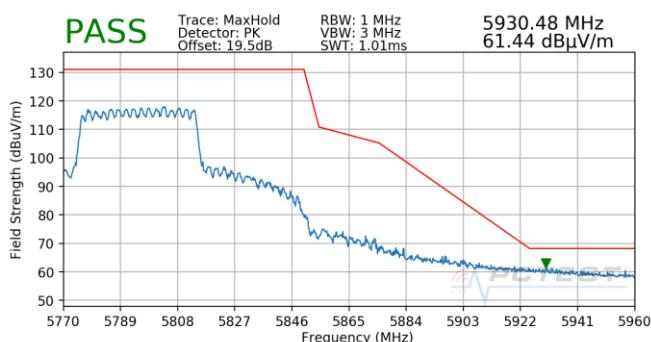
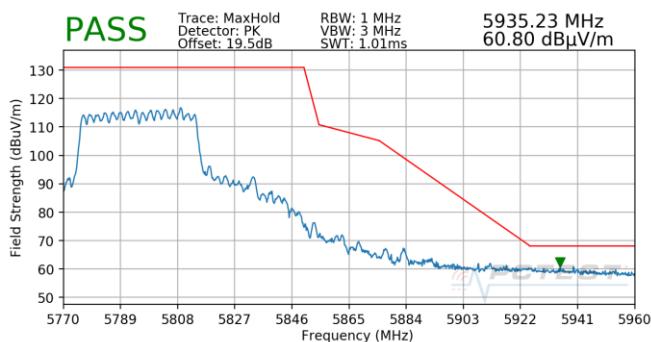


Plot 7-1065. CDD (Pk, Ch.159, 802.11ax(SU), MCS0)



Plot 7-1066. CDD (Pk, Ch.159, 802.11ax(SU), MCS3)

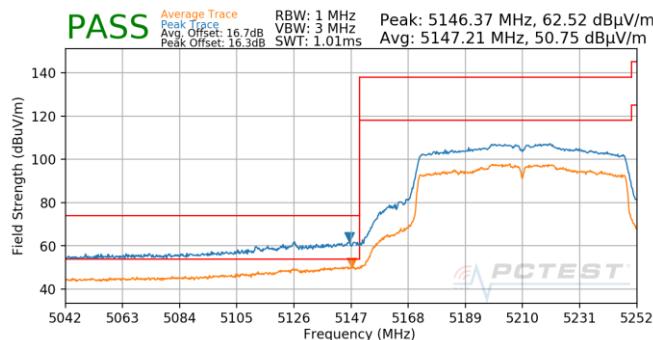


Plot 7-1067. CDD (Pk, Ch.159, 802.11ax(SU), MCS11)

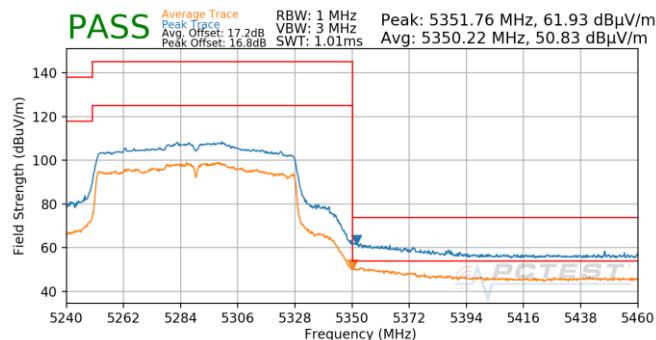
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 334 of 354

7.6.12 CDD Radiated Band Edge Measurements (80MHz BW)

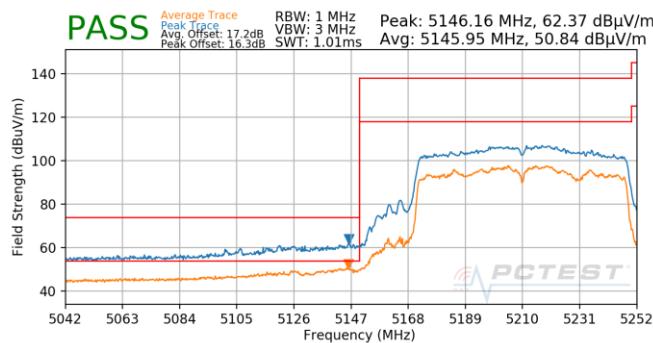
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



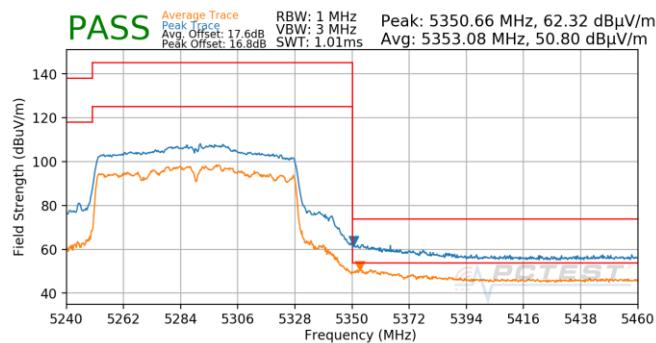
Plot 7-1068. CDD (Pk & Avg, Ch.42, 802.11ac, MCS0)



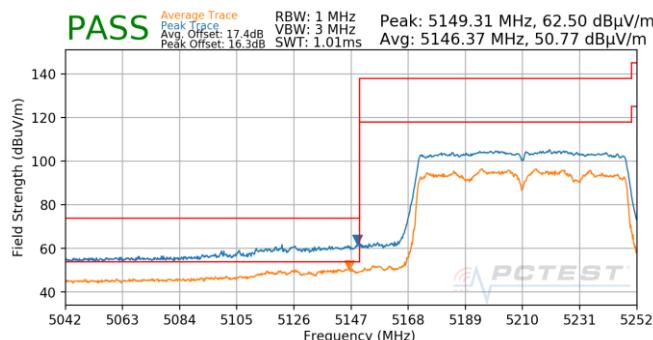
Plot 7-1071. CDD (Pk & Avg, Ch.58, 802.11ac, MCS0)



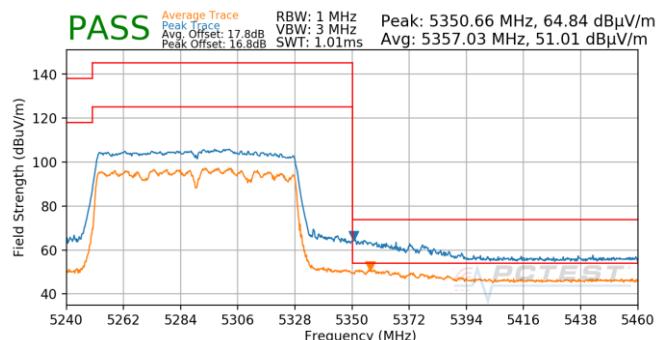
Plot 7-1069. CDD (Pk & Avg, Ch.42, 802.11ac, MCS3)



Plot 7-1072. CDD (Pk & Avg, Ch.58, 802.11ac, MCS3)

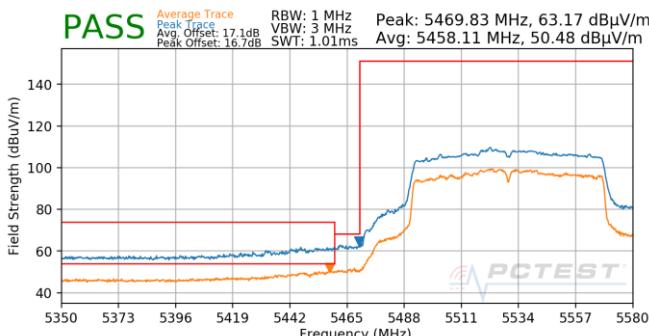


Plot 7-1070. CDD (Pk & Avg, Ch.42, 802.11ac, MCS5)

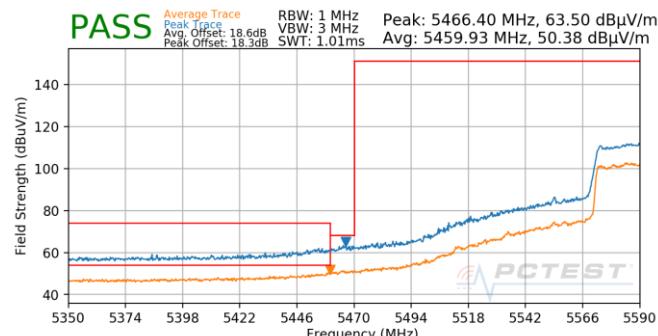


Plot 7-1073. CDD (Pk & Avg, Ch.58, 802.11ac, MCS5)

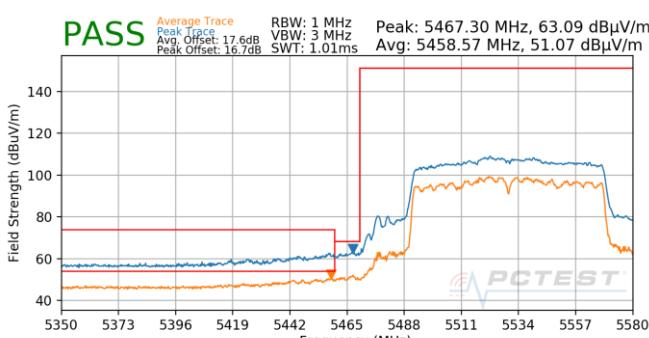
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 335 of 354	



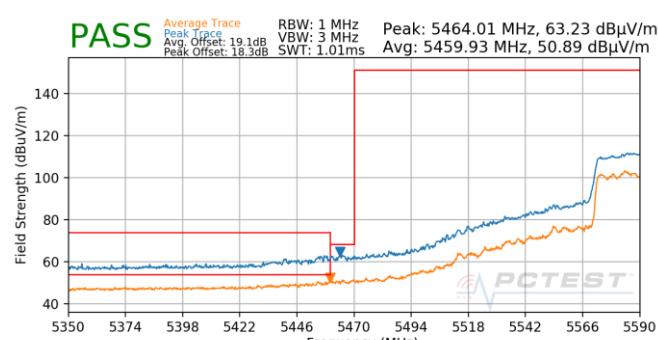
Plot 7-1074. CDD (Pk & Avg, Ch.106, 802.11ac, MCS0)



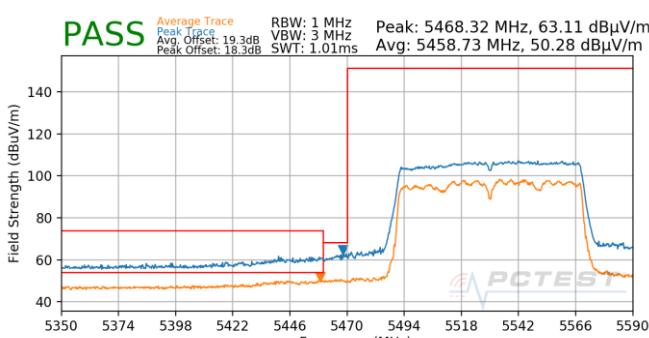
Plot 7-1077. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ac, MCS0)



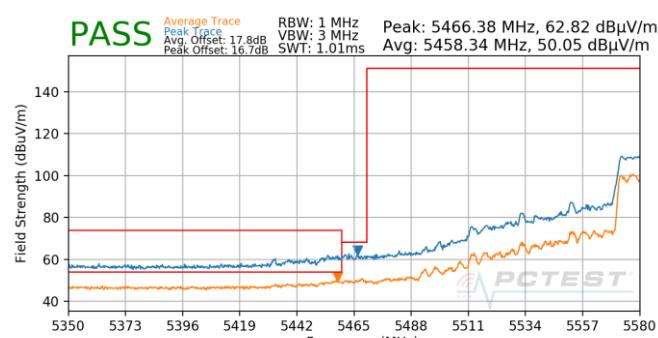
Plot 7-1075. CDD (Pk & Avg, Ch.106, 802.11ac, MCS3)



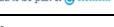
Plot 7-1078. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ac, MCS3)

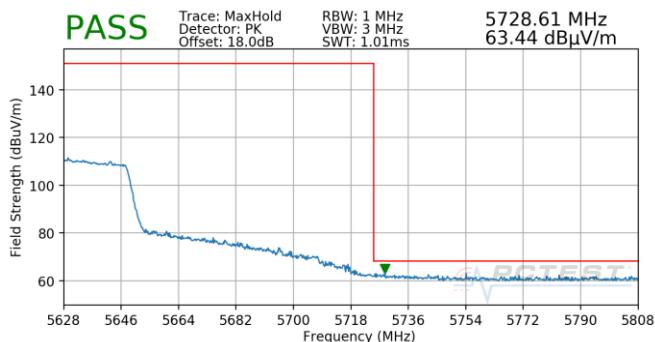


Plot 7-1076. CDD (Pk & Avg, Ch.106, 802.11ac, MCS5)

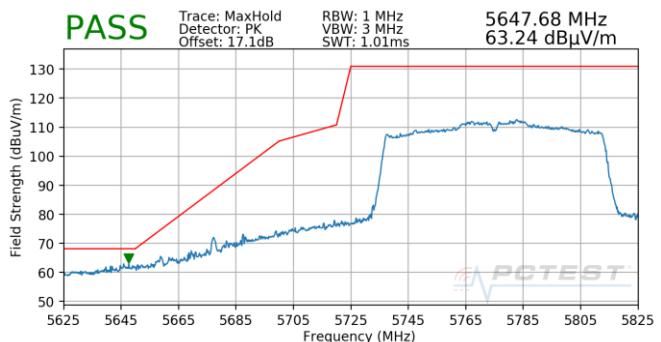


Plot 7-1079. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ac, MCS5)

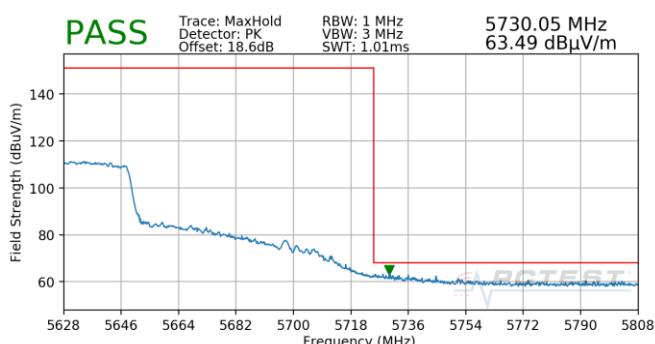
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 336 of 354



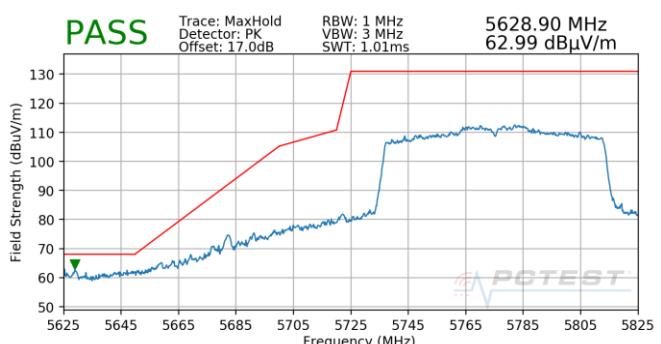
Plot 7-1080. (FCC Only) CDD (Pk, Ch.122, 802.11ac, MCS0)



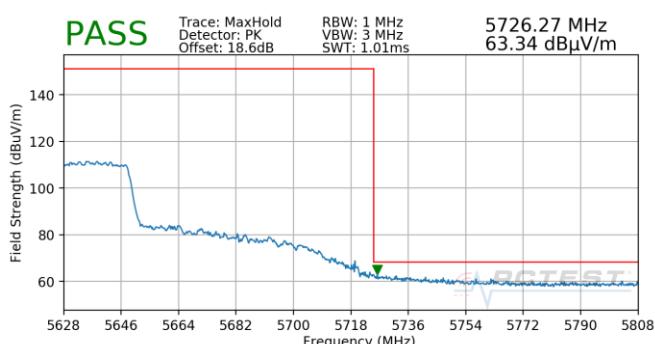
Plot 7-1083. CDD (Pk, Ch.155, 802.11ac, MCS0)



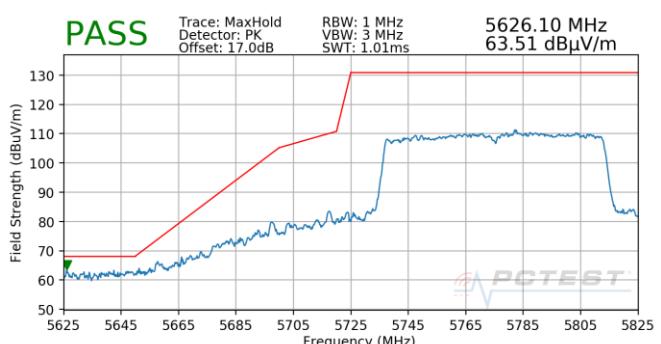
Plot 7-1081. (FCC Only) CDD (Pk, Ch.122, 802.11ac, MCS3)



Plot 7-1084. CDD (Pk, Ch.155, 802.11ac, MCS3)

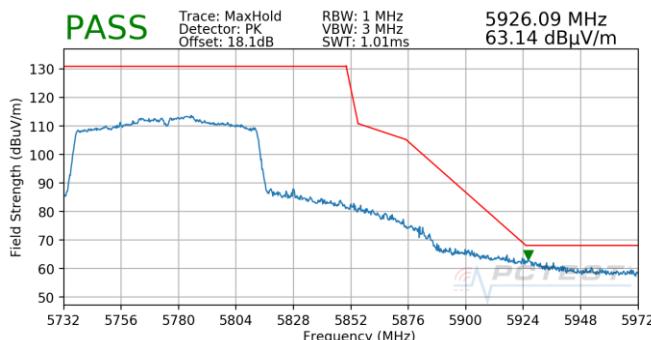


Plot 7-1082. (FCC Only) CDD (Pk, Ch.122, 802.11ac, MCS5)

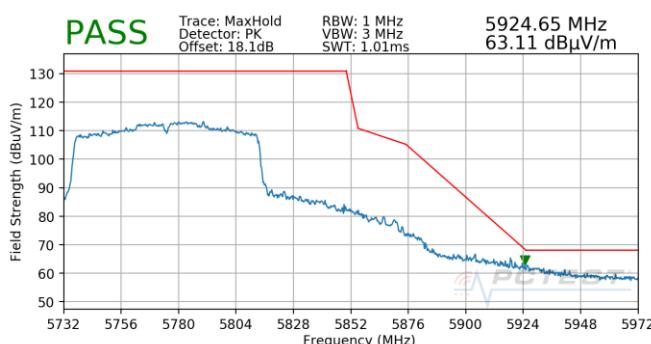


Plot 7-1085. CDD (Pk, Ch.155, 802.11ac, MCS5)

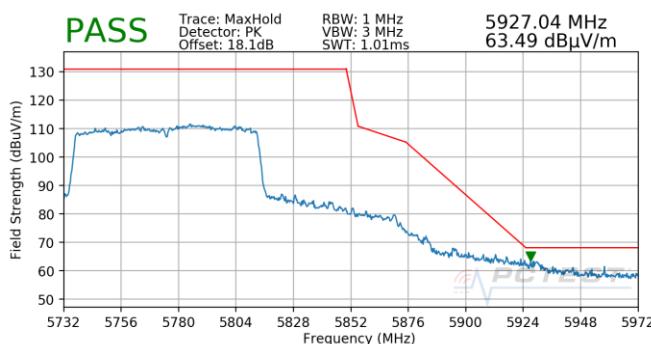
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 337 of 354	



Plot 7-1086. CDD (Pk, Ch.155, 802.11ac, MCS0)

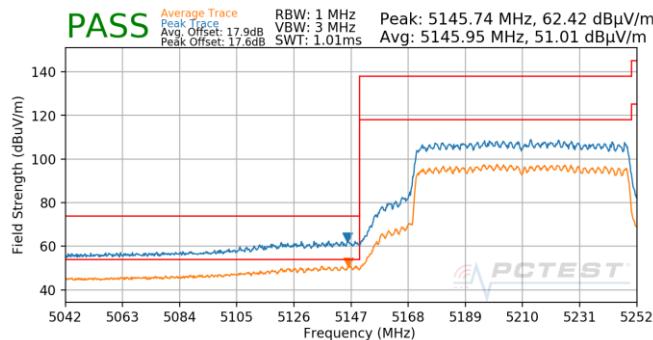


Plot 7-1087. CDD (Pk, Ch.155, 802.11ac, MCS3)

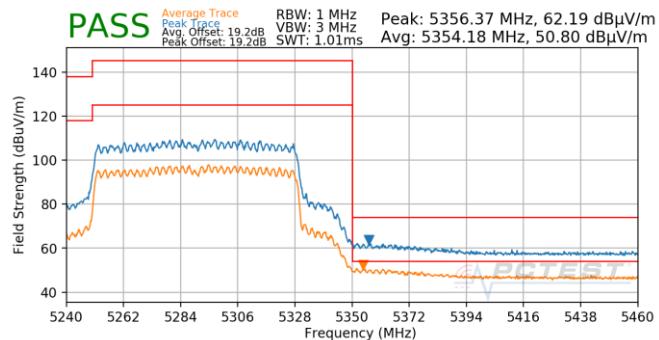


Plot 7-1088. CDD (Pk, Ch.155, 802.11ac, MCS5)

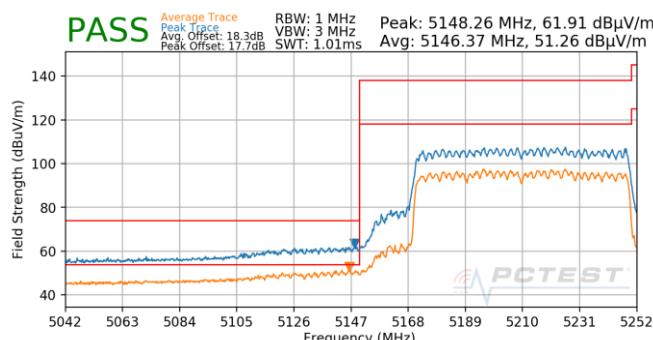
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 338 of 354



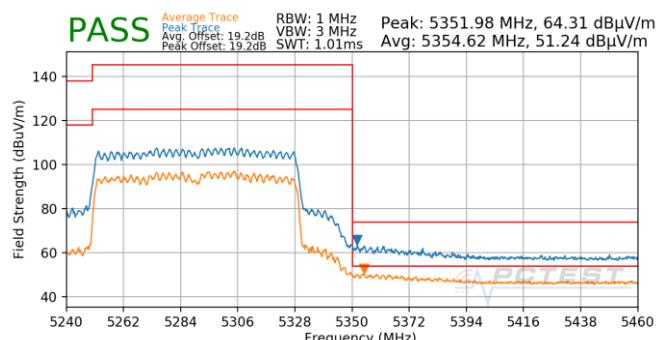
Plot 7-1089. CDD (Pk & Avg, Ch.42, 802.11ax(SU), MCS0)



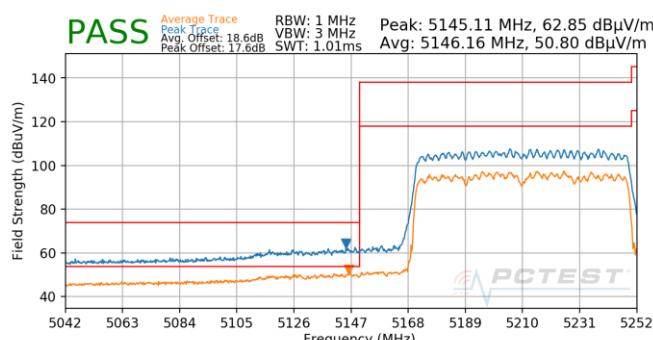
Plot 7-1092. CDD (Pk & Avg, Ch.58, 802.11ax(SU), MCS0)



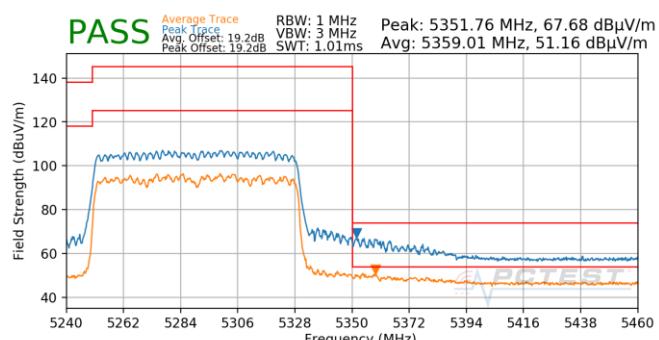
Plot 7-1090. CDD (Pk & Avg, Ch.42, 802.11ax(SU), MCS3)



Plot 7-1093. CDD (Pk & Avg, Ch.58, 802.11ax(SU), MCS3)

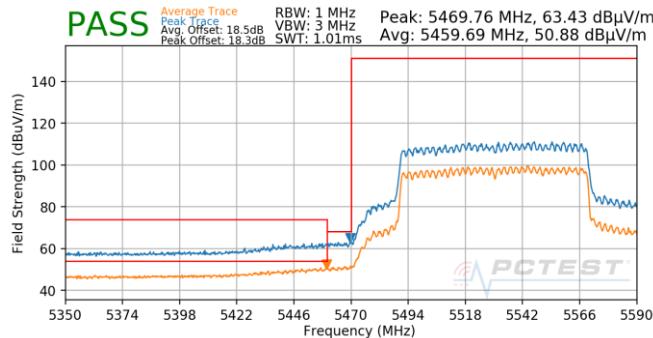


Plot 7-1091. CDD (Pk & Avg, Ch.42, 802.11ax(SU), MCS11)

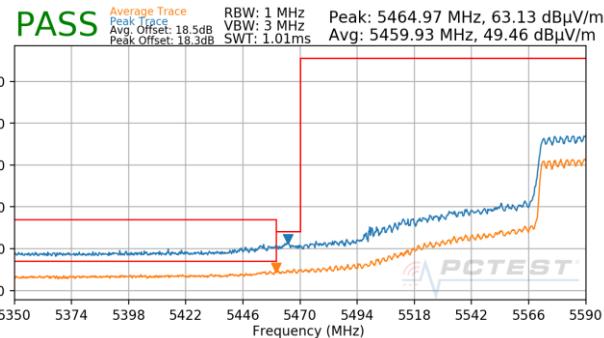


Plot 7-1094. CDD (Pk & Avg, Ch.58, 802.11ax(SU), MCS11)

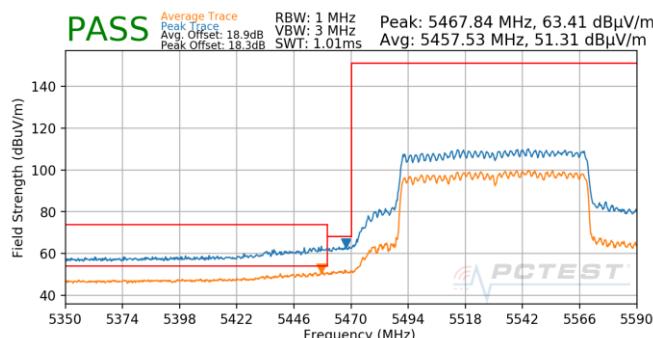
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 339 of 354



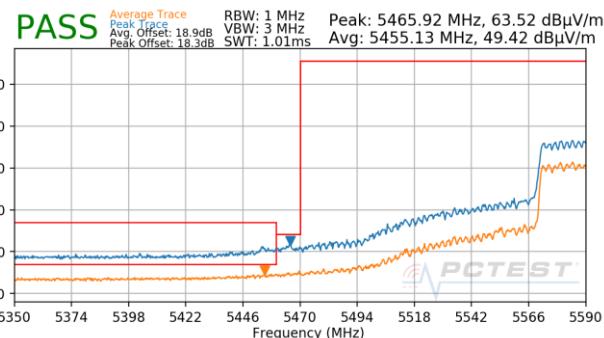
Plot 7-1095. CDD (Pk & Avg, Ch.106, 802.11ax(SU), MCS0)



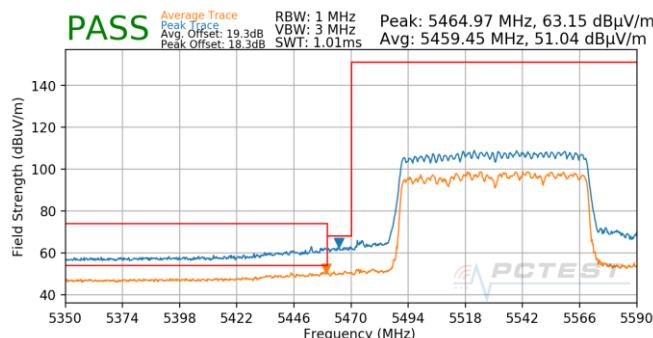
Plot 7-1098. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ax(SU), MCS0)



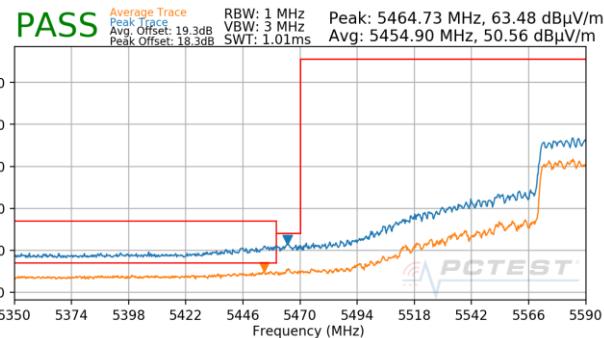
Plot 7-1096. CDD (Pk & Avg, Ch.106, 802.11ax(SU), MCS3)



Plot 7-1099. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ax(SU), MCS3)

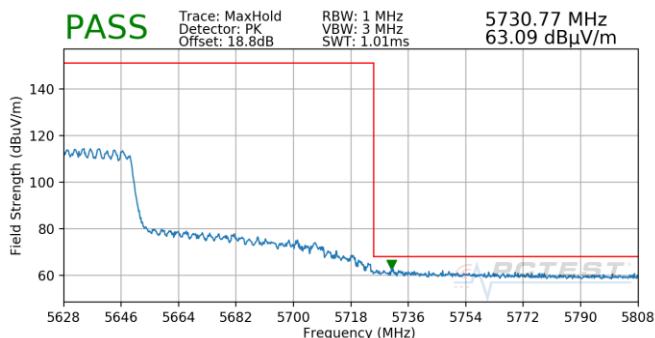


Plot 7-1097. CDD (Pk & Avg, Ch.106, 802.11ax(SU), MCS11)

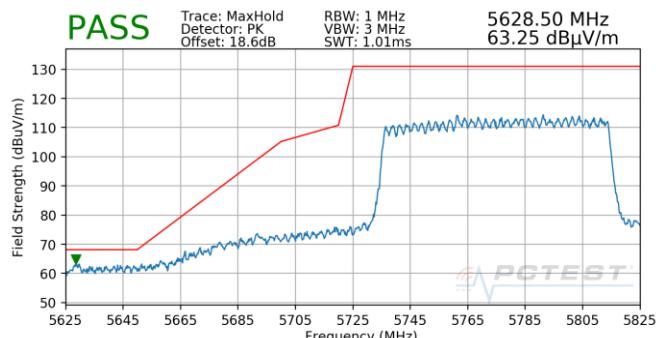


Plot 7-1100. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ax(SU), MCS11)

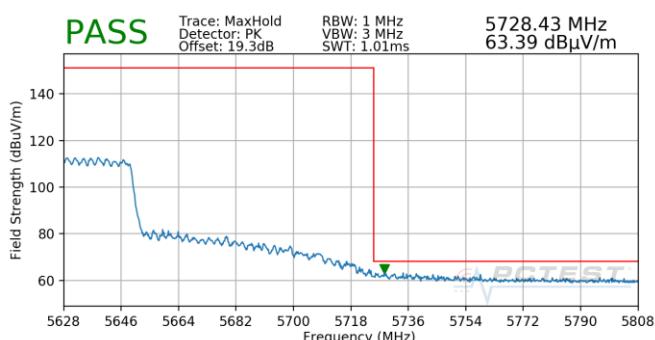
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 340 of 354	



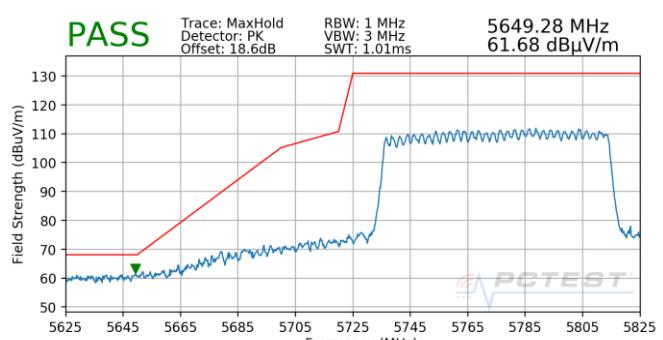
Plot 7-1101. (FCC Only) CDD (Pk, Ch.122, 802.11ax(SU), MCS0)



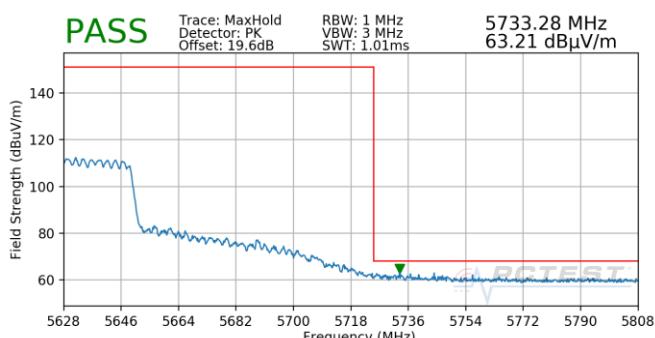
Plot 7-1104. CDD (Pk, Ch.155, 802.11ax(SU), MCS0)



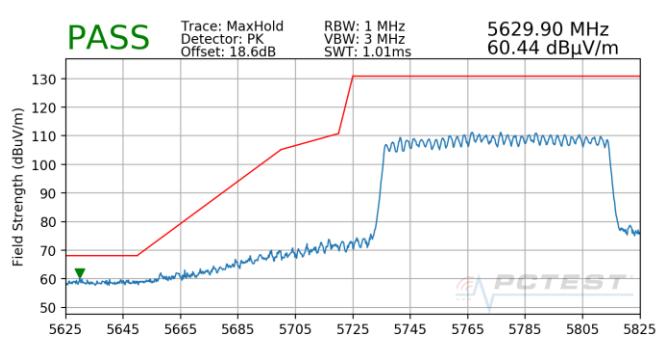
Plot 7-1102. (FCC Only) CDD (Pk, Ch.122, 802.11ax(SU), MCS3)



Plot 7-1105. CDD (Pk, Ch.155, 802.11ax(SU), MCS3)

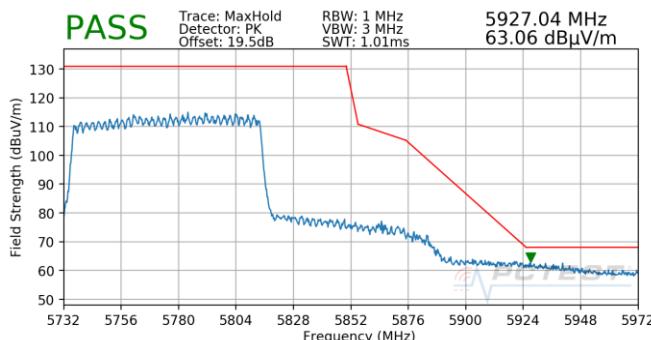


Plot 7-1103. (FCC Only) CDD (Pk, Ch.122, 802.11ax(SU), MCS11)

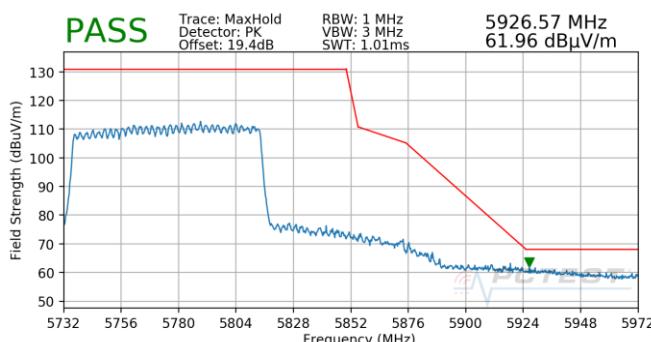


Plot 7-1106. CDD (Pk, Ch.155, 802.11ax(SU), MCS11)

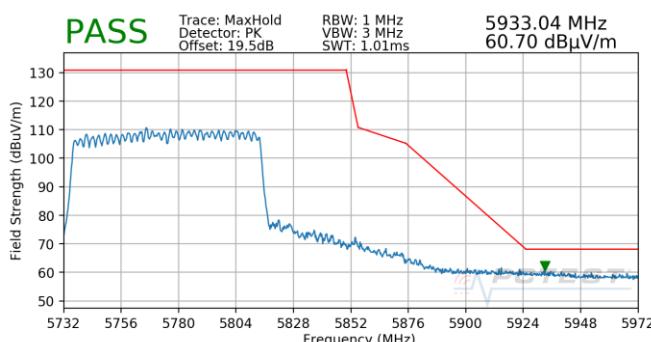
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 341 of 354	



Plot 7-1107. CDD (Pk, Ch.155, 802.11ax(SU), MCS0)



Plot 7-1108. CDD (Pk, Ch.155, 802.11ax(SU), MCS3)



Plot 7-1109. CDD (Pk, Ch.155, 802.11ax(SU), MCS11)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 342 of 354

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 7-192 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ 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 7-192. 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

7. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
8. RBW = 120kHz (for emissions from 30MHz – 1GHz)
9. VBW = 300kHz
10. Detector = quasi-peak
11. Sweep time = auto couple
12. Trace mode = max hold
13. Trace was allowed to stabilize

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 343 of 354	

Test Setup

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

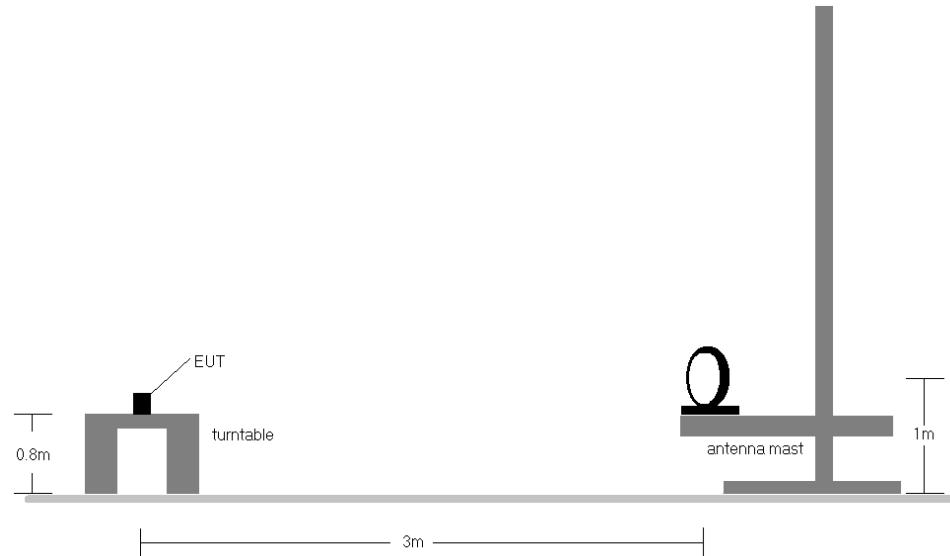


Figure 7-6. Radiated Test Setup < 30MHz

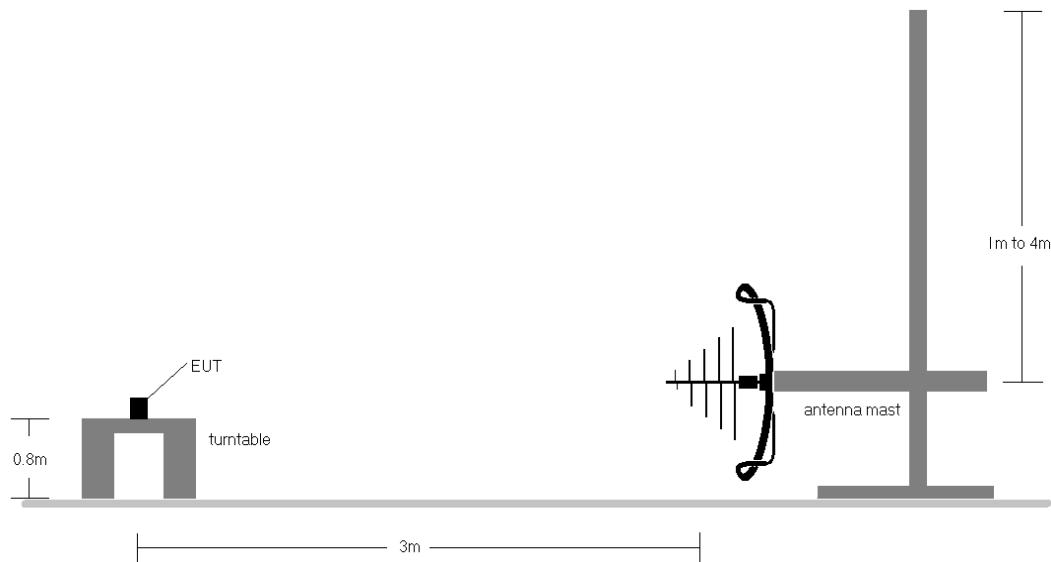


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 344 of 354

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-192.
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 on emissions that were 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. 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
10. All antenna configurations were investigated and only the worst case is reported.
11. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

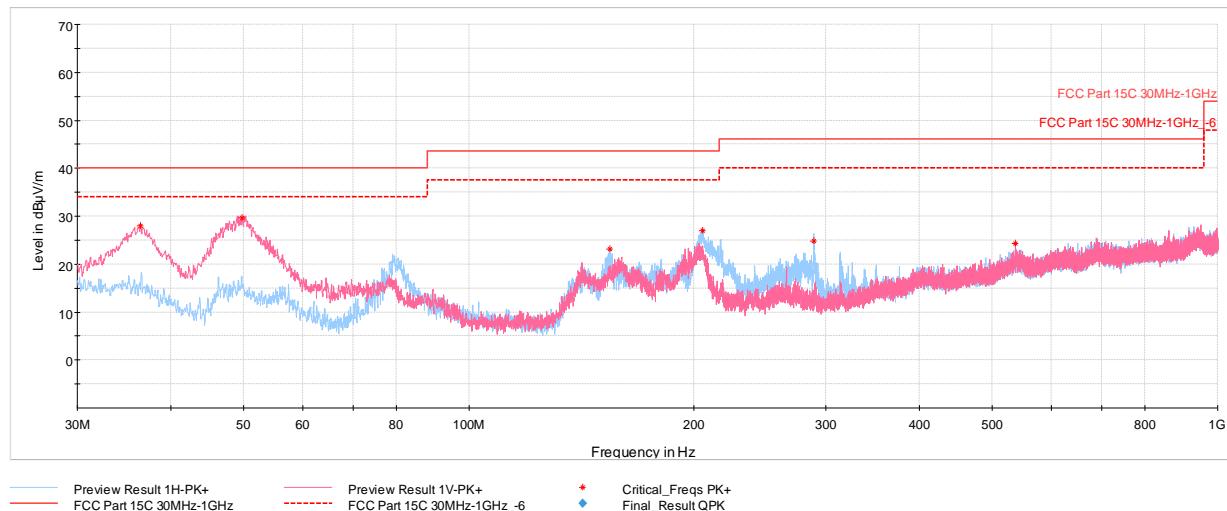
Determining Spurious Emissions Levels

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

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Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 345 of 354	

CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

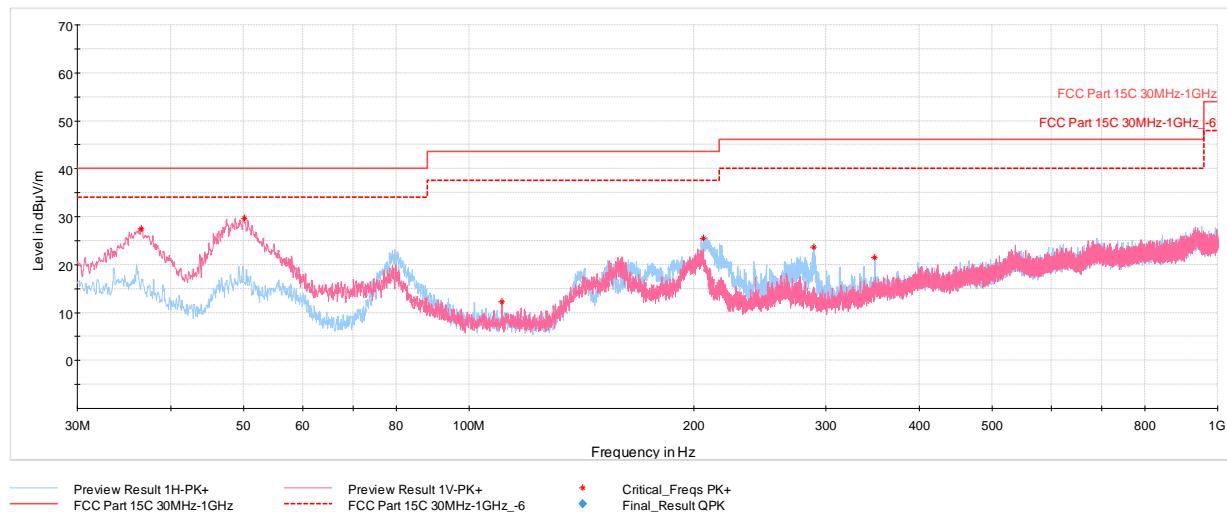


Plot 7-1110. Radiated Spurious Emissions below 1GHz CDD, 802.11n, Ch.40 with AC/DC Adapter

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]
36.45	Max Peak	V	100	0	-63.91	-15.07	28.02	40.00	-11.98
49.74	Max Peak	V	100	321	-56.23	-21.02	29.75	40.00	-10.25
154.11	Max Peak	H	100	262	-67.52	-16.41	23.07	43.52	-20.45
205.09	Max Peak	H	100	351	-63.36	-16.67	26.97	43.52	-16.55
288.80	Max Peak	H	100	111	-67.27	-14.96	24.77	46.02	-21.25
537.36	Max Peak	V	100	326	-77.52	-5.21	24.27	46.02	-21.75

Table 7-193. Radiated Spurious Emissions below 1GHz, 802.11n, Ch.40 with AC/DC Adapter

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 346 of 354	



Plot 7-1111. Radiated Spurious Emissions below 1GHz CDD, 802.11ax (SU), Ch.40 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]
36.50	Max Peak	V	100	264	-64.33	-15.10	27.57	40.00	-12.43
50.13	Max Peak	V	250	57	-56.26	-21.07	29.67	40.00	-10.33
110.70	Max Peak	V	250	199	-75.83	-18.89	12.28	43.52	-31.24
205.67	Max Peak	H	100	317	-64.87	-16.61	25.52	43.52	-18.00
289.04	Max Peak	H	100	274	-68.42	-14.94	23.64	46.02	-22.38
348.65	Max Peak	H	100	124	-73.89	-11.58	21.53	46.02	-24.49

Table 7-194. Radiated Spurious Emissions below 1GHz, 802.11ax (SU), Ch.40 with AC/DC Adapter

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 347 of 354	

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 7-195. 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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 348 of 354	

Test Setup

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

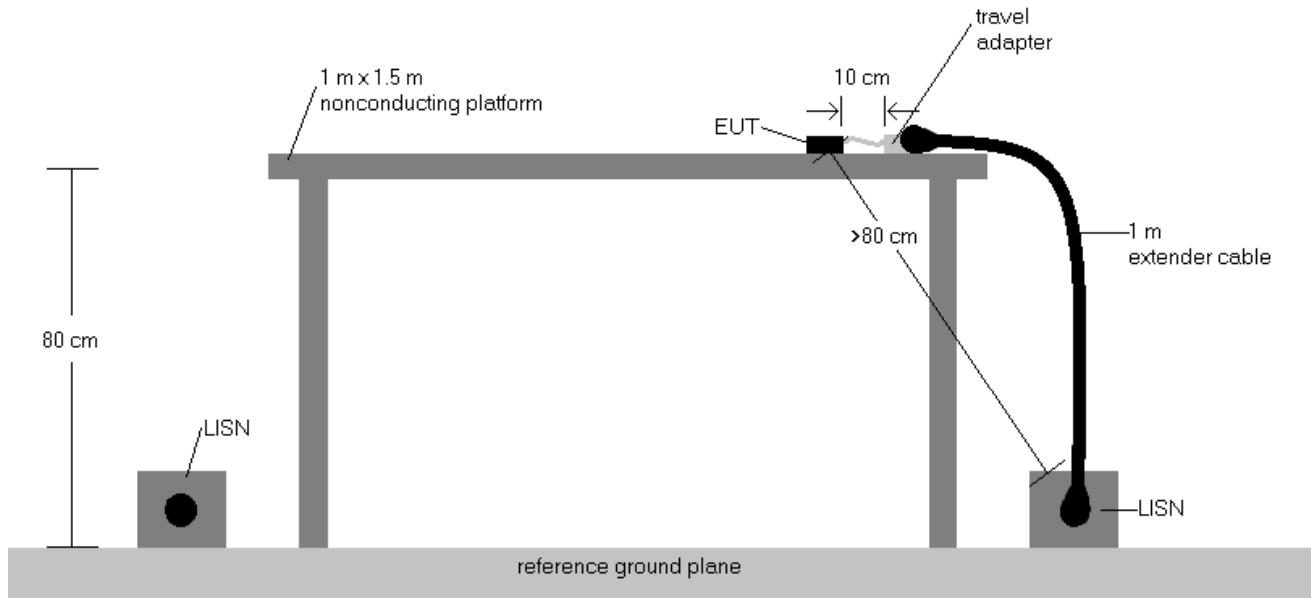
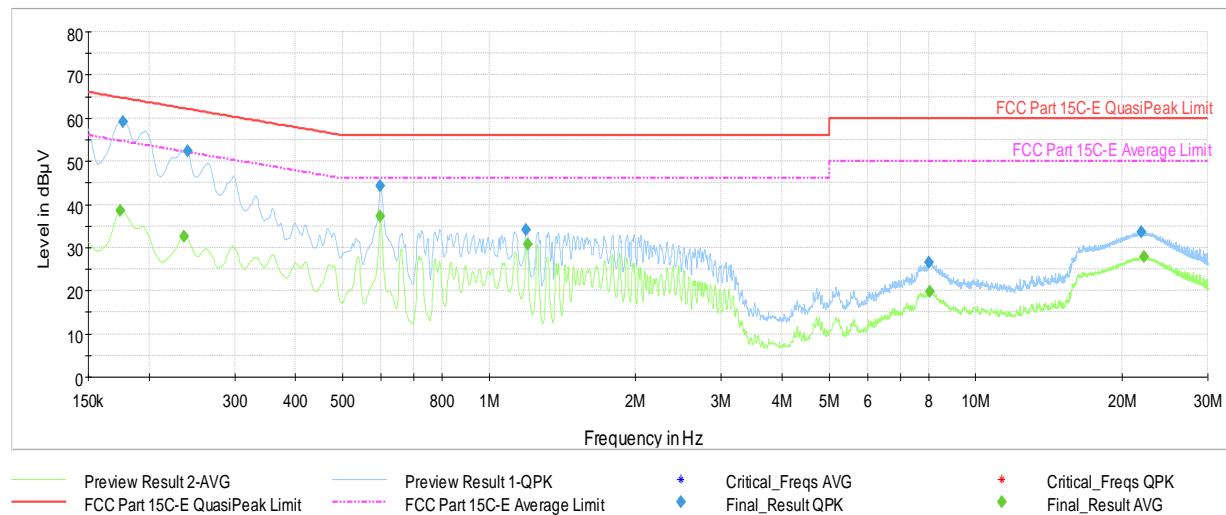


Figure 7-8. Test Instrument & Measurement Setup

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.

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 349 of 354

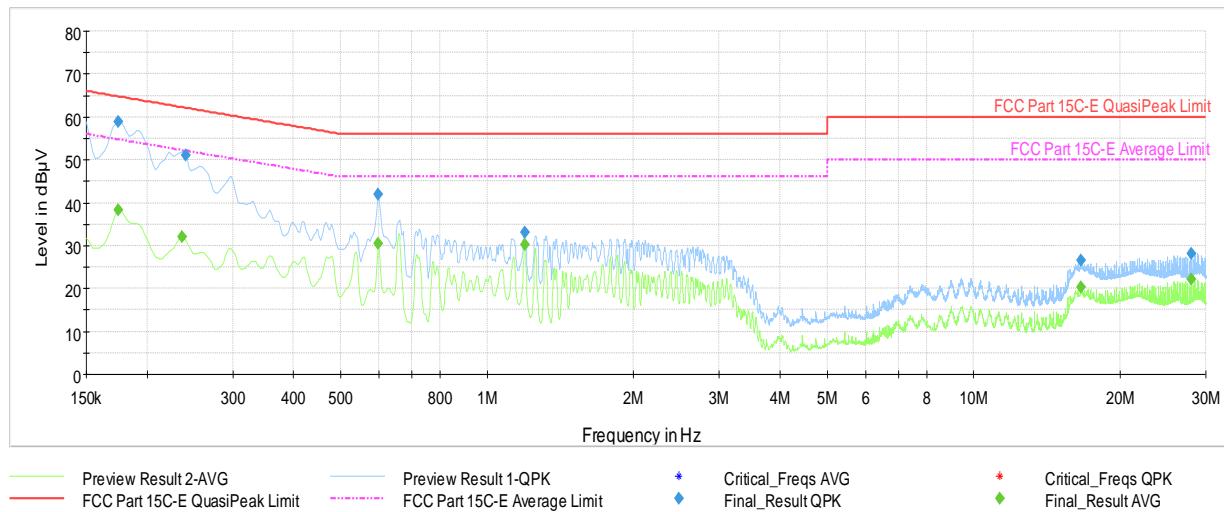


Plot 7-1112. AC Line Conducted Plot with 802.11n CDD – Ch.40 (L1), with laptop

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.175	FINAL	—	38.68	54.73	-16.06	L1	GND
0.177	FINAL	59.0	—	64.63	-5.60	L1	GND
0.236	FINAL	—	32.69	52.25	-19.56	L1	GND
0.240	FINAL	52.4	—	62.10	-9.74	L1	GND
0.598	FINAL	44.4	—	56.00	-11.63	L1	GND
0.598	FINAL	—	37.16	46.00	-8.84	L1	GND
1.192	FINAL	34.3	—	56.00	-21.74	L1	GND
1.199	FINAL	—	30.77	46.00	-15.23	L1	GND
8.007	FINAL	26.5	—	60.00	-33.51	L1	GND
8.063	FINAL	—	19.74	50.00	-30.26	L1	GND
21.926	FINAL	33.7	—	60.00	-26.34	L1	GND
22.223	FINAL	—	27.81	50.00	-22.19	L1	GND

Table 7-196. AC Line Conducted Data with 802.11n CDD – Ch.40 (L1) with laptop

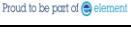
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device			

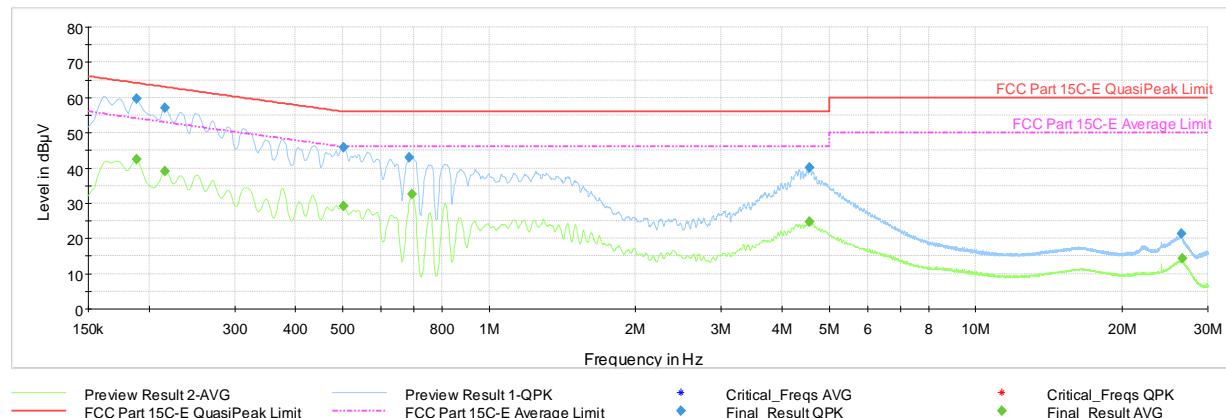


Plot 7-1113. AC Line Conducted Plot with 802.11n CDD – Ch.40 (N), with laptop

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.175	FINAL	58.9	—	64.73	-5.86	N	GND
0.175	FINAL	—	38.27	54.73	-16.46	N	GND
0.236	FINAL	—	32.08	52.25	-20.18	N	GND
0.240	FINAL	51.0	—	62.10	-11.14	N	GND
0.598	FINAL	42.1	—	56.00	-13.94	N	GND
0.598	FINAL	—	30.54	46.00	-15.46	N	GND
1.194	FINAL	33.2	—	56.00	-22.85	N	GND
1.196	FINAL	—	30.17	46.00	-15.83	N	GND
16.593	FINAL	—	20.45	50.00	-29.55	N	GND
16.593	FINAL	26.7	—	60.00	-33.34	N	GND
28.050	FINAL	28.1	—	60.00	-31.91	N	GND
28.050	FINAL	—	22.07	50.00	-27.93	N	GND

Table 7-197. AC Line Conducted Data with 802.11n CDD – Ch.40 (N), with laptop

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 351 of 354	

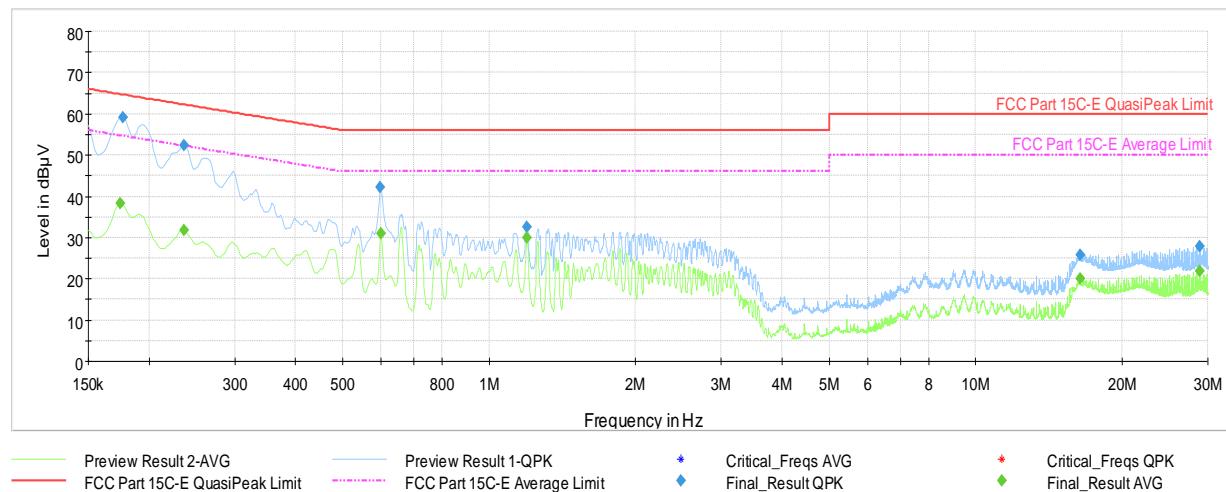


Plot 7-1114. AC Line Conducted Plot with 802.11ax(SU) CDD – Ch.40 (L1), with laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.188	FINAL	59.7	—	64.11	-4.43	L1	GND
0.188	FINAL	—	42.44	54.11	-11.67	L1	GND
0.215	FINAL	57.0	—	63.00	-5.96	L1	GND
0.215	FINAL	—	39.13	53.00	-13.87	L1	GND
0.501	FINAL	45.8	—	56.00	-10.18	L1	GND
0.501	FINAL	—	29.26	46.00	-16.74	L1	GND
0.686	FINAL	43.0	—	56.00	-12.99	L1	GND
0.695	FINAL	—	32.54	46.00	-13.46	L1	GND
4.556	FINAL	—	24.66	46.00	-21.34	L1	GND
4.558	FINAL	40.0	—	56.00	-15.96	L1	GND
26.455	FINAL	21.3	—	60.00	-38.74	L1	GND
26.529	FINAL	—	14.25	50.00	-35.75	L1	GND

Table 7-198. AC Line Conducted Data with 802.11ax(SU) CDD – Ch.40 (L1) with laptop

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device			



Plot 7-1115. AC Line Conducted Plot with 802.11ax(SU) CDD – Ch.40 (N), with laptop

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.175	FINAL	—	38.39	54.73	-16.35	N	GND
0.177	FINAL	59.3	—	64.63	-5.38	N	GND
0.236	FINAL	52.3	—	62.25	-9.99	N	GND
0.236	FINAL	—	31.88	52.25	-20.37	N	GND
0.598	FINAL	42.2	—	56.00	-13.81	N	GND
0.600	FINAL	—	31.07	46.00	-14.93	N	GND
1.194	FINAL	32.6	—	56.00	-23.45	N	GND
1.196	FINAL	—	30.01	46.00	-15.99	N	GND
16.395	FINAL	—	20.00	50.00	-30.00	N	GND
16.395	FINAL	25.9	—	60.00	-34.10	N	GND
28.840	FINAL	27.9	—	60.00	-32.15	N	GND
28.840	FINAL	—	21.84	50.00	-28.16	N	GND

Table 7-199. AC Line Conducted Data with 802.11ax(SU) CDD – Ch.40 (N), with laptop

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 353 of 354	

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device**

FCC ID: BCGA2301 and IC: 579C-A2301 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: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 354 of 354