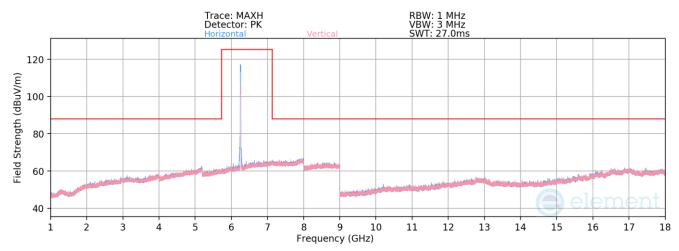
 Channel:
 33

	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]
*	12230.00	Average	Η	-	1	-85.76	20.87	42.11	53.98	-11.87
*	12230.00	Peak	Н	-	-	-74.14	20.87	53.73	73.98	-20.25

Table 7-28. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-109. Radiated Spurious Emissions 1-18GHz SDM (802.11ax - Ch. 61)

Mode: 802.11ax

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 6255MHz

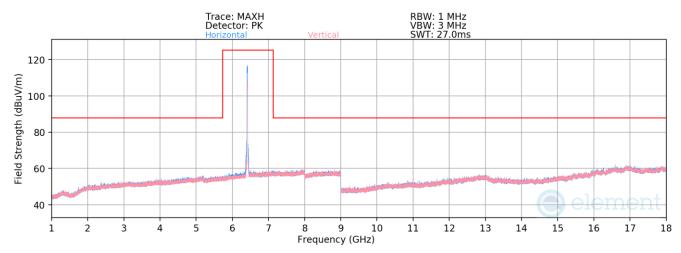
Channel: 61

	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]
*	12510.00	Average	Н	-	-	-85.07	21.30	43.23	53.98	-10.75
*	12510.00	Peak	Н	-	-	-74.04	21.30	54.26	73.98	-19.72

Table 7-29. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-110. Radiated Spurious Emissions 1-18GHz SDM (802.11ax - Ch. 93)

Mode: 802.11ax

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 6415MHz

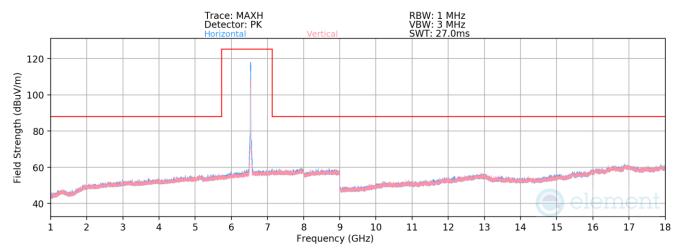
Channel: 93

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]
12830.00	Average	Н	-	-	-85.02	21.66	43.64	68.23	-24.59
12830.00	Peak	Н	-	-	-73.62	21.66	55.04	88.23	-33.19

Table 7-30. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-111. Radiated Spurious Emissions 1-18GHz SDM (802.11ax - Ch. 117)

Mode: 802.11ax

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 6535MHz

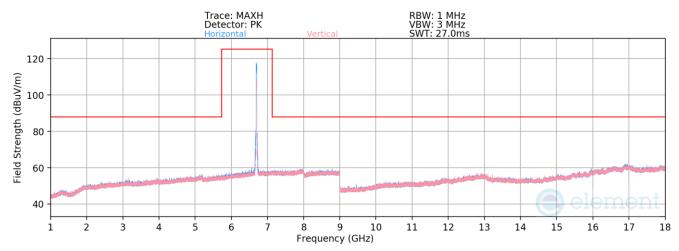
Channel: 117

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]
13070.00	Average	Н	ı	-	-85.12	21.89	43.77	68.23	-24.46
13070.00	Peak	Н	-	-	-73.70	21.89	55.19	88.23	-33.04

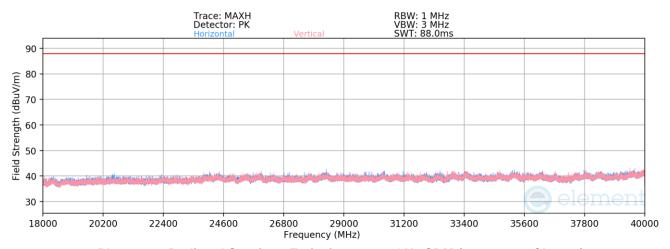
Table 7-31. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-112. Radiated Spurious Emissions 1-18GHz SDM (802.11ax - Ch. 149)



Plot 7-113. Radiated Spurious Emissions 18-40GHz SDM (802.11ax - Ch. 149)

Mode: 802.11ax

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 6695MHz

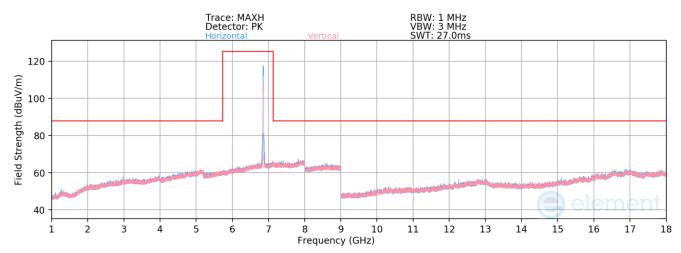
Channel: 149

	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]
*	13390.00	Average	Н	-	-	-85.50	22.21	43.71	53.98	-10.27
*	13390.00	Peak	Н	-	-	-73.80	21.88	55.08	73.98	-18.90

Table 7-32. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-114. Radiated Spurious Emissions 1-18GHz SDM (802.11ax - Ch. 181)

Mode: 802.11ax

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 6855MHz

Channel: 181

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]
13710.00	Average	Н	,	-	-85.73	21.73	43.00	68.23	-25.23
13710.00	Peak	Н	-	-	-74.40	21.73	54.33	88.23	-33.90

Table 7-33. Radiated Spurious Emission Measurements SDM

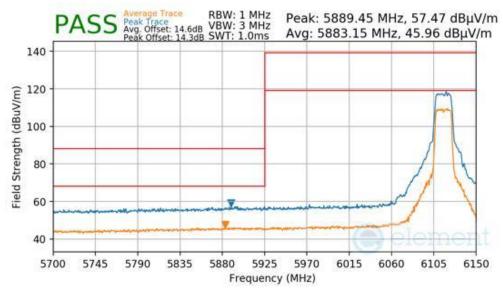
FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## 7.8.2 Antenna WF8 Radiated Band Edge Measurements (20MHz BW)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

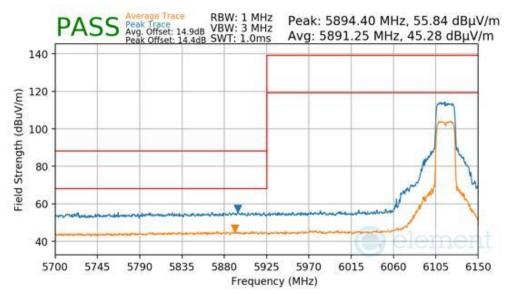
802.11a	
MCS54	
3 Meters	
6115MHz	
33	



Plot 7-115 Antenna WF8 Radiated Lower Band Edge (Peak & Average - UNII Band 5)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU
MCS11
3 Meters
6115MHz
33



Plot 7-116 Antenna WF8 Radiated Lower Band Edge (Peak & Average - UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 78 of 98
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## 7.8.3 Antenna WF8 Radiated Band Edge Measurements (40MHz BW)

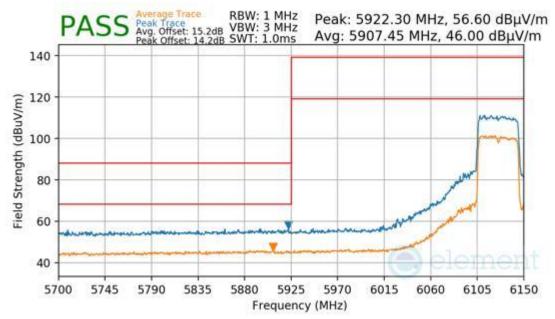
 Mode
 802.11ax-SU

 Data Rate
 MCS11

 Distance of Measurement
 3 Meters

 Operating Frequency
 6125MHz

 Channel
 35



Plot 7-117 Antenna WF8 Radiated Lower Band Edge (Peak & Average - UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 79 of 98
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## 7.8.4 Antenna WF8 Radiated Band Edge Measurements (80MHz BW)

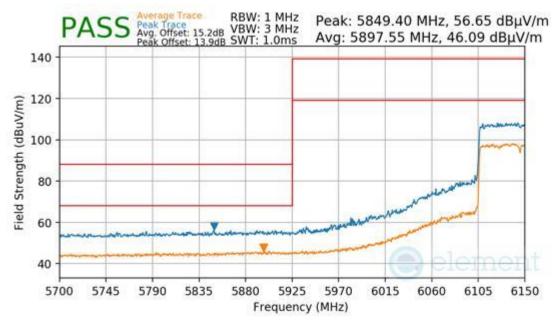
 Mode
 802.11ax-SU

 Data Rate
 MCS11

 Distance of Measurement
 3 Meters

 Operating Frequency
 6145MHz

 Channel
 39



Plot 7-118 Antenna WF8 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## 7.8.5 Antenna WF8 Radiated Band Edge Measurements (160MHz BW)

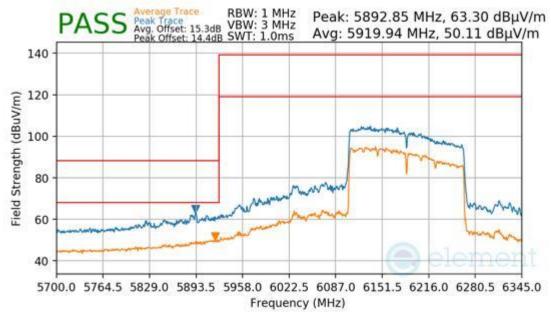
 Mode
 802.11ax-SU

 Data Rate
 MCS11

 Distance of Measurement
 3 Meters

 Operating Frequency
 6185MHz

 Channel
 47



Plot 7-119 Antenna WF8 Radiated Lower Band Edge (Peak & Average - UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# 7.8.6 Antenna WF7a Radiated Band Edge Measurements (20MHz BW)

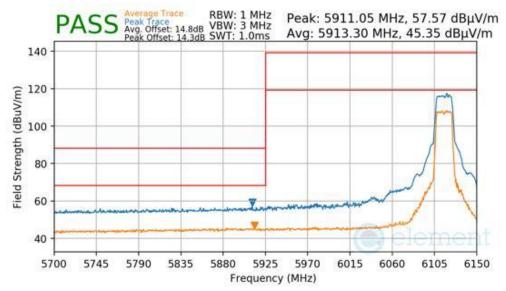
 Mode
 802.11a

 Data Rate
 MCS54

 Distance of Measurement
 3 Meters

 Operating Frequency
 6115MHz

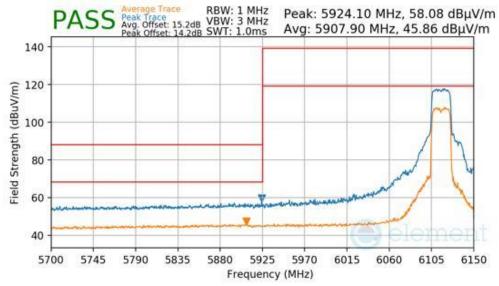
 Channel
 33



Plot 7-120 Antenna WF7a Radiated Lower Band Edge (Peak & Average - UNII Band 5)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU	
MCS11	
3 Meters	
6115MHz	
33	



Plot 7-121 Antenna WF7a Radiated Lower Band Edge (Peak & Average - UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 82 of 98
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# 7.8.7 Antenna WF7a Radiated Band Edge Measurements (40MHz BW)

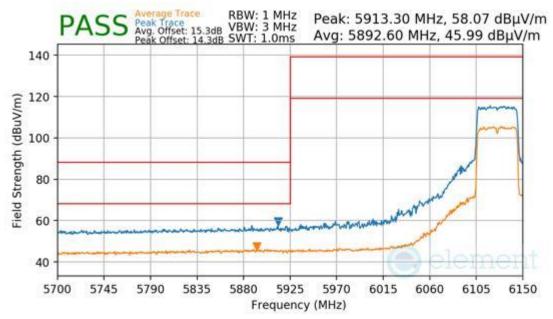
 Mode
 802.11ax-SU

 Data Rate
 MCS11

 Distance of Measurement
 3 Meters

 Operating Frequency
 6125MHz

 Channel
 35



Plot 7-122 Antenna WF7a Radiated Lower Band Edge (Peak & Average - UNII Band 5)

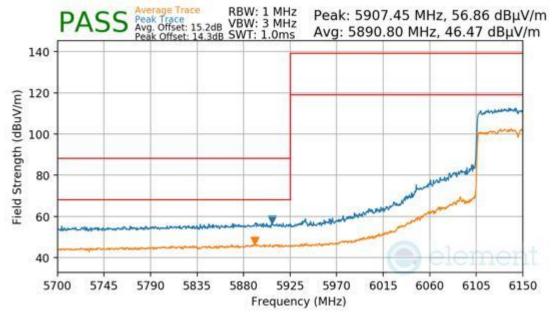
FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 83 of 98
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# 7.8.8 Antenna WF7a Radiated Band Edge Measurements (80MHz BW)

Mode
Data Rate
Distance of Measurement
Operating Frequency
Channel

802.11ax-SU	
MCS11	_
3 Meters	
6145MHz	
39	



Plot 7-123 Antenna WF7a Radiated Lower Band Edge (Peak & Average - UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 84 of 98
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# 7.8.9 Antenna WF7a Radiated Band Edge Measurements (160MHz BW)

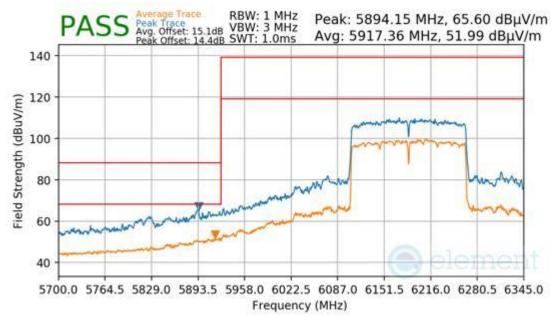
 Mode
 802.11ax-SU

 Data Rate
 MCS11

 Distance of Measurement
 3 Meters

 Operating Frequency
 6185MHz

 Channel
 47



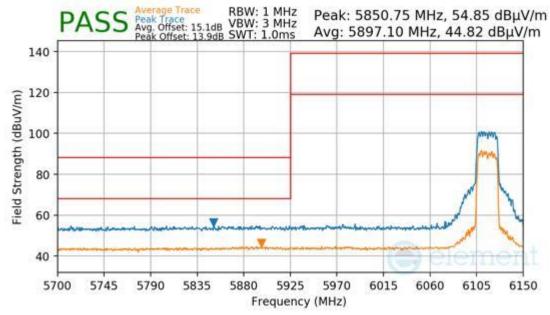
Plot 7-124 Antenna WF7a Radiated Lower Band Edge (Peak & Average - UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 85 of 98
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# 7.8.10 SDM Radiated Band Edge Measurements (20MHz BW)

802.11ax-SU	
MCS11	
3 Meters	
6115MHz	
33	



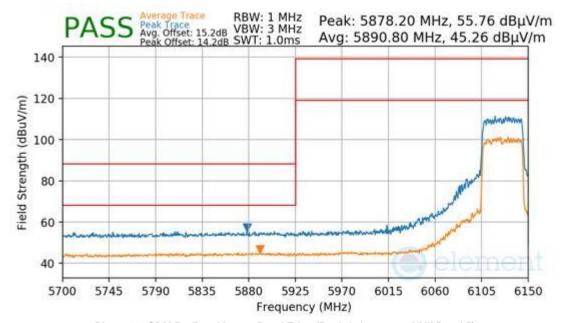
Plot 7-125 SDM Radiated Lower Band Edge (Peak & Average - UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 86 of 98
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# 7.8.11 SDM Radiated Band Edge Measurements (40MHz BW)

802.11ax-SU	
MCS11	
3 Meters	
6125MHz	
35	



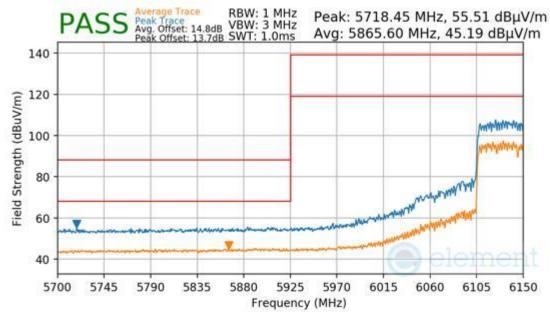
Plot 7-126 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# 7.8.12 SDM Radiated Band Edge Measurements (80MHz BW)

802.11ax-SU
MCS11
3 Meters
6145MHz
39



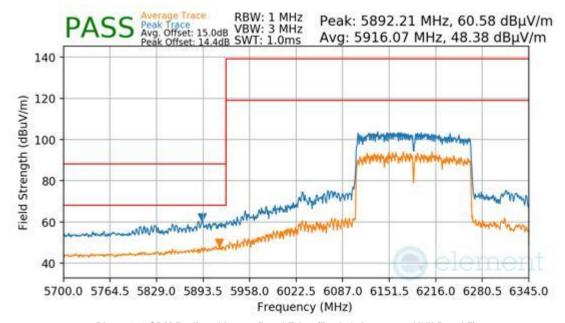
Plot 7-127 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA3266 IC: 579C-A3266	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# 7.8.13 SDM Radiated Band Edge Measurements (160MHz BW)

802.11ax-SU	
MCS11	
3 Meters	
6185MHz	
47	



Plot 7-128 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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# 7.9 Radiated Spurious Emissions – 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 must not exceed the limits shown in Table 7-34 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [µV/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 7-34. Radiated Limits

## **Test Procedures Used**

ANSI C63.10-2020

## **Test Settings**

#### **Quasi-Peak Field Strength Measurements**

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

#### **Peak Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = quasi-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 diagrams below.

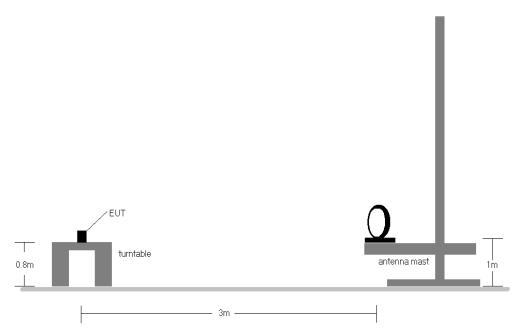


Figure 7-8. Radiated Test Setup < 30MHz

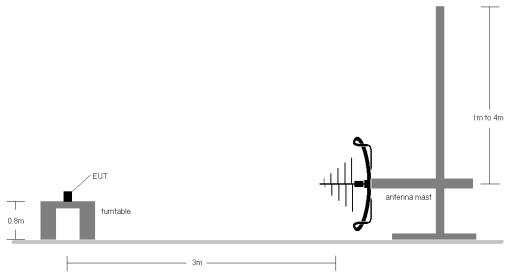


Figure 7-9. Radiated Test Setup < 1GHz

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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 7-34.
- The broadband receive antenna is manipulated through vertical and horizontal polarizations during the
  tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was
  positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst
  case emissions.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
- 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. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
  - b. EUT powered by host PC via USB-C cable with wire charger
- 10. All antenna configurations were investigated and only the worst case is reported.
- 11. The unit was tested with all possible modes and only the highest emission is reported.

#### Sample Calculations

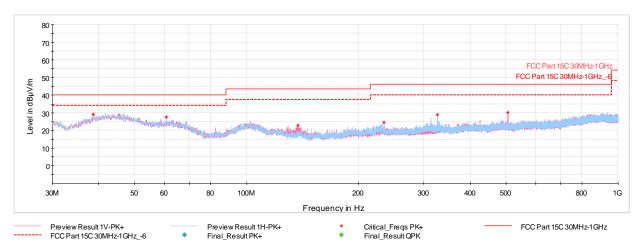
#### **Determining Spurious Emissions Levels**

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- O AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamp Gain [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

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# 7.9.1 SDM Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-129. Radiated Spurious Emissions below 1GHz SDM, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

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]
38.63	Max Peak	V	100	189	-61.50	-16.28	29.22	40.00	-10.78
60.80	Max Peak	Н	300	307	-63.42	-16.02	27.56	40.00	-12.44
137.38	Max Peak	V	100	309	-64.03	-20.04	22.93	43.52	-20.59
234.09	Max Peak	Η	100	199	-67.74	-14.89	24.37	46.02	-21.65
326.68	Max Peak	Ι	100	170	-65.70	-12.41	28.89	46.02	-17.13
504.43	Max Peak	V	100	170	-68.11	-8.57	30.32	46.02	-15.70

Table 7-35. Radiated Spurious Emissions Measurement below 1GHz SDM, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

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# 7.10 AC Line-Conducted Emissions Measurement

§15.407; 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 AC Line 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 (dBμV)				
(IVITIZ)	Quasi-peak	Average			
0.15 – 0.5	66 to 56*	56 to 46*			
0.5 – 5	56	46			
5 – 30	60	50			

Table 7-36. Conducted Limits

## **Test Procedures Used**

ANSI C63.10-2020, Section 6.2

#### **Test Settings**

#### **Quasi-Peak 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 Measurements

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

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<sup>\*</sup>Decreases with the logarithm of the frequency.



### **Test Setup**

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

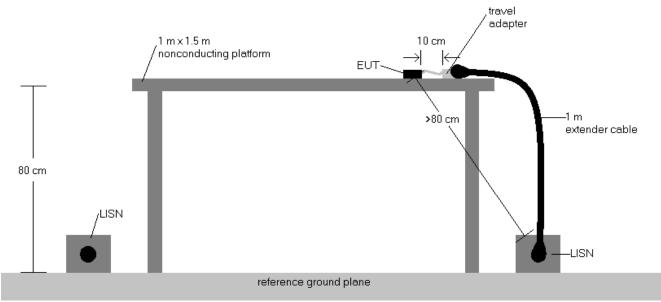


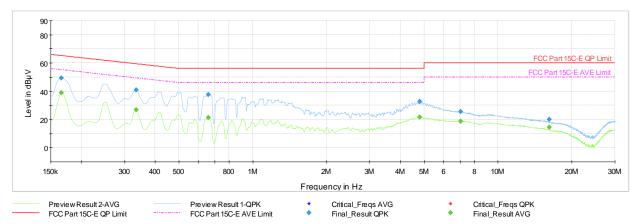
Figure 7-10. Test Instrument & Measurement Setup

### **Test Notes**

- 1. All modes of operation were investigated, and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- 2. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
  - b. EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Correction Factor (dB)
- 6. Margin (dB) = QP/AV Level (dB $\mu$ V) QP/AV Limit (dB $\mu$ V)
- 7. Traces shown in plots are made using quasi-peak and average detectors.
- 8. Deviations to the Specifications: None.
- 9. The unit was tested with all possible modes and only the highest emission is reported.

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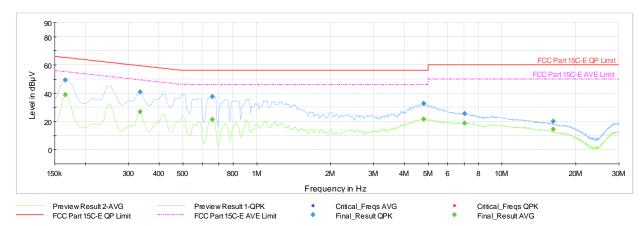
Plot 7-130. AC Line Conducted Plot with 802.11ax SDM – Ch.33 (L1), with host PC via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.17	FINAL		38.80	55.17	-16.37	L1	GND
0.17	FINAL	49.30		65.17	-15.87	L1	GND
0.34	FINAL		26.80	49.34	-22.54	L1	GND
0.34	FINAL	40.87		59.34	-18.47	L1	GND
0.66	FINAL		21.21	46.00	-24.79	L1	GND
0.66	FINAL	37.54		56.00	-18.46	L1	GND
4.80	FINAL		21.76	46.00	-24.24	L1	GND
4.80	FINAL	32.83		56.00	-23.17	L1	GND
7.03	FINAL	25.37		60.00	-34.63	L1	GND
7.03	FINAL		18.55	50.00	-31.45	L1	GND
16.17	FINAL	19.81		60.00	-40.19	L1	GND
16.18	FINAL		14.28	50.00	-35.72	L1	GND

Table 7-37. AC Line Conducted Data with 802.11ax SDM – Ch. 33 (L1) with host PC via USB-C cable with wire charger

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Plot 7-131. AC Line Conducted Plot with 802.11ax SDM – Ch. 33 (N), with host PC via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.20	FINAL		36.42	53.73	-17.31	N	GND
0.20	FINAL	48.18		63.73	-15.55	N	GND
0.26	FINAL		27.03	51.35	-24.32	N	GND
0.26	FINAL	39.16		61.35	-22.19	N	GND
0.72	FINAL		16.60	46.00	-29.40	N	GND
0.73	FINAL	27.47		56.00	-28.53	N	GND
1.87	FINAL		12.85	46.00	-33.15	N	GND
1.88	FINAL	24.04		56.00	-31.96	N	GND
7.08	FINAL		24.34	50.00	-25.66	N	GND
7.08	FINAL	32.62		60.00	-27.38	N	GND
24.54	FINAL		18.78	50.00	-31.22	N	GND
24.54	FINAL	24.92		60.00	-35.08	Ν	GND

Table 7-38. AC Line Conducted Data with 802.11ax SDM – Ch. 33 (N), with host PC via USB-C cable with wire charger

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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**: **BCGA3266** and **IC**: **579C-A3266** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-248 of the Innovation, Science and Economic Development Canada Rules.

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