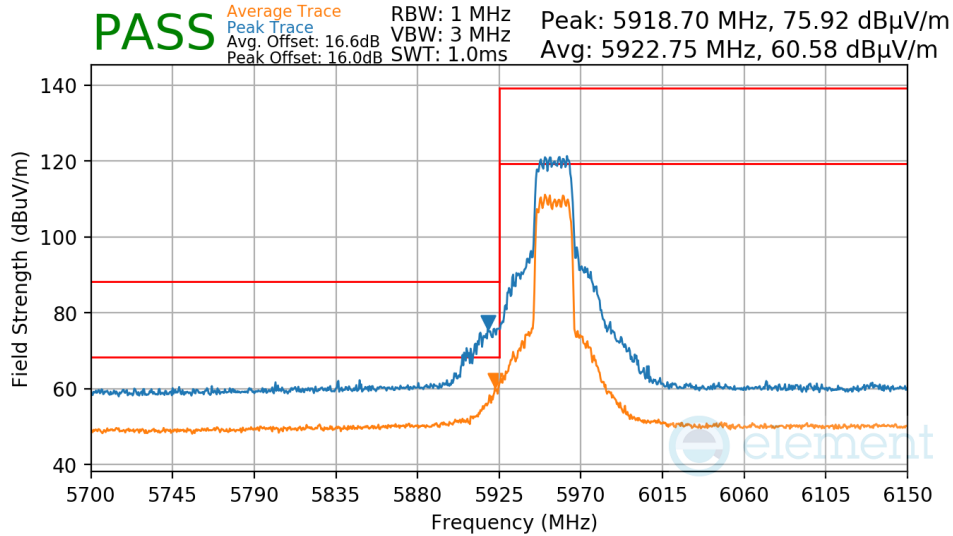
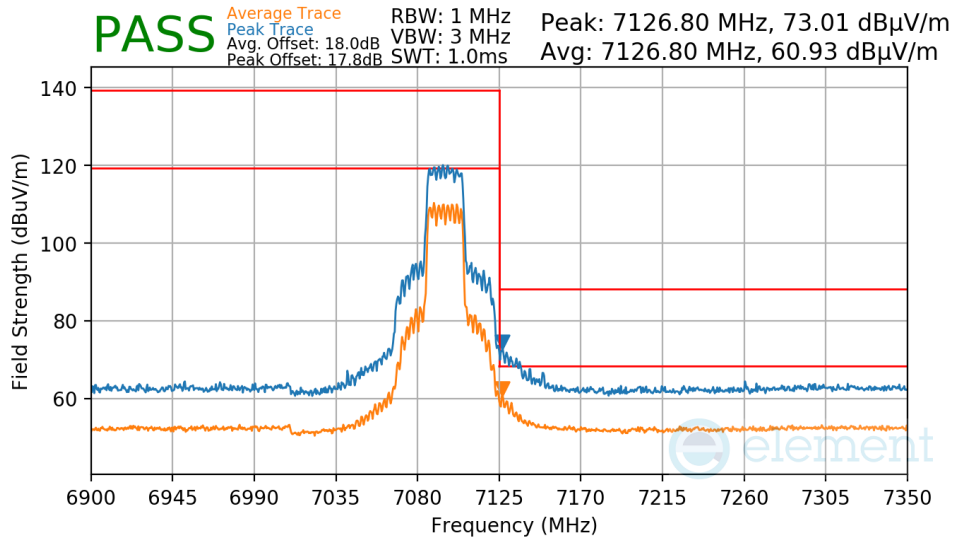


Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5955MHz  
 Channel: 1



**Plot 7-929. SDM Radiated Lower Band Edge (Peak/Average – UNII Band 5)**

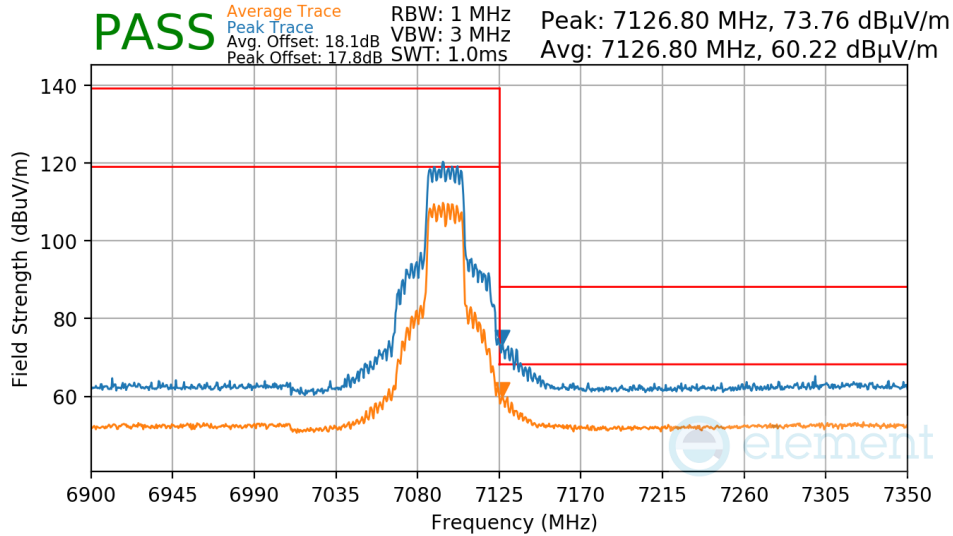
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7095MHz  
 Channel: 229



**Plot 7-930. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)**

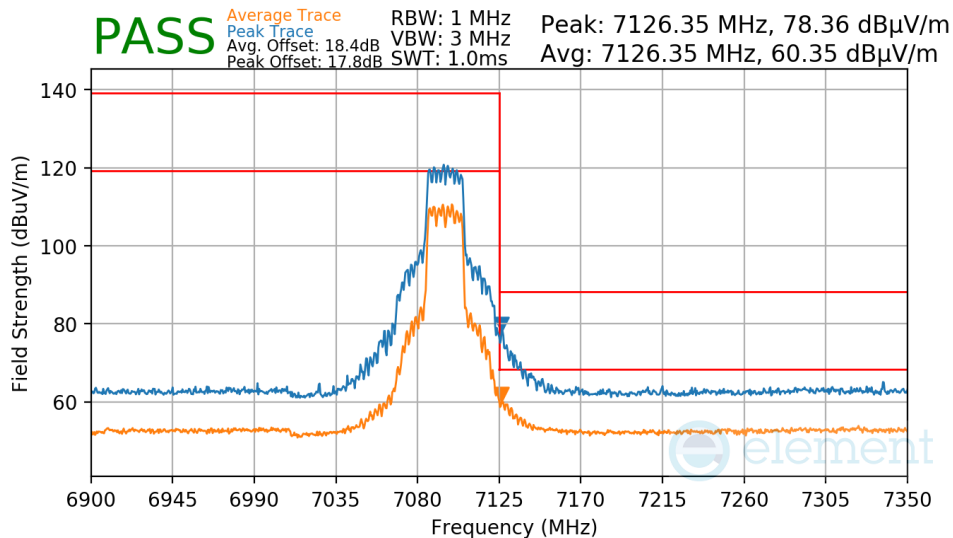
FCC ID: BCGA2902 IC: 579C-A2902		<b>MEASUREMENT REPORT</b> (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 315 of 336

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7095MHz  
 Channel: 229



**Plot 7-931. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)**

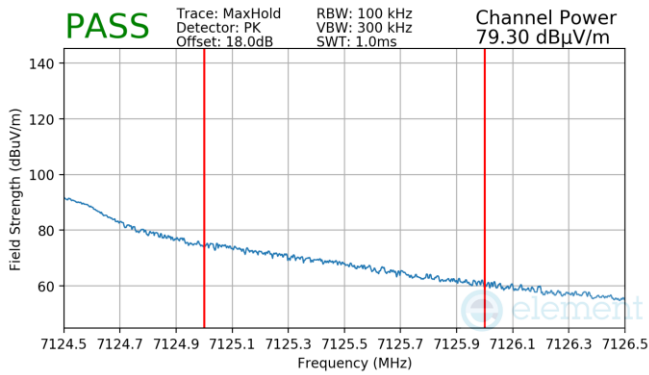
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7095MHz  
 Channel: 229



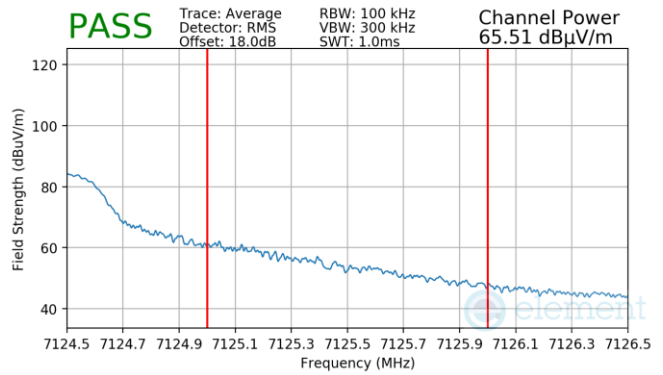
**Plot 7-932. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)**

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 316 of 336

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7115MHz  
 Channel: 233

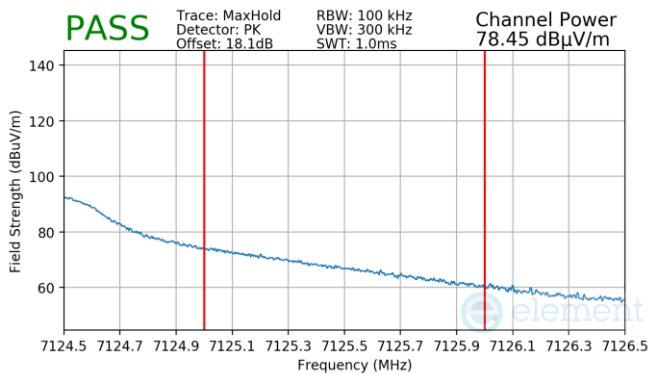


**Plot 7-933. SDM Radiated Upper Band Edge (Peak – UNII Band 8)**

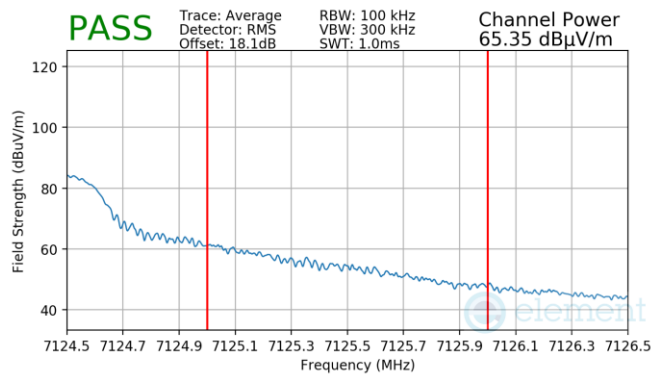


**Plot 7-934. SDM Radiated Upper Band Edge (Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7115MHz  
 Channel: 233



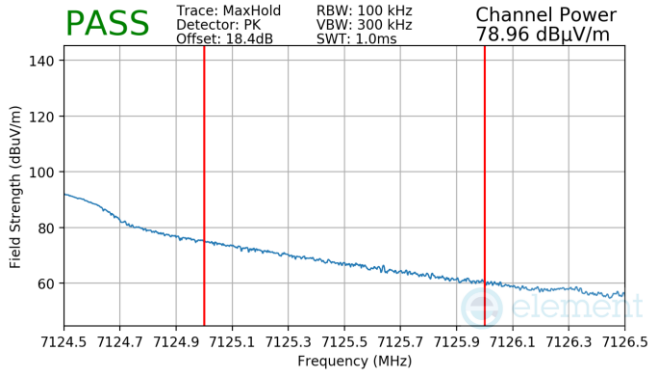
**Plot 7-935. SDM Radiated Upper Band Edge (Peak – UNII Band 8)**



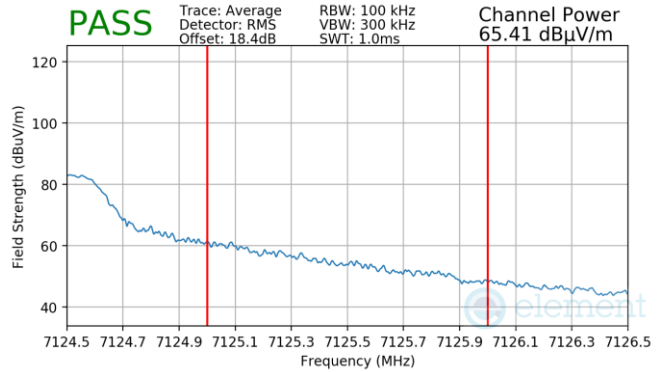
**Plot 7-936. SDM Radiated Upper Band Edge (Average – UNII Band 8)**

FCC ID: BCGA2902 IC: 579C-A2902		<b>MEASUREMENT REPORT</b> (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 317 of 336


Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7115MHz  
 Channel: 233



**Plot 7-937. SDM Radiated Upper Band Edge (Peak – UNII Band 8)**

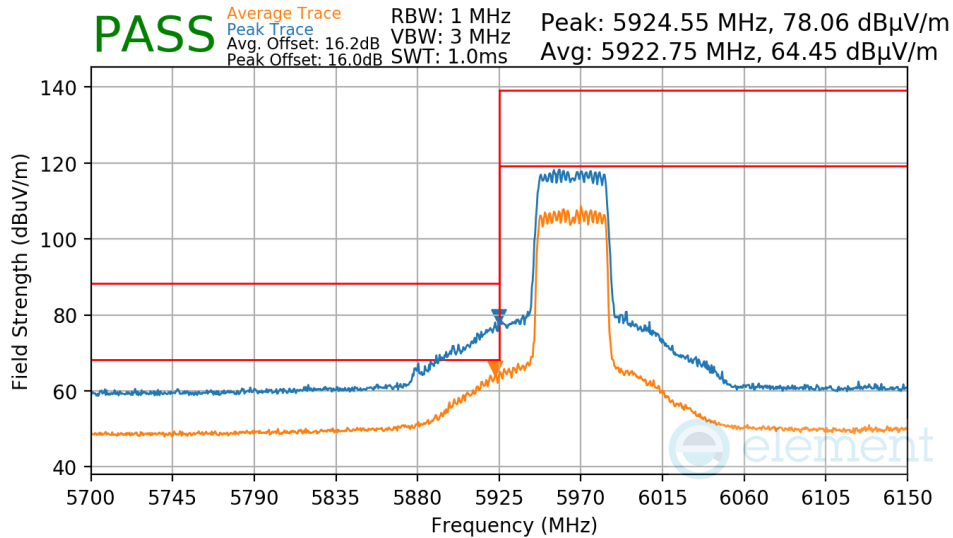


**Plot 7-938. SDM Radiated Upper Band Edge (Average – UNII Band 8)**

FCC ID: BCGA2902 IC: 579C-A2902	 <b>MEASUREMENT REPORT</b> (Certification)	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270063-13-R1.BCG	<b>Test Dates:</b> 11/29/2023 - 04/04/2024	<b>EUT Type:</b> Tablet Device

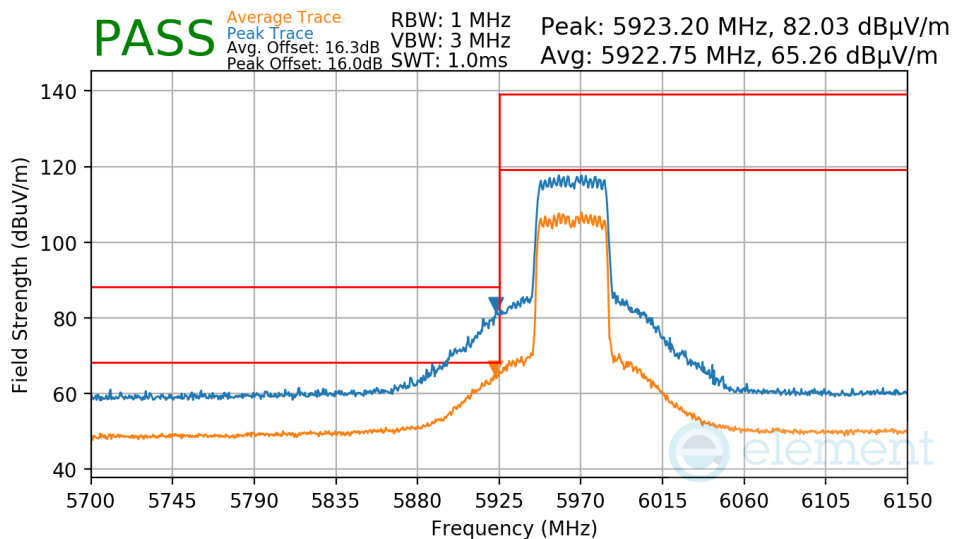
### 7.7.13 SDM Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5965MHz  
 Channel: 3




**Plot 7-939. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

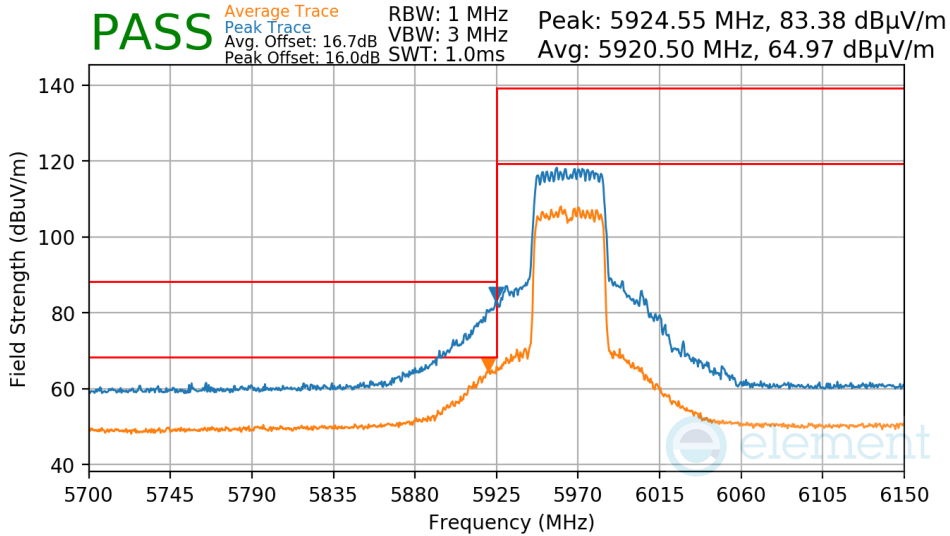
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5965MHz  
 Channel: 3



**Plot 7-940. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

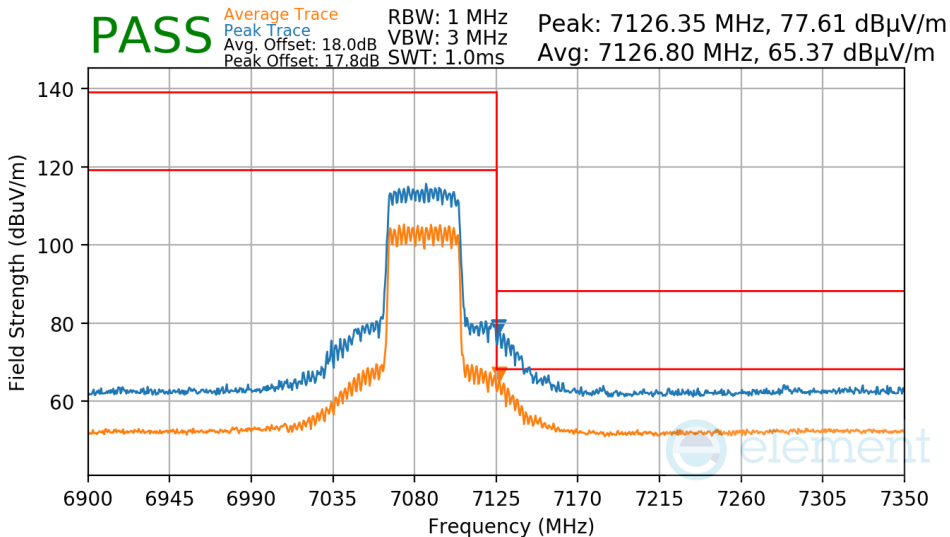
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 319 of 336

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5965MHz  
 Channel: 3




**Plot 7-941. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

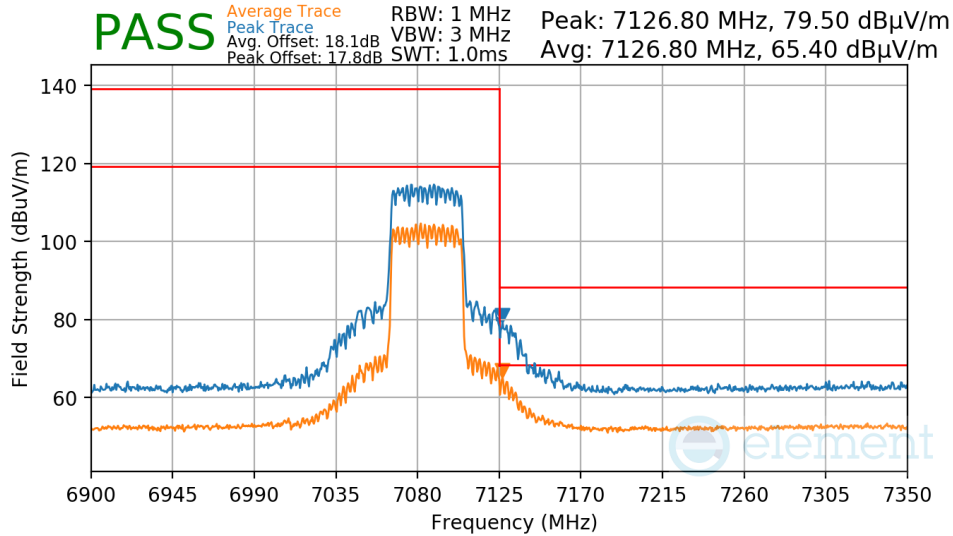
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227



**Plot 7-942. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

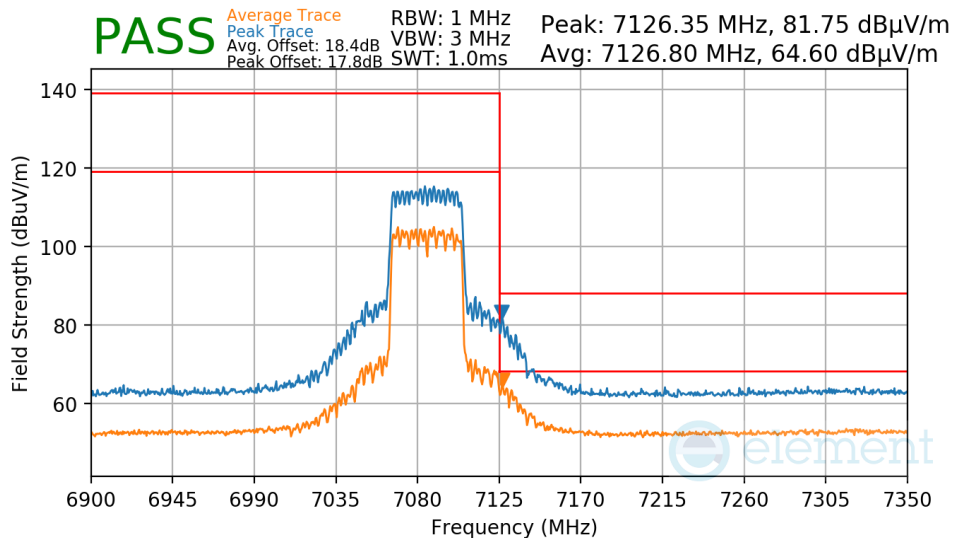
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 320 of 336

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227



**Plot 7-943. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227

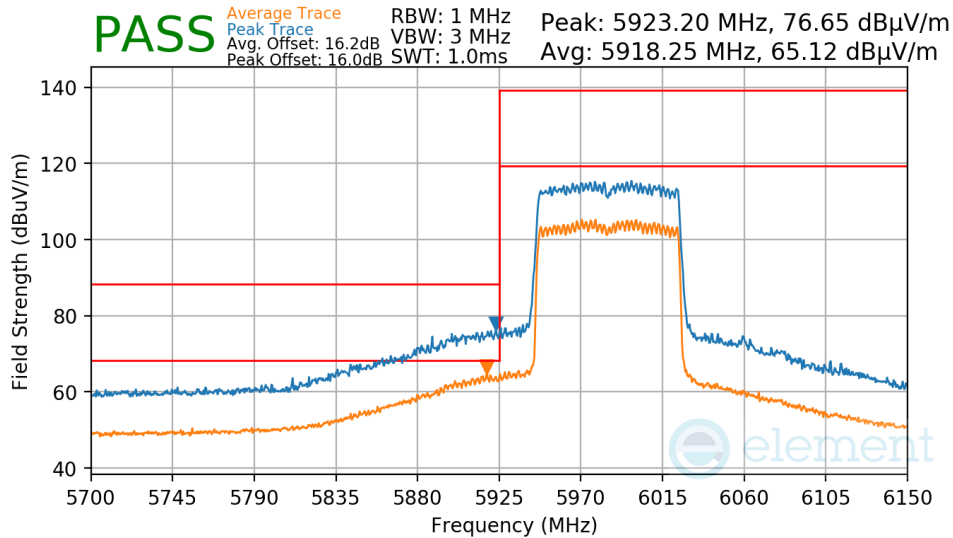


**Plot 7-944. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2902 IC: 579C-A2902		<b>MEASUREMENT REPORT</b> (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 321 of 336

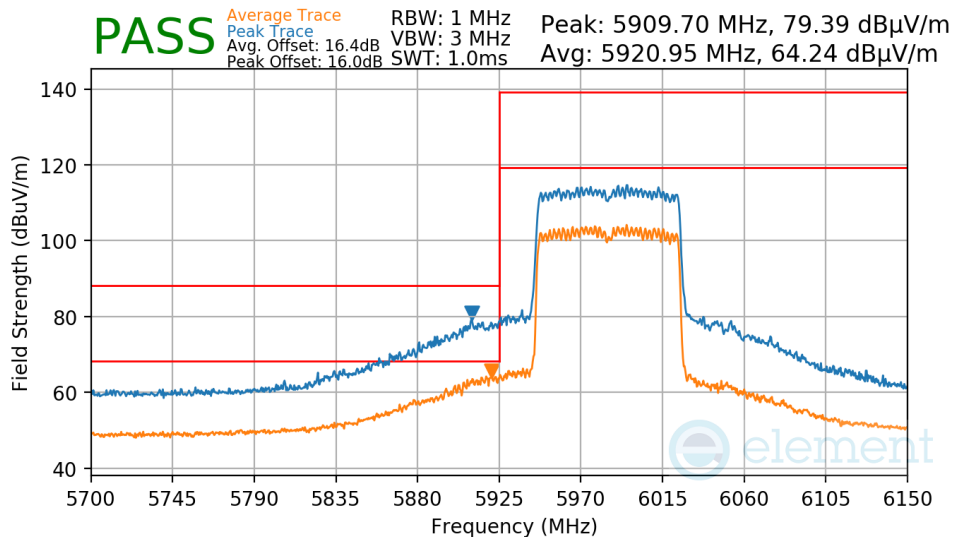
### 7.7.14 SDM Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5985MHz  
 Channel: 7




**Plot 7-945. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5985MHz  
 Channel: 7

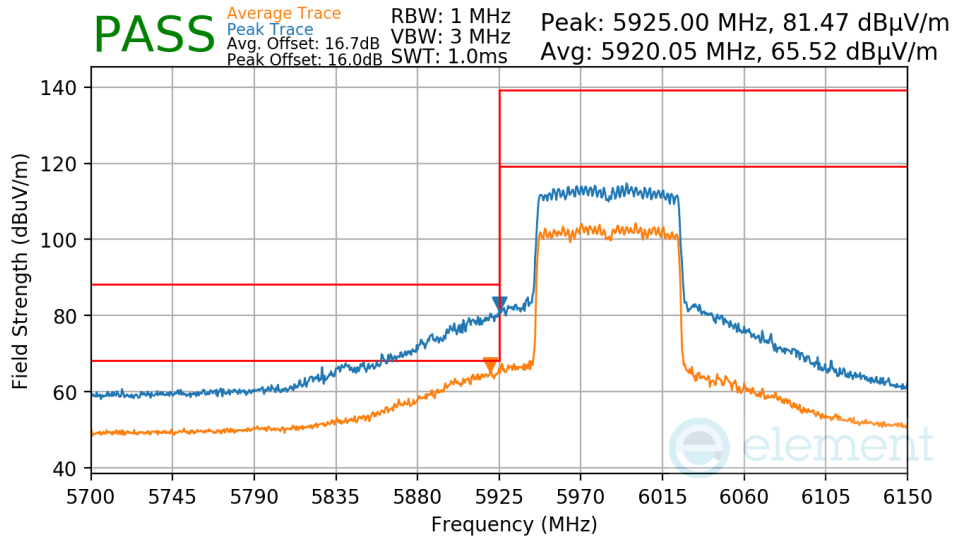


**Plot 7-946. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 322 of 336

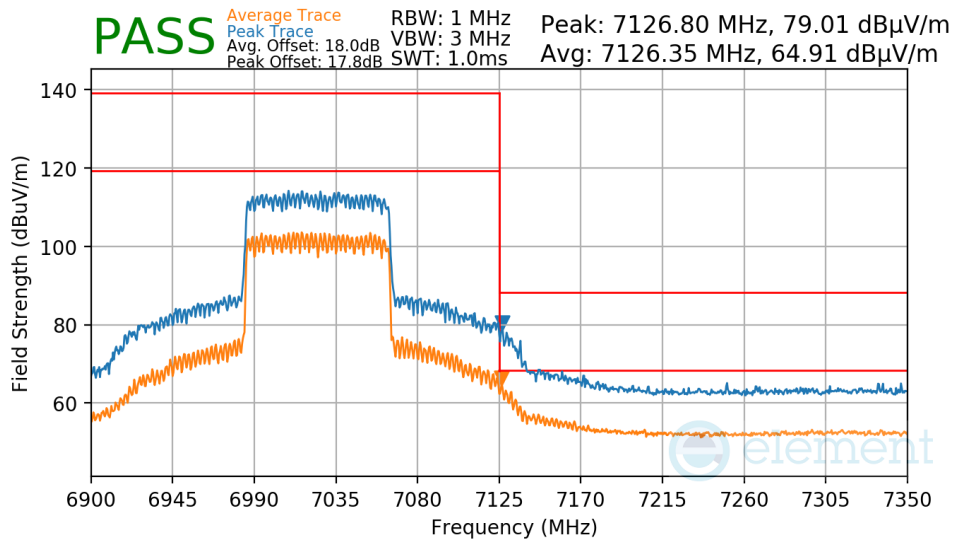


Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5985MHz  
 Channel: 7



**Plot 7-947. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

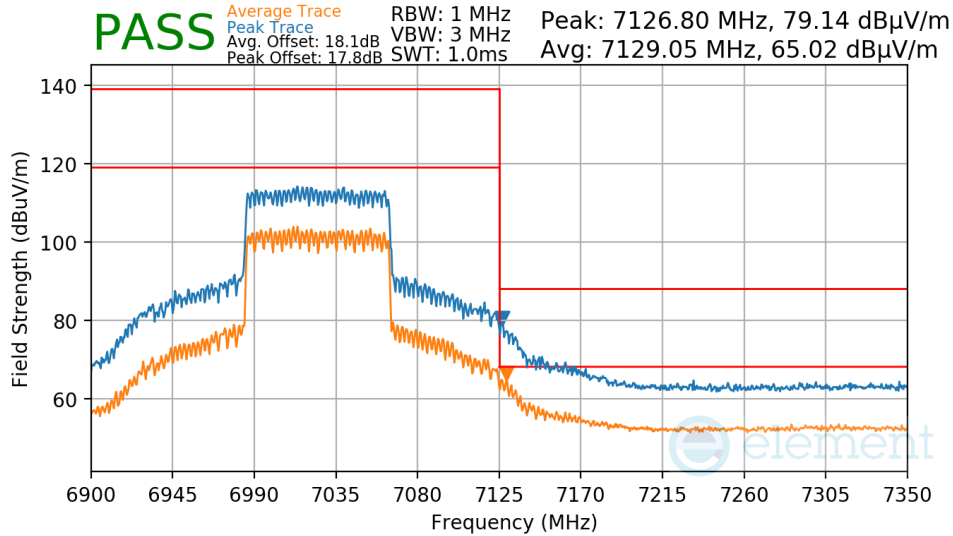
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-948. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

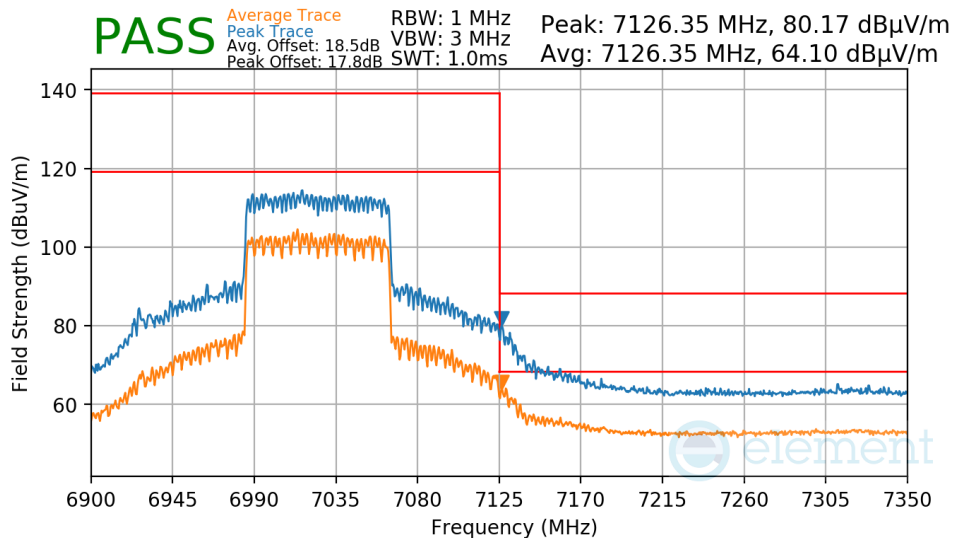
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 323 of 336

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-949. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215

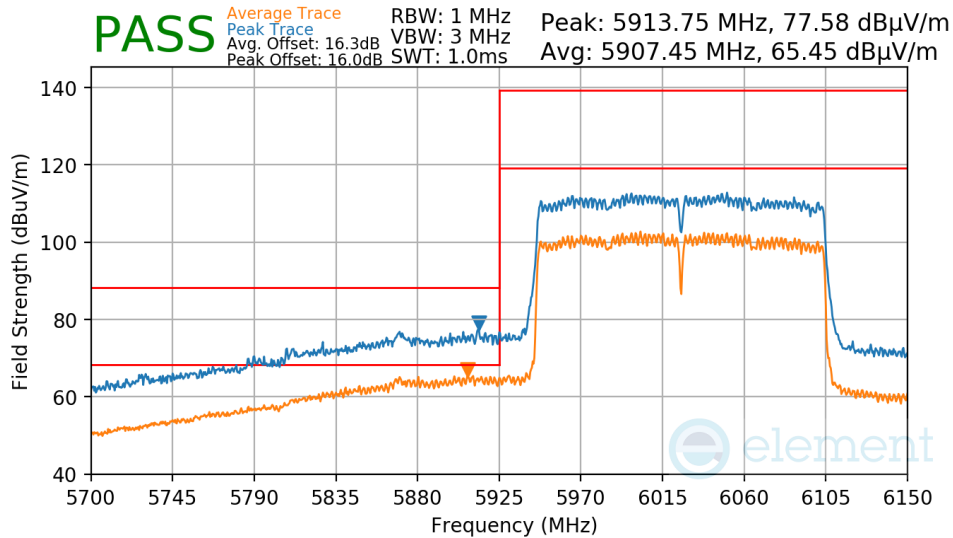


**Plot 7-950. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 324 of 336

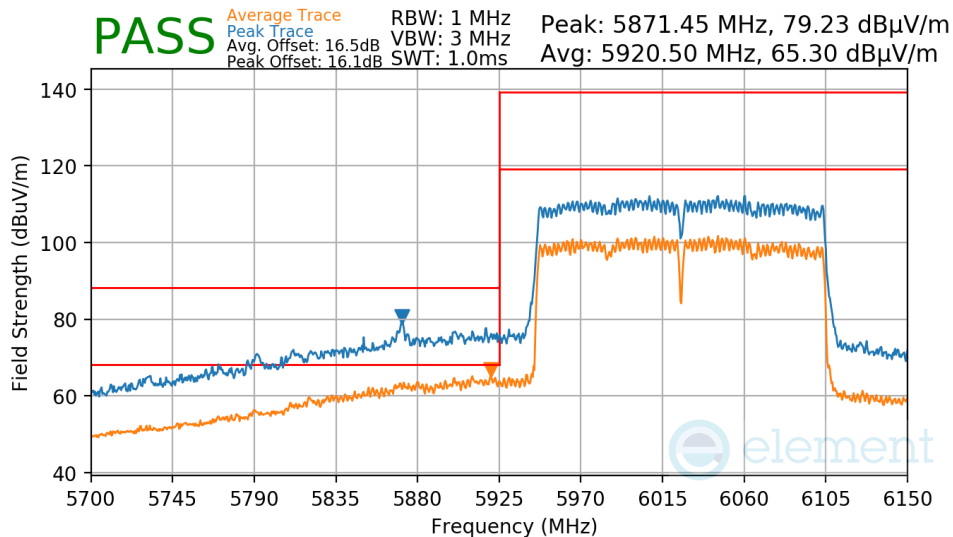
### 7.7.15 SDM Radiated Band Edge Measurements (160MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6025MHz  
 Channel: 15




**Plot 7-951. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

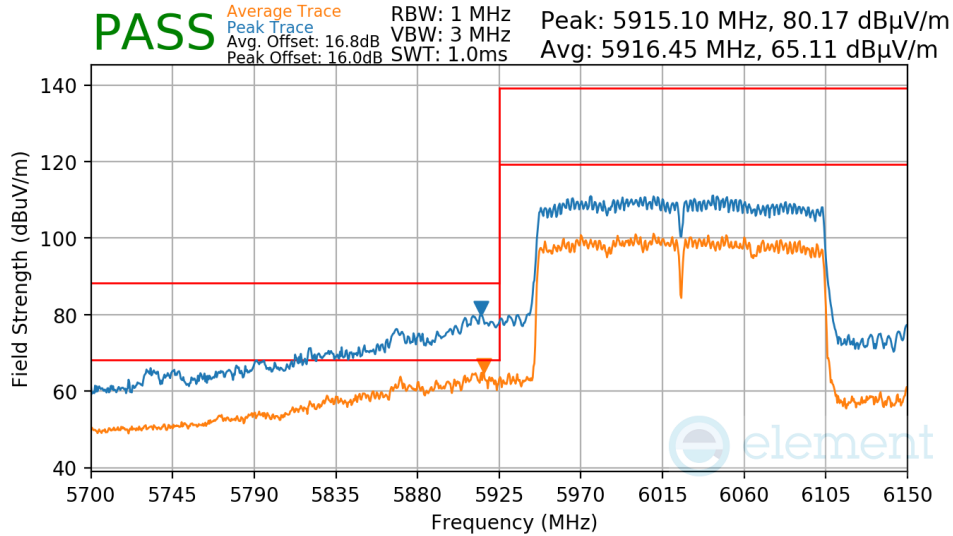
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6025MHz  
 Channel: 15



**Plot 7-952. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

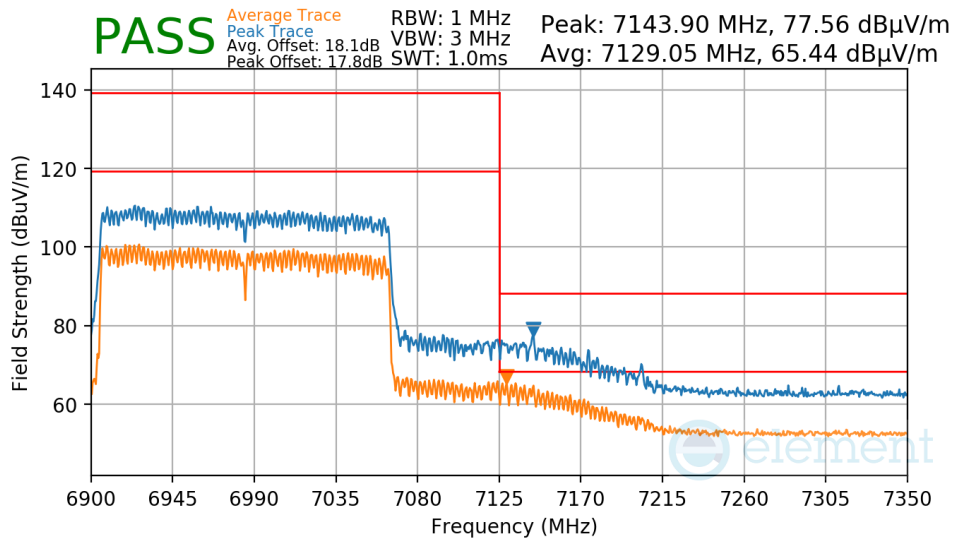
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 325 of 336

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6025MHz  
 Channel: 15




**Plot 7-953. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

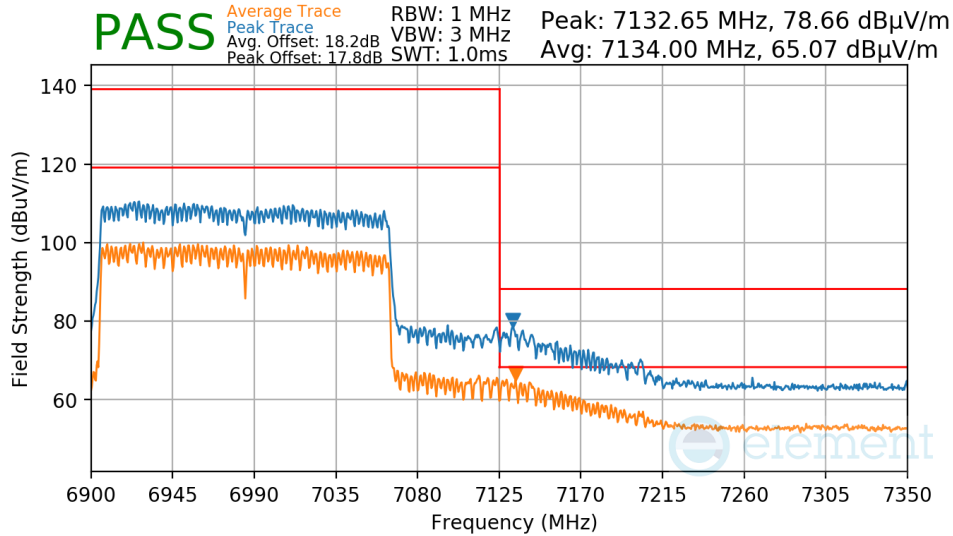
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-954. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

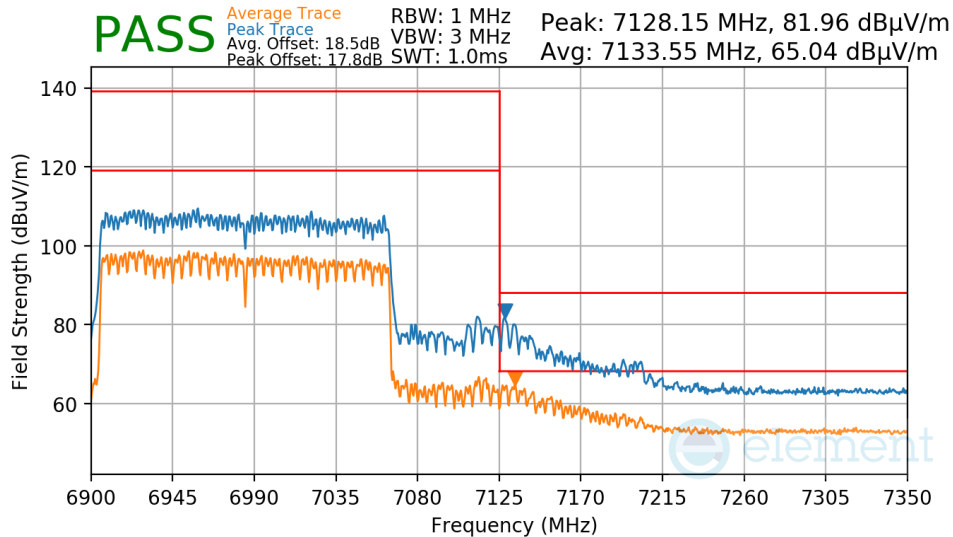
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 326 of 336

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-955. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-956. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2902 IC: 579C-A2902		<b>MEASUREMENT REPORT</b> (Certification)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-13-R1.BCG	Test Dates: 11/29/2023 - 04/04/2024	EUT Type: Tablet Device	Page 327 of 336

## 7.8 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 and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-138 per Section 15.209 and RSS-Gen (8.9).**

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

**Table 7-138. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013


### Test Settings

#### Quasi-Peak Field Strength Measurements

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

#### Peak Field Strength Measurements

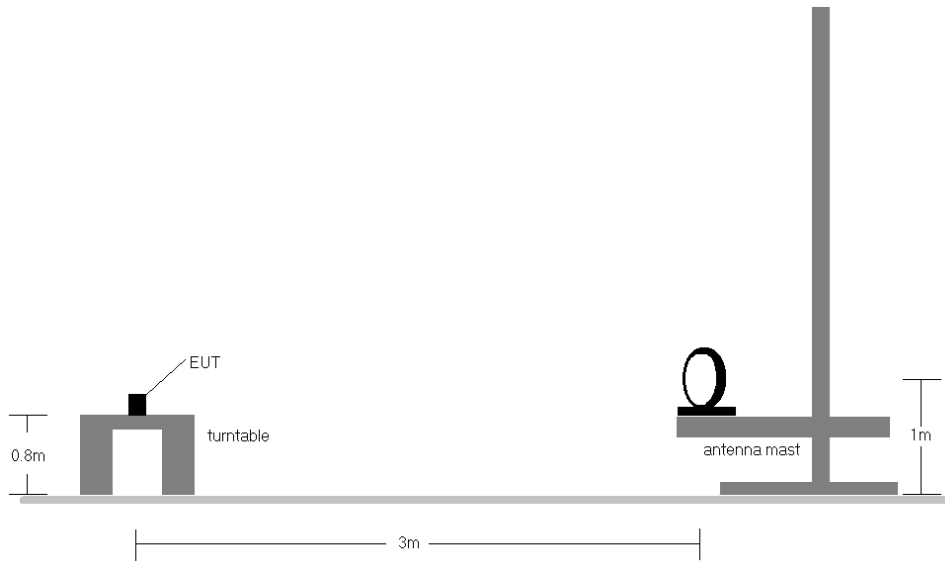
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = quasi-peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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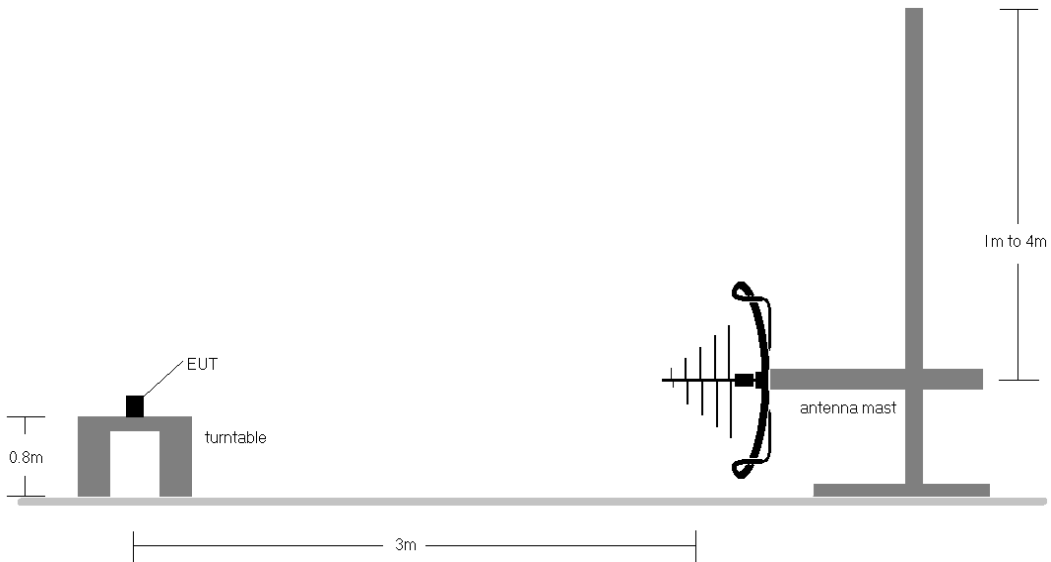
V 10.5 12/15/2021

**Test Setup**


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



**Figure 7-7. Radiated Test Setup < 30MHz**



**Figure 7-8. Radiated Test Setup < 1GHz**

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**Test Notes**

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-138.
2. 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. N/A
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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. 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
11. All antenna configurations were investigated and only the worst case is reported.
12. The unit was tested with all possible modes and only the highest emission is reported.

**Sample Calculations**

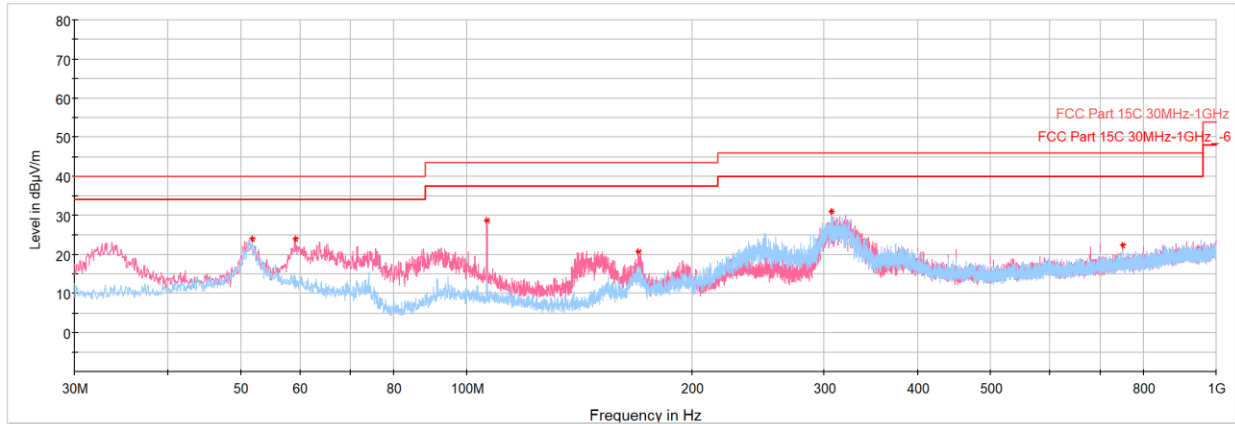
**Determining Spurious Emissions Levels**

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

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<b>Test Report S/N:</b> 1C2311270063-13-R1.BCG	<b>Test Dates:</b> 11/29/2023 - 04/04/2024	<b>EUT Type:</b> Tablet Device



### 7.8.1 SDM Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]




— Preview Result 1V-PK+     — Preview Result 1H-PK+     \* Critical\_Freqs PK+  
— FCC Part 15C 30MHz-1GHz     — FCC Part 15C 30MHz-1GHz\_-6     ◆ Final\_Result QPK

**Plot 7-957. Radiated Spurious Emissions below 1GHz SDM, 802.11ax, Ch.1 with Laptop**

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]
51.83	Max Peak	H	300	207	-70.20	-12.86	23.94	40.00	-16.06
59.10	Max Peak	V	100	55	-68.03	-15.01	23.96	40.00	-16.04
106.48	Max Peak	V	100	171	-61.74	-16.52	28.74	43.52	-14.78
169.53	Max Peak	V	100	272	-67.38	-18.96	20.66	43.52	-22.86
306.79	Max Peak	H	100	49	-61.77	-14.18	31.05	46.02	-14.97
749.26	Max Peak	V	200	158	-79.06	-5.47	22.47	46.02	-23.55

**Table 7-139. Radiated Spurious Emissions Measurement below 1GHz SDM, 802.11ax, Ch.1 with Laptop**

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## 7.9 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 (dB $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-140. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, 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
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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## Test Setup

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

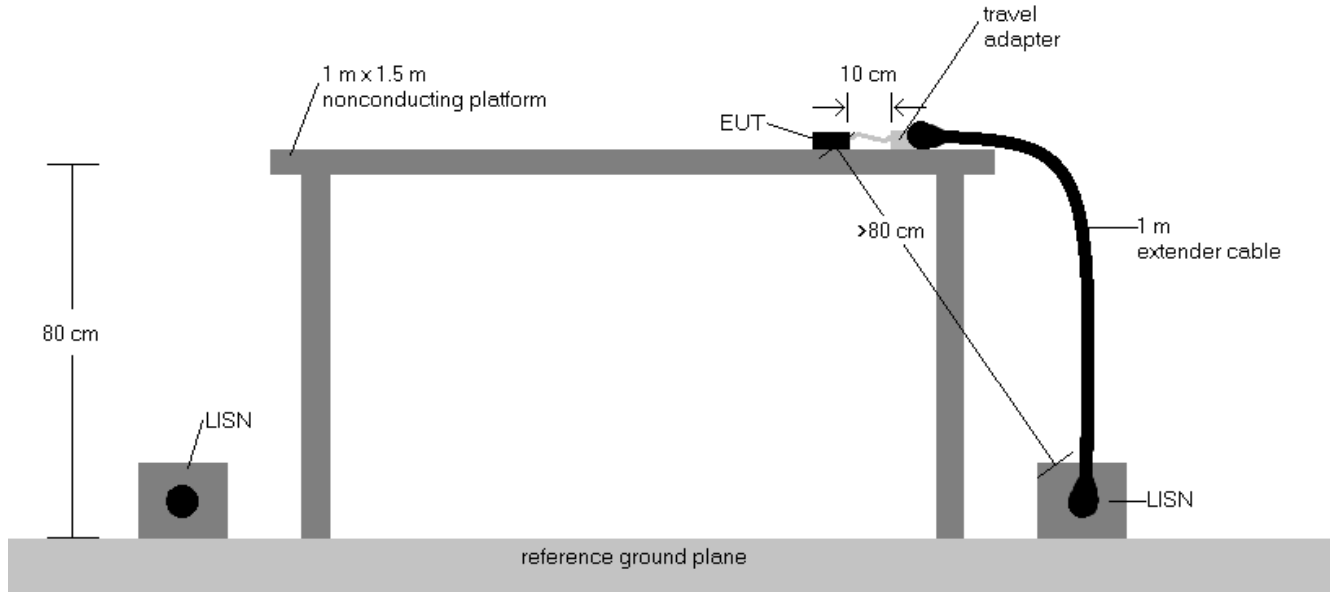



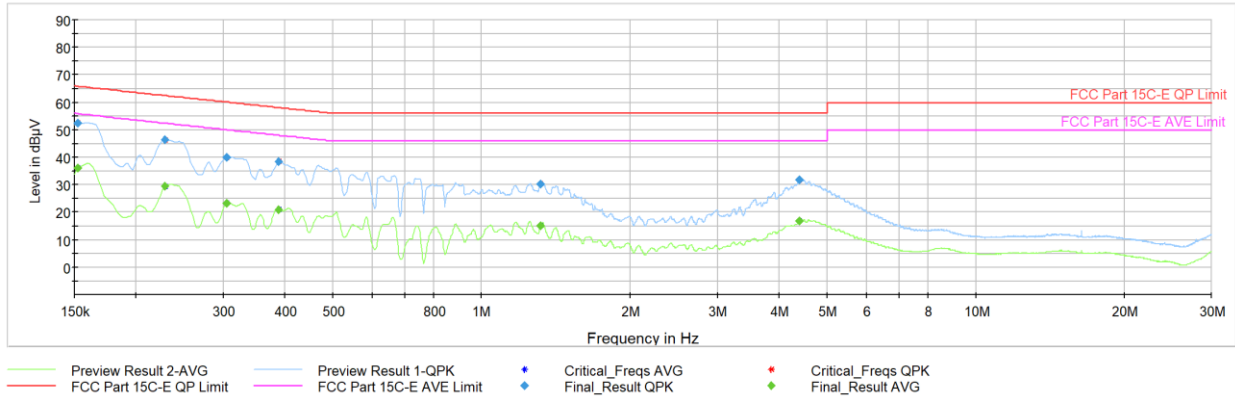
Figure 7-9. Test Instrument & Measurement Setup

## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. 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
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
4.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6.  $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
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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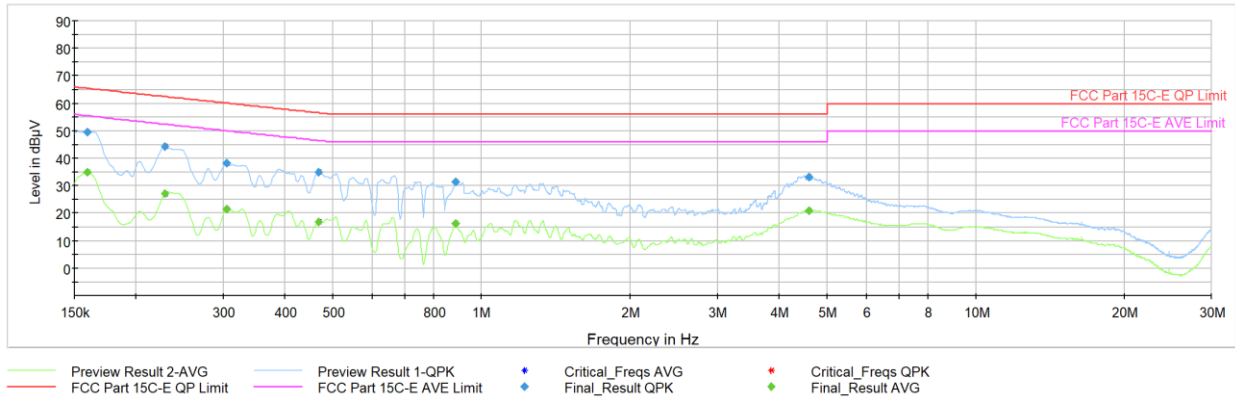


**Plot 7-958. AC Line Conducted Plot with 802.11ax SDM – Ch.1 (L1), with AC/DC adapter**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.152	FINAL	—	36.07	55.88	-19.81	L1	ON
0.152	FINAL	52.7	—	65.88	-13.22	L1	ON
0.229	FINAL	—	29.36	52.50	-23.14	L1	ON
0.229	FINAL	46.6	—	62.50	-15.92	L1	ON
0.305	FINAL	—	23.22	50.10	-26.87	L1	ON
0.305	FINAL	40.0	—	60.10	-20.07	L1	ON
0.389	FINAL	38.4	—	58.10	-19.70	L1	ON
0.389	FINAL	—	21.12	48.10	-26.98	L1	ON
1.318	FINAL	30.3	—	56.00	-25.66	L1	ON
1.318	FINAL	—	15.17	46.00	-30.83	L1	ON
4.385	FINAL	—	16.83	46.00	-29.17	L1	ON
4.385	FINAL	31.7	—	56.00	-24.33	L1	ON

**Table 7-141. AC Line Conducted Data with 802.11ax SDM – Ch. 1 (L1) with AC/DC adapter**

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**Plot 7-959. AC Line Conducted Plot with 802.11ax SDM – Ch. 1 (N), with AC/DC adapter**


Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	—	35.09	55.52	-20.43	N	ON
0.159	FINAL	49.8	—	65.52	-15.72	N	ON
0.229	FINAL	—	27.09	52.50	-25.41	N	ON
0.229	FINAL	44.3	—	62.50	-18.15	N	ON
0.305	FINAL	—	21.53	50.10	-28.57	N	ON
0.305	FINAL	38.1	—	60.10	-21.97	N	ON
0.467	FINAL	35.1	—	56.56	-21.49	N	ON
0.467	FINAL	—	16.88	46.56	-29.68	N	ON
0.886	FINAL	31.5	—	56.00	-24.48	N	ON
0.886	FINAL	—	16.46	46.00	-29.54	N	ON
4.596	FINAL	—	20.98	46.00	-25.02	N	ON
4.598	FINAL	33.3	—	56.00	-22.70	N	ON

**Table 7-142. AC Line Conducted Data with 802.11ax SDM – Ch. 1 (N), with AC/DC adapter**

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2902** and **IC: 579C-A2902** 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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