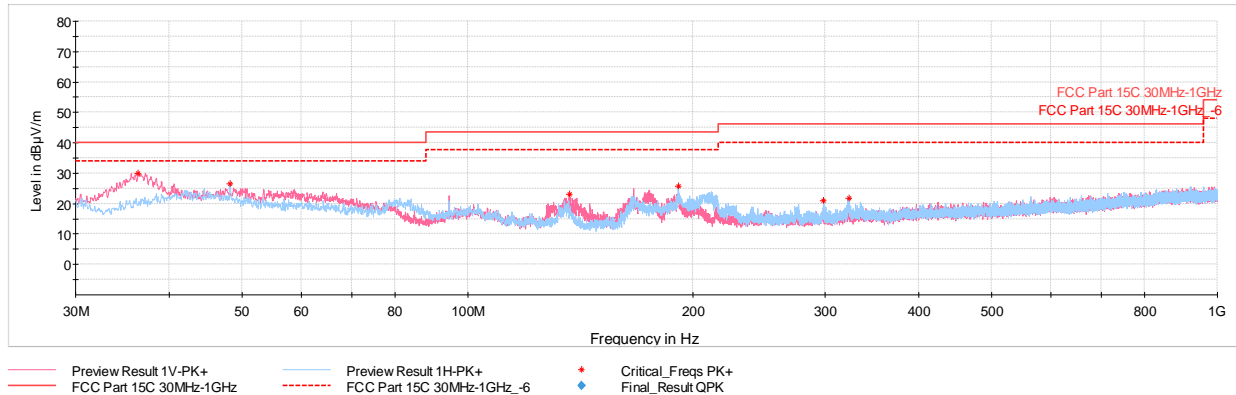


7.8.1 SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



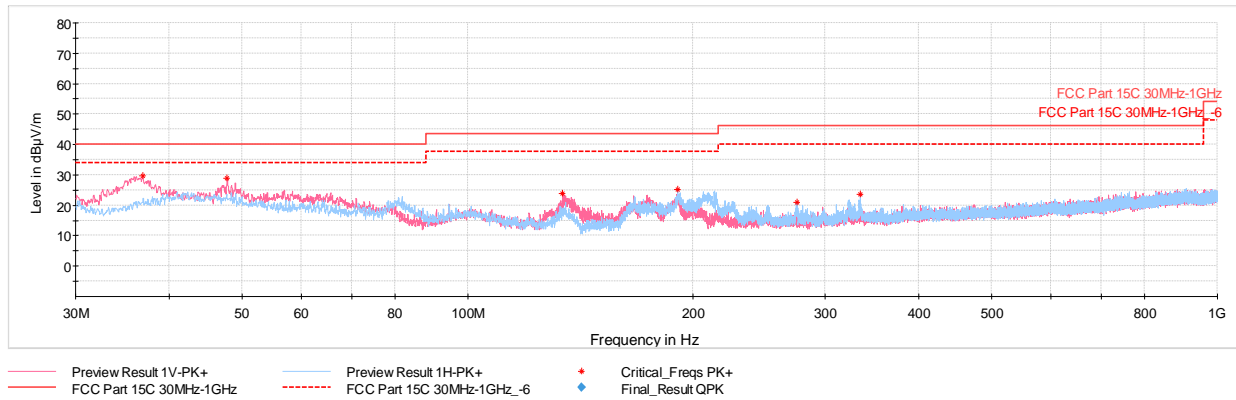
Plot 7-809. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU26) with AC/DC Adapter

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]
36.35	Max-Peak	V	100	15	-58.73	-18.37	29.90	40.00	-10.10
48.19	Max-Peak	H	300	55	-65.08	-15.45	26.47	40.00	-13.53
136.65	Max-Peak	V	100	345	-62.43	-21.59	22.98	43.52	-20.54
191.07	Max-Peak	H	100	182	-63.07	-18.27	25.66	43.52	-17.86
298.40	Max-Peak	H	100	145	-70.44	-15.46	21.10	46.02	-24.92
322.79	Max-Peak	H	100	122	-70.68	-14.49	21.83	46.02	-24.19

Table 7-125. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU26) with AC/DC Adapter

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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]
36.84	Max-Peak	V	100	358	-58.91	-18.25	29.84	40.00	-10.16
47.80	Max-Peak	V	100	22	-62.59	-15.44	28.97	40.00	-11.03
133.94	Max-Peak	V	100	223	-62.22	-20.89	23.89	43.52	-19.63
190.73	Max-Peak	H	100	174	-63.43	-18.33	25.24	43.52	-18.28
274.83	Max-Peak	H	100	273	-70.04	-15.99	20.97	46.02	-25.05
333.90	Max-Peak	H	100	305	-69.42	-14.09	23.49	46.02	-22.53

Table 7-126. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU242) with AC/DC Adapter

FCC ID: BCGA2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 7-127. 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.

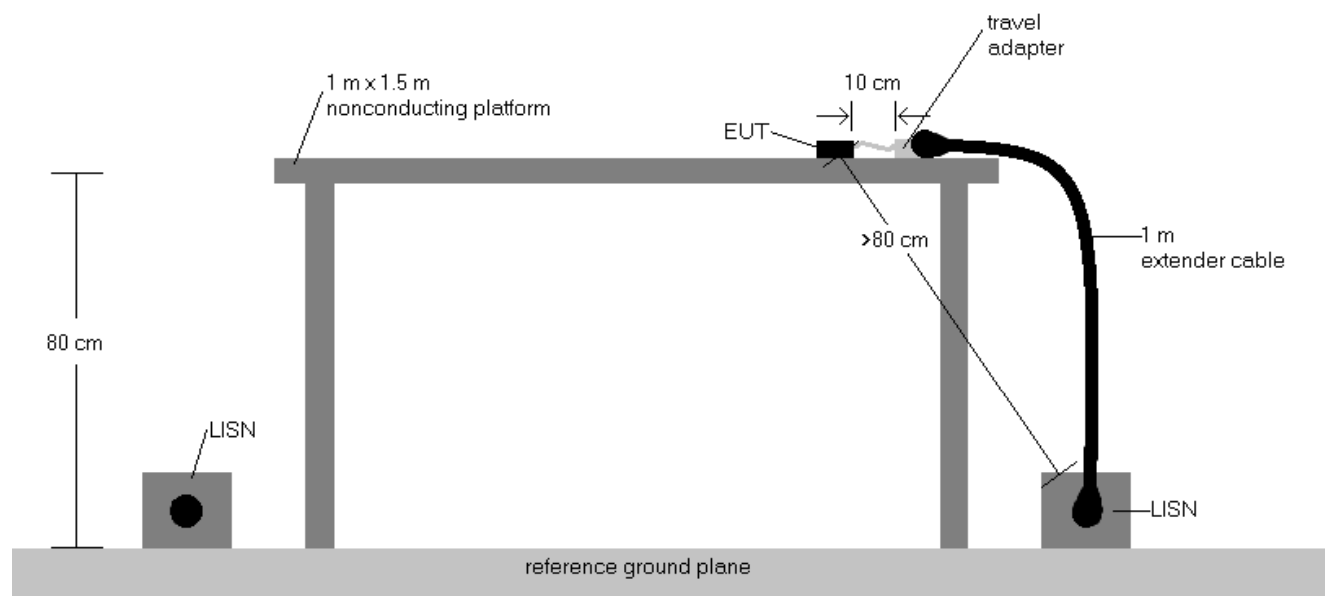



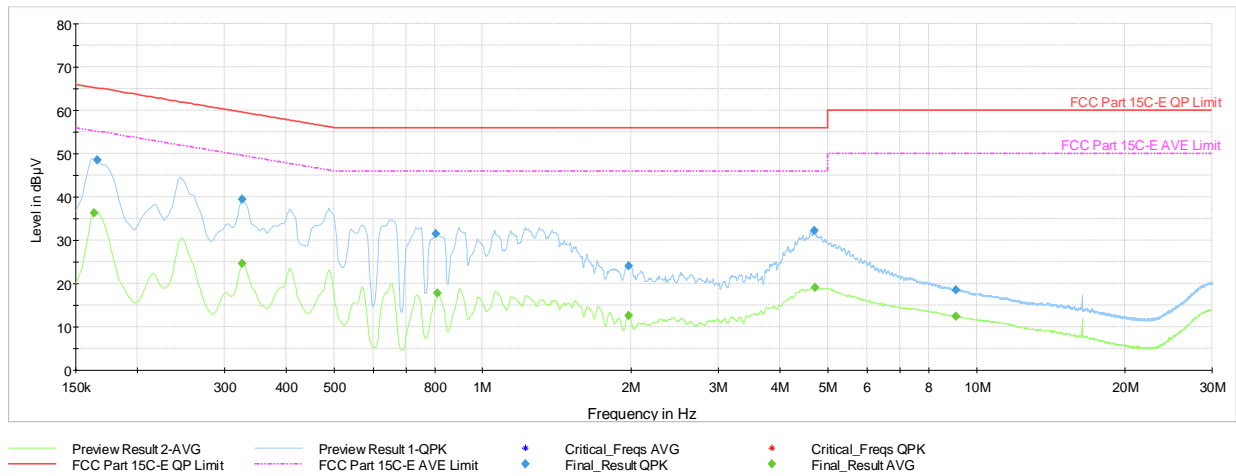
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 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).
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
- Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ 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 7-811. AC Line Conducted Plot with 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter

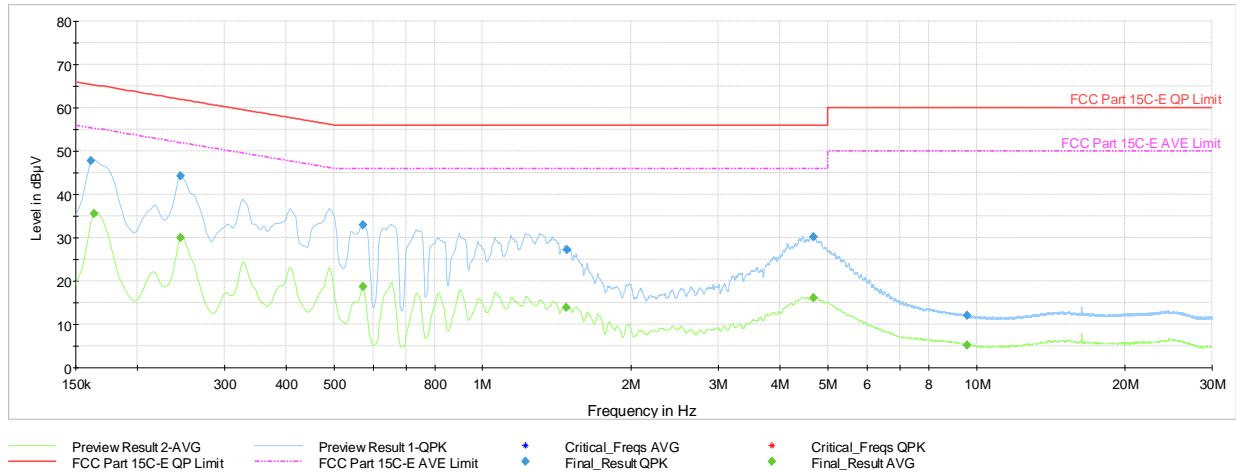
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	---	36.37	55.28	-18.92	L1	GND
0.166	FINAL	48.4	---	65.17	-16.74	L1	GND
0.326	FINAL	---	24.68	49.57	-24.88	L1	GND
0.326	FINAL	39.4	---	59.57	-20.18	L1	GND
0.805	FINAL	31.5	---	56.00	-24.48	L1	GND
0.812	FINAL	---	17.74	46.00	-28.26	L1	GND
1.973	FINAL	24.2	---	56.00	-31.83	L1	GND
1.977	FINAL	---	12.66	46.00	-33.34	L1	GND
4.688	FINAL	32.1	---	56.00	-23.86	L1	GND
4.722	FINAL	---	19.11	46.00	-26.89	L1	GND
9.078	FINAL	---	12.48	50.00	-37.52	L1	GND
9.087	FINAL	18.6	---	60.00	-41.45	L1	GND

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

FCC ID: BCGA2764 IC: 579C-A2764	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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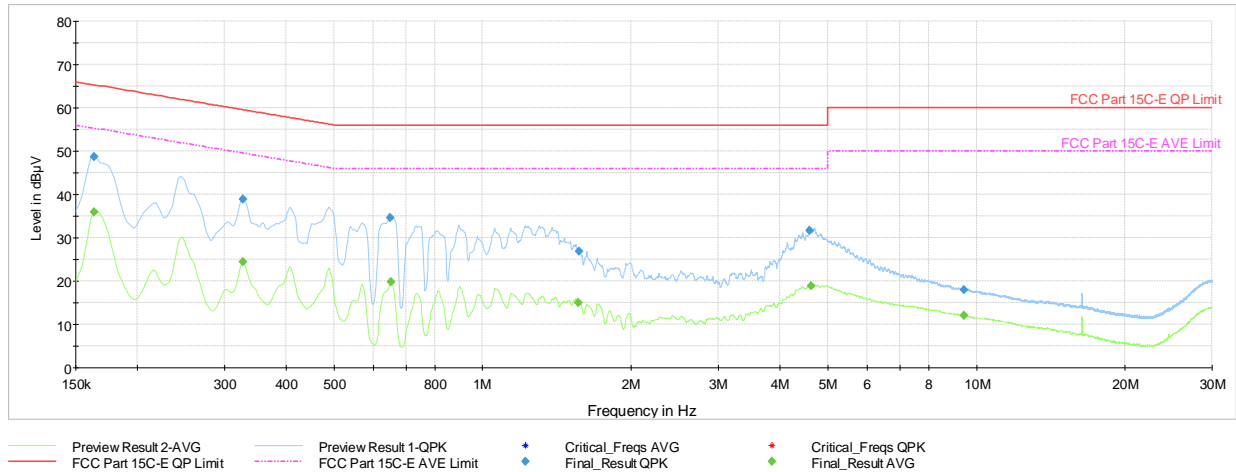
Plot 7-812. AC Line Conducted Plot with 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	47.8	---	65.40	-17.58	N	GND
0.164	FINAL	---	35.49	55.28	-19.79	N	GND
0.245	FINAL	---	30.05	51.94	-21.89	N	GND
0.245	FINAL	44.2	---	61.94	-17.70	N	GND
0.573	FINAL	---	18.61	46.00	-27.39	N	GND
0.573	FINAL	32.9	---	56.00	-23.06	N	GND
1.480	FINAL	---	13.82	46.00	-32.18	N	GND
1.482	FINAL	27.3	---	56.00	-28.75	N	GND
4.673	FINAL	30.2	---	56.00	-25.85	N	GND
4.682	FINAL	---	16.06	46.00	-29.94	N	GND
9.566	FINAL	12.0	---	60.00	-47.99	N	GND
9.587	FINAL	---	5.21	50.00	-44.79	N	GND

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

FCC ID: BCGA2764 IC: 579C-A2764	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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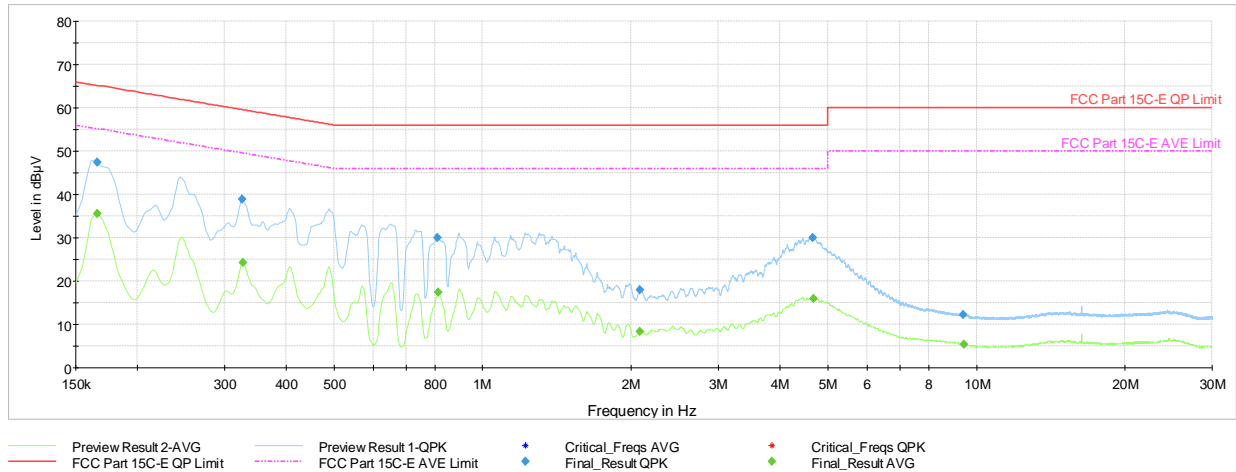
Plot 7-813. AC Line Conducted Plot with 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	---	35.99	55.28	-19.30	L1	GND
0.164	FINAL	48.7	---	65.28	-16.63	L1	GND
0.328	FINAL	---	24.48	49.51	-25.03	L1	GND
0.328	FINAL	38.8	---	59.51	-20.68	L1	GND
0.650	FINAL	34.7	---	56.00	-21.30	L1	GND
0.652	FINAL	---	19.88	46.00	-26.12	L1	GND
1.561	FINAL	---	14.94	46.00	-31.06	L1	GND
1.565	FINAL	26.8	---	56.00	-29.18	L1	GND
4.596	FINAL	31.7	---	56.00	-24.35	L1	GND
4.625	FINAL	---	18.90	46.00	-27.10	L1	GND
9.438	FINAL	18.0	---	60.00	-42.00	L1	GND
9.449	FINAL	---	11.96	50.00	-38.04	L1	GND

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

FCC ID: BCGA2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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
0.166	FINAL	---	35.65	55.17	-19.52	N	GND
0.166	FINAL	47.4	---	65.17	-17.73	N	GND
0.326	FINAL	38.8	---	59.57	-20.74	N	GND
0.328	FINAL	---	24.32	49.51	-25.19	N	GND
0.812	FINAL	30.0	---	56.00	-26.00	N	GND
0.814	FINAL	---	17.35	46.00	-28.65	N	GND
2.085	FINAL	17.9	---	56.00	-38.07	N	GND
2.085	FINAL	---	8.34	46.00	-37.66	N	GND
4.668	FINAL	30.0	---	56.00	-26.00	N	GND
4.677	FINAL	---	16.01	46.00	-29.99	N	GND
9.418	FINAL	12.2	---	60.00	-47.84	N	GND
9.425	FINAL	---	5.42	50.00	-44.58	N	GND


Table 7-131. AC Line Conducted Data with 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter

FCC ID: BCGA2764 IC: 579C-A2764	 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: BCGA2764** and **IC: 579C-A2764** 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.

FCC ID: BCGA2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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