

Test Setup

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

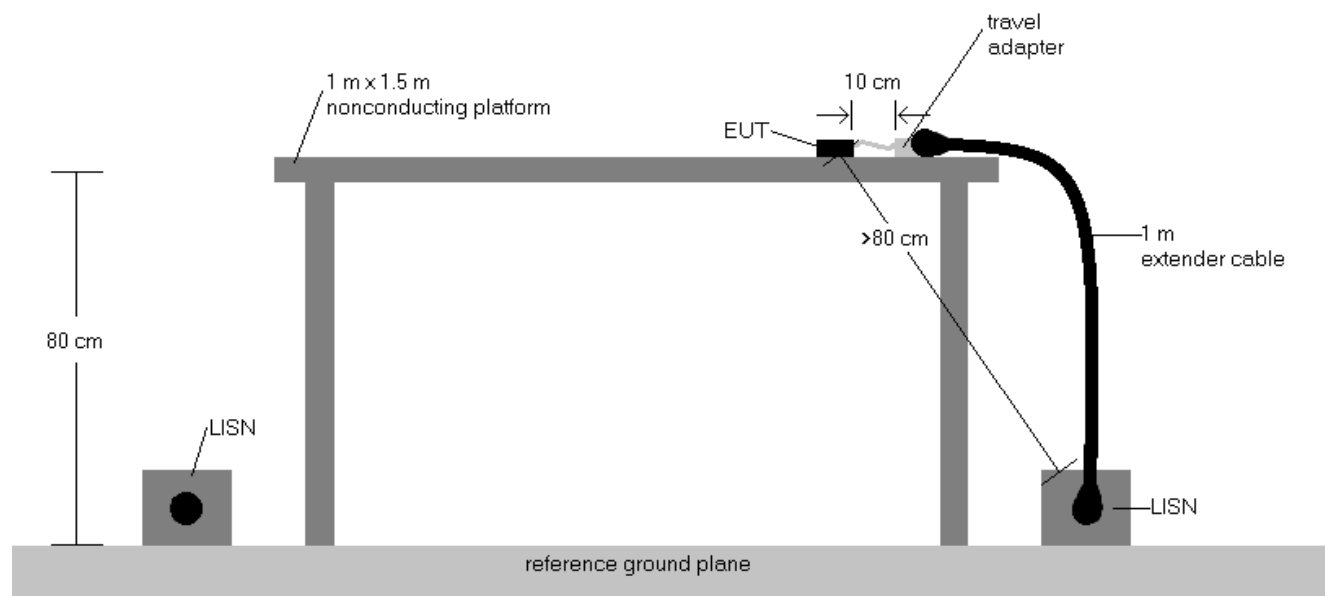


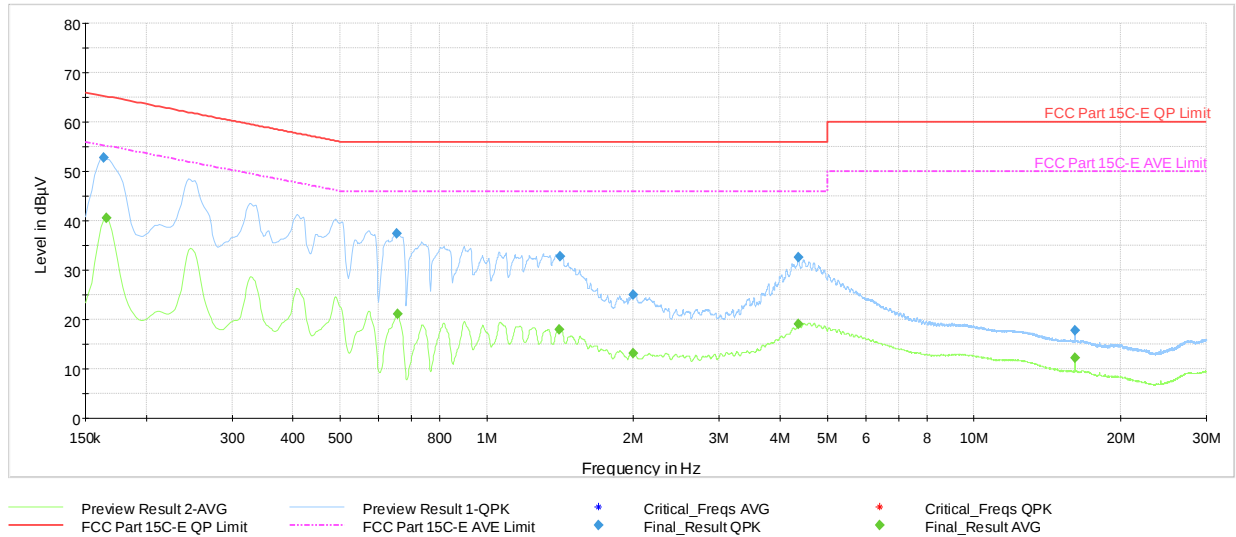
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 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.
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - 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).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plots are made using quasi-peak and average detectors.
- Deviations to the Specifications: None.
- The unit was tested with all possible modes and only the highest emission is reported.

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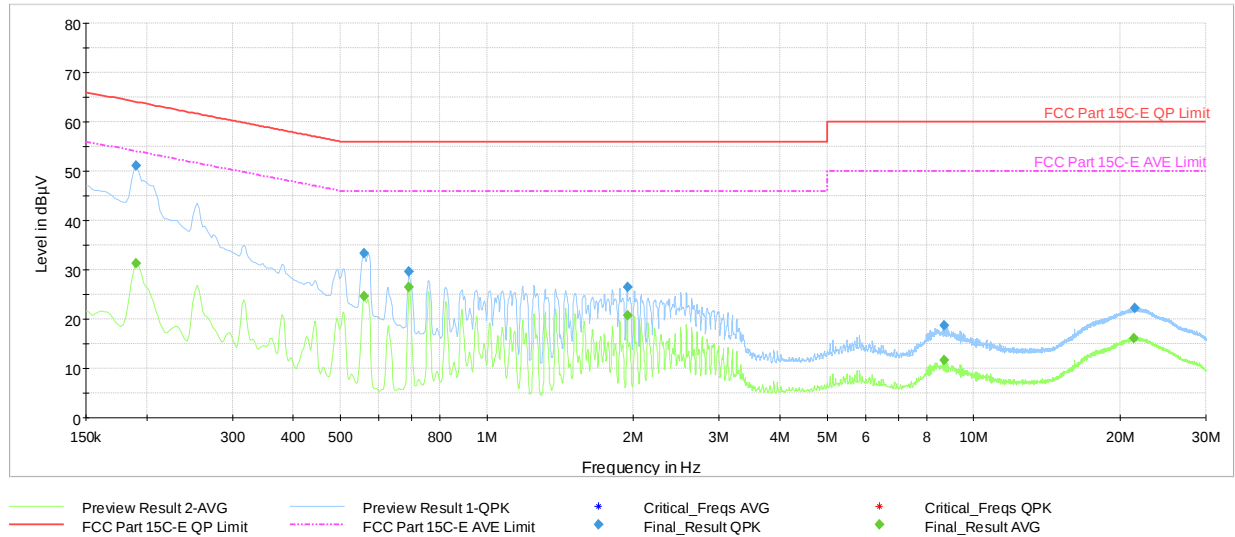
Plot 7-1597. AC Line Conducted Plot with 802.11ax SDM Primary – Ch.84 (L1), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	52.71	—	65.28	-12.57	L1	GND
0.166	FINAL	—	40.50	55.17	-14.67	L1	GND
0.654	FINAL	37.44	—	56.00	-18.56	L1	GND
0.656	FINAL	—	21.07	46.00	-24.93	L1	GND
1.410	FINAL	—	18.01	46.00	-27.99	L1	GND
1.415	FINAL	32.77	—	56.00	-23.23	L1	GND
1.997	FINAL	24.96	—	56.00	-31.04	L1	GND
1.997	FINAL	—	13.23	46.00	-32.77	L1	GND
4.358	FINAL	32.57	—	56.00	-23.43	L1	GND
4.362	FINAL	—	19.01	46.00	-26.99	L1	GND
16.100	FINAL	—	12.13	50.00	-37.87	L1	GND
16.100	FINAL	17.73	—	60.00	-42.27	L1	GND

Table 7-229. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 84 (L1), with AC/DC Adapter

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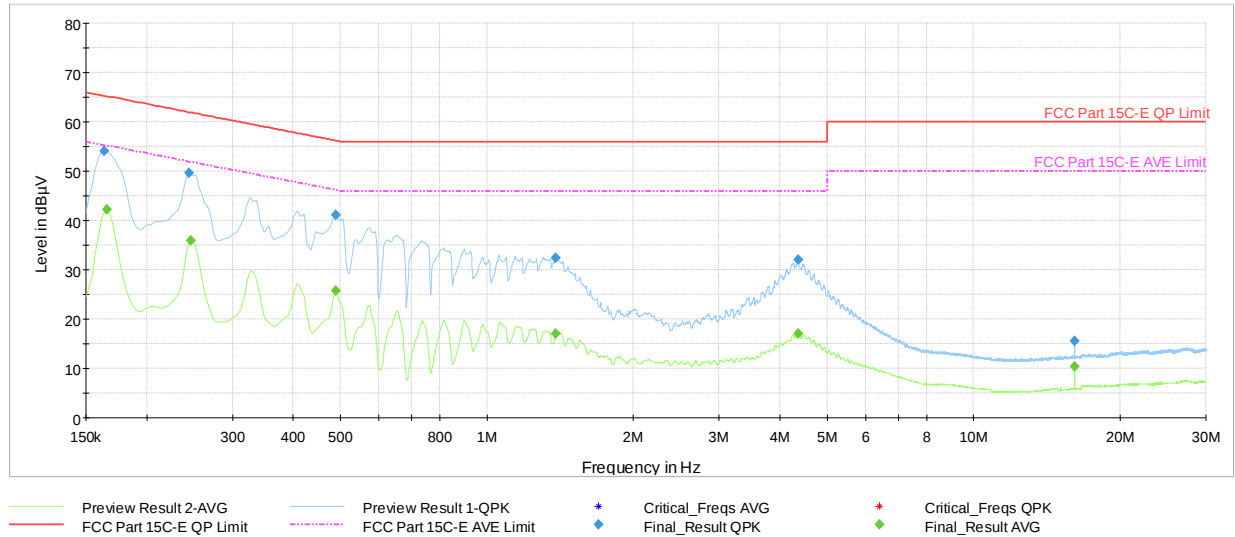
Plot 7-1598. AC Line Conducted Plot with 802.11ax SDM Primary – Ch.84 (N), with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.191	FINAL	—	31.28	54.02	-22.74	N	GND
0.191	FINAL	51.11	—	64.02	-12.90	N	GND
0.560	FINAL	—	24.54	46.00	-21.46	N	GND
0.560	FINAL	33.31	—	56.00	-22.69	N	GND
0.692	FINAL	—	26.40	46.00	-19.60	N	GND
0.692	FINAL	29.64	—	56.00	-26.36	N	GND
1.943	FINAL	26.45	—	56.00	-29.55	N	GND
1.943	FINAL	—	20.69	46.00	-25.31	N	GND
8.687	FINAL	18.64	—	60.00	-41.36	N	GND
8.687	FINAL	—	11.65	50.00	-38.35	N	GND
21.343	FINAL	—	16.02	50.00	-33.98	N	GND
21.473	FINAL	22.14	—	60.00	-37.86	N	GND

Table 7-230. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 84 (N), with Laptop

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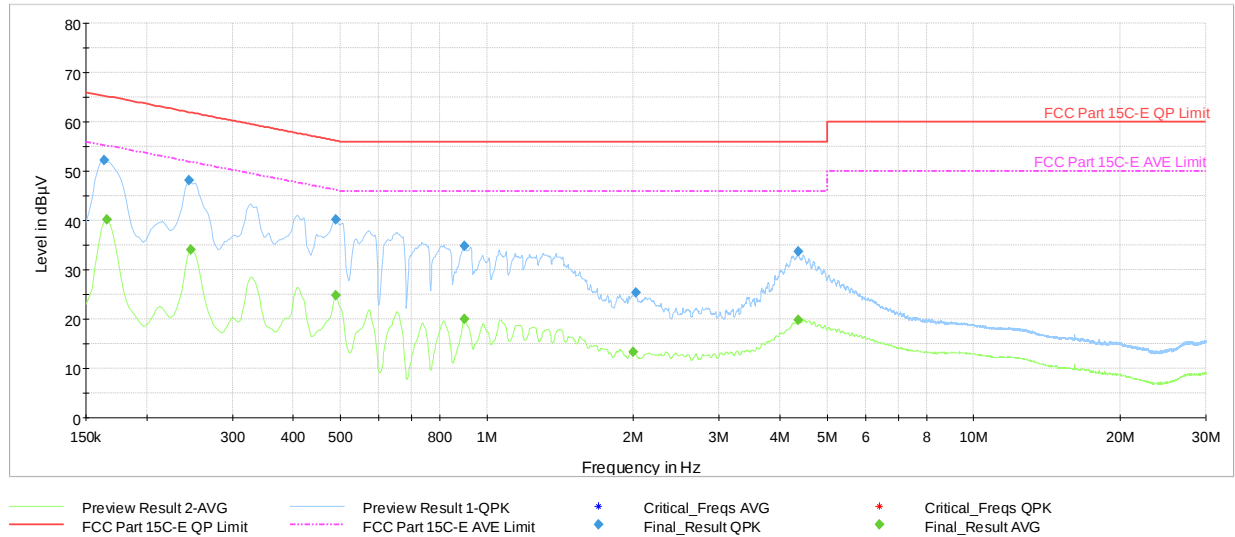
Plot 7-1599. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch.84 (L1), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	54.06	—	65.28	-11.23	L1	GND
0.166	FINAL	—	42.14	55.17	-13.03	L1	GND
0.245	FINAL	49.71	—	61.94	-12.24	L1	GND
0.247	FINAL	—	35.88	51.87	-15.98	L1	GND
0.490	FINAL	—	25.79	46.17	-20.38	L1	GND
0.490	FINAL	41.13	—	56.17	-15.05	L1	GND
1.385	FINAL	32.42	—	56.00	-23.58	L1	GND
1.385	FINAL	—	16.99	46.00	-29.01	L1	GND
4.360	FINAL	32.01	—	56.00	-23.99	L1	GND
4.362	FINAL	—	17.05	46.00	-28.95	L1	GND
16.112	FINAL	—	10.34	50.00	-39.66	L1	GND
16.112	FINAL	15.48	—	60.00	-44.52	L1	GND

Table 7-231. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 84 (L1), with AC/DC Adapter

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Plot 7-1600. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch.84 (N), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	52.15	—	65.28	-13.13	N	GND
0.166	FINAL	—	40.14	55.17	-15.03	N	GND
0.245	FINAL	48.06	—	61.94	-13.88	N	GND
0.247	FINAL	—	34.13	51.87	-17.74	N	GND
0.490	FINAL	40.22	—	56.17	-15.95	N	GND
0.490	FINAL	—	24.76	46.17	-21.41	N	GND
0.897	FINAL	34.87	—	56.00	-21.13	N	GND
0.897	FINAL	—	19.93	46.00	-26.07	N	GND
1.993	FINAL	—	13.31	46.00	-32.69	N	GND
2.024	FINAL	25.34	—	56.00	-30.66	N	GND
4.353	FINAL	—	19.75	46.00	-26.25	N	GND
4.358	FINAL	33.67	—	56.00	-22.33	N	GND

Table 7-232. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 84 (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: BCGA2899** and **IC: 579C-A2899** 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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