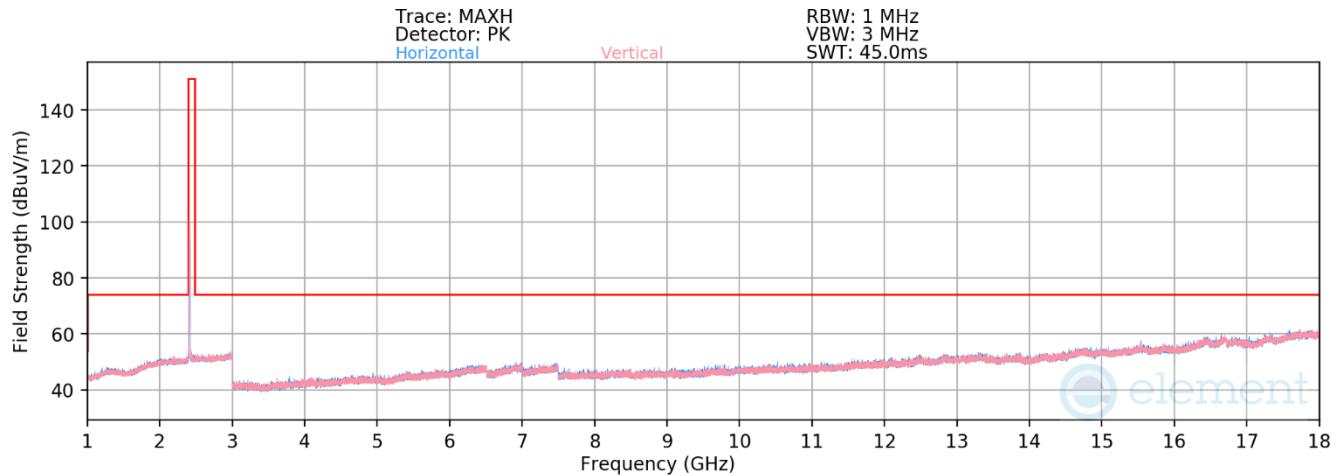


7.7.1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-52. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 1)

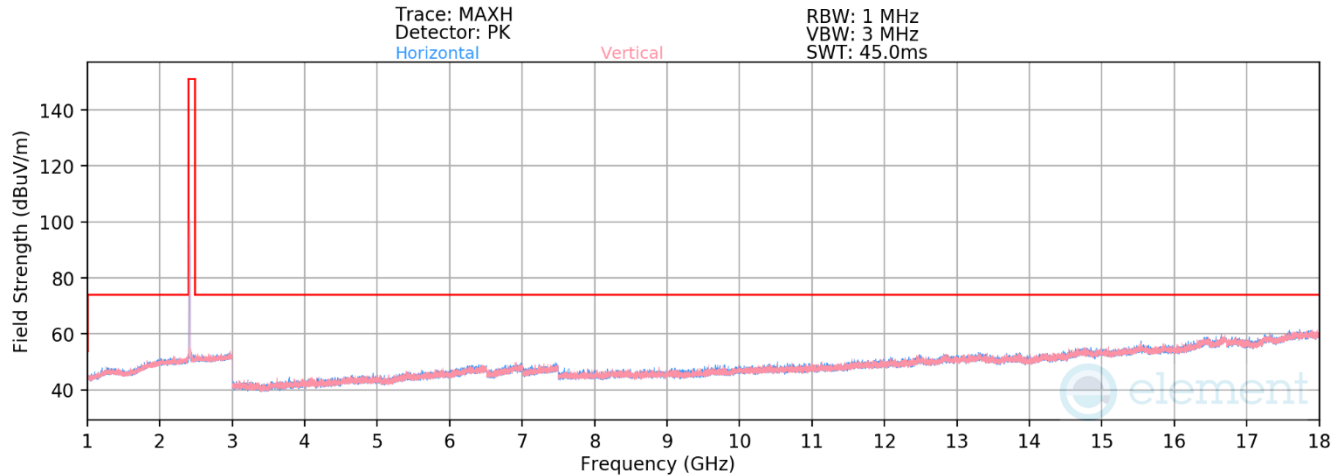
Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.51	5.97	32.46	53.98	-21.52
4824.00	Peak	V	-	-	-68.80	5.97	44.17	73.98	-29.81
12060.00	Avg	V	-	-	-84.19	14.72	37.53	53.98	-16.45
12060.00	Peak	V	-	-	-74.71	14.72	47.01	73.98	-26.97

Table 7-7. Radiated Measurements

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 54 of 74

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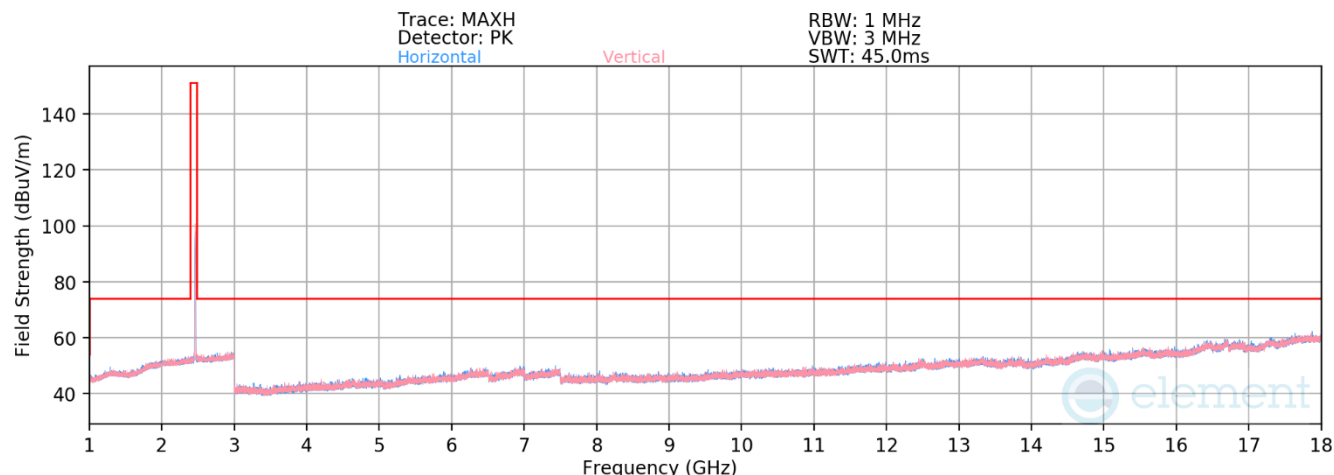
Plot 7-53. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 6)

Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4874.00	Avg	V	158	324	-80.10	6.24	33.14	53.98	-20.84
4874.00	Peak	V	158	324	-69.02	6.24	44.22	73.98	-29.76
7311.00	Avg	V	-	-	-81.04	10.04	36.00	53.98	-17.98
7311.00	Peak	V	-	-	-69.85	10.04	47.19	73.98	-26.79
12185.00	Avg	V	-	-	-84.55	14.99	37.44	53.98	-16.54
12185.00	Peak	V	-	-	-74.08	14.99	47.91	73.98	-26.07

Table 7-8. Radiated Measurements

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 55 of 74



Plot 7-54. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 11)

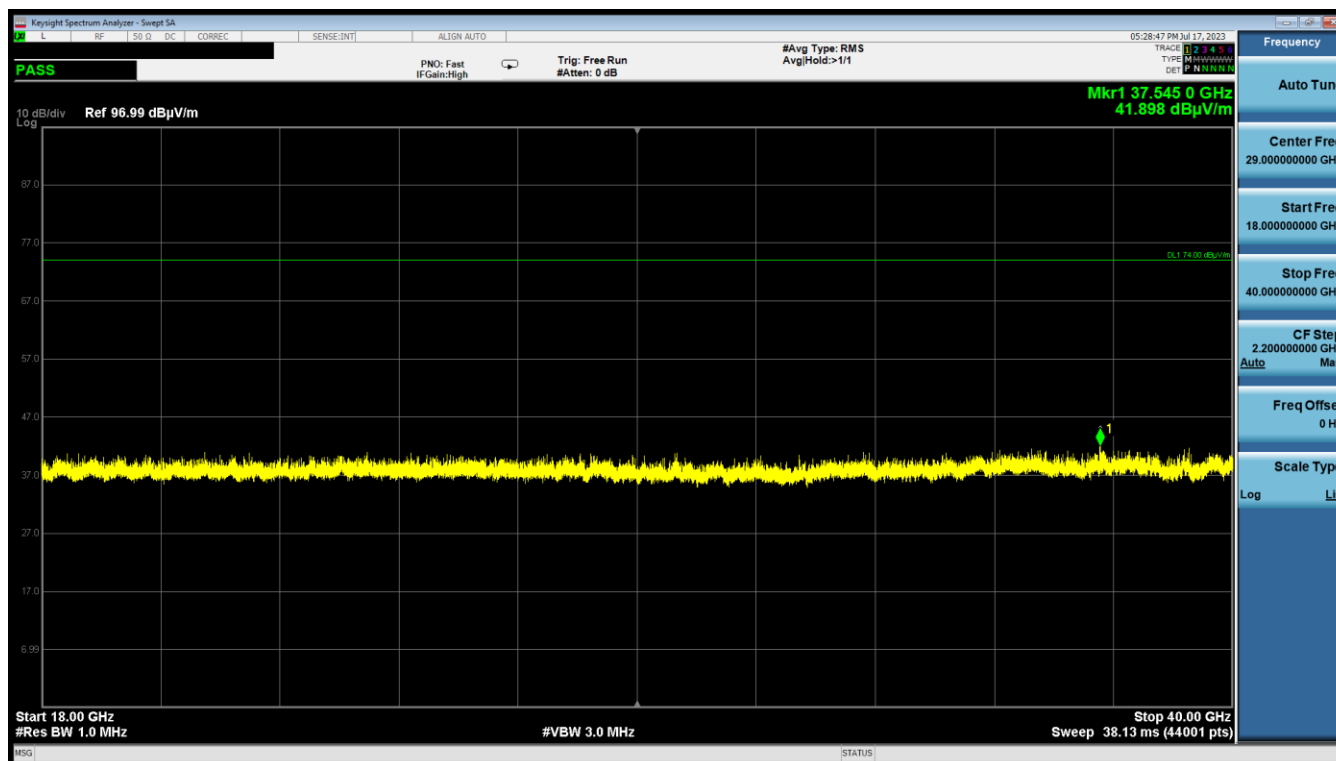
Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

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]
4924.00	Avg	V	-	-	-80.66	6.44	32.78	53.98	-21.20
4924.00	Peak	V	-	-	-69.36	6.44	44.08	73.98	-29.90
7386.00	Avg	V	-	-	-80.87	9.99	36.12	53.98	-17.86
7386.00	Peak	V	-	-	-68.86	9.99	48.13	73.98	-25.85
12310.00	Avg	V	-	-	-84.67	15.20	37.53	53.98	-16.45
12310.00	Peak	V	-	-	-73.70	15.20	48.50	73.98	-25.48

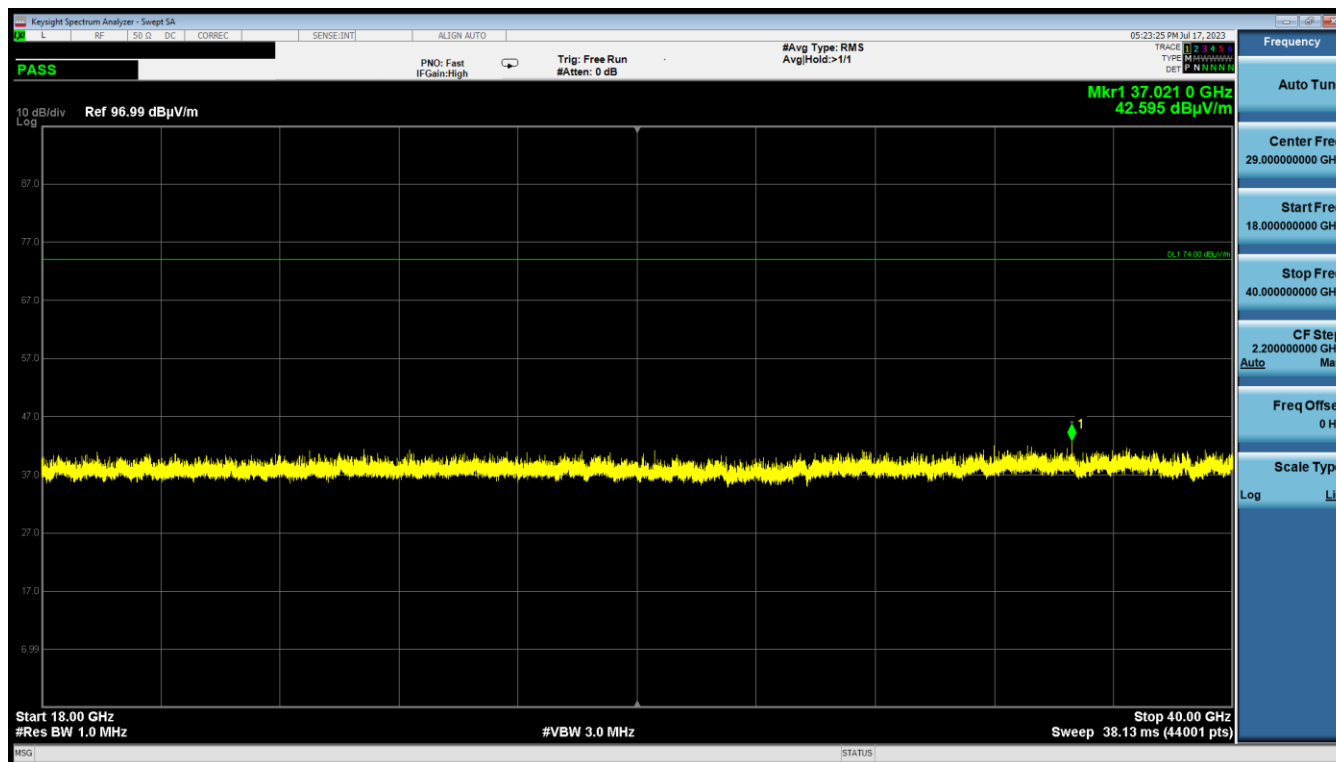
Table 7-9. Radiated Measurements

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 56 of 74

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Plot 7-55. Radiated Spurious Emissions Above 18GHz (802.11b – Ch. 11 Pol H)



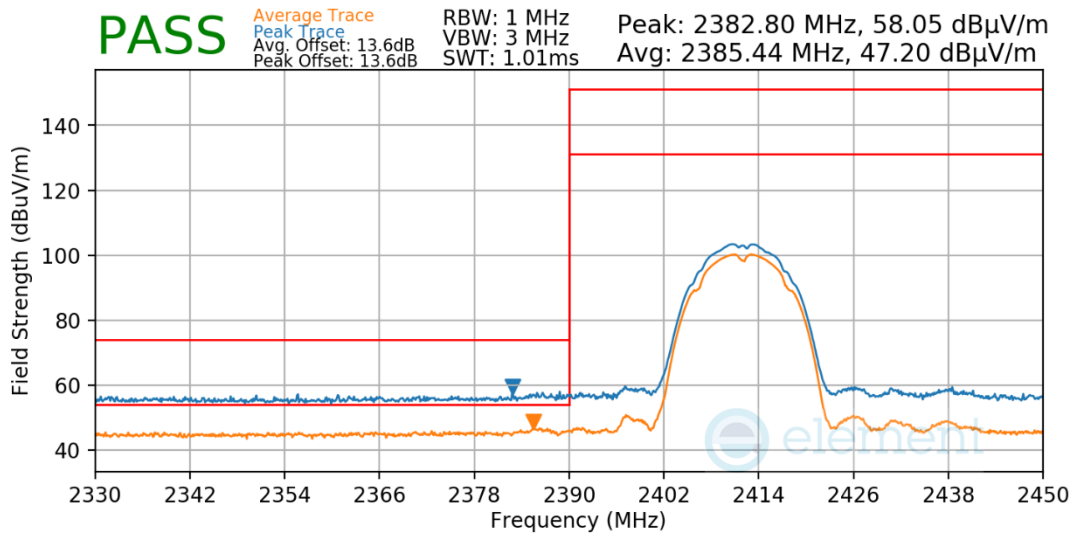
Plot 7-56. Radiated Spurious Emissions Above 18GHz (802.11b – Ch. 11 Pol V)

FCC ID: BCG-A2980 IC: 579C-A2980	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 57 of 74

7.7.2 Radiated Restricted Band Edge Measurements

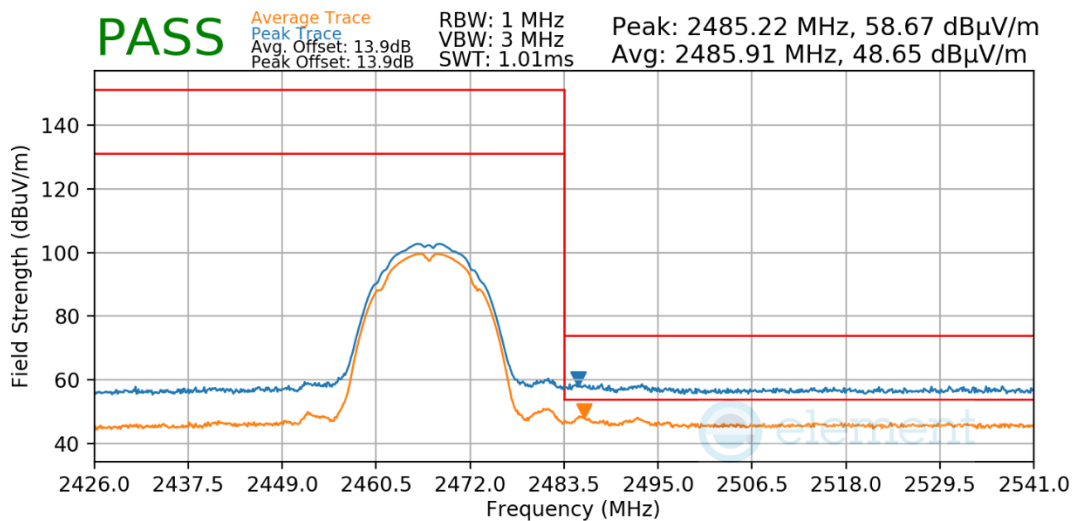
§15.205 §15.209; RSS-Gen [8.9]

Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-57. Radiated Restricted Lower Band Edge Measurement

Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12

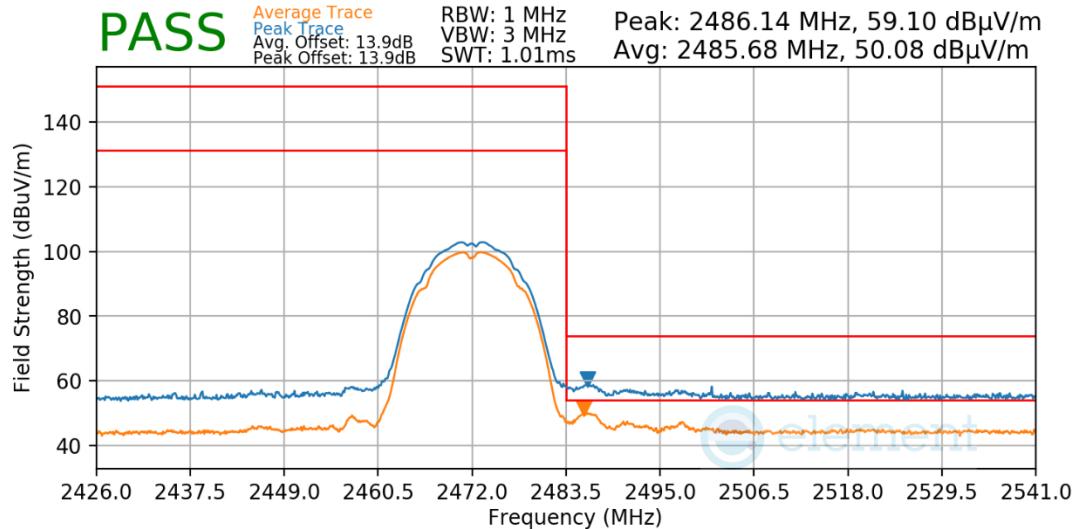


Plot 7-58. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 58 of 74

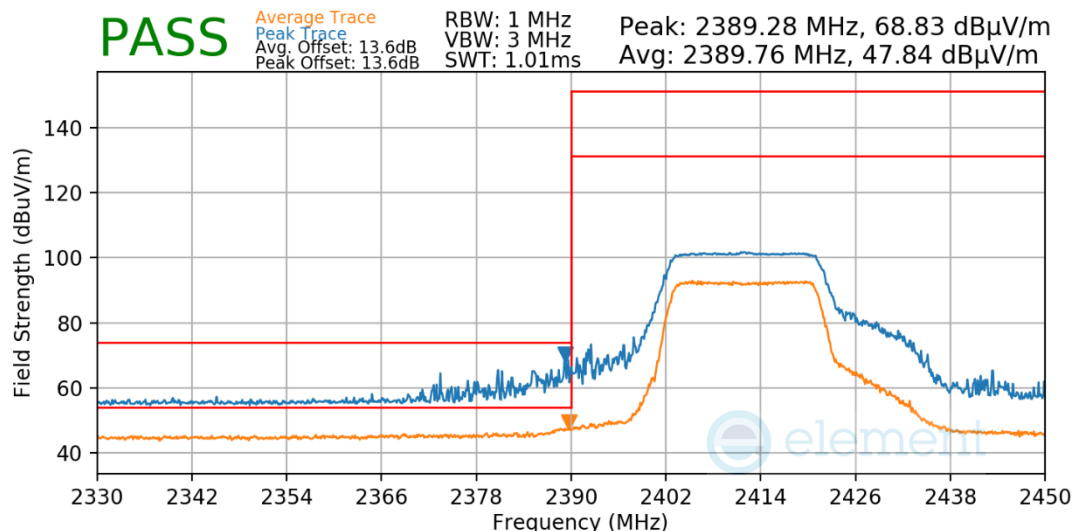
V 10.5 12/15/2021

Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-59. Radiated Restricted Upper Band Edge Measurement

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

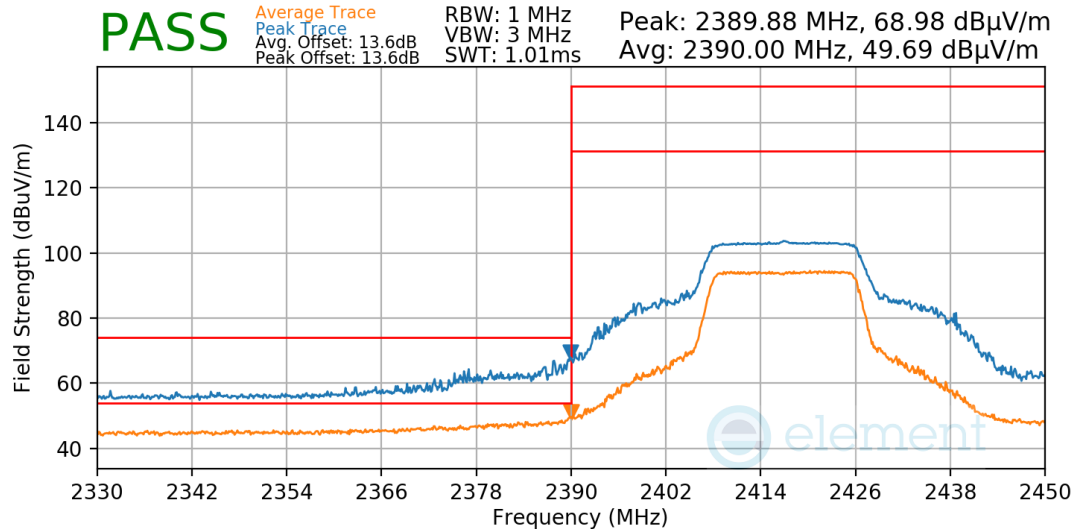


Plot 7-60. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 59 of 74

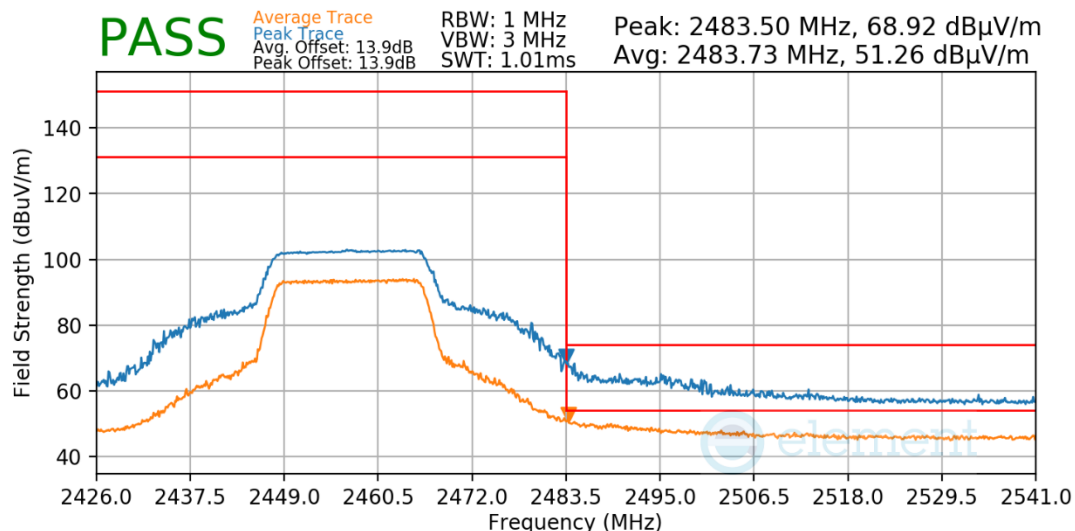
V 10.5 12/15/2021

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-61. Radiated Restricted Lower Band Edge Measurement

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10

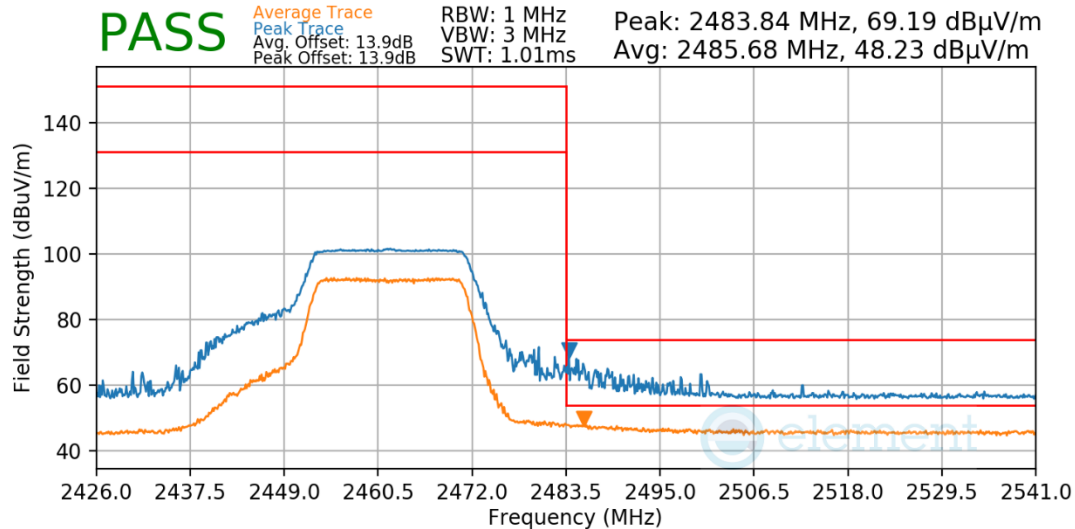


Plot 7-62. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 60 of 74

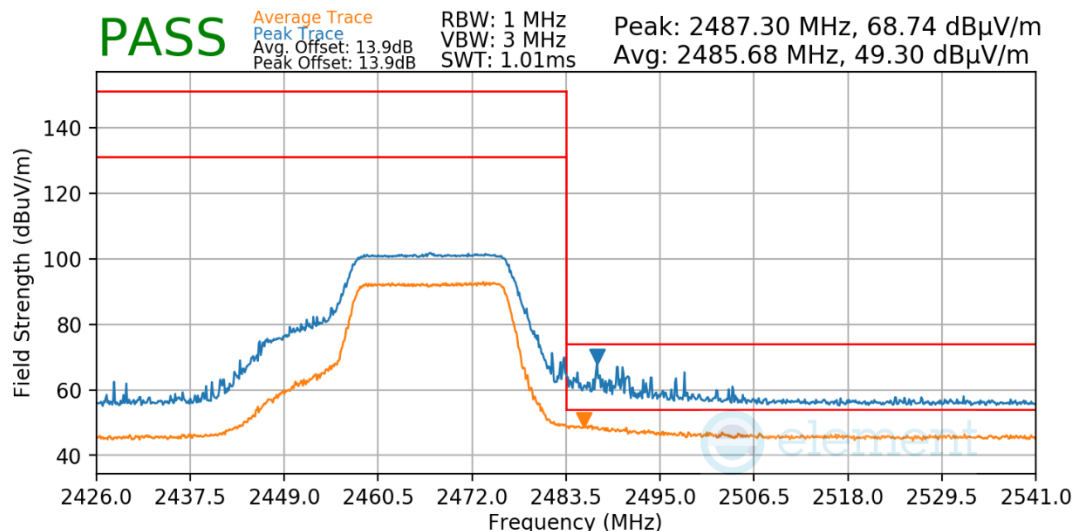
V 10.5 12/15/2021

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-63. Radiated Restricted Upper Band Edge Measurement

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12

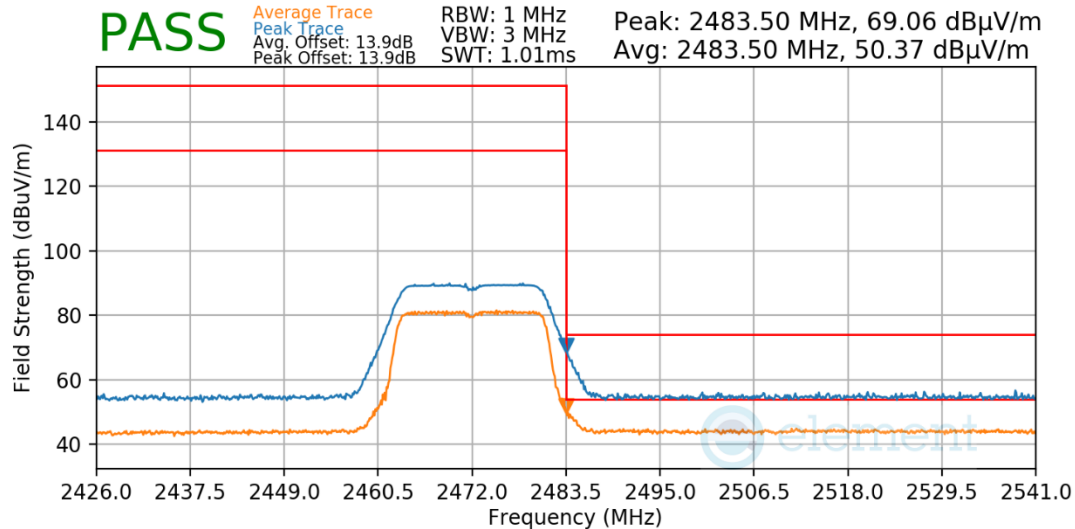


Plot 7-64. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 61 of 74

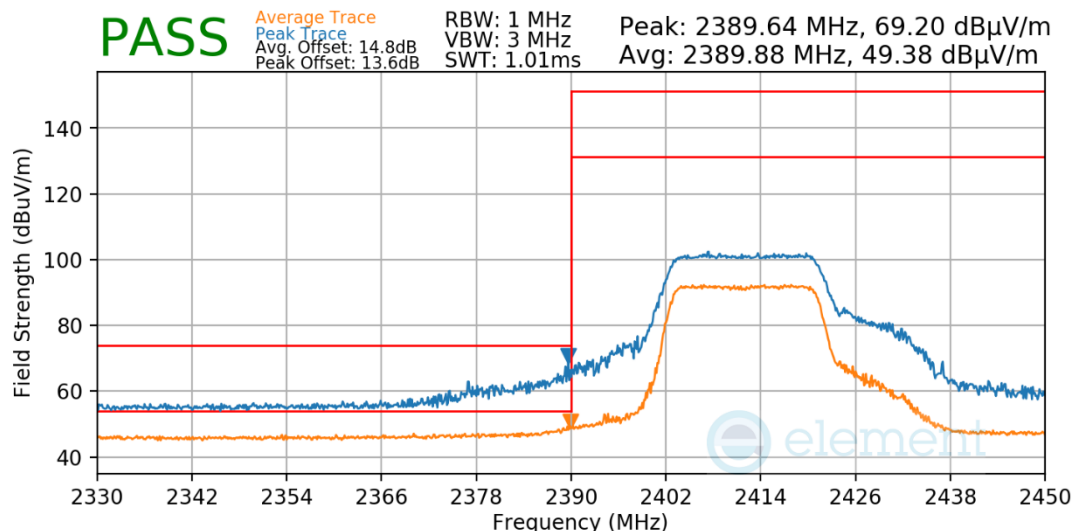
V 10.5 12/15/2021

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-65. Radiated Restricted Upper Band Edge Measurement

Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

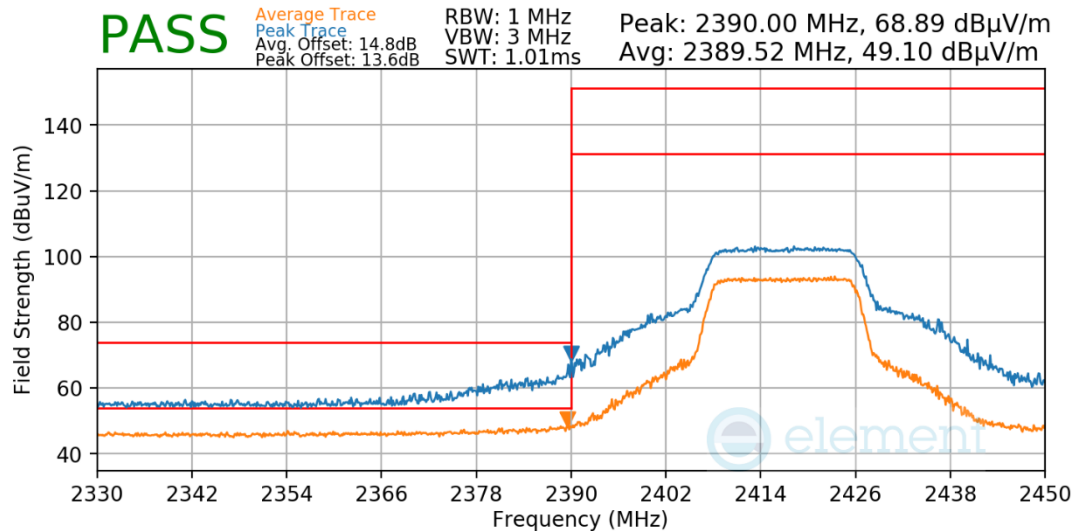


Plot 7-66. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 62 of 74

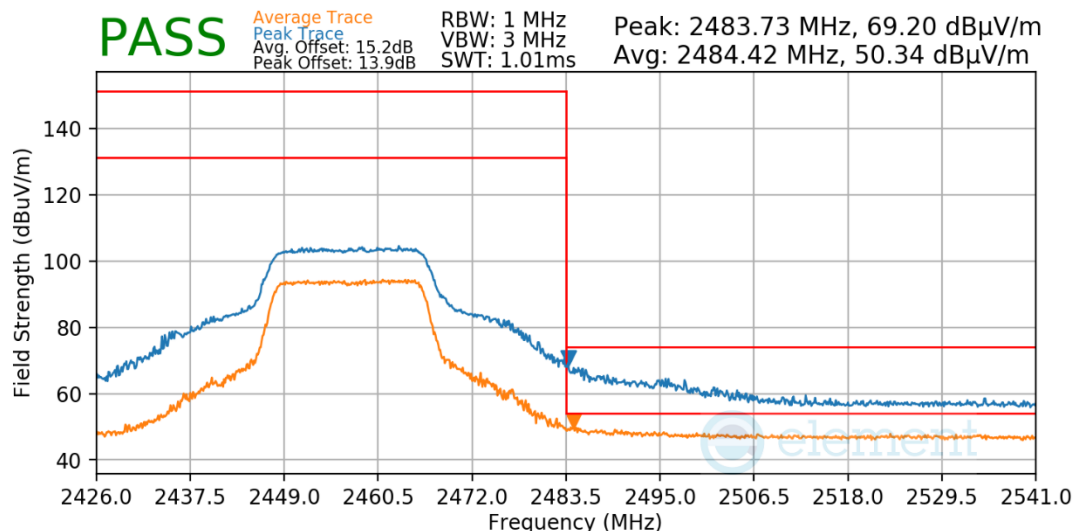
V 10.5 12/15/2021

Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-67. Radiated Restricted Lower Band Edge Measurement

Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10

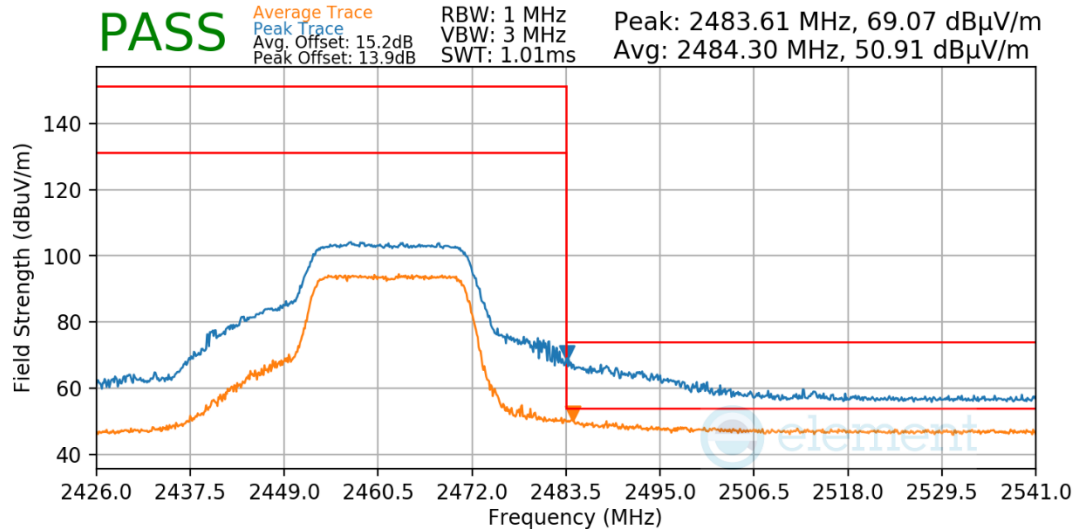


Plot 7-68. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 63 of 74

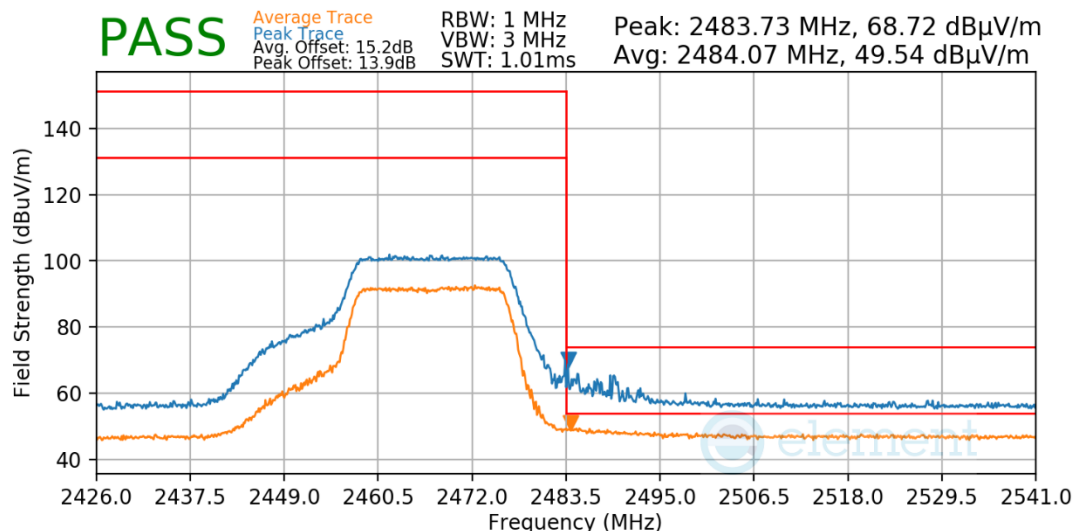
V 10.5 12/15/2021

Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-69. Radiated Restricted Upper Band Edge Measurement

Mode: 802.11n
Data Rate: MCS7
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12

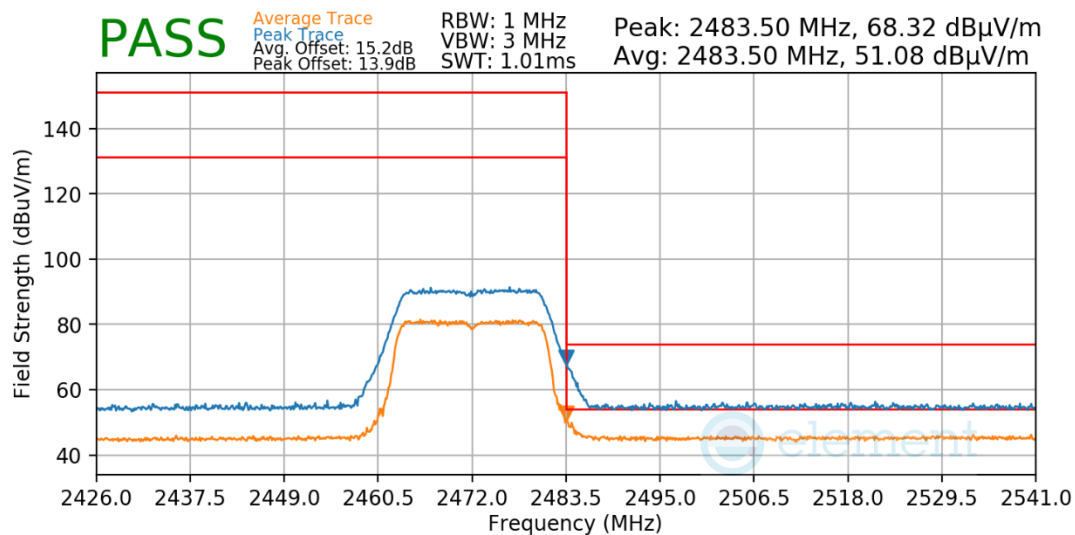


Plot 7-70. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 64 of 74

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Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-71. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2980 IC: 579C-A2980	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 65 of 74

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7.8 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 7-10 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 7-10. 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

FCC ID: BCG-A2980 IC: 579C-A2980		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 diagrams below.

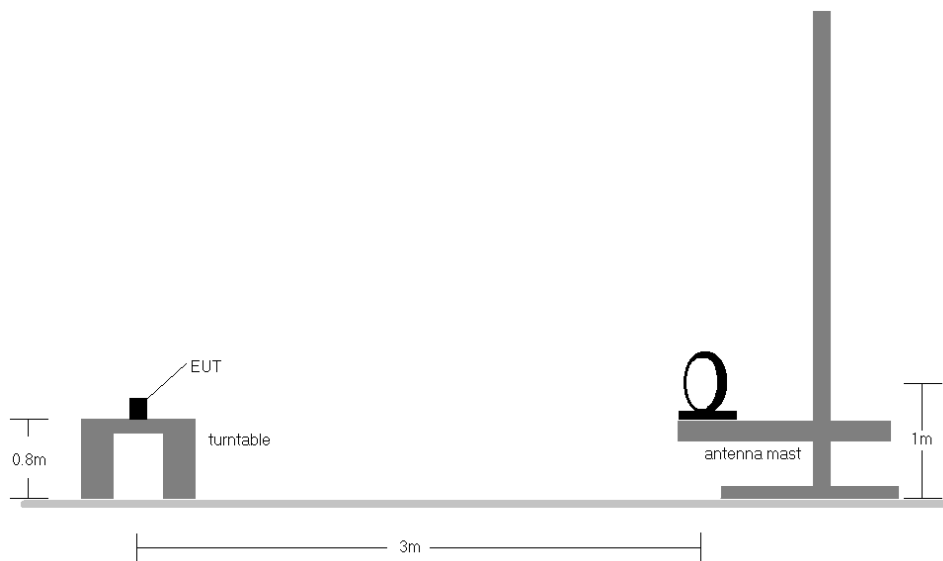


Figure 7-7. Radiated Test Setup < 30Mhz

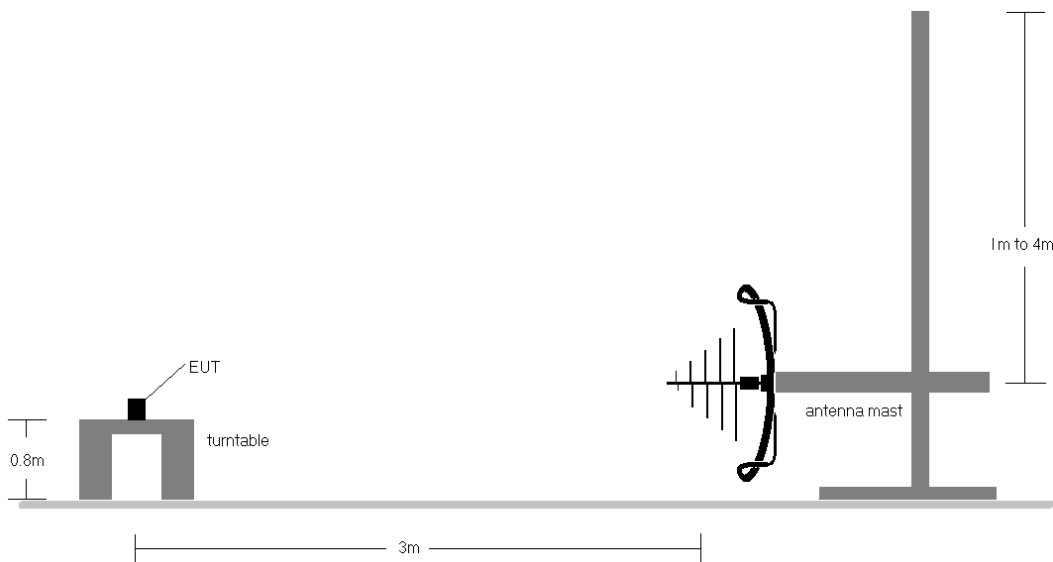


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCG-A2980 IC: 579C-A2980	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 67 of 74

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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 7-10.
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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with magnetic charger
 - b. EUT powered by host PC via USB-C cable with magnetic charger
9. 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.
10. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

Determining Spurious Emissions Levels

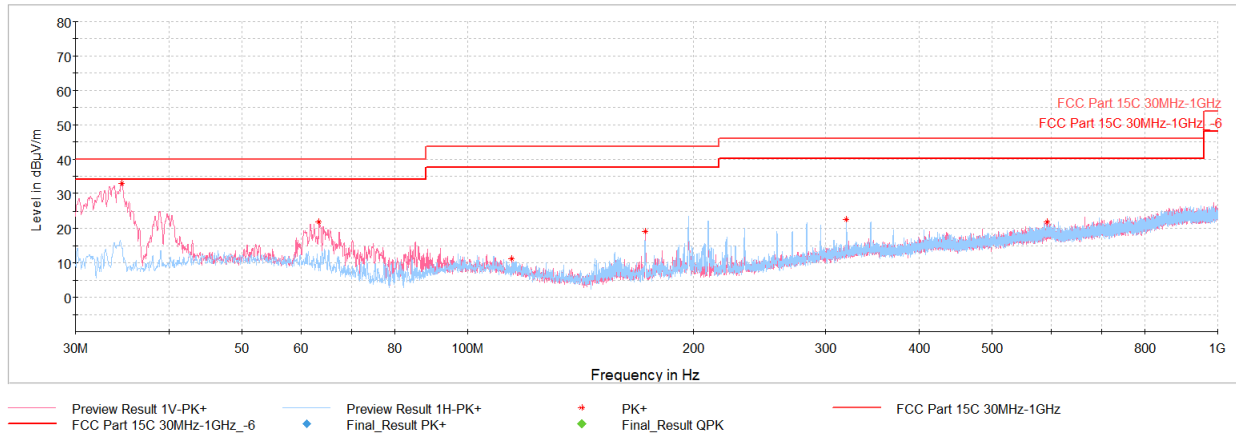
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu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

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2305110022-03.BCG	Test Dates: 6/7/2023 - 8/4/2023	EUT Type: Watch	Page 68 of 74

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-72. Radiated Spurious Emissions below 1GHz 11b Ch.11, with AC/DC Adapter and Magnetic Charger

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]
34.61	Max Peak	V	100	50	-59.38	-14.66	32.96	40.00	-7.04
63.42	Max Peak	V	200	0	-71.34	-13.82	21.84	40.00	-18.16
114.54	Max Peak	V	100	87	-81.87	-13.96	11.17	43.52	-32.35
172.30	Max Peak	V	100	337	-72.64	-15.17	19.19	43.52	-24.33
319.74	Max Peak	H	100	291	-74.82	-9.56	22.62	46.02	-23.40
592.26	Max Peak	V	100	228	-81.18	-3.81	22.01	46.02	-24.01

Table 7-11. Radiated Spurious Emissions below 1GHz 11b Ch.11, AC/DC Adapter and Magnetic Charger

FCC ID: BCG-A2980 IC: 579C-A2980		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.9 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. 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 7-12. 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: BCG-A2980 IC: 579C-A2980	 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.

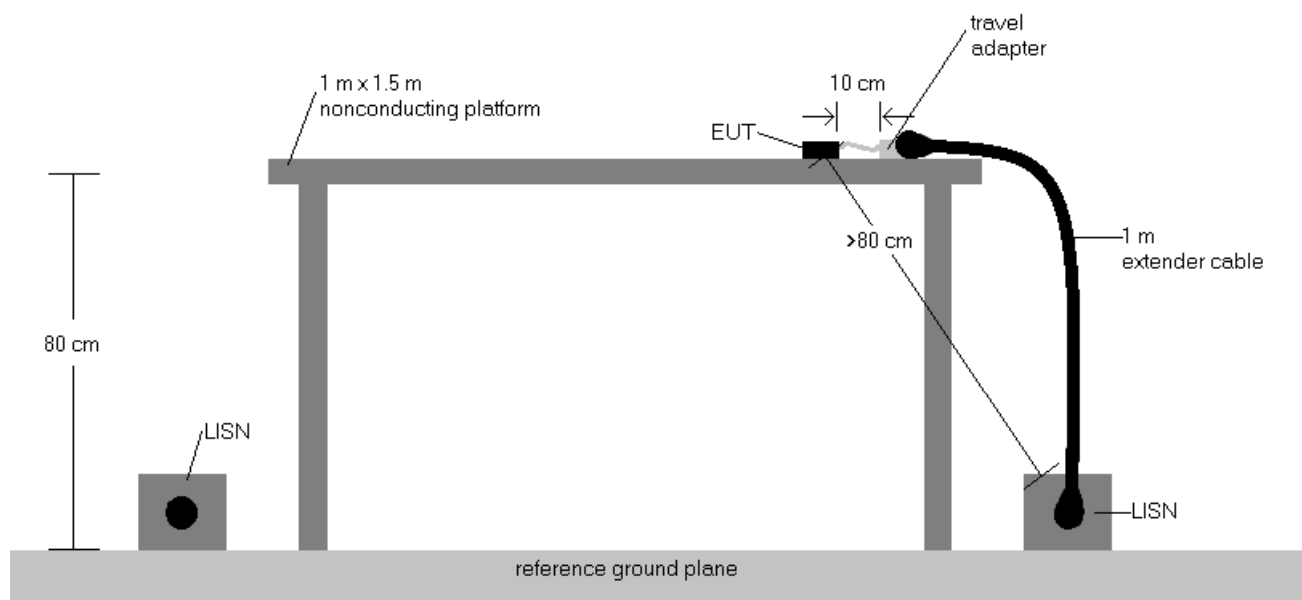


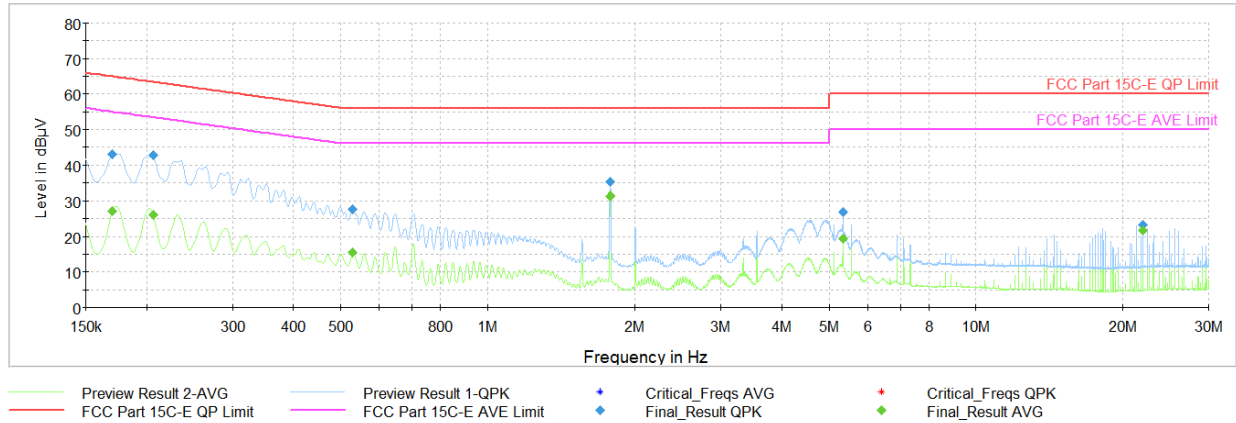
Figure 7-9. Test Instrument & Measurement Setup

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 magnetic charger
 - EUT powered by host PC via USB-C cable with magnetic charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using quasi peak and average detectors.
- Deviations to the Specifications: None.

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Plot 7-73. AC Line Conducted Plot 802.11b - Ch.11 (L1, with AC/DC adapter and Magnetic charger)

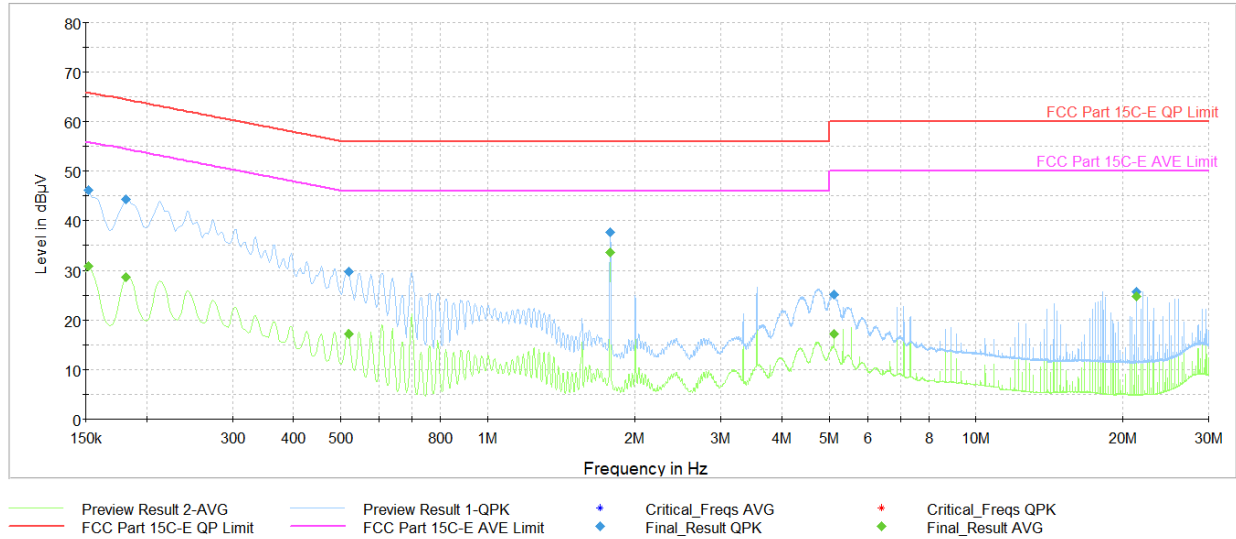
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.170	FINAL	—	27.14	54.95	-27.81	L1	GND
0.170	FINAL	43.0	—	64.95	-21.96	L1	GND
0.206	FINAL	—	26.14	53.36	-27.22	L1	GND
0.206	FINAL	42.6	—	63.36	-20.73	L1	GND
0.528	FINAL	—	15.50	46.00	-30.50	L1	GND
0.528	FINAL	27.8	—	56.00	-28.17	L1	GND
1.777	FINAL	35.2	—	56.00	-20.84	L1	GND
1.777	FINAL	—	31.35	46.00	-14.65	L1	GND
5.334	FINAL	26.9	—	60.00	-33.13	L1	GND
5.334	FINAL	—	19.31	50.00	-30.69	L1	GND
22.000	FINAL	—	21.87	50.00	-28.13	L1	GND
22.000	FINAL	23.3	—	60.00	-36.66	L1	GND

Table 7-13. AC Line Conducted Data 802.11b - Ch.11 (L1, with AC/DC adapter and Magnetic charger)

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Plot 7-74. AC Line Conducted Plot 802.11b - Ch.11 (N, with AC/DC adapter and Magnetic charger)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.152	FINAL	—	30.99	55.88	-24.88	N	GND
0.152	FINAL	46.1	—	65.88	-19.82	N	GND
0.182	FINAL	—	28.66	54.42	-25.76	N	GND
0.182	FINAL	44.3	—	64.42	-20.16	N	GND
0.519	FINAL	29.9	—	56.00	-26.14	N	GND
0.519	FINAL	—	17.27	46.00	-28.73	N	GND
1.777	FINAL	37.5	—	56.00	-18.50	N	GND
1.777	FINAL	—	33.65	46.00	-12.35	N	GND
5.111	FINAL	—	17.13	50.00	-32.87	N	GND
5.120	FINAL	25.1	—	60.00	-34.88	N	GND
21.334	FINAL	—	24.79	50.00	-25.21	N	GND
21.334	FINAL	25.8	—	60.00	-34.22	N	GND

Table 7-14. AC Line Conducted Data 802.11b - Ch.11 (N, with AC/DC adapter and Magnetic charger)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2980, IC: 579C-A2980** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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