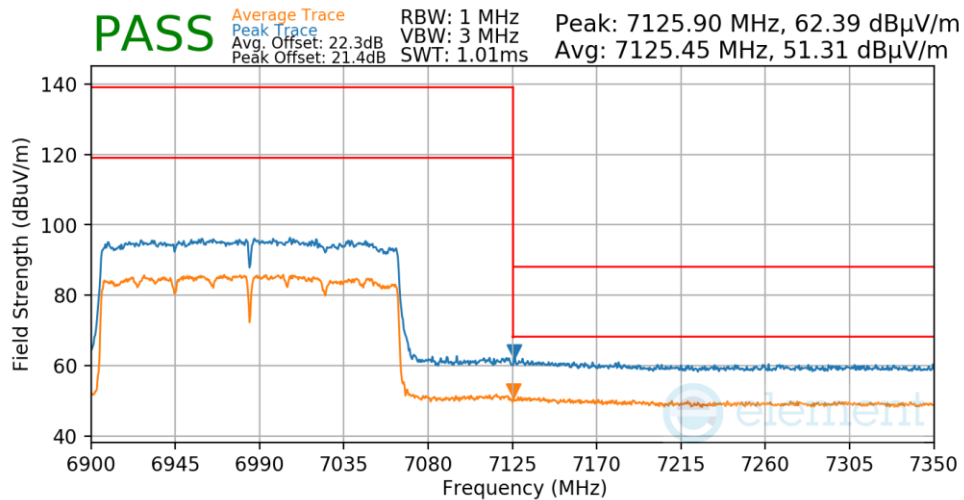
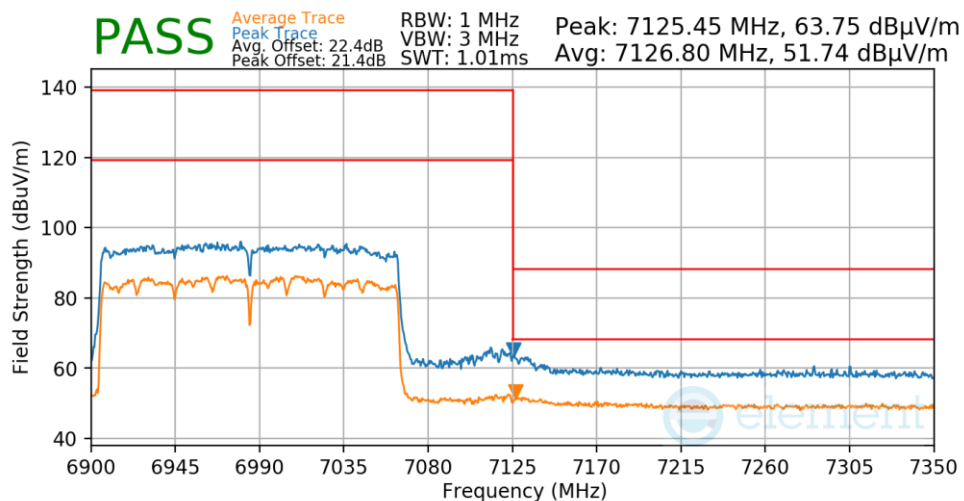


Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS4
Distance of Measurements: 3 Meters
Operating Frequency: 6985MHz
Channel: 207



Plot 7-711. Antenna 4a 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 7-712. Antenna 4a Radiated Upper Band Edge (Peak & Average – UNII Band 8)

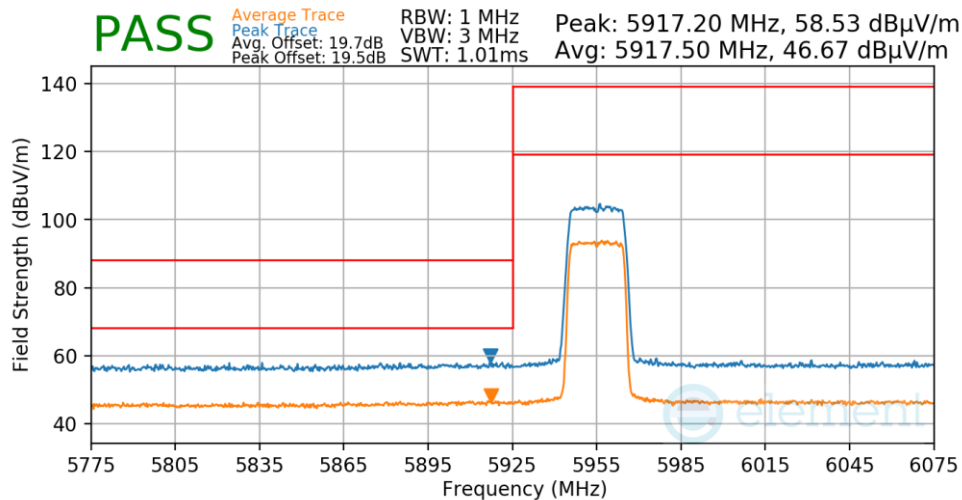
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-21-R3.BCG	Test Dates: 05/27/2022 - 9/12/2022	EUT Type: Tablet Device	Page 259 of 282

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7.7.12 SDM Radiated Band Edge Measurements (20MHz BW)

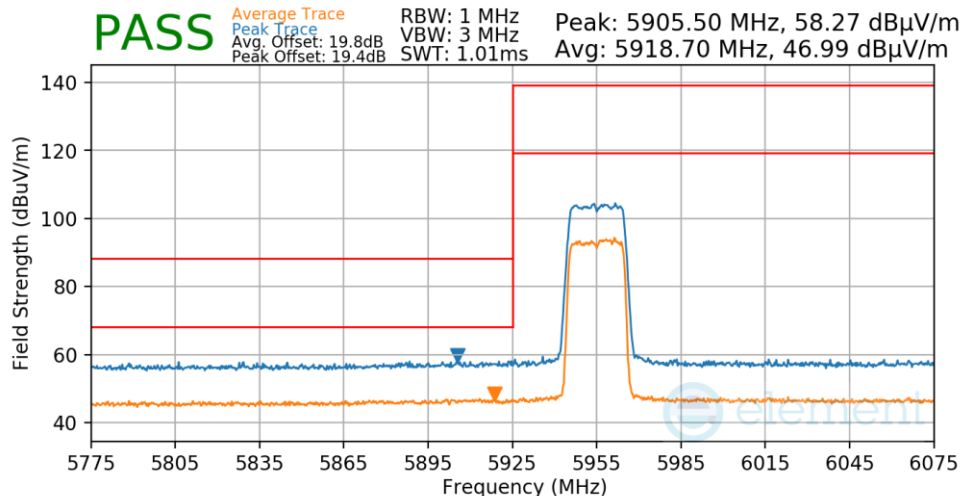
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS2
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1



Plot 7-713. 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:	5955MHz
Channel:	1

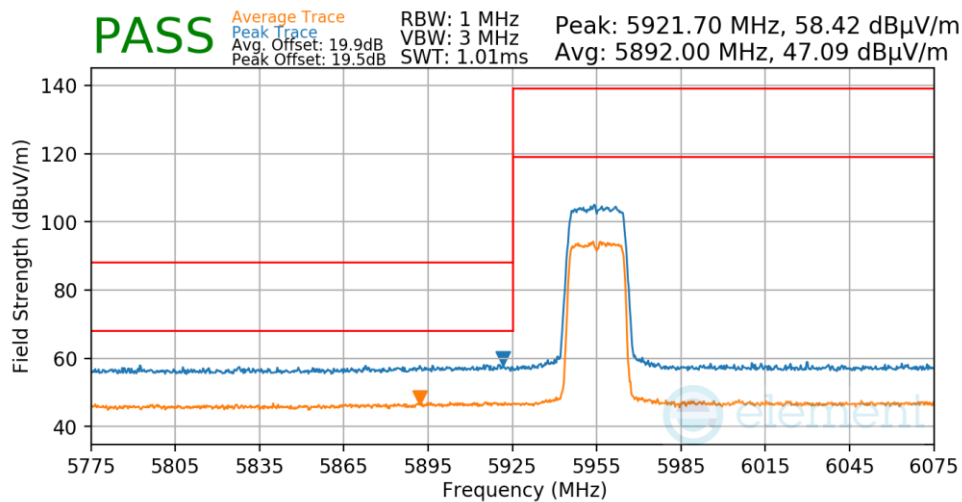


Plot 7-714. SDM Radiated Lower Band Edge (Peak/Average – UNII Band 5)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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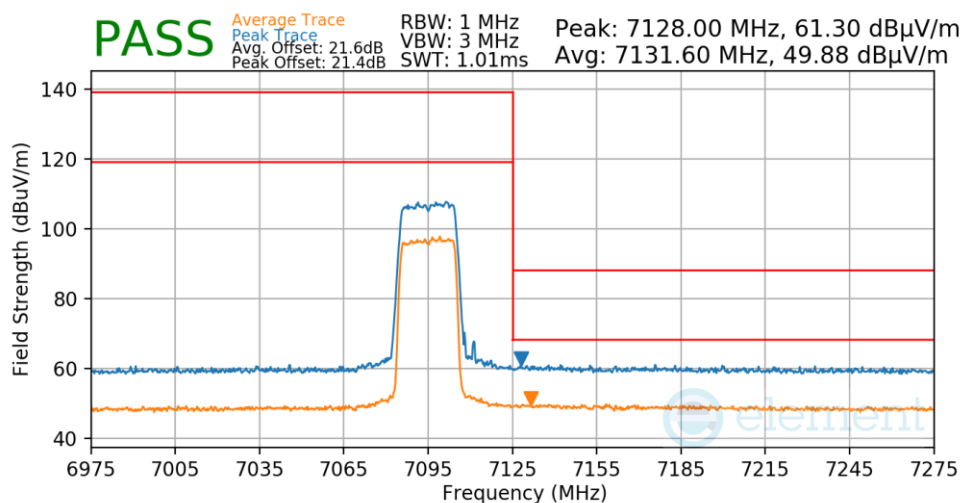
V 10.5 12/15/2021

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



Plot 7-715. 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

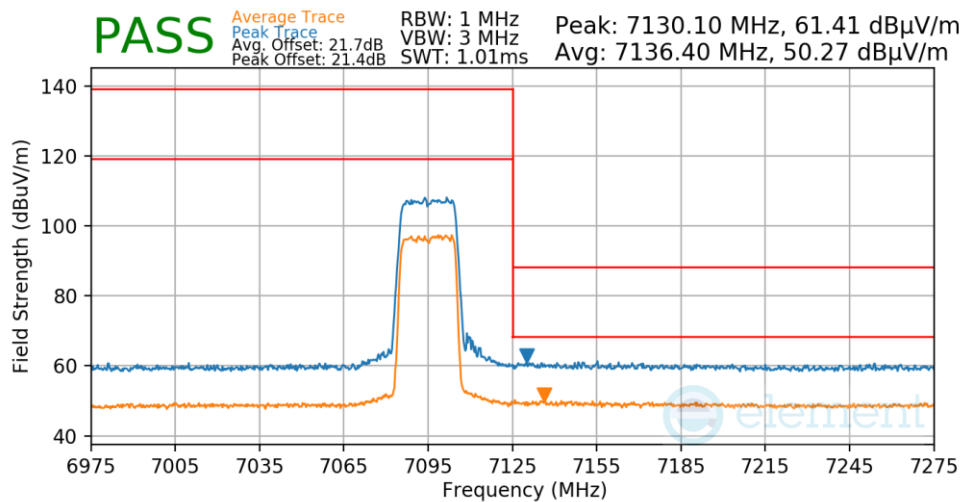


Plot 7-716. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-21-R3.BCG	Test Dates: 05/27/2022 - 9/12/2022	EUT Type: Tablet Device	Page 261 of 282

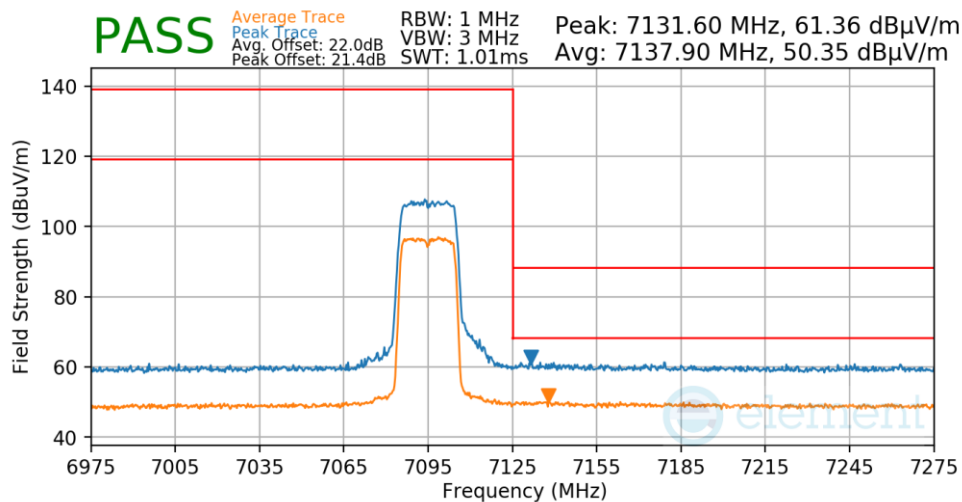
V 10.5 12/15/2021

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



Plot 7-717. 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

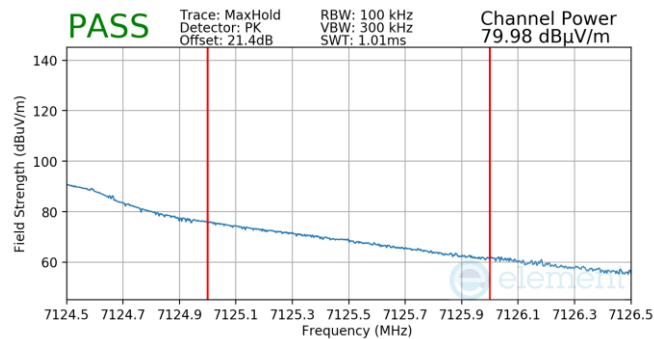


Plot 7-718. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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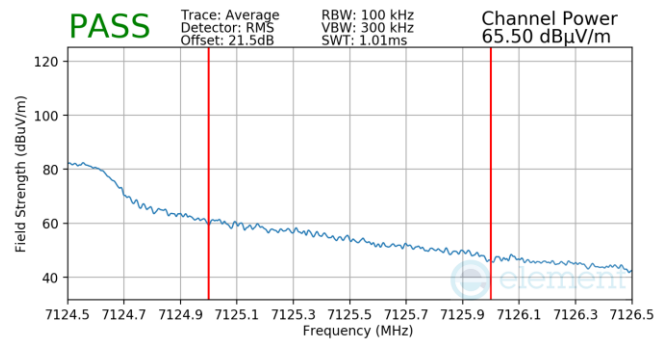
V 10.5 12/15/2021

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

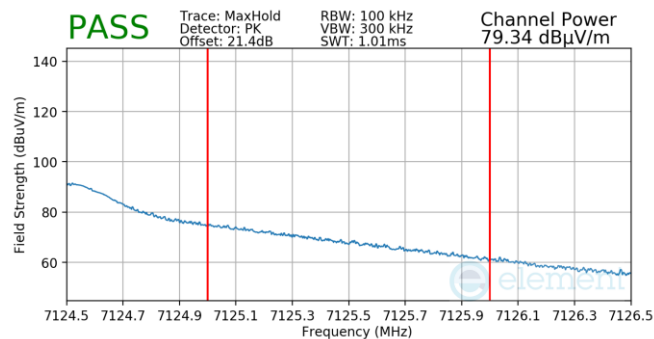


Plot 7-719. SDM Radiated Upper Band Edge (Peak – UNII Band 8)

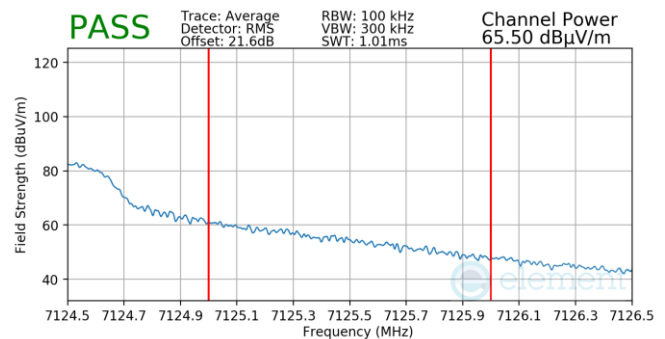
Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS4
Distance of Measurements: 3 Meters
Operating Frequency: 7115MHz
Channel: 233



Plot 7-720. SDM Radiated Upper Band Edge (Average – UNII Band 8)



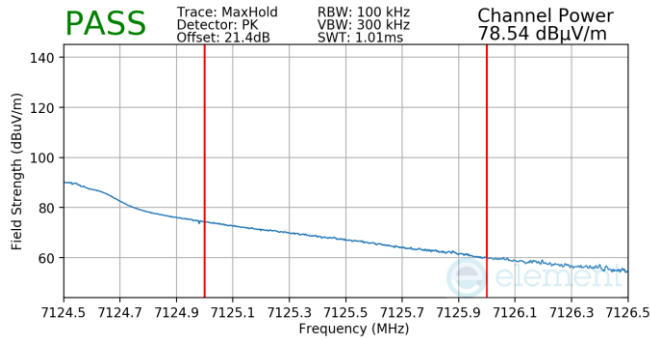
Plot 7-721. SDM Radiated Upper Band Edge (Peak – UNII Band 8)



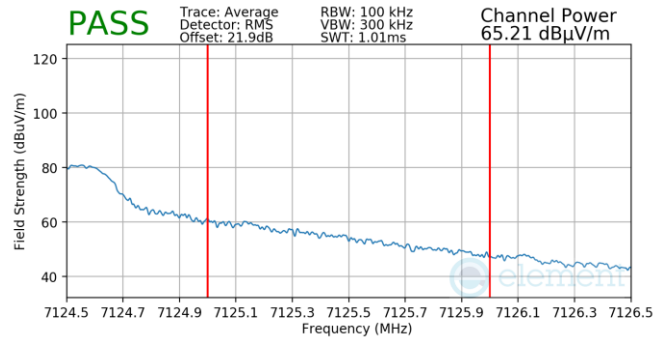
Plot 7-722. SDM Radiated Upper Band Edge (Average – UNII Band 8)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233



Plot 7-723. SDM Radiated Upper Band Edge (Peak – UNII Band 8)



Plot 7-724. SDM Radiated Upper Band Edge (Average – UNII Band 8)

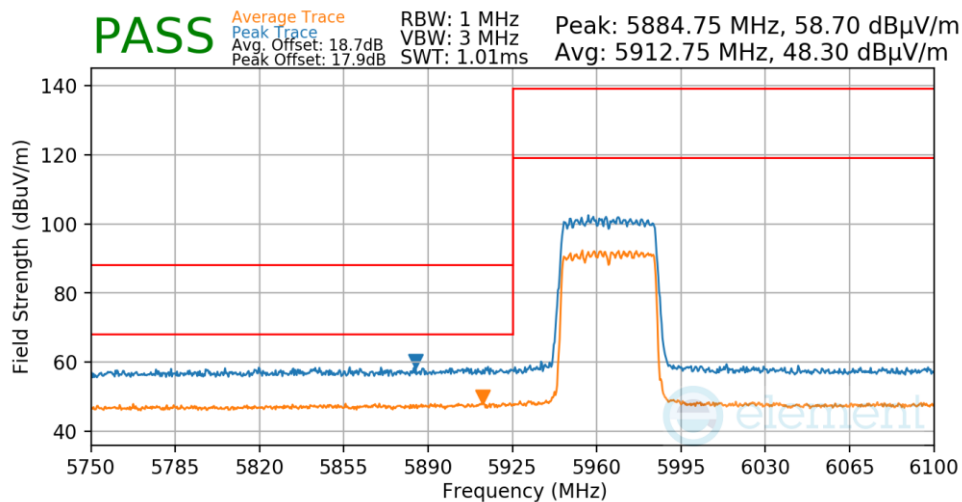
FCC ID: BCGA2435 IC: 579C-A2435	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090025-21-R3.BCG	Test Dates: 05/27/2022 - 9/12/2022	EUT Type: Tablet Device	Page 264 of 282

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7.7.13 SDM Radiated Band Edge Measurements (40MHz BW)

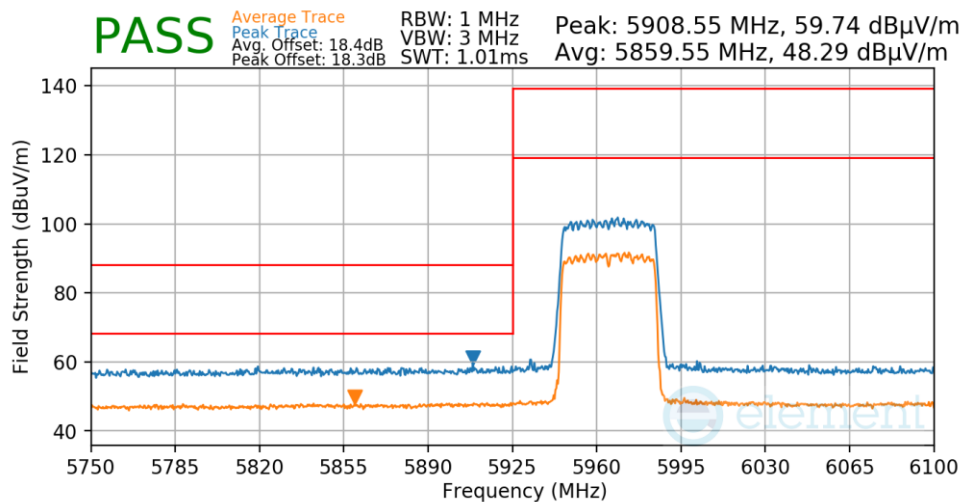
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

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



Plot 7-725. 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

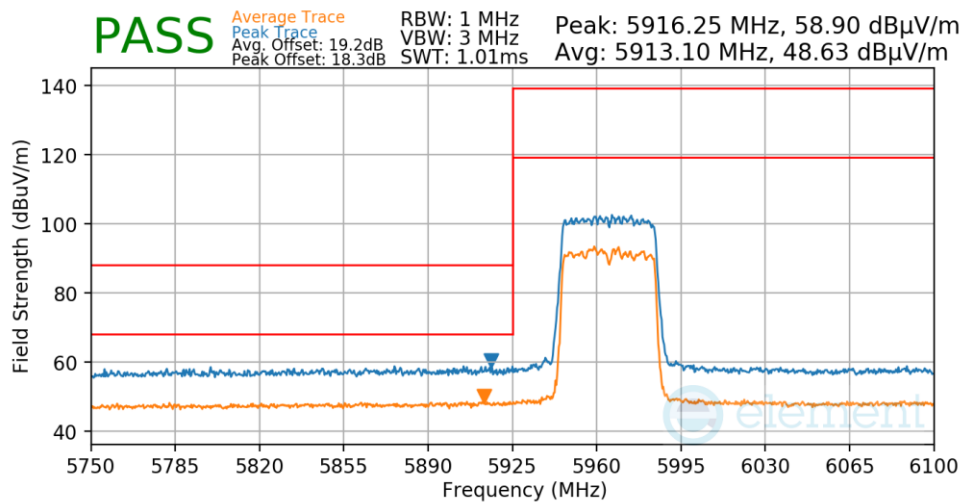


Plot 7-726. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-21-R3.BCG	Test Dates: 05/27/2022 - 9/12/2022	EUT Type: Tablet Device	Page 265 of 282

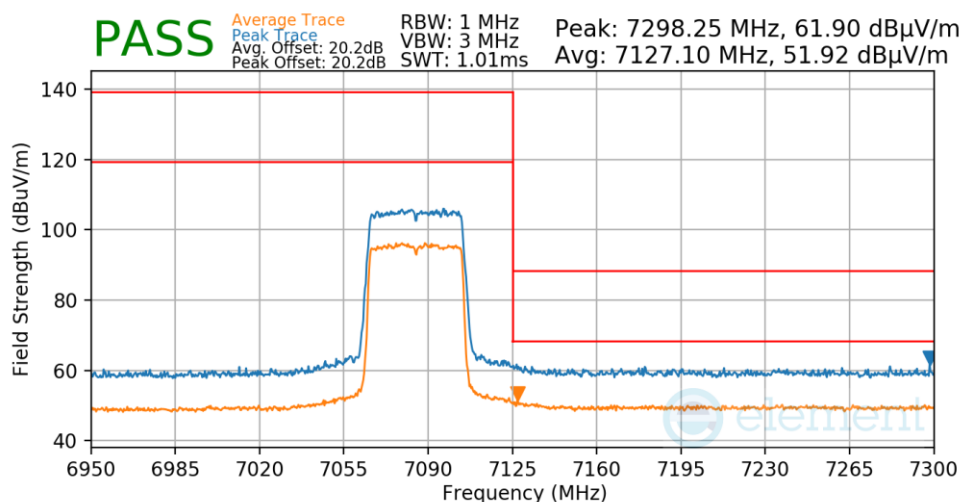
V 10.5 12/15/2021

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



Plot 7-727. 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

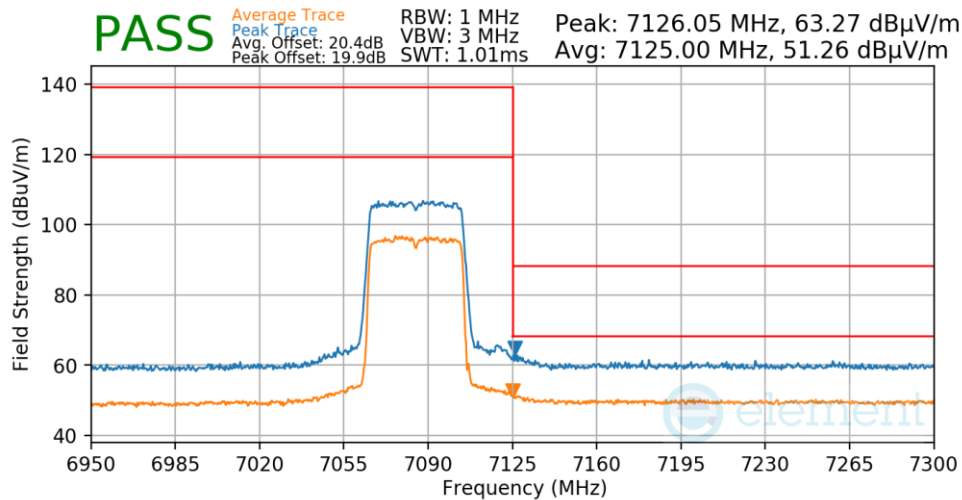


Plot 7-728. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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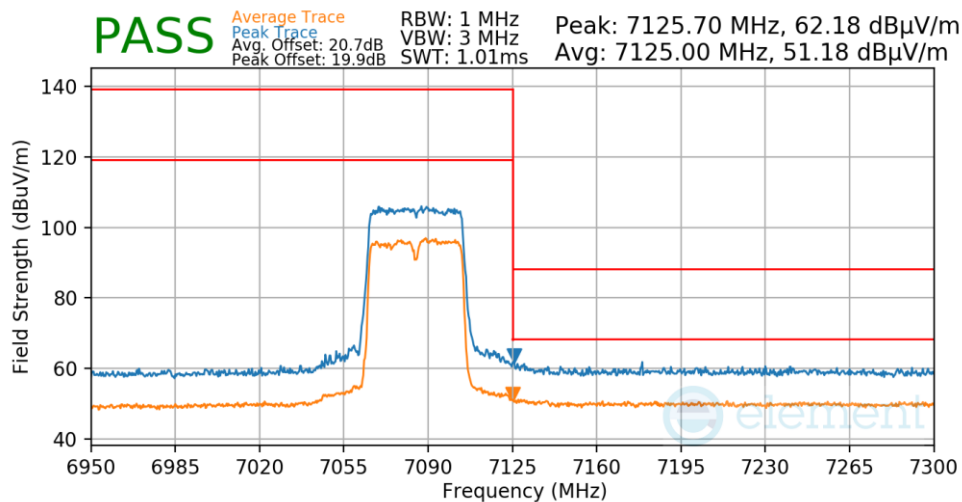
V 10.5 12/15/2021

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



Plot 7-729. 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 7-730. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

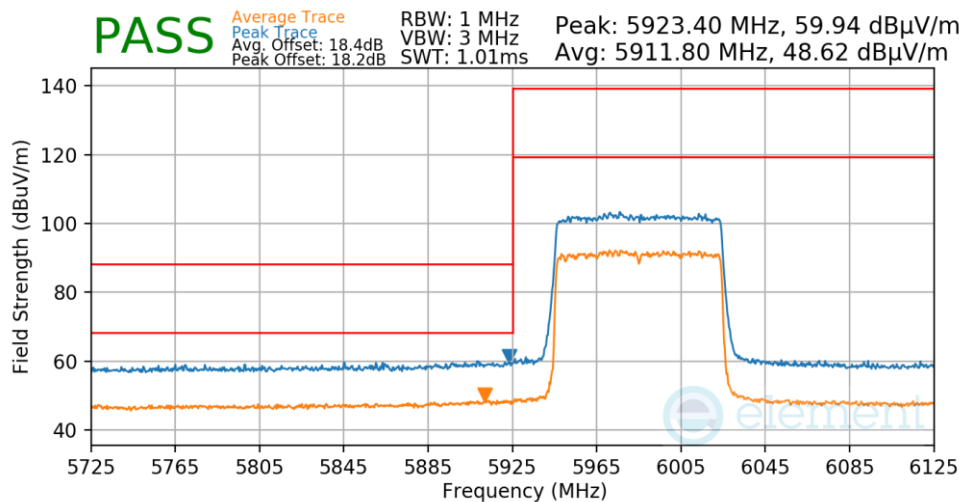
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-21-R3.BCG	Test Dates: 05/27/2022 - 9/12/2022	EUT Type: Tablet Device	Page 267 of 282

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7.7.14 SDM Radiated Band Edge Measurements (80MHz BW)

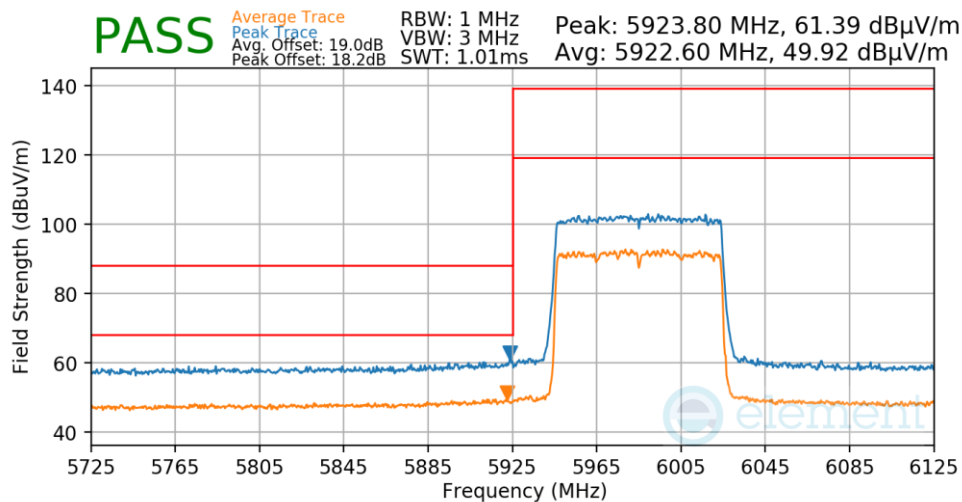
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

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



Plot 7-731. 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

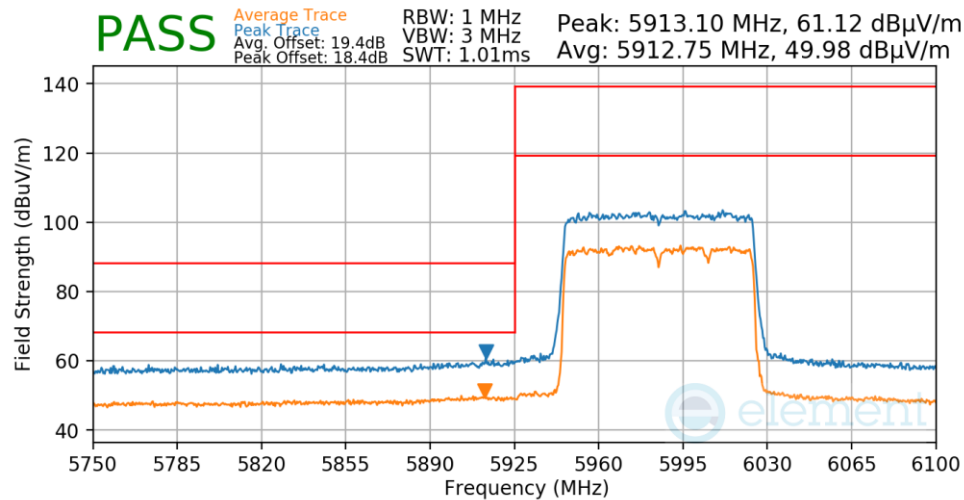


Plot 7-732. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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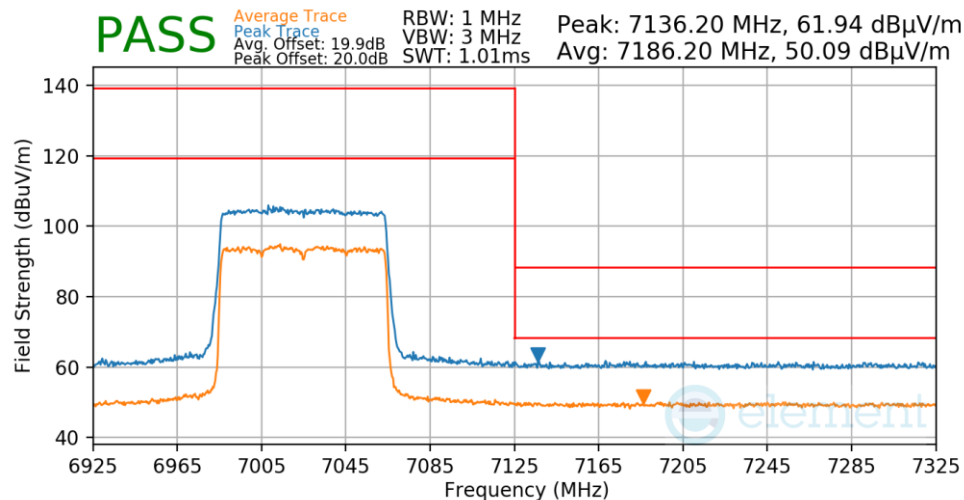
V 10.5 12/15/2021

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



Plot 7-733. 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

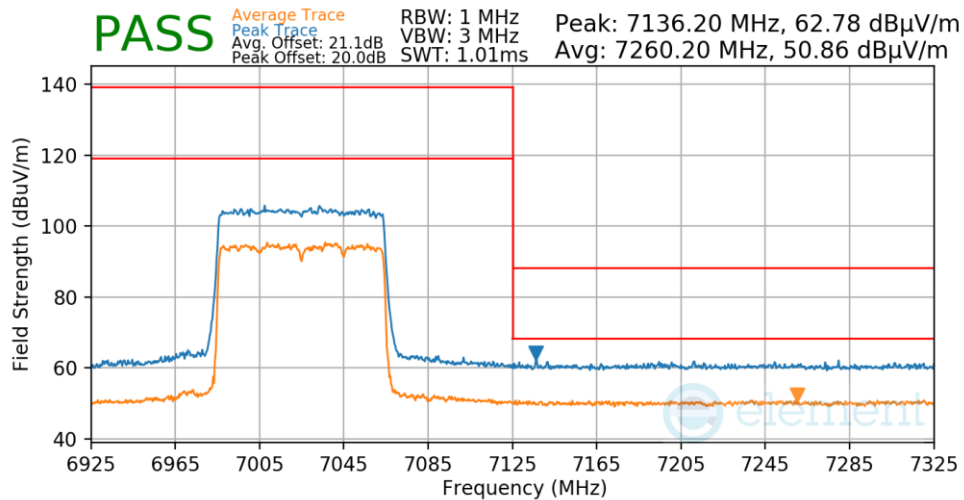


Plot 7-734. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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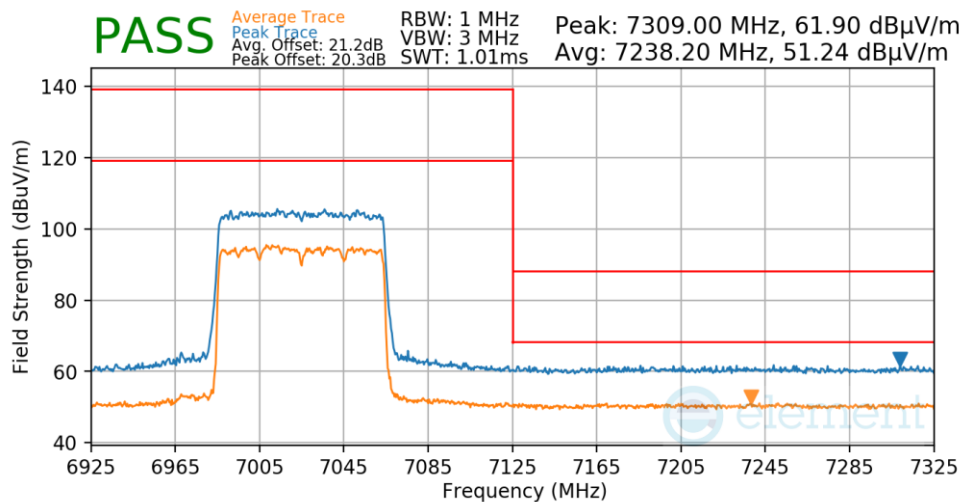
V 10.5 12/15/2021

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



Plot 7-735. 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 7-736. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

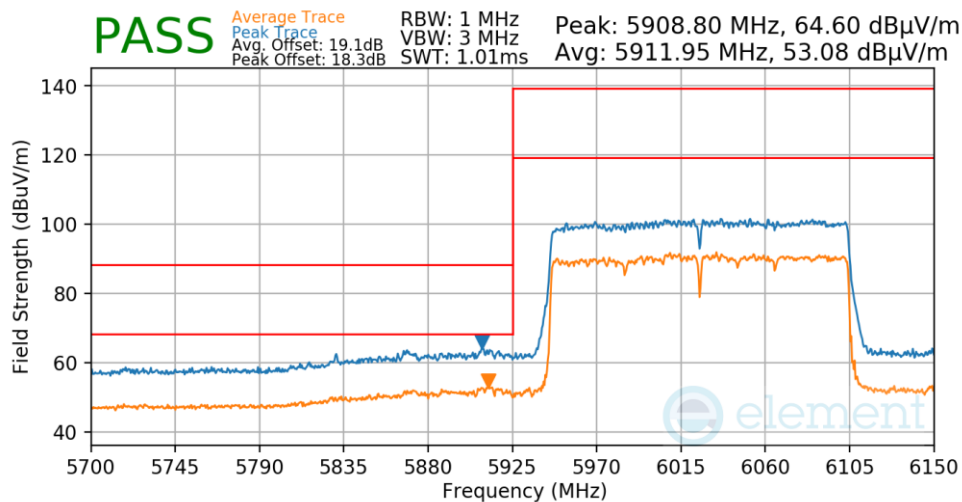
FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-21-R3.BCG	Test Dates: 05/27/2022 - 9/12/2022	EUT Type: Tablet Device	Page 270 of 282

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7.7.15 SDM Radiated Band Edge Measurements (160MHz BW)

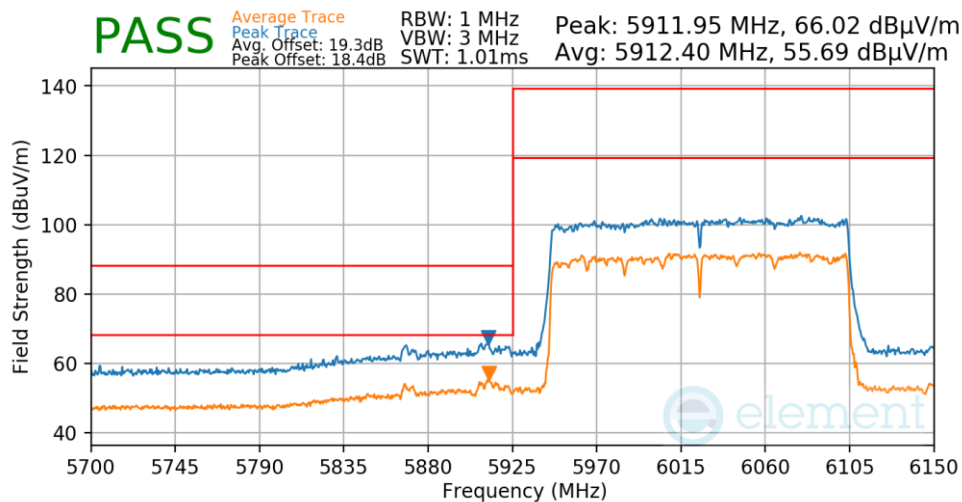
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

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



Plot 7-737. 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

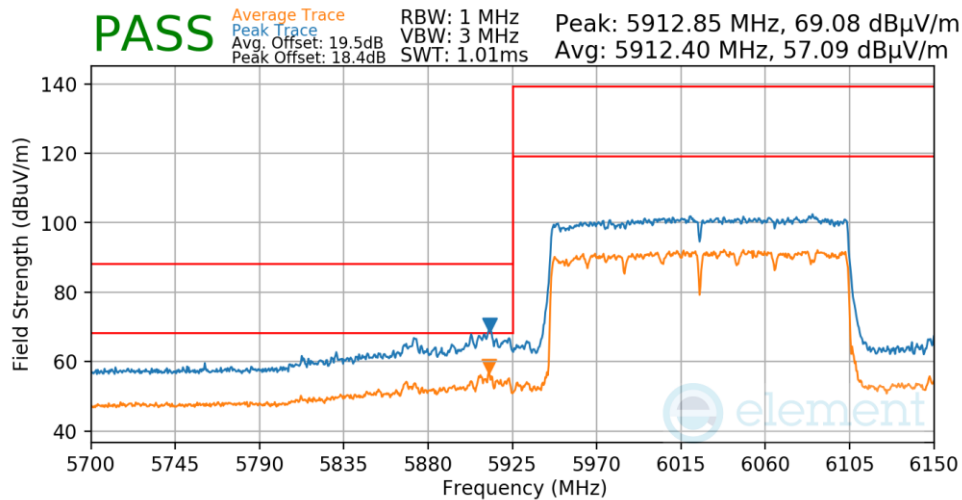


Plot 7-738. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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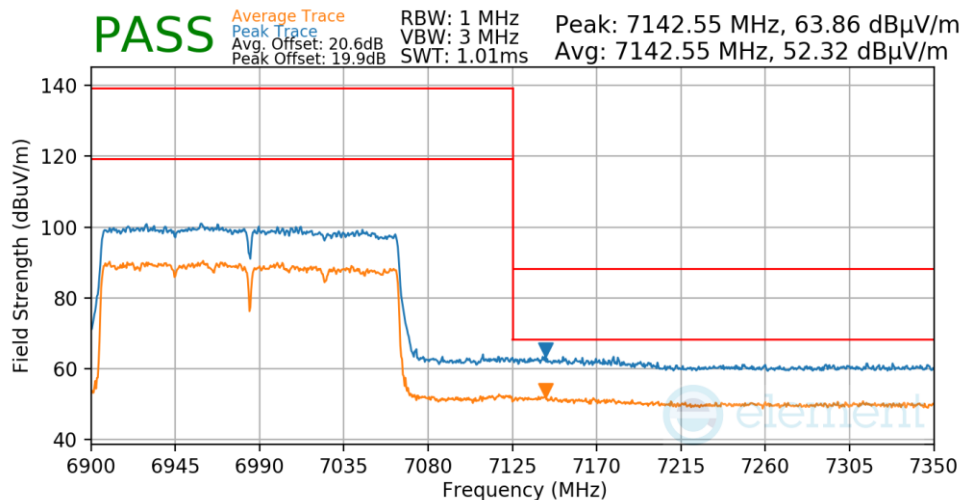
V 10.5 12/15/2021

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



Plot 7-739. 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

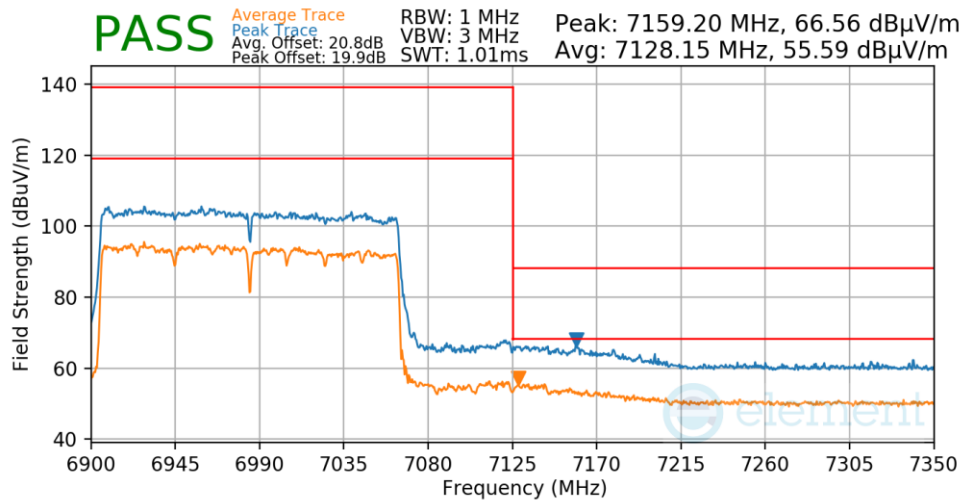


Plot 7-740. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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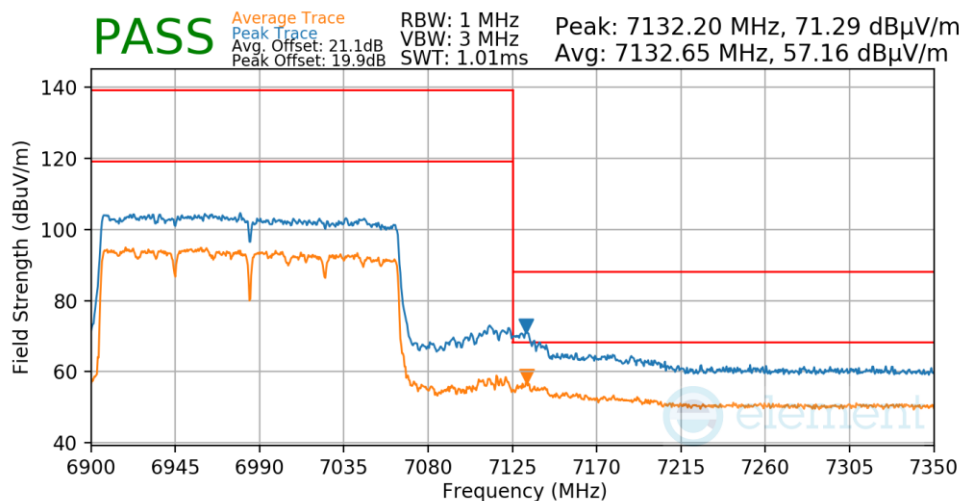
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS4
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



Plot 7-741. 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 7-742. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA2435 IC: 579C-A2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 7-93 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 7-93. 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

7. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
8. RBW = 120kHz (for emissions from 30MHz – 1GHz)
9. VBW = 300kHz
10. Detector = quasi-peak
11. Sweep time = auto couple
12. Trace mode = max hold
13. 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.

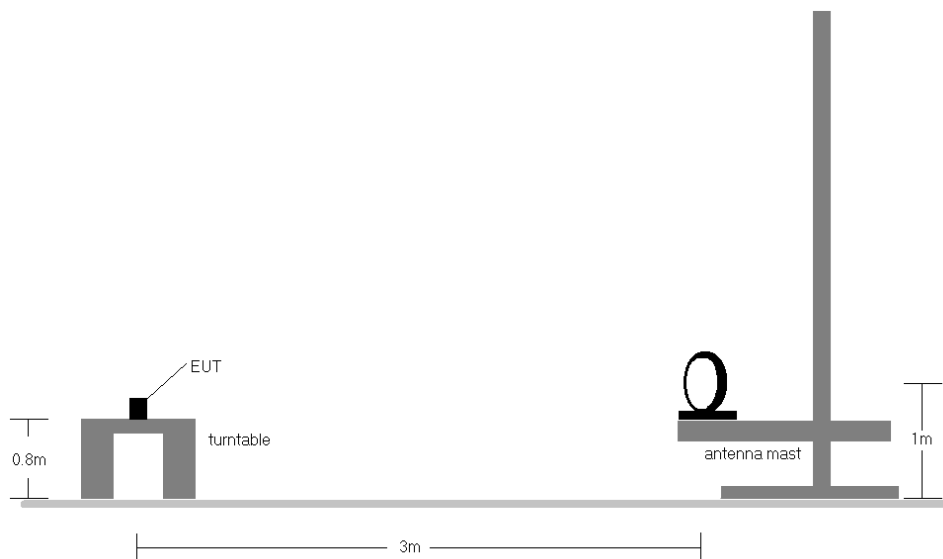


Figure 7-7. Radiated Test Setup < 30MHz

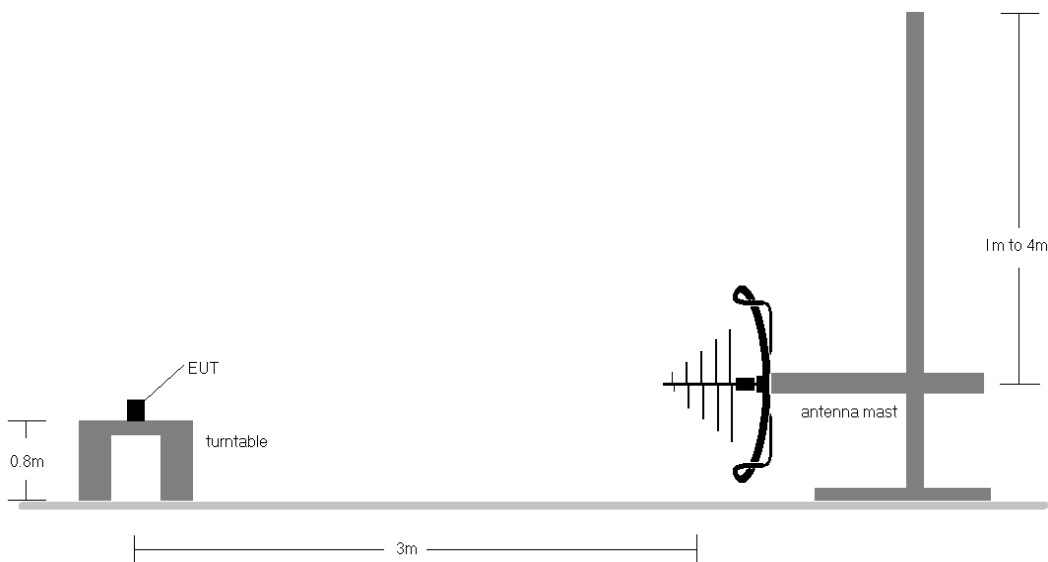


Figure 7-8. Radiated Test Setup < 1GHz

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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 7-93.
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. 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. 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

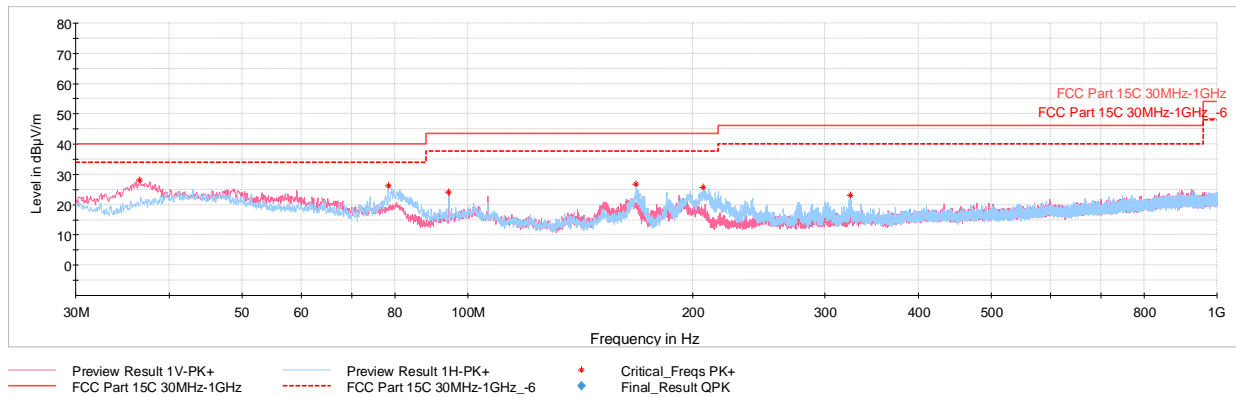
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamp Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit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

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7.8.1 SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
36.55	Max-Peak	V	100	10	-60.67	-18.32	28.01	40.00	-11.99
78.40	Max-Peak	H	200	141	-57.94	-22.75	26.31	40.00	-13.69
94.46	Max-Peak	V	100	20	-63.67	-19.06	24.27	43.52	-19.25
167.89	Max-Peak	H	100	183	-59.91	-20.33	26.76	43.52	-16.76
206.30	Max-Peak	H	100	183	-63.14	-18.19	25.67	43.52	-17.85
324.35	Max-Peak	H	100	128	-69.43	-14.54	23.03	46.02	-22.99

Table 7-94. Radiated Spurious Emissions Measurement below 1GHz SDM, 802.11ax, Ch.1 with AC/DC Adapter

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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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-95. 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.

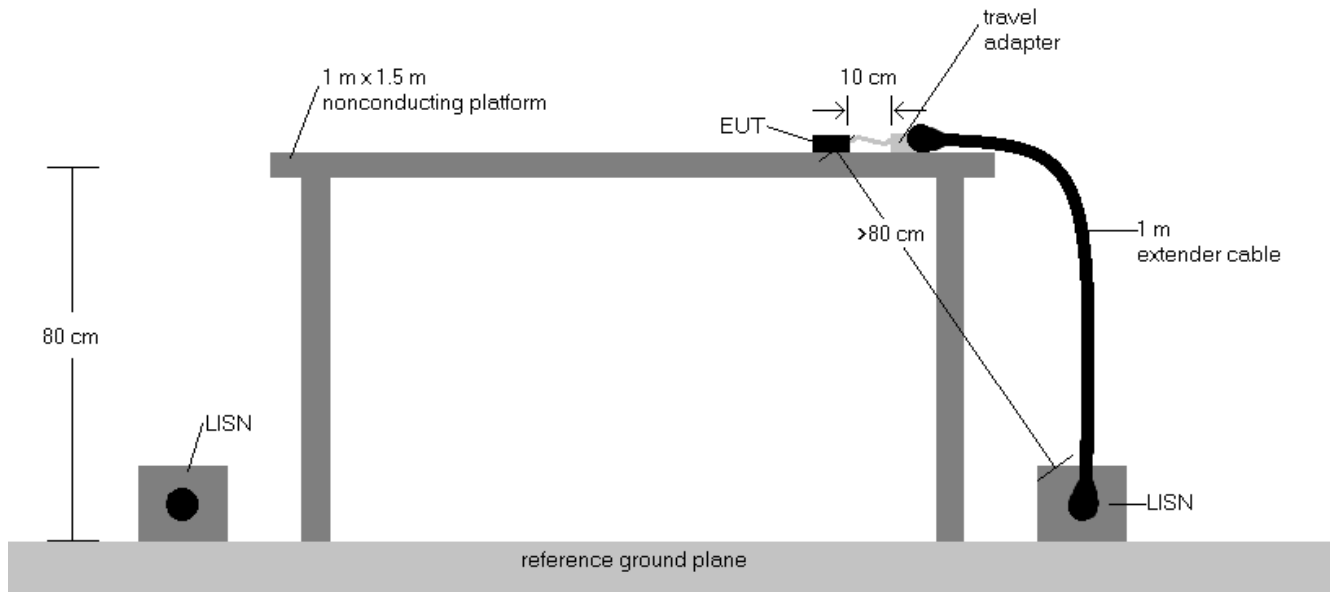


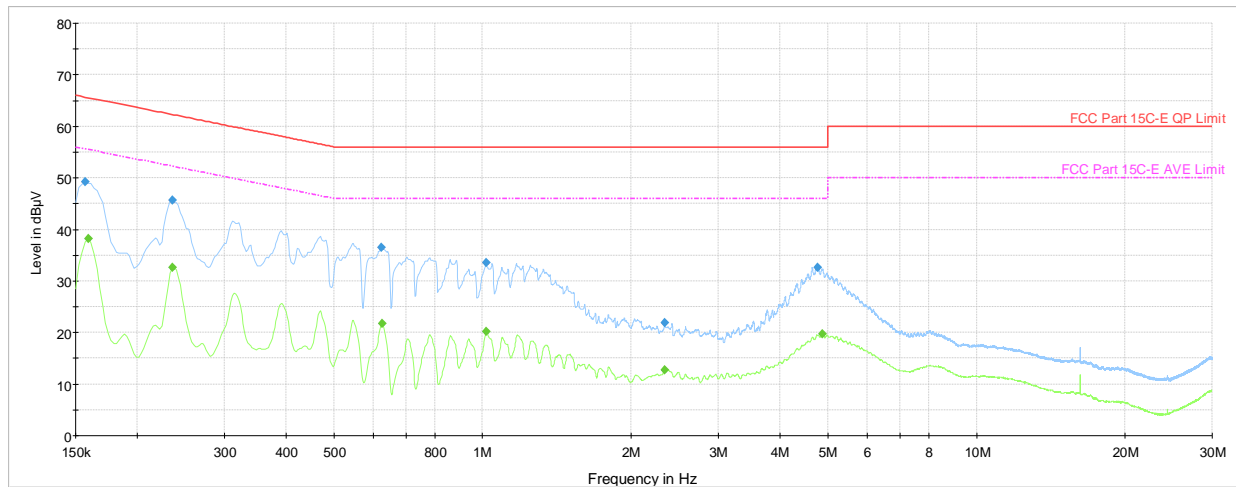
Figure 7-9. Test Instrument & Measurement Setup

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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— Preview Result 2-AVG — Preview Result 1-QPK ♦ Critical_Freqs AVG ♦ Critical_Freqs QPK
— FCC Part 15C-E QP Limit - - - FCC Part 15C-E AVE Limit ♦ Final_Result QPK ♦ Final_Result AVG

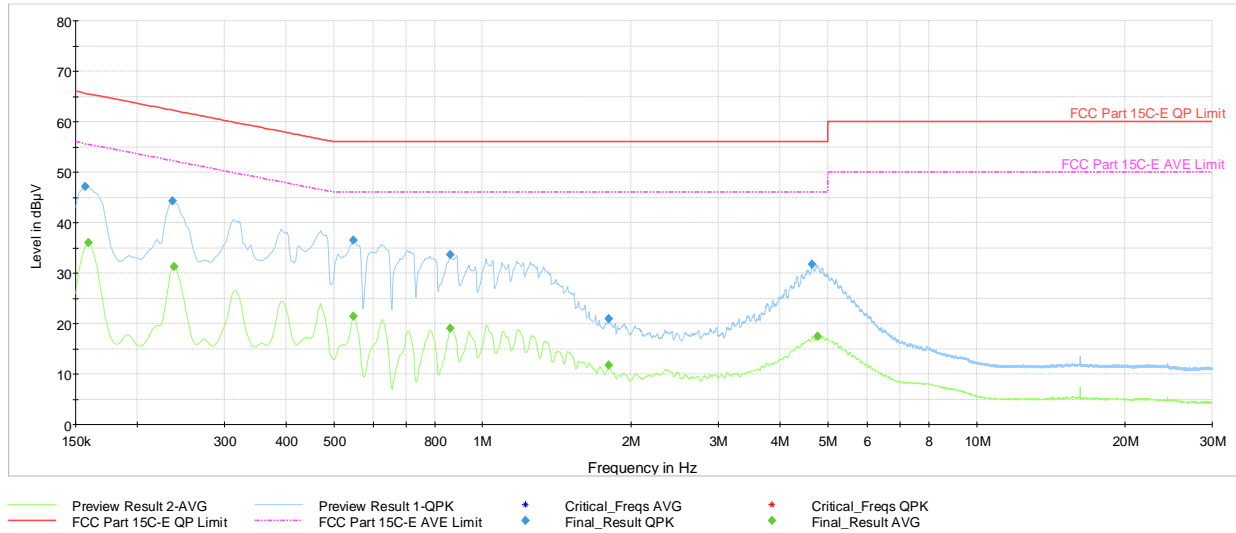
Plot 7-744. AC Line Conducted Plot with 802.11ax SDM – Ch.1 (L1), with AC/DC adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.157	FINAL	49.2	---	65.63	-16.43	L1	GND
0.159	FINAL	---	38.16	55.52	-17.36	L1	GND
0.236	FINAL	---	32.55	52.25	-19.71	L1	GND
0.236	FINAL	45.7	---	62.25	-16.60	L1	GND
0.625	FINAL	36.5	---	56.00	-19.47	L1	GND
0.627	FINAL	---	21.74	46.00	-24.26	L1	GND
1.016	FINAL	33.6	---	56.00	-22.43	L1	GND
1.016	FINAL	---	20.22	46.00	-25.78	L1	GND
2.339	FINAL	---	12.80	46.00	-33.20	L1	GND
2.342	FINAL	21.9	---	56.00	-34.09	L1	GND
4.767	FINAL	32.6	---	56.00	-23.44	L1	GND
4.875	FINAL	---	19.66	46.00	-26.34	L1	GND

Table 7-96. AC Line Conducted Data with 802.11ax SDM – Ch. 1 (L1) with AC/DC adapter

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Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.157	FINAL	47.1	---	65.63	-18.50	N	GND
0.159	FINAL	---	36.08	55.52	-19.44	N	GND
0.236	FINAL	44.3	---	62.25	-17.94	N	GND
0.238	FINAL	---	31.31	52.17	-20.86	N	GND
0.548	FINAL	---	21.48	46.00	-24.52	N	GND
0.548	FINAL	36.5	---	56.00	-19.55	N	GND
0.861	FINAL	33.6	---	56.00	-22.39	N	GND
0.861	FINAL	---	19.05	46.00	-26.95	N	GND
1.797	FINAL	21.0	---	56.00	-35.04	N	GND
1.797	FINAL	---	11.67	46.00	-34.33	N	GND
4.648	FINAL	31.7	---	56.00	-24.32	N	GND
4.765	FINAL	---	17.49	46.00	-28.51	N	GND

Table 7-97. AC Line Conducted Data with 802.11ax SDM – Ch. 1 (N), with AC/DC adapter

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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: BCGA2435** and **IC: 579C-A2435** 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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