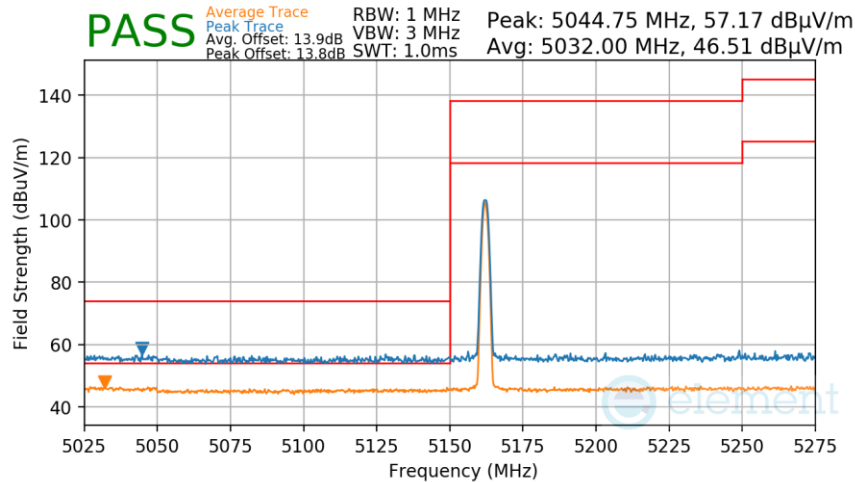


Radiated Band Edge Measurements
§15.407(b.1) §15.205 §15.209; RSS-Gen [8.9]

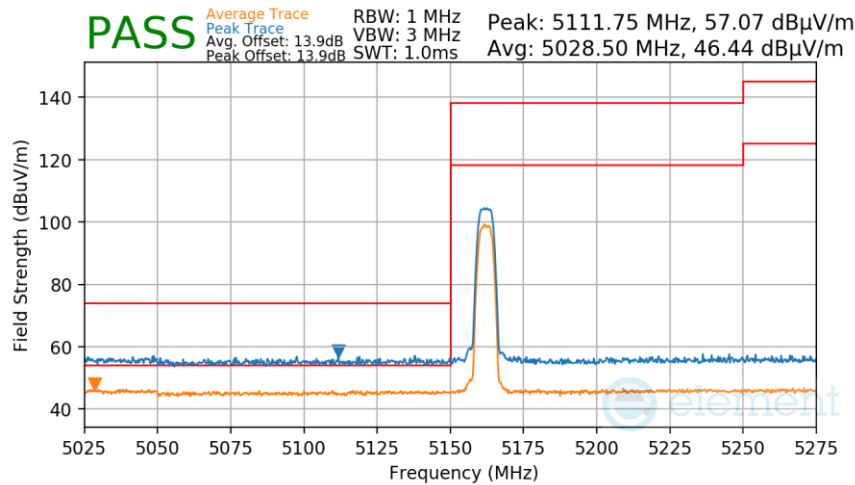
Antenna 2a

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-210. Radiated Lower Band Edge Measurement Antenna 2a

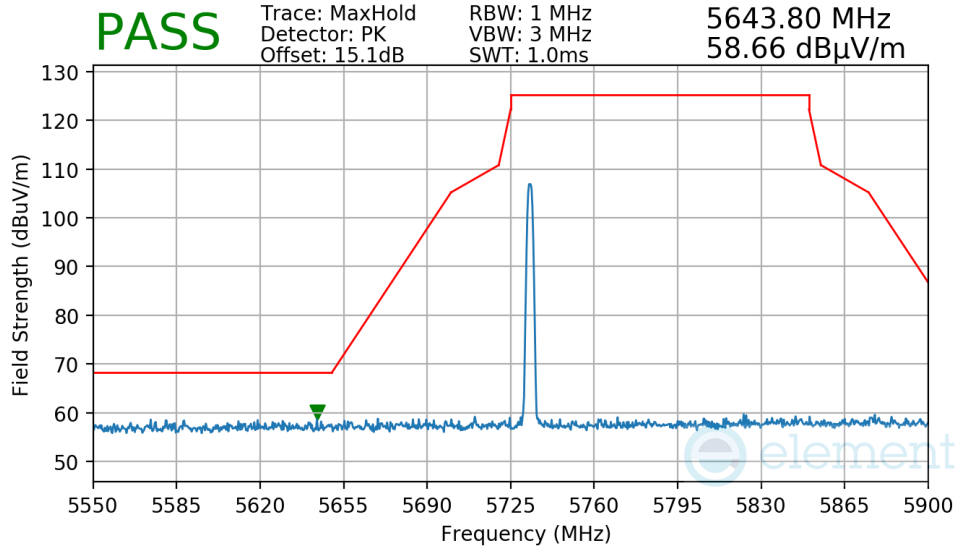
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-211. Radiated Lower Band Edge Measurement Antenna 2a

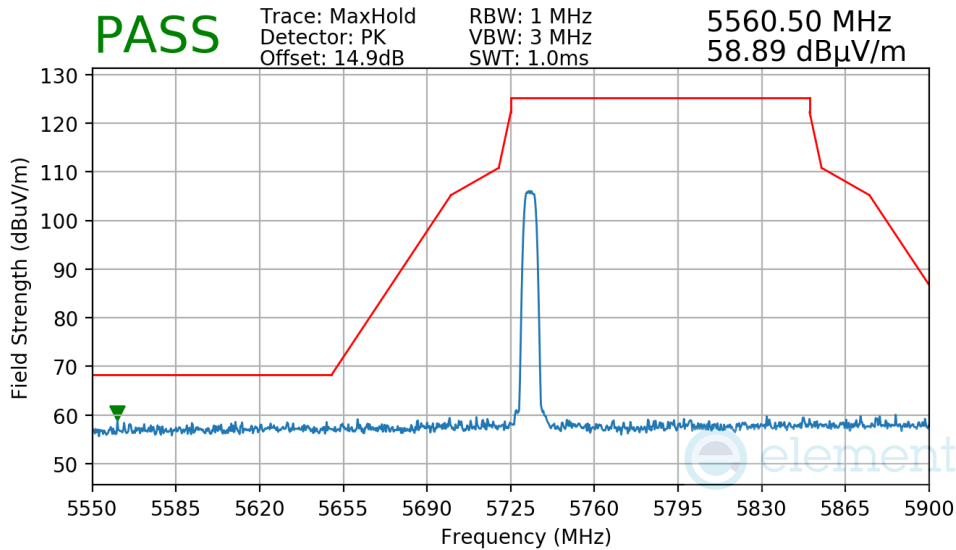
FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-212. Radiated Lower Band Edge Measurement Antenna 2a

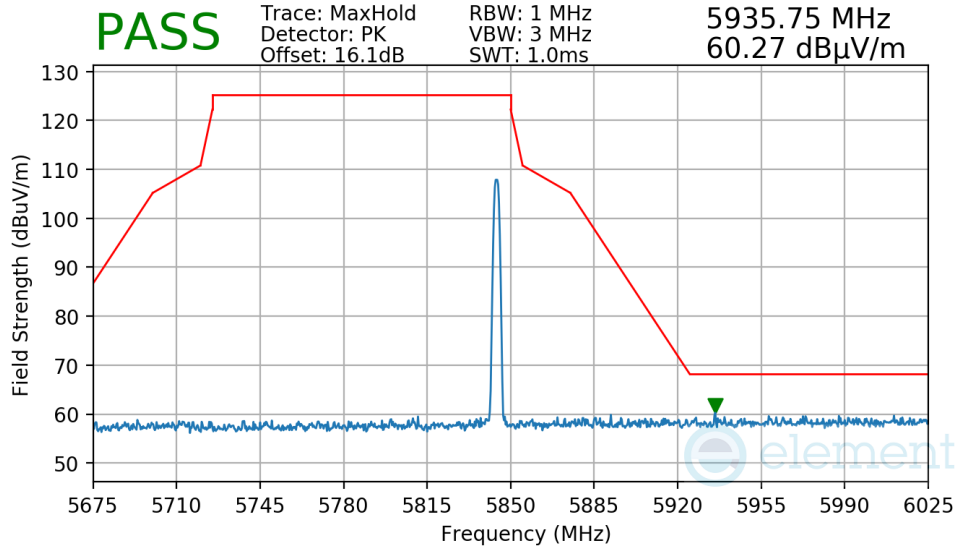
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-213. Radiated Lower Band Edge Measurement Antenna 2a

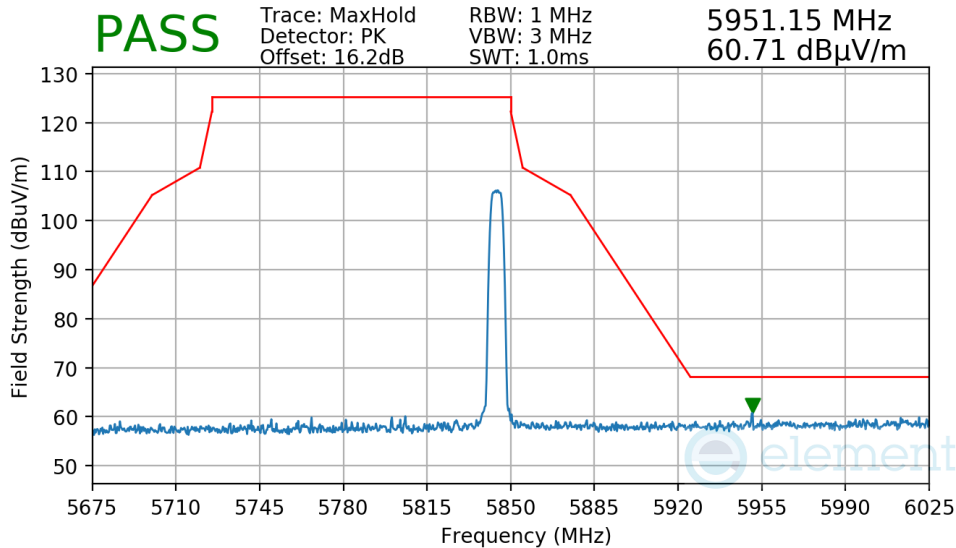
FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270070-20.BCG	Test Dates: 1/3/2024 - 3/24/2024	EUT Type: Tablet Device	Page 163 of 179

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-214. Radiated Upper Band Edge Measurement Antenna 2a

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-215. Radiated Upper Band Edge Measurement Antenna 2a

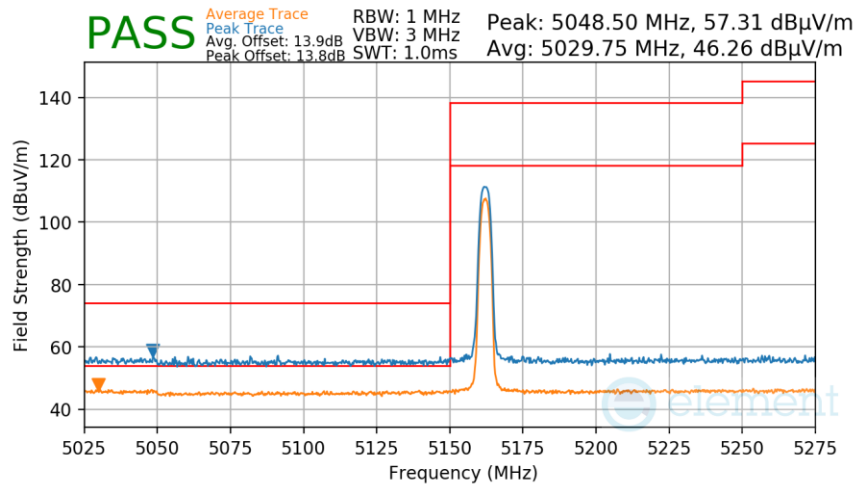
FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270070-20.BCG	Test Dates: 1/3/2024 - 3/24/2024	EUT Type: Tablet Device	Page 164 of 179

Radiated Band Edge Measurements

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

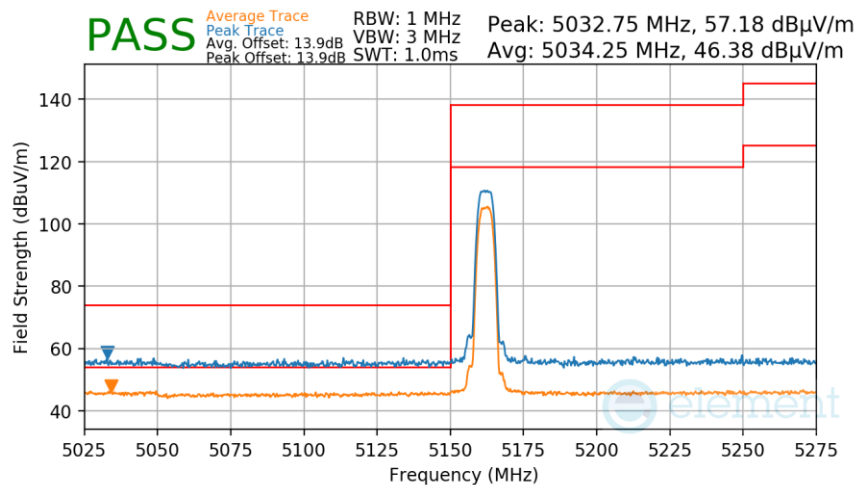
Antenna TxBF

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-216. Radiated Lower Band Edge Measurement TxBF

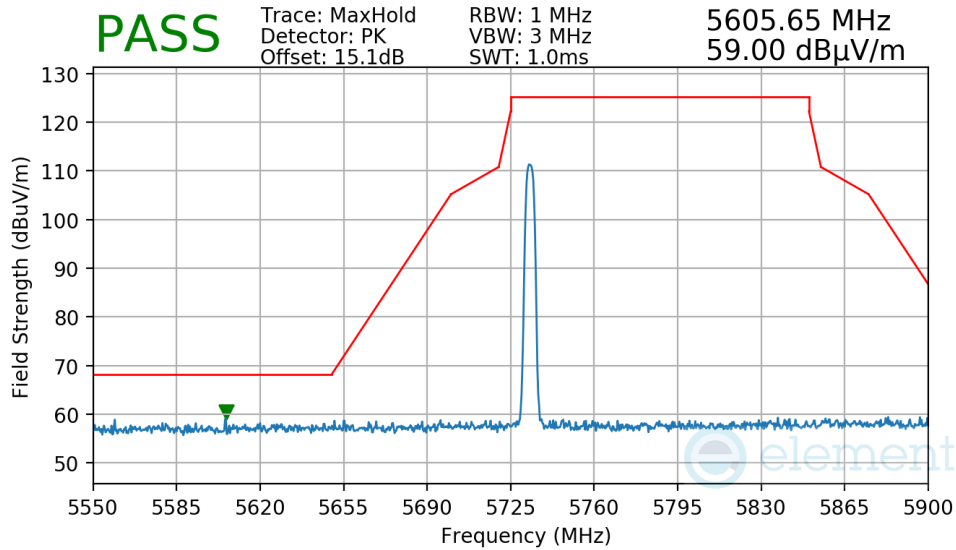
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-217. Radiated Lower Band Edge Measurement TxBF

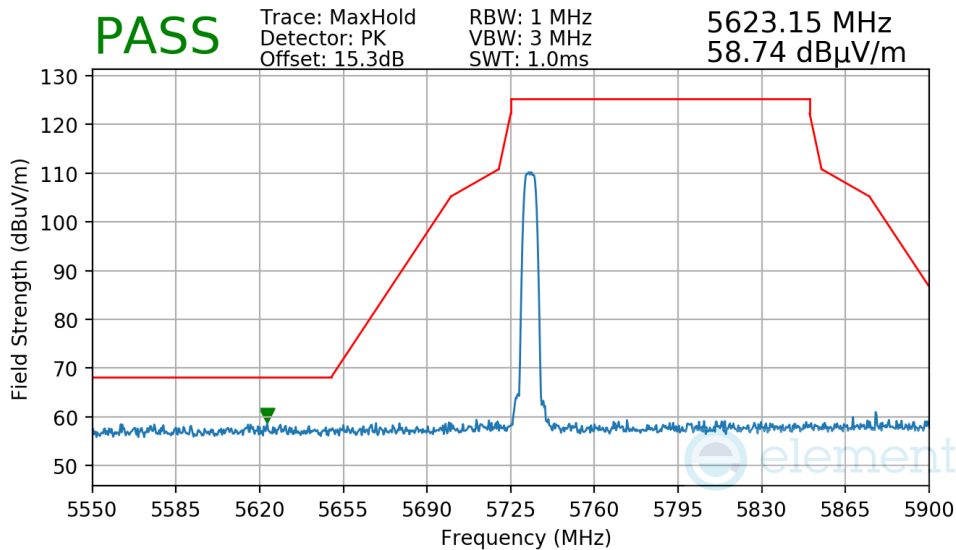
FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270070-20.BCG	Test Dates: 1/3/2024 - 3/24/2024	EUT Type: Tablet Device	Page 165 of 179

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-218. Radiated Lower Band Edge Measurement TxBF

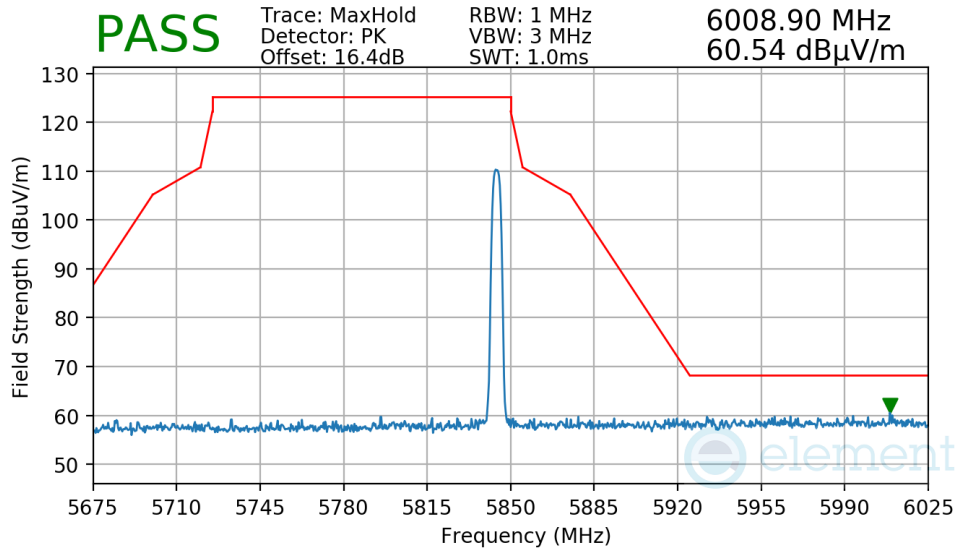
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-219. Radiated Lower Band Edge Measurement TxBF

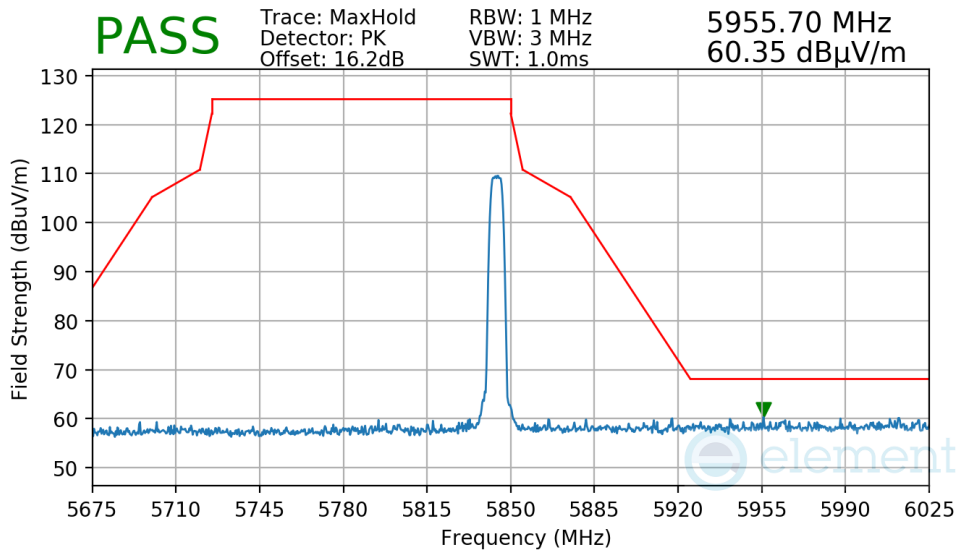
FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270070-20.BCG	Test Dates: 1/3/2024 - 3/24/2024	EUT Type: Tablet Device	Page 166 of 179

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-220. Radiated Upper Band Edge Measurement TxBF

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-221. Radiated Upper Band Edge Measurement TxBF

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7 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 7-53 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	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 7-53. 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

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. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. 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.

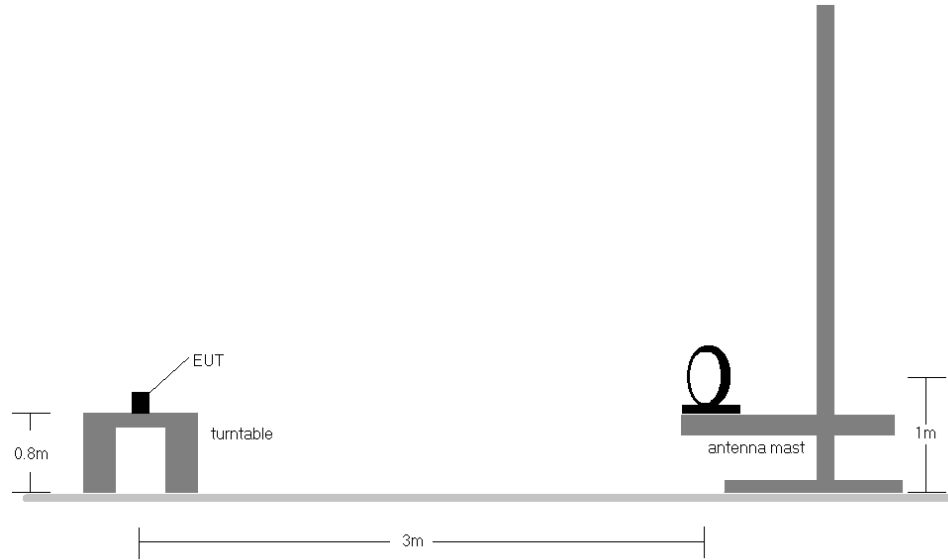


Figure 7-6. Radiated Test Setup < 30MHz

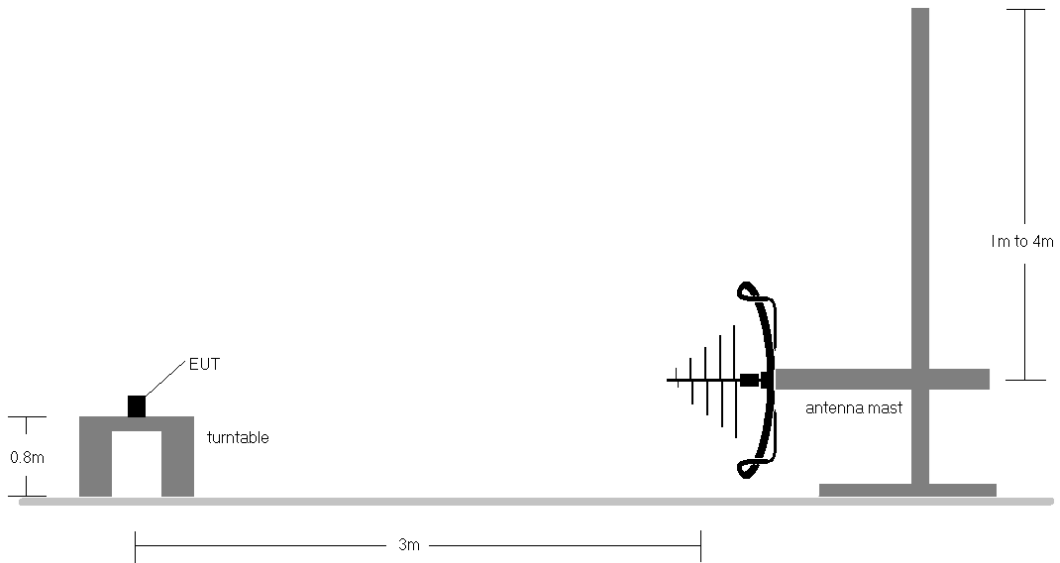


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-53.
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 for emissions 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. All supported modulation and power schemes have been tested on the unit and only worst case configuration is reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor to USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

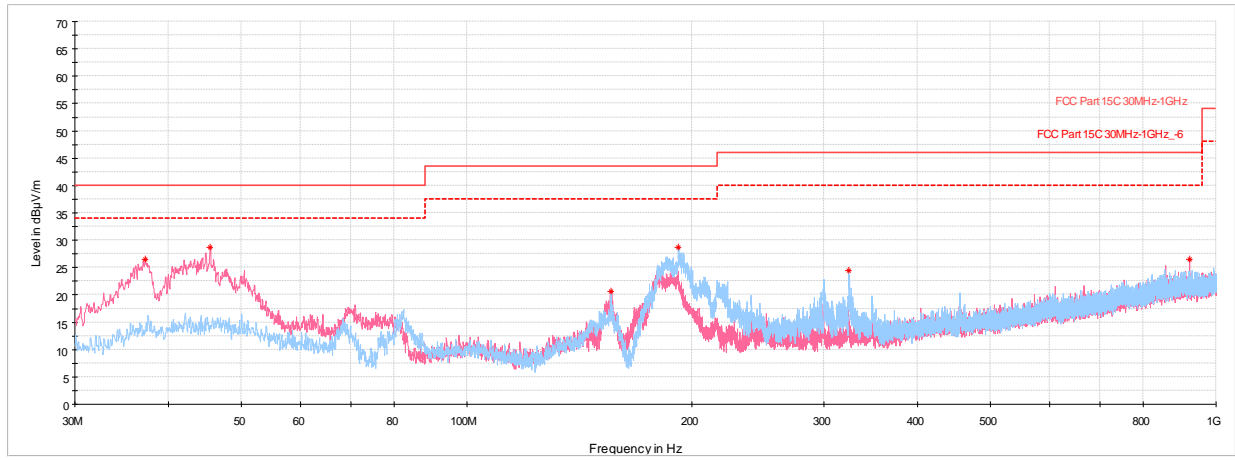
Determining Spurious Emissions Levels

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

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TxBF Radiated Spurious Emissions (Below 1GHz)

§15.209; RSS-Gen [8.9]



— Preview Result 1V-PK+ FCC Part 15C 30MHz-1GHz
— Preview Result 1H-PK+ FCC Part 15C 30MHz-1GHz_6
★ Critical_Freqs PK+ Final_Result QPK

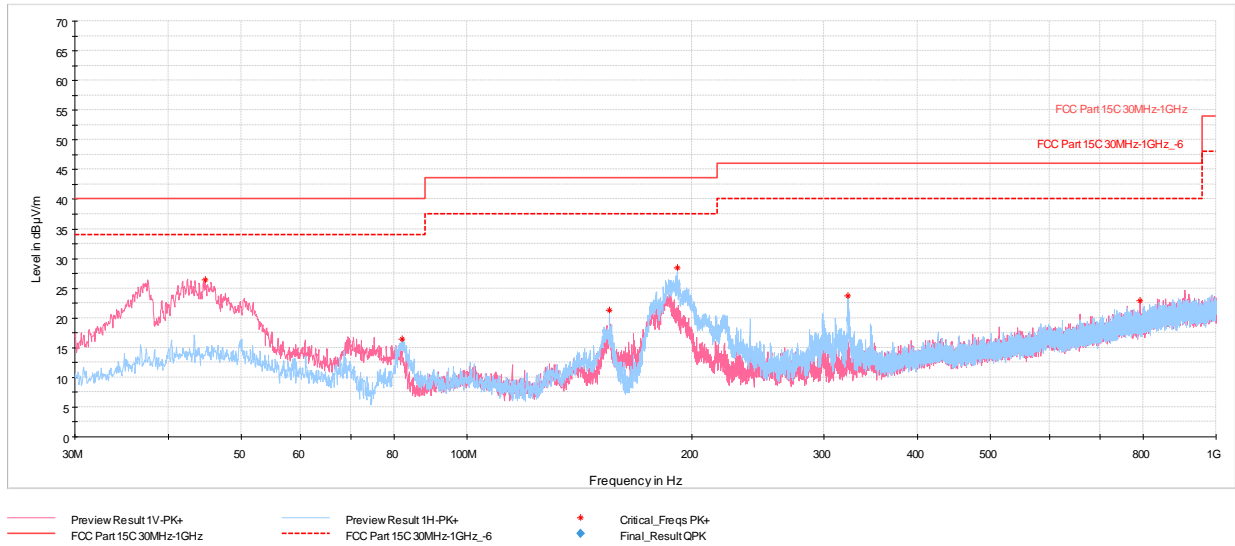
Plot 7-222. Radiated Spurious Emissions Below 1GHz TxBF (HDR4, ePA – 5245MHz), with AC/DC Adapter

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]
37.28	Max-Peak	V	100	311	-65.39	-15.17	26.44	40.00	-13.56
45.47	Max-Peak	V	100	2	-64.93	-13.44	28.63	40.00	-11.37
155.66	Max-Peak	V	100	324	-66.50	-19.87	20.63	43.52	-22.89
191.70	Max-Peak	H	200	246	-61.06	-17.30	28.64	43.52	-14.88
323.62	Max-Peak	H	100	274	-68.78	-13.72	24.50	46.02	-21.52
922.45	Max-Peak	V	100	231	-77.73	-2.71	26.56	46.02	-19.46

Table 7-54. Radiated Spurious Emissions Below 1GHz TxBF (HDR4, ePA – 5245MHz), with AC/DC Adapter

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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TxBF Radiated Spurious Emissions (Below 1GHz)
§15.209; RSS-Gen [8.9]



Plot 7-223. Radiated Spurious Emissions Below 1GHz TxBF (HDR4, ePA – 5844MHz), 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]
44.74	Max-Peak	V	100	16	-67.15	-13.39	26.46	40.00	-13.54
82.04	Max-Peak	H	200	126	-69.74	-20.76	16.50	40.00	-23.50
155.18	Max-Peak	H	200	32	-65.73	-19.94	21.33	43.52	-22.19
190.92	Max-Peak	H	100	223	-61.08	-17.41	28.51	43.52	-15.01
322.55	Max-Peak	H	100	116	-69.49	-13.82	23.69	46.02	-22.33
791.01	Max-Peak	V	300	280	-79.29	-4.84	22.87	46.02	-23.15

Table 7-55. . Radiated Spurious Emissions Below 1GHz TxBF (HDR4, ePA – 5844MHz), with AC/DC Adapter

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8 AC Line Conducted Emissions Measurement

§15.207; 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. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

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 7-56. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Subclause 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

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

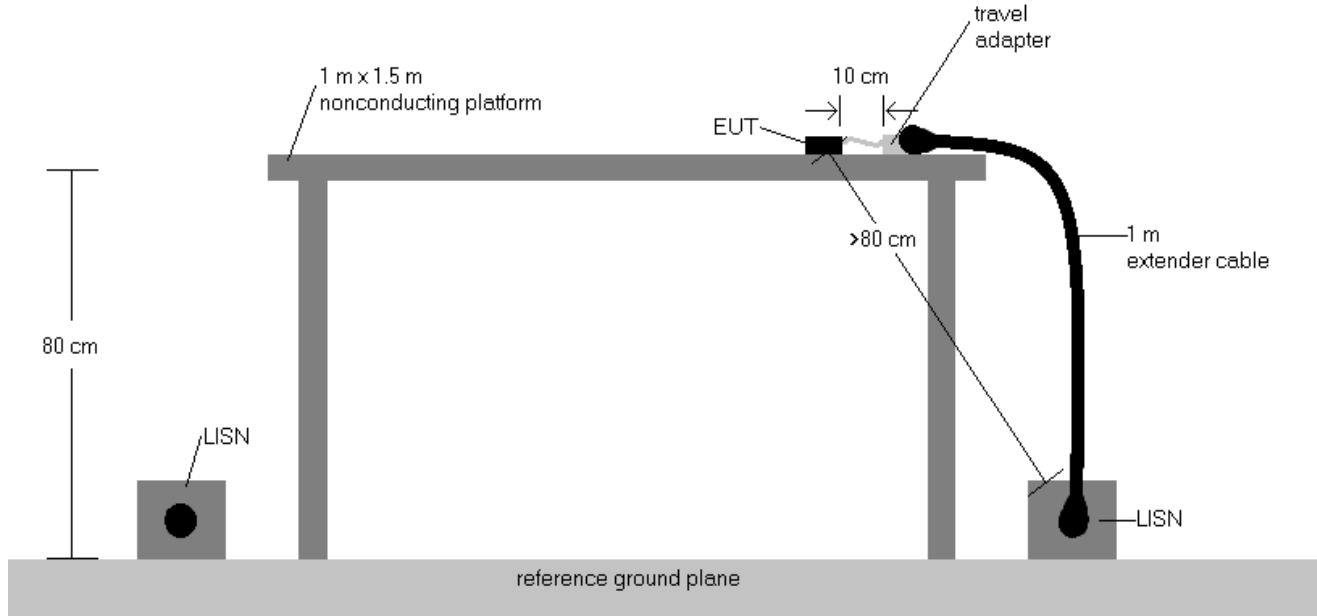


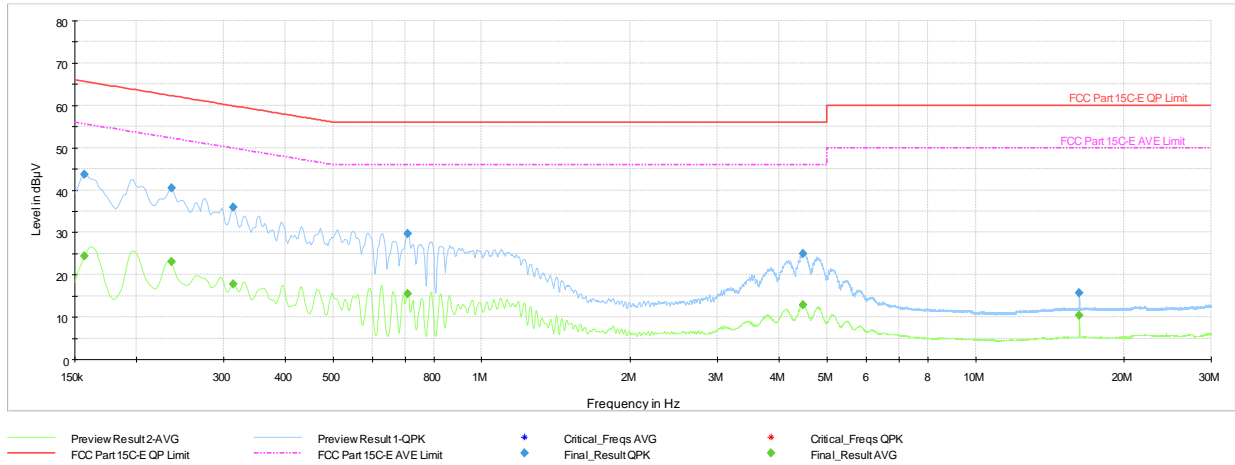
Figure 7-8. Test Instrument & Measurement Setup

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 to 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.
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.

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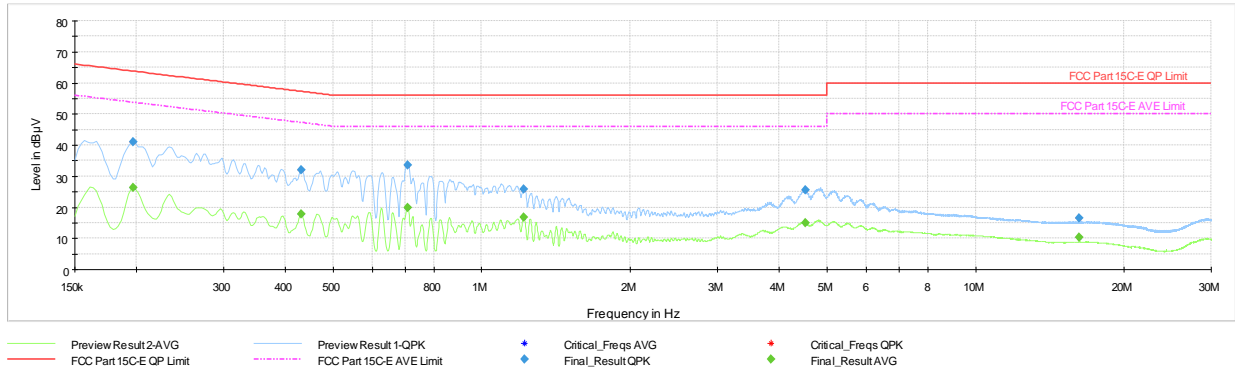


Plot 7-224. AC Line Conducted Plot TxBF (HDR4, ePA – 5245MHz) (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.157	FINAL	—	24.35	55.63	-31.28	L1	GND
0.157	FINAL	43.7	—	65.63	-21.91	L1	GND
0.236	FINAL	—	23.04	52.25	-29.22	L1	GND
0.236	FINAL	40.5	—	62.25	-21.71	L1	GND
0.314	FINAL	—	17.84	49.86	-32.02	L1	GND
0.314	FINAL	36.0	—	59.86	-23.87	L1	GND
0.708	FINAL	29.7	—	56.00	-26.31	L1	GND
0.708	FINAL	—	15.60	46.00	-30.40	L1	GND
4.470	FINAL	24.9	—	56.00	-31.10	L1	GND
4.470	FINAL	—	12.79	46.00	-33.21	L1	GND
16.233	FINAL	—	10.48	50.00	-39.52	L1	GND
16.233	FINAL	15.7	—	60.00	-44.27	L1	GND

Table 7-57. AC Line Conducted TxBF (HDR4, ePA – 5245MHz) (L1) with AC/DC Adapter

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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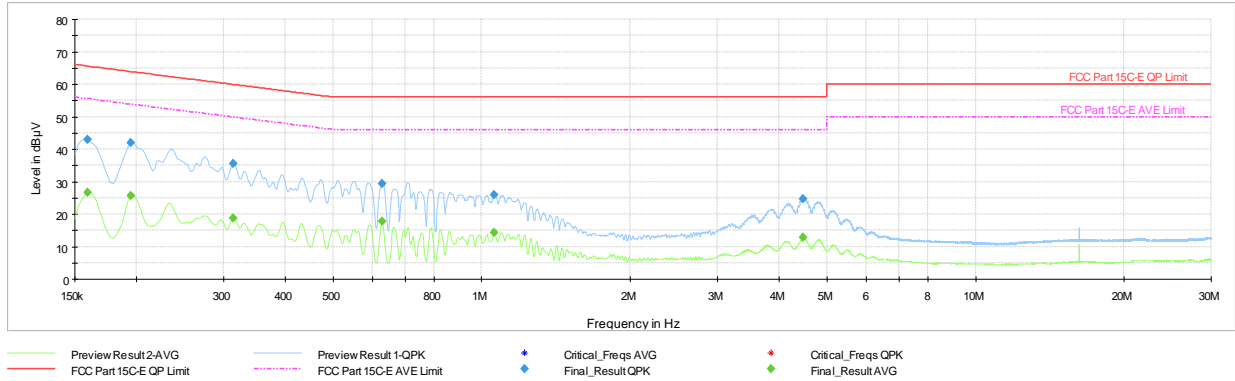


Plot 7-225. AC Line Conducted Plot TxBF (HDR4, ePA – 5245MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.197	FINAL	—	26.20	53.73	-27.53	N	GND
0.197	FINAL	41.1	—	63.73	-22.59	N	GND
0.431	FINAL	—	17.93	47.23	-29.30	N	GND
0.431	FINAL	32.0	—	57.23	-25.22	N	GND
0.708	FINAL	—	19.81	46.00	-26.19	N	GND
0.708	FINAL	33.6	—	56.00	-22.41	N	GND
1.219	FINAL	25.7	—	56.00	-30.26	N	GND
1.219	FINAL	—	16.73	46.00	-29.27	N	GND
4.520	FINAL	25.6	—	56.00	-30.43	N	GND
4.520	FINAL	—	15.03	46.00	-30.97	N	GND
16.238	FINAL	—	10.22	50.00	-39.78	N	GND
16.238	FINAL	16.5	—	60.00	-43.51	N	GND

Table 7-58. AC Line Conducted TxBF (HDR4, ePA – 5245MHz) (N) with AC/DC Adapter

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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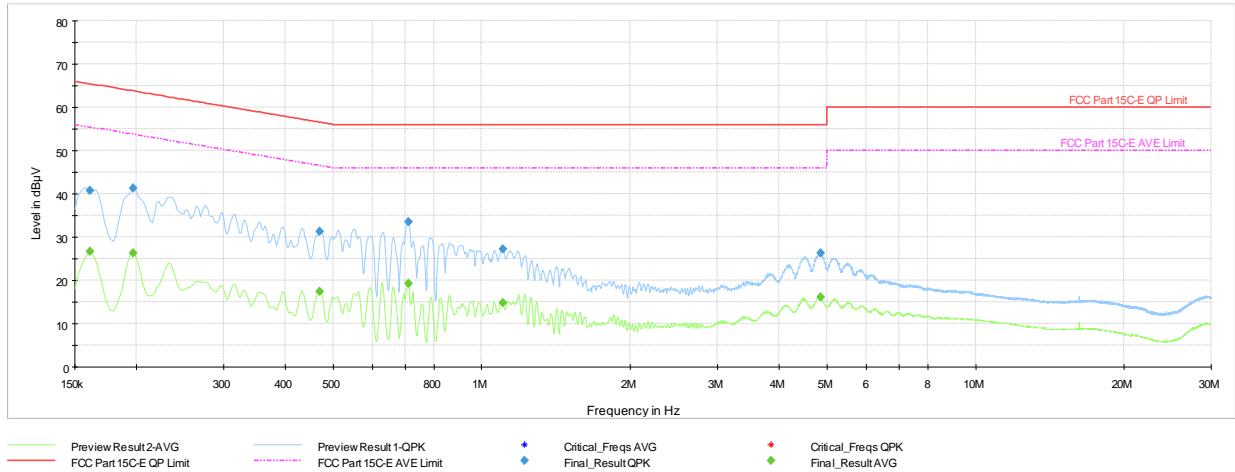


Plot 7-226. AC Line Conducted Plot TxBF (HDR4, ePA – 5844MHz) (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	—	26.61	55.52	-28.91	L1	GND
0.159	FINAL	42.9	—	65.52	-22.63	L1	GND
0.195	FINAL	—	25.68	53.82	-28.14	L1	GND
0.195	FINAL	42.0	—	63.82	-21.81	L1	GND
0.314	FINAL	—	18.82	49.86	-31.04	L1	GND
0.314	FINAL	35.7	—	59.86	-24.19	L1	GND
0.629	FINAL	29.5	—	56.00	-26.50	L1	GND
0.629	FINAL	—	17.89	46.00	-28.11	L1	GND
1.059	FINAL	25.9	—	56.00	-30.10	L1	GND
1.059	FINAL	—	14.20	46.00	-31.80	L1	GND
4.481	FINAL	—	12.84	46.00	-33.16	L1	GND
4.481	FINAL	24.6	—	56.00	-31.42	L1	GND

Table 7-59. AC Line Conducted TxBF (HDR4, ePA – 5844MHz) (L1) with AC/DC Adapter

FCC ID: BCGA2926 IC: 579C-A2926		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-227. AC Line Conducted Plot TxBF (HDR4, ePA – 5844MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	26.62	55.40	-28.78	N	GND
0.161	FINAL	40.8	—	65.40	-24.62	N	GND
0.197	FINAL	—	26.24	53.73	-27.48	N	GND
0.197	FINAL	41.3	—	63.73	-22.48	N	GND
0.470	FINAL	—	17.42	46.52	-29.10	N	GND
0.470	FINAL	31.2	—	56.52	-25.29	N	GND
0.710	FINAL	33.5	—	56.00	-22.52	N	GND
0.710	FINAL	—	19.19	46.00	-26.81	N	GND
1.104	FINAL	27.3	—	56.00	-28.69	N	GND
1.104	FINAL	—	14.73	46.00	-31.27	N	GND
4.853	FINAL	—	16.18	46.00	-29.82	N	GND
4.853	FINAL	26.3	—	56.00	-29.69	N	GND

Table 7-60. AC Line Conducted TxBF (HDR4, ePA – 5844MHz) (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: BCGA2926, IC: 579C-A2926** 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: BCGA2926 IC: 579C-A2926	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270070-20.BCG	Test Dates: 1/3/2024 - 3/24/2024	EUT Type: Tablet Device	Page 179 of 179

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