

Plot 7-810. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU242) with AC/DC Adapter

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]
35.67	Max Peak	V	100	9	-61.16	-18.52	27.32	40.00	-12.68
48.82	Max Peak	V	100	292	-64.04	-15.50	27.46	40.00	-12.54
94.51	Max Peak	H	300	302	-62.11	-19.05	25.84	43.52	-17.68
106.48	Max Peak	V	100	194	-61.71	-18.56	26.73	43.52	-16.79
206.59	Max Peak	H	100	254	-60.94	-18.17	27.89	43.52	-15.63
276.48	Max Peak	H	100	294	-69.76	-15.76	21.48	46.02	-24.54

Table 7-126. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU242) 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 (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-127. 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.

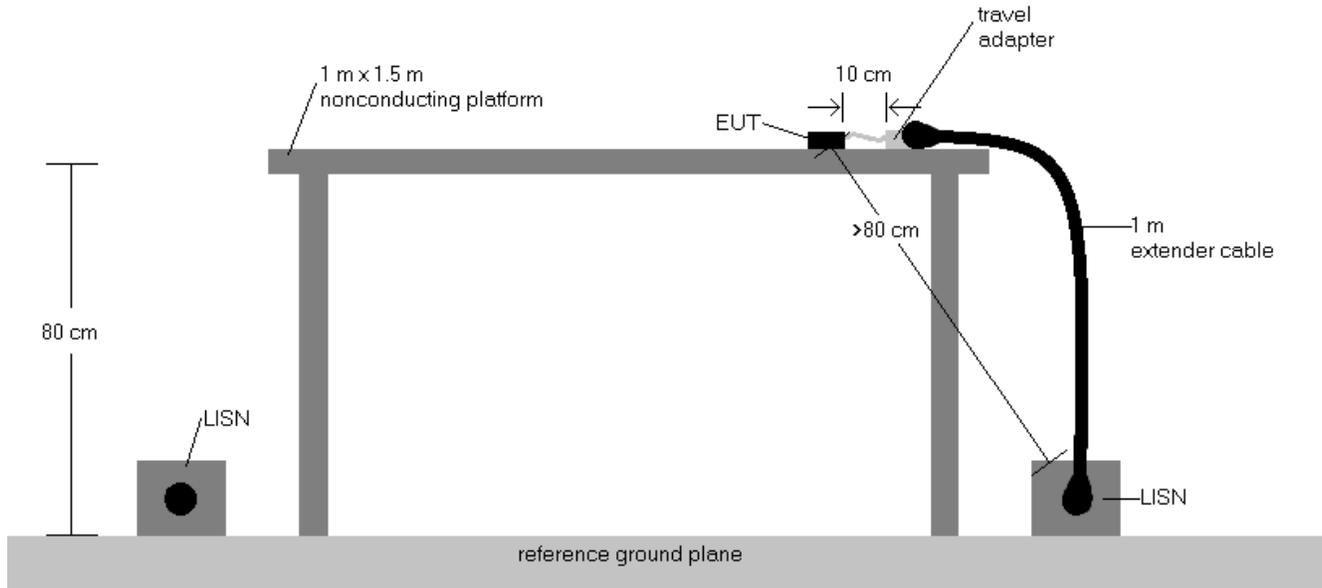
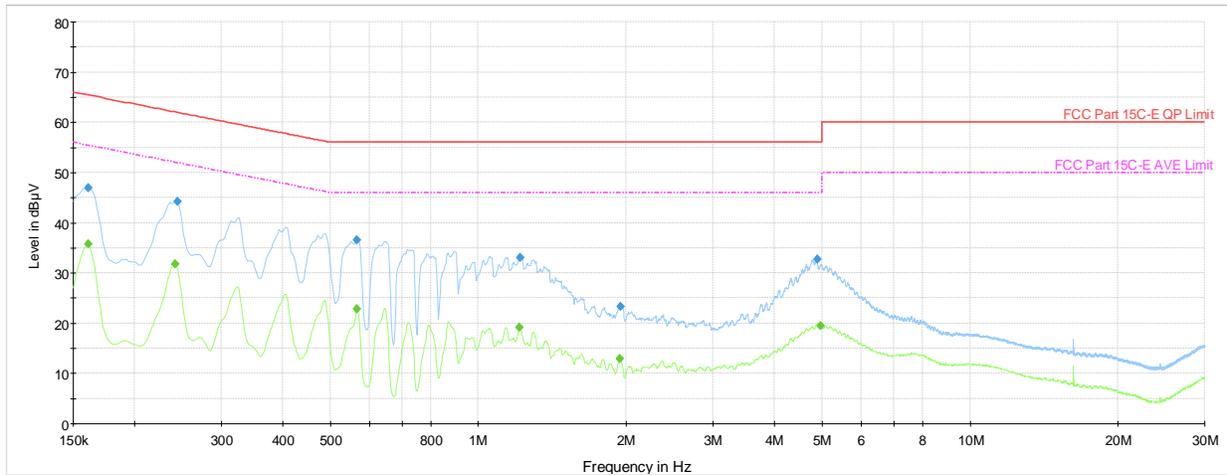


Figure 7-8. Test Instrument & Measurement Setup

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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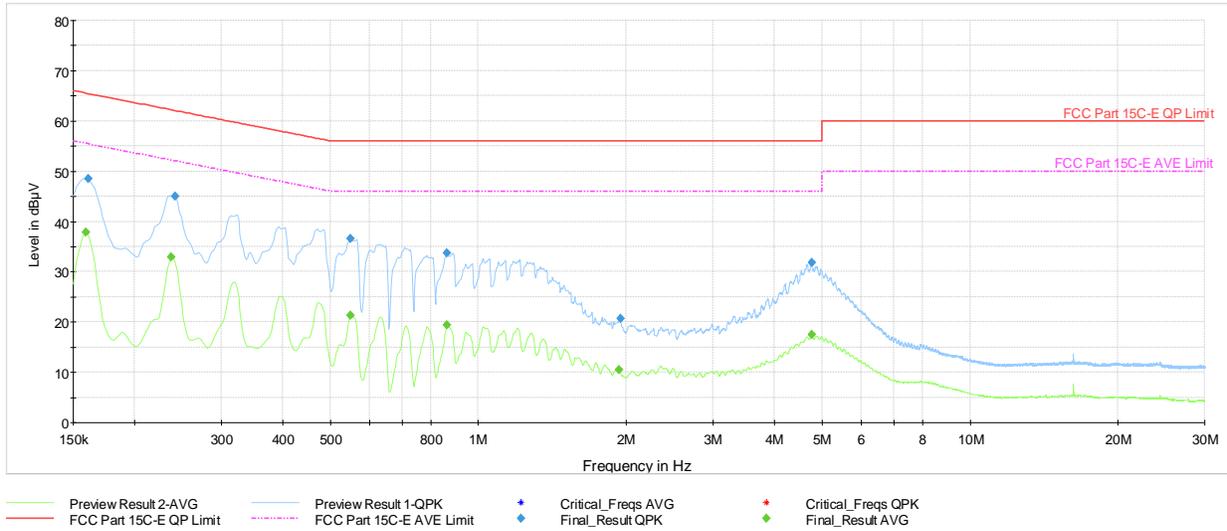


Plot 7-811. AC Line Conducted Plot with 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	---	35.73	55.40	-19.67	L1	GND
0.161	FINAL	47.0	---	65.40	-18.42	L1	GND
0.242	FINAL	---	31.79	52.02	-20.23	L1	GND
0.245	FINAL	44.3	---	61.94	-17.64	L1	GND
0.566	FINAL	36.6	---	56.00	-19.42	L1	GND
0.566	FINAL	---	22.82	46.00	-23.18	L1	GND
1.214	FINAL	---	19.11	46.00	-26.89	L1	GND
1.217	FINAL	33.1	---	56.00	-22.88	L1	GND
1.937	FINAL	---	13.01	46.00	-32.99	L1	GND
1.943	FINAL	23.4	---	56.00	-32.64	L1	GND
4.884	FINAL	32.8	---	56.00	-23.23	L1	GND
4.972	FINAL	---	19.56	46.00	-26.44	L1	GND

Table 7-128. AC Line Conducted Data with 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter

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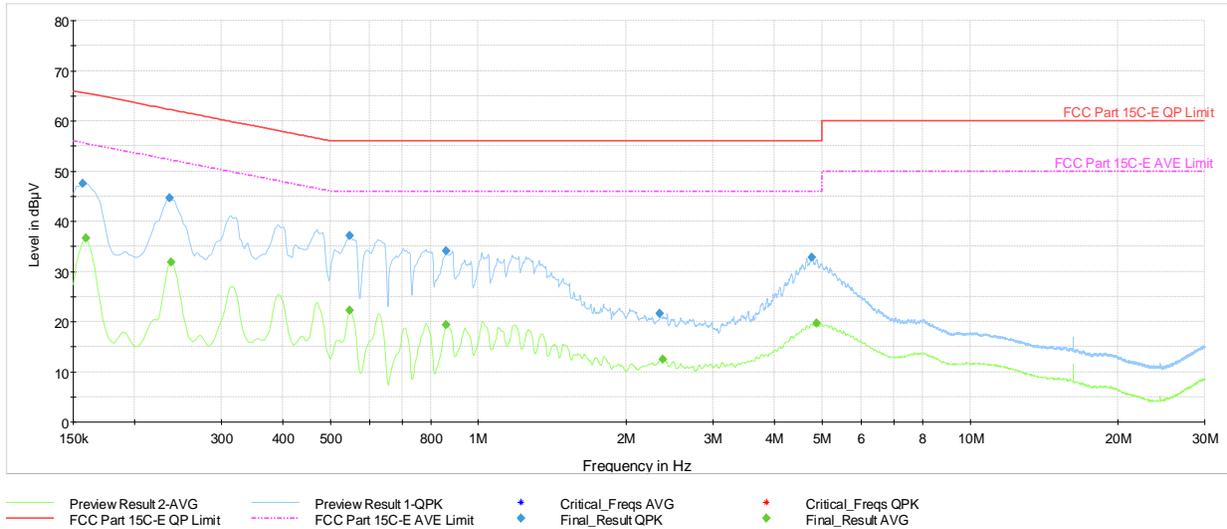


Plot 7-812. AC Line Conducted Plot with 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	---	37.87	55.52	-17.64	N	GND
0.161	FINAL	48.6	---	65.40	-16.85	N	GND
0.238	FINAL	---	32.91	52.17	-19.27	N	GND
0.242	FINAL	45.1	---	62.02	-16.95	N	GND
0.551	FINAL	36.6	---	56.00	-19.38	N	GND
0.551	FINAL	---	21.33	46.00	-24.67	N	GND
0.863	FINAL	33.7	---	56.00	-22.34	N	GND
0.863	FINAL	---	19.45	46.00	-26.55	N	GND
1.934	FINAL	---	10.44	46.00	-35.56	N	GND
1.946	FINAL	20.7	---	56.00	-35.33	N	GND
4.765	FINAL	---	17.43	46.00	-28.57	N	GND
4.767	FINAL	31.8	---	56.00	-24.20	N	GND

Table 7-129. AC Line Conducted Data with 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter

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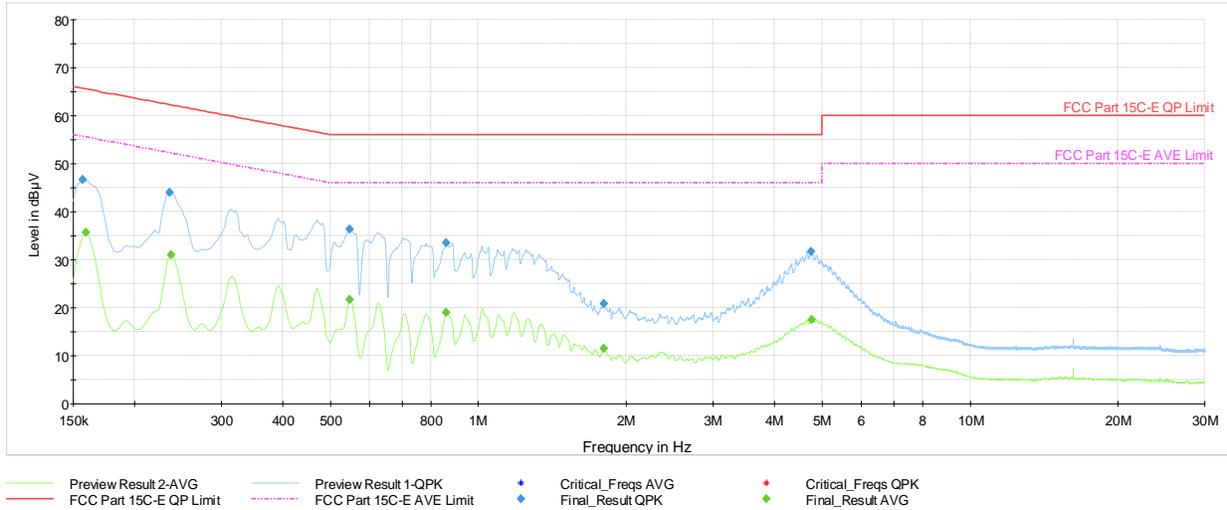


Plot 7-813. AC Line Conducted Plot with 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.157	FINAL	47.6	---	65.63	-18.06	L1	GND
0.159	FINAL	---	36.56	55.52	-18.95	L1	GND
0.236	FINAL	44.7	---	62.25	-17.58	L1	GND
0.238	FINAL	---	31.82	52.17	-20.36	L1	GND
0.548	FINAL	---	22.25	46.00	-23.75	L1	GND
0.548	FINAL	37.1	---	56.00	-18.90	L1	GND
0.861	FINAL	34.1	---	56.00	-21.89	L1	GND
0.861	FINAL	---	19.34	46.00	-26.66	L1	GND
2.342	FINAL	21.6	---	56.00	-34.36	L1	GND
2.371	FINAL	---	12.47	46.00	-33.53	L1	GND
4.765	FINAL	32.7	---	56.00	-23.28	L1	GND
4.877	FINAL	---	19.70	46.00	-26.30	L1	GND

Table 7-130. AC Line Conducted Data with 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter

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Plot 7-814. AC Line Conducted Plot with 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.157	FINAL	46.7	---	65.63	-18.95	N	GND
0.159	FINAL	---	35.66	55.52	-19.85	N	GND
0.236	FINAL	44.1	---	62.25	-18.18	N	GND
0.238	FINAL	---	31.08	52.17	-21.09	N	GND
0.548	FINAL	---	21.71	46.00	-24.29	N	GND
0.548	FINAL	36.4	---	56.00	-19.59	N	GND
0.861	FINAL	33.6	---	56.00	-22.43	N	GND
0.861	FINAL	---	19.08	46.00	-26.92	N	GND
1.797	FINAL	20.8	---	56.00	-35.17	N	GND
1.797	FINAL	---	11.57	46.00	-34.43	N	GND
4.742	FINAL	31.6	---	56.00	-24.38	N	GND
4.765	FINAL	---	17.45	46.00	-28.55	N	GND

Table 7-131. AC Line Conducted Data with 11ax UNII Band 5 – RU242 – 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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