

Plot 7-2073. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11n, Ch.36 with AC/DC Adapter

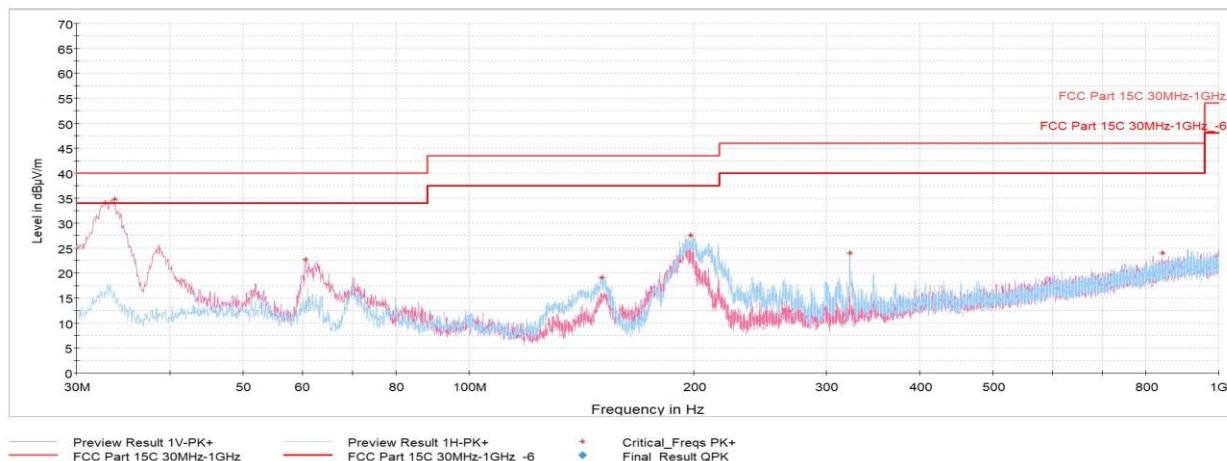
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
32.86	Quasi-Peak	V	100	252	-58.07	-15.95	32.98	40.00	-7.02
63.61	Max-Peak	V	100	0	-66.39	-16.44	24.17	40.00	-15.83
144.02	Max-Peak	H	200	233	-63.83	-20.59	22.58	43.52	-20.94
192.33	Max-Peak	H	100	201	-59.14	-17.22	30.64	43.52	-12.88
324.30	Max-Peak	H	100	132	-69.54	-13.65	23.81	46.02	-22.21
819.87	Max-Peak	H	100	80	-79.12	-4.12	23.76	46.02	-22.26

Table 7-373. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11n, Ch.36 with AC/DC Adapter

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270064-24.BCG	Test Dates: 11/28/2023 - 01/15/2024	EUT Type: Tablet Device			

V 10.6 9/14/2023

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Plot 7-2074. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11ax (SU), Ch.36 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]
33.73	Quasi-Peak	V	100	0	-58.30	-15.79	32.91	40.00	-7.09
60.65	Max-Peak	V	100	116	-68.94	-15.36	22.70	40.00	-17.30
150.67	Max-Peak	H	200	213	-67.66	-20.19	19.15	43.52	-24.37
197.81	Max-Peak	H	100	211	-62.93	-16.57	27.50	43.52	-16.02
322.31	Max-Peak	H	100	34	-69.14	-13.83	24.03	46.02	-21.99
841.26	Max-Peak	H	100	319	-79.63	-3.36	24.01	46.02	-22.01

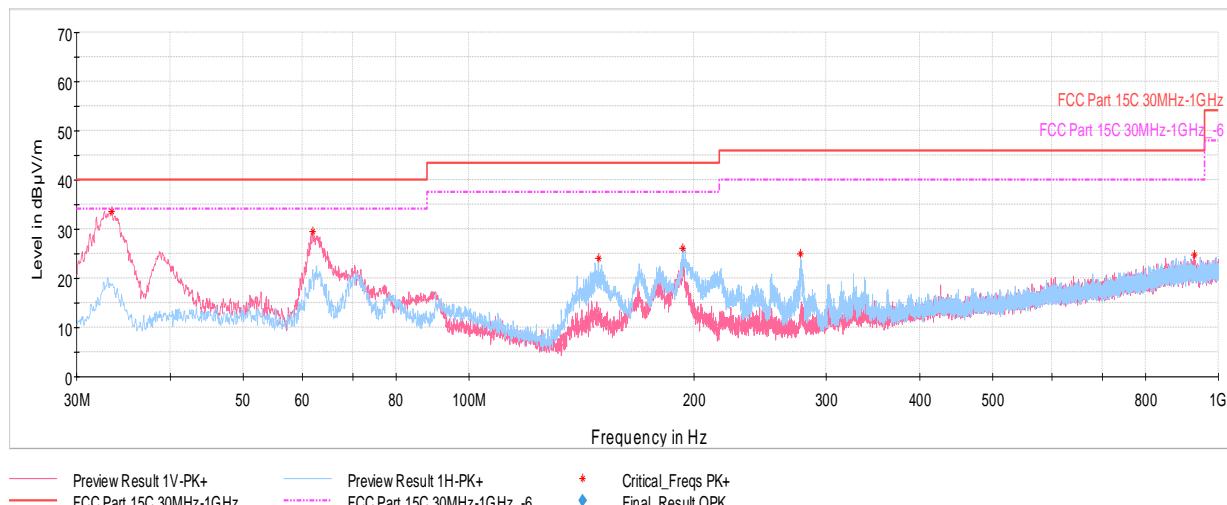
Table 7-374. Radiated Spurious Emissions below 1GHz, 802.11ax (SU) CDD/SDM Diversity, Ch.36 with AC/DC Adapter

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270064-24.BCG	Test Dates: 11/28/2023 - 01/15/2024	EUT Type: Tablet Device	Page 585 of 597

Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

Description	FR1 n41	802.11a/n/ac/ax 5GHz	Bluetooth
Antenna	Antenna 3a	Antenna 3a	Antenna 3a
Channel	41490	36	78
Operating Frequency (MHz)	2506	5180	2480
Mode/Modulation	QPSK/1RB/20MHz	802.11n/MCS0	GFSK ePa



Plot 7-2075. Radiated Spurious Emissions - Simultaneous Transmission (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]
33.40	Max Peak	V	100	172	-57.39	-15.86	33.75	40.00	-6.25
61.96	Max Peak	V	100	38	-61.72	-15.74	29.54	40.00	-10.46
148.92	Max Peak	H	200	216	-62.76	-20.23	24.01	43.52	-19.51
193.11	Max Peak	H	200	354	-63.70	-17.14	26.16	43.52	-17.36
277.25	Max Peak	H	100	297	-66.95	-15.00	25.05	46.02	-20.97
929.58	Max Peak	V	300	127	-80.05	-2.26	24.69	46.02	-21.33

Table 7-375. Radiated Spurious Emissions - Simultaneous Transmission (with AC/DC Adapter)

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8 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 7-376. 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.

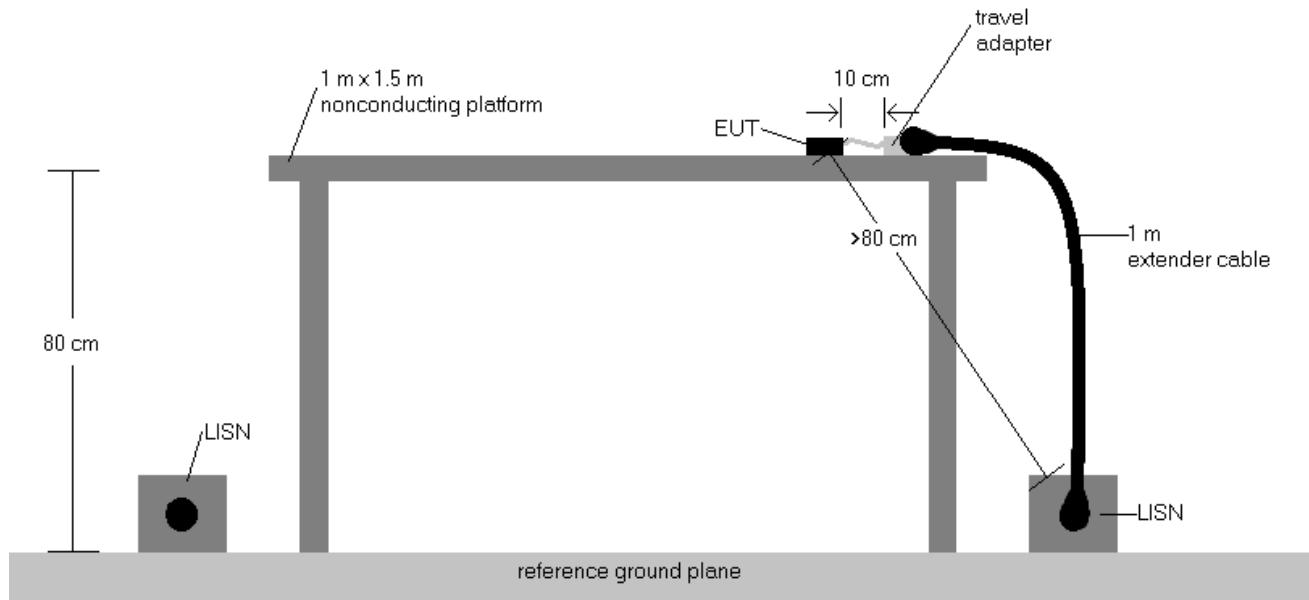
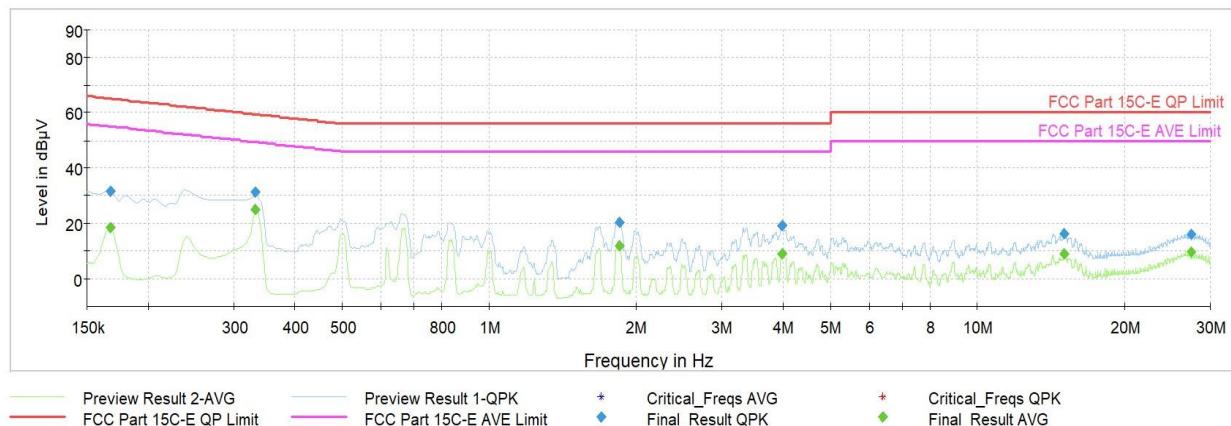


Figure 7-8. Test Instrument & Measurement Setup

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. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ 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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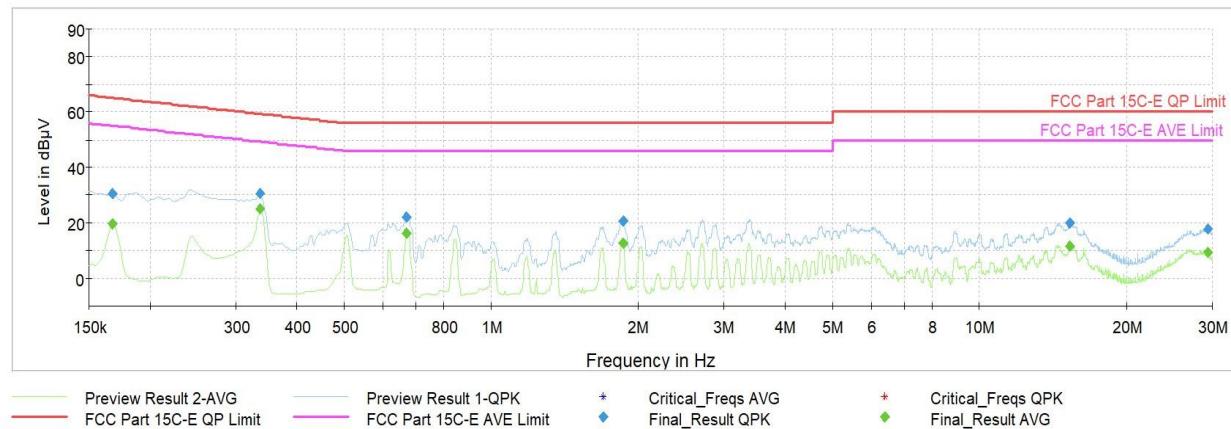


Plot 7-2076. AC Line Conducted Plot with 802.11n CDD Primary – Ch.40 (L1), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.168	FINAL	—	18.48	55.06	-36.58	L1	GND
0.168	FINAL	31.6	—	65.06	-33.42	L1	GND
0.332	FINAL	—	25.09	49.40	-24.31	L1	GND
0.332	FINAL	31.1	—	59.40	-28.32	L1	GND
1.849	FINAL	—	11.78	46.00	-34.22	L1	GND
1.849	FINAL	20.4	—	56.00	-35.64	L1	GND
3.977	FINAL	—	8.96	46.00	-37.04	L1	GND
3.980	FINAL	19.1	—	56.00	-36.92	L1	GND
15.063	FINAL	16.4	—	60.00	-43.57	L1	GND
15.068	FINAL	—	9.03	50.00	-40.97	L1	GND
27.384	FINAL	—	9.71	50.00	-40.29	L1	GND
27.384	FINAL	15.9	—	60.00	-44.08	L1	GND

Table 7-377. AC Line Conducted Data with 802.11n CDD Primary – Ch.40 (L1) with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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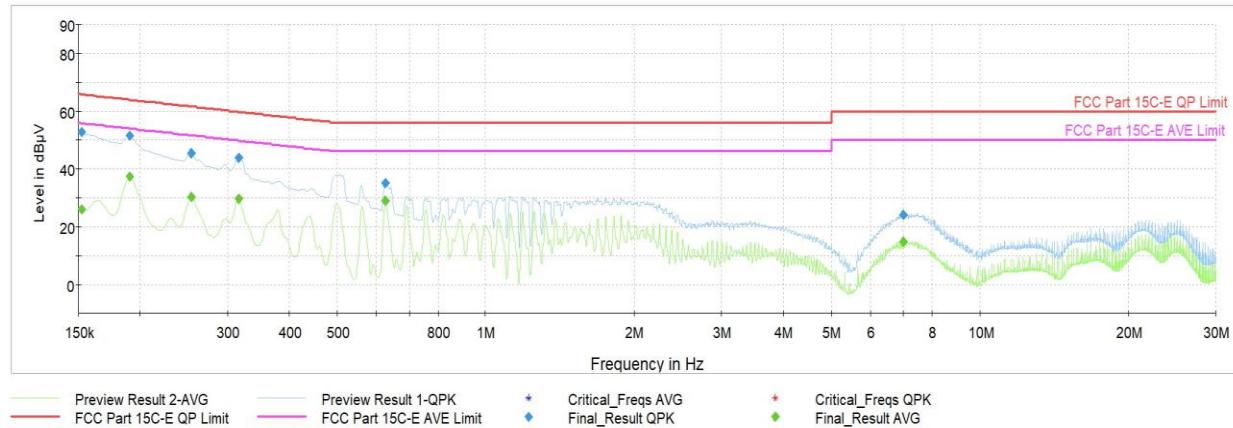


Plot 7-2077. AC Line Conducted Plot with 802.11n CDD Primary – Ch.40 (N), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.168	FINAL	—	19.40	55.06	-35.66	N	GND
0.168	FINAL	30.5	—	65.06	-34.59	N	GND
0.337	FINAL	—	24.95	49.28	-24.33	N	GND
0.337	FINAL	30.6	—	59.28	-28.70	N	GND
0.670	FINAL	22.0	—	56.00	-34.03	N	GND
0.670	FINAL	—	16.13	46.00	-29.87	N	GND
1.862	FINAL	20.7	—	56.00	-35.33	N	GND
1.862	FINAL	—	12.76	46.00	-33.24	N	GND
15.281	FINAL	—	11.38	50.00	-38.62	N	GND
15.286	FINAL	19.9	—	60.00	-40.14	N	GND
29.308	FINAL	17.8	—	60.00	-42.23	N	GND
29.310	FINAL	—	9.20	50.00	-40.80	N	GND

Table 7-378. AC Line Conducted Data with 802.11n CDD Primary – Ch.40 (N), with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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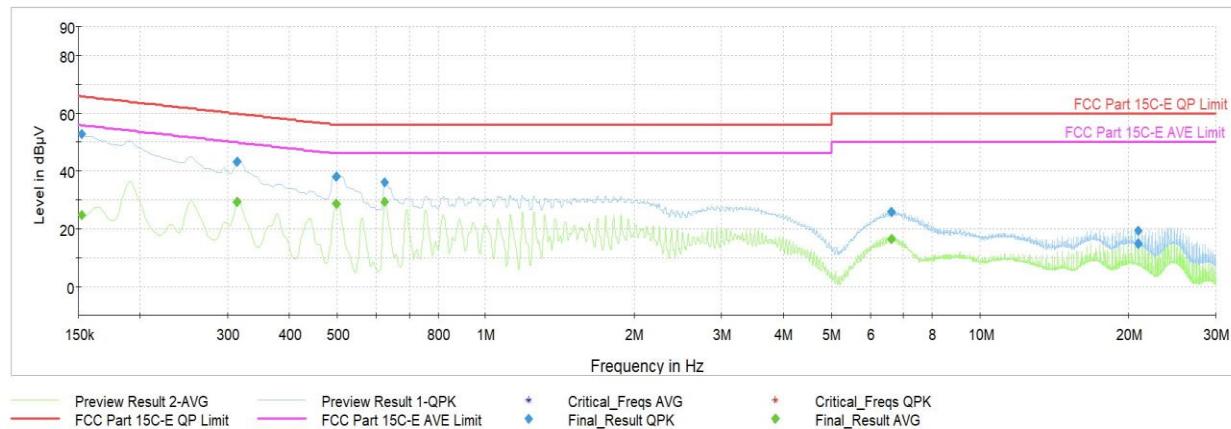


Plot 7-2078. AC Line Conducted Plot with 802.11ax(SU) CDD Primary – Ch.40 (L1), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	26.04	55.88	-29.83	L1	GND
0.152	FINAL	52.8	—	65.88	-13.03	L1	GND
0.191	FINAL	—	37.47	54.02	-16.55	L1	GND
0.191	FINAL	51.6	—	64.02	-12.45	L1	GND
0.254	FINAL	—	30.47	51.64	-21.17	L1	GND
0.254	FINAL	45.6	—	61.64	-16.07	L1	GND
0.317	FINAL	43.9	—	59.80	-15.94	L1	GND
0.317	FINAL	—	29.63	49.80	-20.17	L1	GND
0.627	FINAL	35.2	—	56.00	-20.81	L1	GND
0.627	FINAL	—	29.03	46.00	-16.97	L1	GND
7.001	FINAL	24.2	—	60.00	-35.82	L1	GND
7.013	FINAL	—	14.71	50.00	-35.29	L1	GND

Table 7-379. AC Line Conducted Data with 802.11ax(SU) CDD Primary – Ch.40 (L1) with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2311270064-24.BCG	Test Dates: 11/28/2023 - 01/15/2024	EUT Type: Tablet Device			

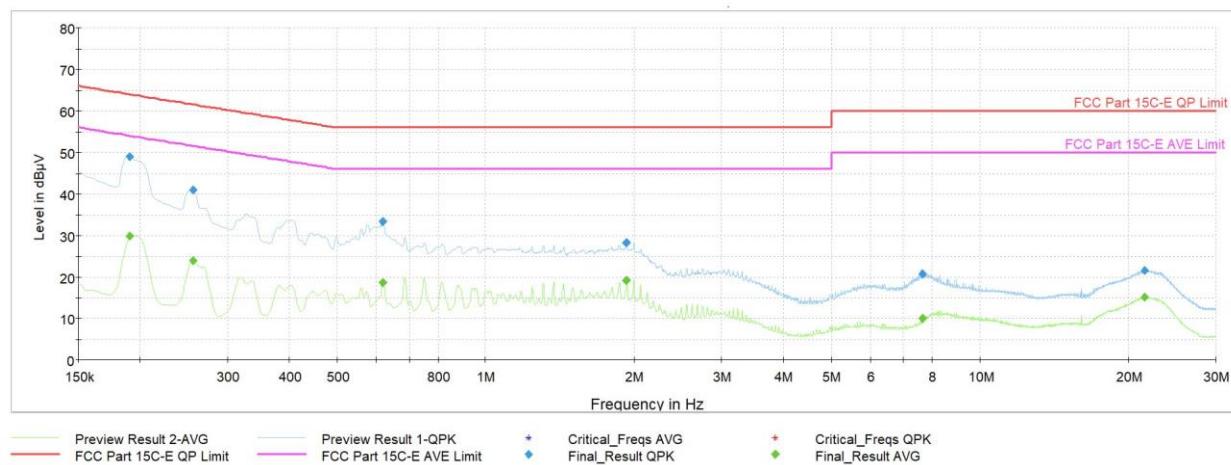


Plot 7-2079. AC Line Conducted Plot with 802.11ax(SU) CDD Primary – Ch.40 (N), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	24.94	55.88	-30.93	N	GND
0.152	FINAL	52.9	—	65.88	-12.95	N	GND
0.314	FINAL	—	29.37	49.86	-20.49	N	GND
0.314	FINAL	43.3	—	59.86	-16.55	N	GND
0.499	FINAL	—	28.66	46.02	-17.37	N	GND
0.499	FINAL	38.1	—	56.02	-17.90	N	GND
0.625	FINAL	36.2	—	56.00	-19.81	N	GND
0.625	FINAL	—	29.35	46.00	-16.65	N	GND
6.626	FINAL	—	16.60	50.00	-33.40	N	GND
6.628	FINAL	25.8	—	60.00	-34.18	N	GND
20.879	FINAL	15.0	—	60.00	-45.05	N	GND
20.891	FINAL	19.4	—	60.00	-40.56	N	GND

Table 7-380. AC Line Conducted Data with 802.11ax(SU) CDD Primary – Ch.40 (N), with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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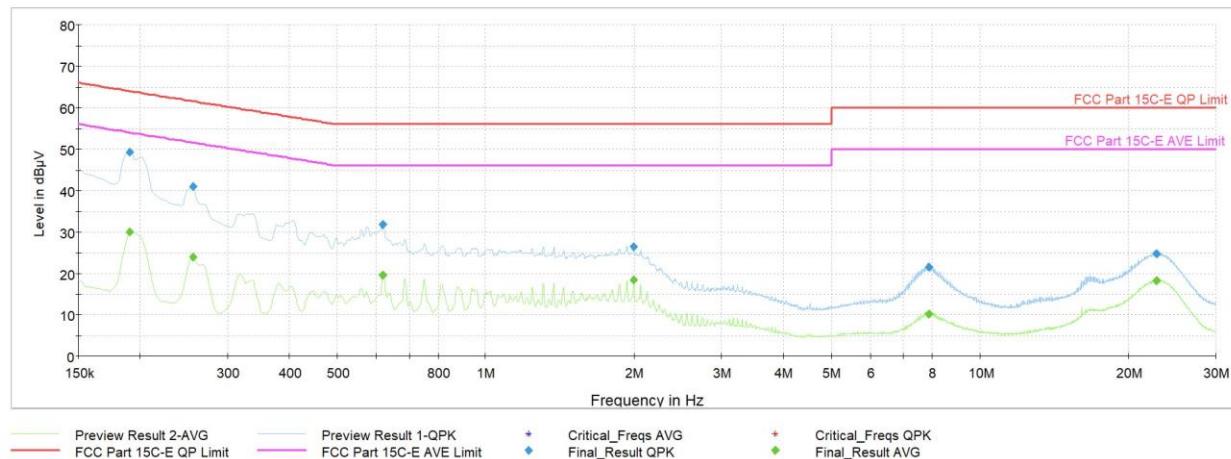


Plot 7-2080. AC Line Conducted Plot with 802.11n CDD Diversity – Ch.40 (L1), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.191	FINAL	—	29.75	54.02	-24.26	L1	GND
0.191	FINAL	49.0	—	64.02	-15.01	L1	GND
0.256	FINAL	—	23.98	51.57	-27.59	L1	GND
0.256	FINAL	41.0	—	61.57	-20.62	L1	GND
0.620	FINAL	—	18.67	46.00	-27.33	L1	GND
0.620	FINAL	33.4	—	56.00	-22.61	L1	GND
1.928	FINAL	28.2	—	56.00	-27.85	L1	GND
1.928	FINAL	—	19.30	46.00	-26.70	L1	GND
7.649	FINAL	20.8	—	60.00	-39.22	L1	GND
7.649	FINAL	—	9.92	50.00	-40.08	L1	GND
21.507	FINAL	—	15.16	50.00	-34.84	L1	GND
21.507	FINAL	21.6	—	60.00	-38.43	L1	GND

Table 7-381. AC Line Conducted Data with 802.11n CDD Diversity – Ch.40 (L1) with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270064-24.BCG	Test Dates: 11/28/2023 - 01/15/2024	EUT Type: Tablet Device	Page 593 of 597

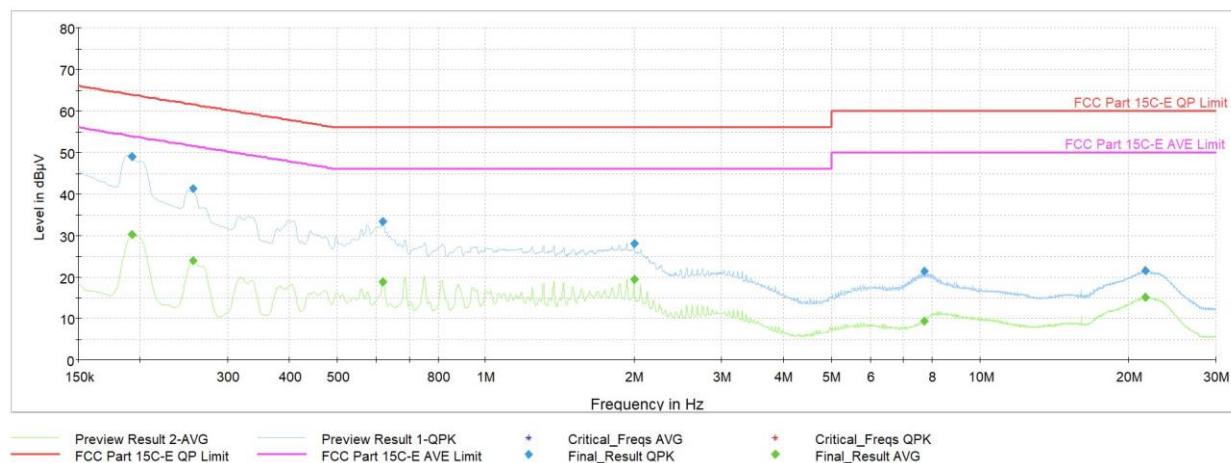


Plot 7-2081. AC Line Conducted Plot with 802.11n CDD Diversity – Ch.40 (N), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.191	FINAL	—	29.96	54.02	-24.06	N	GND
0.191	FINAL	49.2	—	64.02	-14.86	N	GND
0.256	FINAL	—	23.84	51.57	-27.73	N	GND
0.256	FINAL	41.0	—	61.57	-20.55	N	GND
0.620	FINAL	—	19.64	46.00	-26.36	N	GND
0.620	FINAL	31.8	—	56.00	-24.19	N	GND
1.993	FINAL	26.4	—	56.00	-29.61	N	GND
1.993	FINAL	—	18.43	46.00	-27.57	N	GND
7.886	FINAL	21.6	—	60.00	-38.37	N	GND
7.886	FINAL	—	10.14	50.00	-39.86	N	GND
22.747	FINAL	—	18.27	50.00	-31.73	N	GND
22.747	FINAL	24.7	—	60.00	-35.32	N	GND

Table 7-382. AC Line Conducted Data with 802.11n CDD Diversity – Ch.40 (N), with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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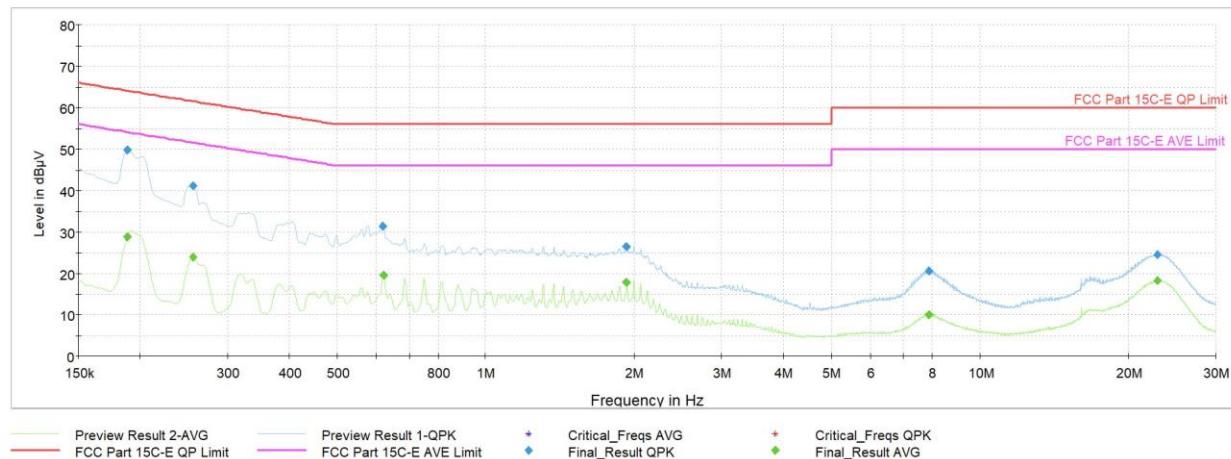


Plot 7-2082. AC Line Conducted Plot with 802.11ax(SU) CDD Diversity – Ch.40 (L1), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.193	FINAL	—	30.25	53.92	-23.67	L1	GND
0.193	FINAL	49.1	—	63.92	-14.81	L1	GND
0.256	FINAL	—	24.00	51.57	-27.57	L1	GND
0.256	FINAL	41.3	—	61.57	-20.29	L1	GND
0.620	FINAL	—	18.80	46.00	-27.20	L1	GND
0.620	FINAL	33.4	—	56.00	-22.64	L1	GND
1.995	FINAL	28.1	—	56.00	-27.89	L1	GND
1.995	FINAL	—	19.44	46.00	-26.56	L1	GND
7.701	FINAL	21.3	—	60.00	-38.69	L1	GND
7.701	FINAL	—	9.46	50.00	-40.54	L1	GND
21.572	FINAL	—	15.07	50.00	-34.93	L1	GND
21.572	FINAL	21.6	—	60.00	-38.43	L1	GND

Table 7-383. AC Line Conducted Data with 802.11ax(SU) CDD Diversity – Ch.40 (L1) with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-2083. AC Line Conducted Plot with 802.11ax(SU) CDD Diversity – Ch.40 (N), with Laptop Charger

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.188	FINAL	—	28.75	54.11	-25.36	N	GND
0.188	FINAL	49.7	—	64.11	-14.40	N	GND
0.256	FINAL	—	23.92	51.57	-27.65	N	GND
0.256	FINAL	41.2	—	61.57	-20.40	N	GND
0.620	FINAL	31.5	—	56.00	-24.55	N	GND
0.623	FINAL	—	19.59	46.00	-26.41	N	GND
1.928	FINAL	26.5	—	56.00	-29.54	N	GND
1.928	FINAL	—	17.84	46.00	-28.16	N	GND
7.899	FINAL	20.5	—	60.00	-39.50	N	GND
7.899	FINAL	—	10.02	50.00	-39.98	N	GND
22.886	FINAL	—	18.19	50.00	-31.81	N	GND
22.886	FINAL	24.6	—	60.00	-35.44	N	GND

Table 7-384. AC Line Conducted Data with 802.11ax(SU) CDD Diversity – Ch.40 (N), with Laptop Charger

FCC ID: BCGA2903 IC: 579C-A2903	 element	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: BCGA2903 and IC: 579C-A2903 is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2903 IC: 579C-A2903	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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