

Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

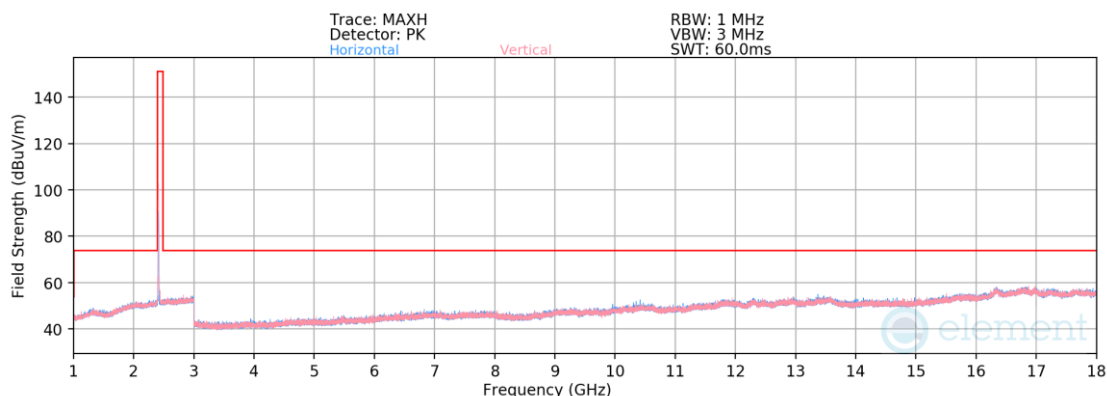
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.2 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.7.1 Radiated Spurious Emission Measurements

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



Plot 7-56. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 1)

Mode: 802.11b

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

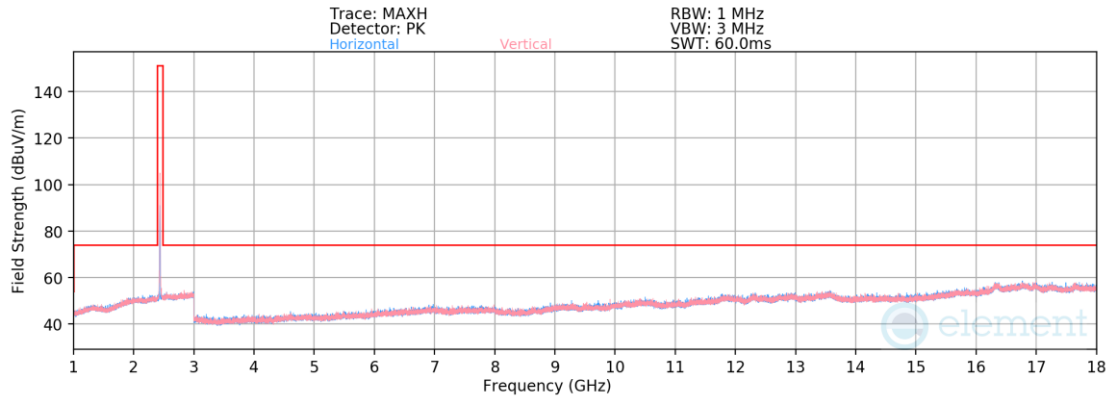
Channel: 01

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	-	-	-80.75	7.66	33.91	53.98	-20.07
4824.00	Peak	V	-	-	-69.18	7.66	45.48	73.98	-28.50
12060.00	Avg	V	-	-	-83.08	17.17	41.09	53.98	-12.89
12060.00	Peak	V	-	-	-71.74	17.17	52.43	73.98	-21.55

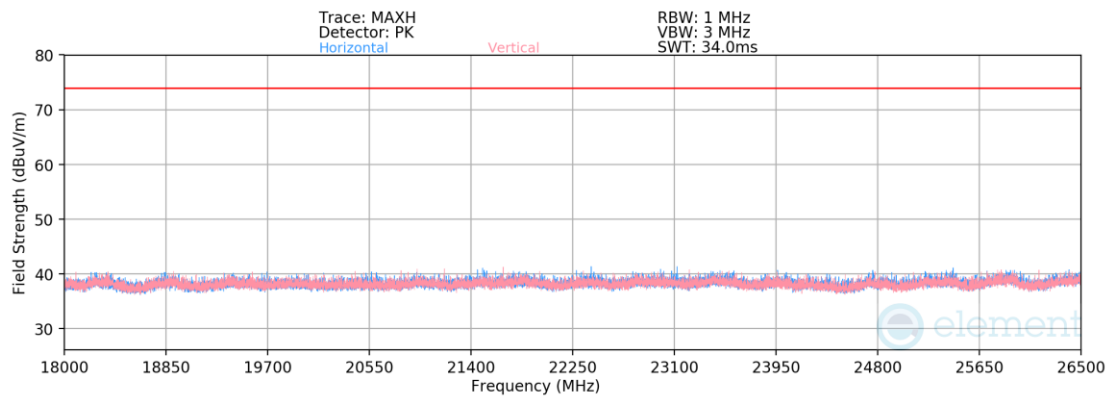
Table 7-7. Radiated Measurements

FCC ID: BCG-A3003 IC: 579C-A3003		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-57. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 6)



Plot 7-58. Radiated Spurious Emissions Above 18GHz (802.11b – Ch. 6)

Mode: 802.11b

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

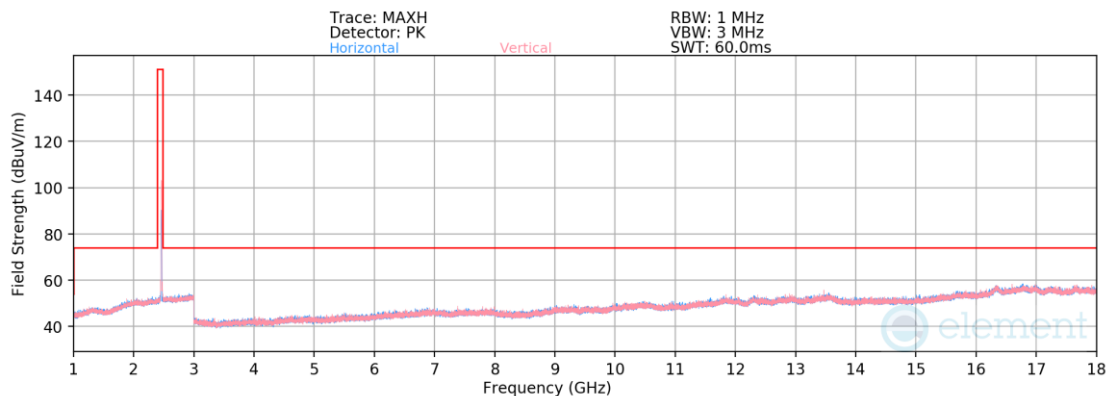
Channel: 06

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	-	-	-80.68	7.48	33.80	53.98	-20.18
4874.00	Peak	V	-	-	-69.04	7.48	45.44	73.98	-28.54
7311.00	Avg	V	-	-	-81.82	10.87	36.05	53.98	-17.93
7311.00	Peak	V	-	-	-70.70	10.87	47.17	73.98	-26.81
12185.00	Avg	V	-	-	-83.30	16.53	40.23	53.98	-13.75
12185.00	Peak	V	-	-	-71.68	16.53	51.85	73.98	-22.13

Table 7-8. Radiated Measurements

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Plot 7-59. 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	-	-	-80.72	7.54	33.82	53.98	-20.16
4924.00	Peak	V	-	-	-69.07	7.54	45.47	73.98	-28.51
7386.00	Avg	V	-	-	-81.28	11.00	36.72	53.98	-17.26
7386.00	Peak	V	-	-	-70.00	11.00	48.00	73.98	-25.98
12310.00	Avg	V	-	-	-83.61	17.79	41.18	53.98	-12.80
12310.00	Peak	V	-	-	-71.45	17.79	53.34	73.98	-20.64

Table 7-9. Radiated Measurements

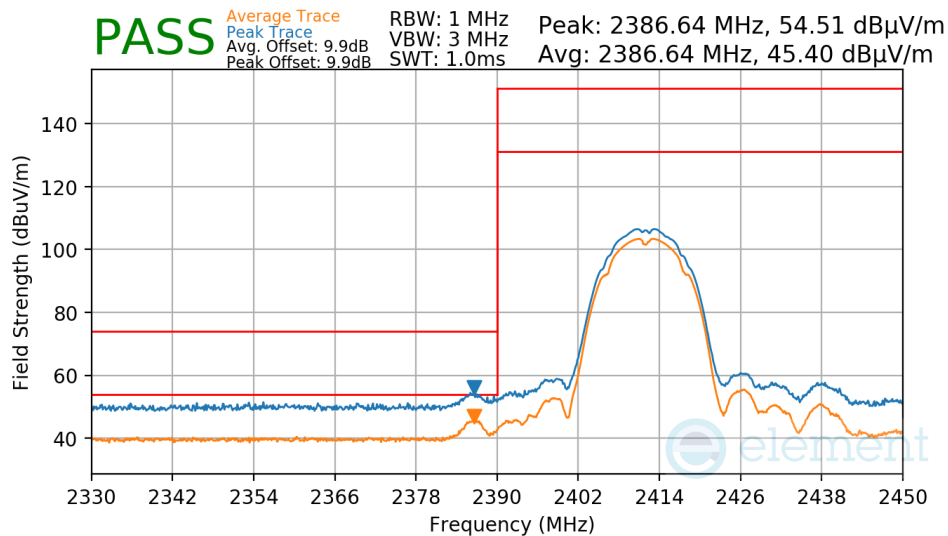
FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.2 Radiated Restricted Band Edge Measurements

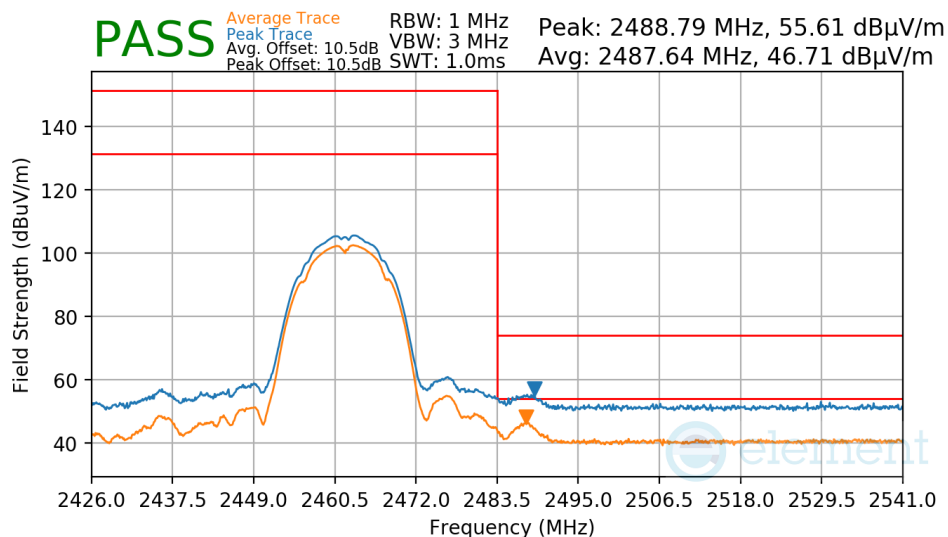
§15.205 §15.209; RSS-Gen [8.9]

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



Plot 7-60. Radiated Restricted Lower Band Edge Measurement

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

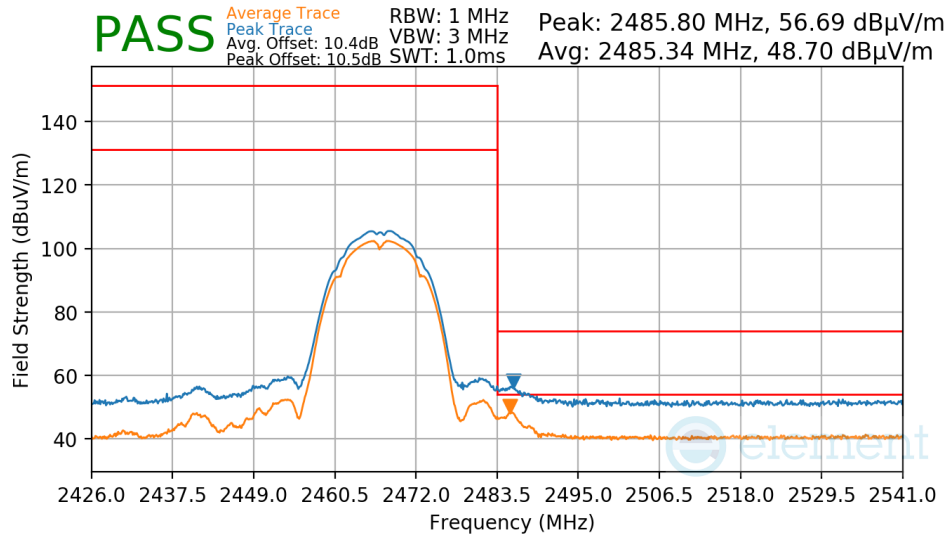


Plot 7-61. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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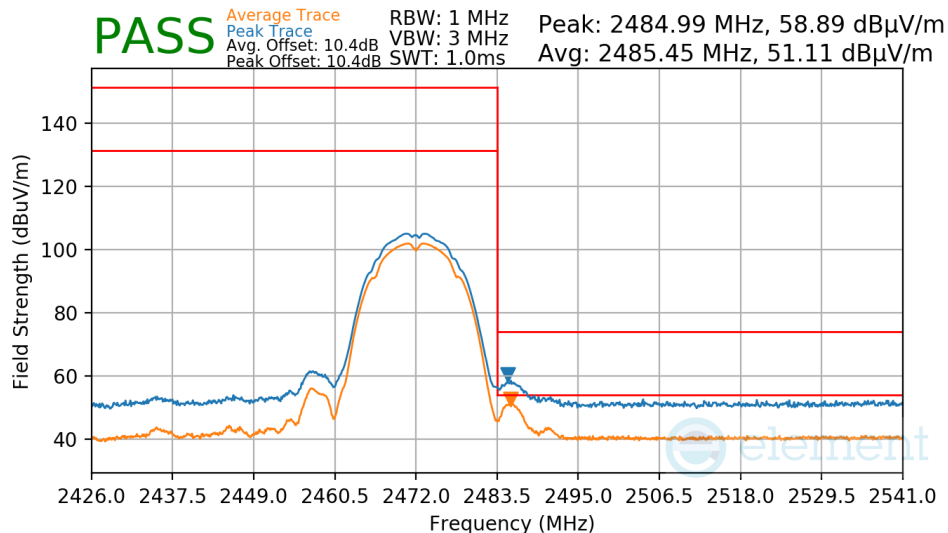
V 10.6 09/01/2023

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



Plot 7-62. Radiated Restricted Upper Band Edge Measurement

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

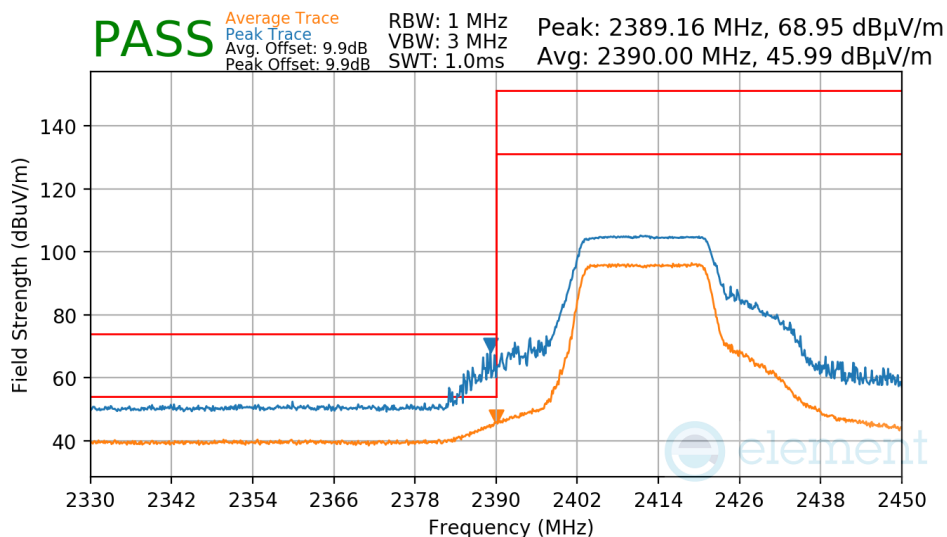


Plot 7-63. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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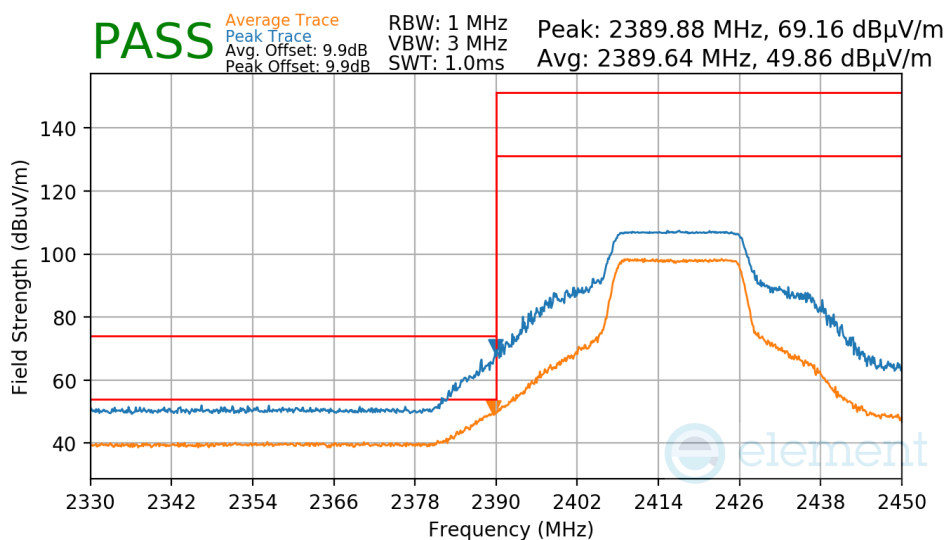
V 10.6 09/01/2023

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



Plot 7-64. Radiated Restricted Lower Band Edge Measurement

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

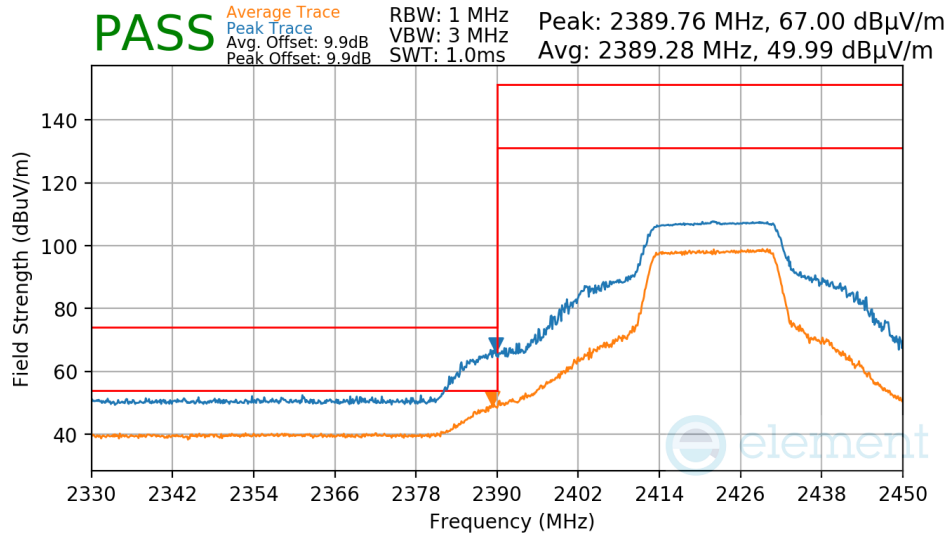


Plot 7-65. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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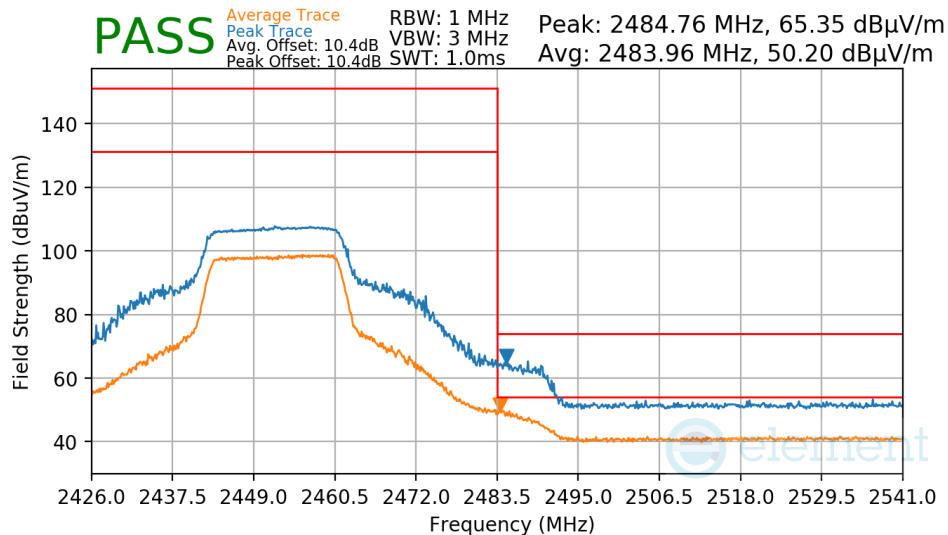
V 10.6 09/01/2023

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-66. Radiated Restricted Lower Band Edge Measurement

Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 9

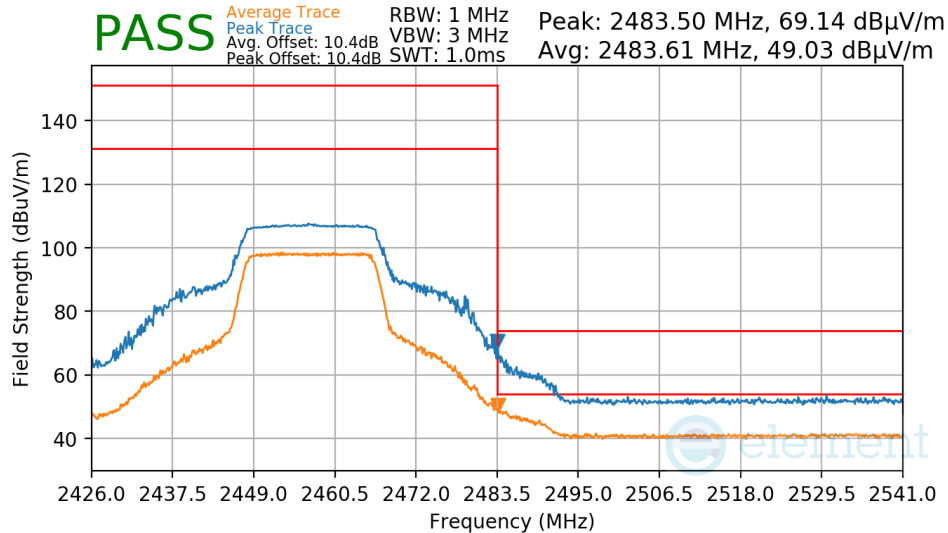


Plot 7-67. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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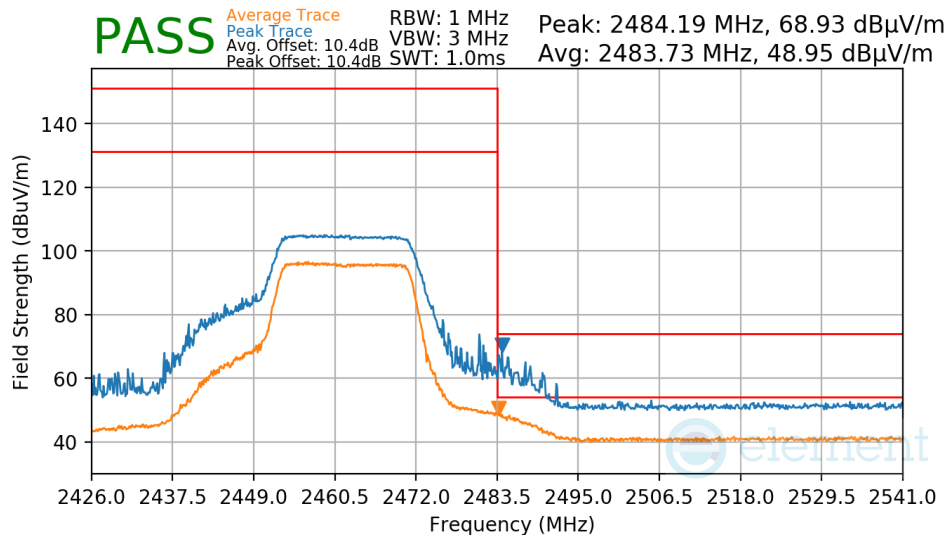
V 10.6 09/01/2023

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



Plot 7-68. Radiated Restricted Upper Band Edge Measurement

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

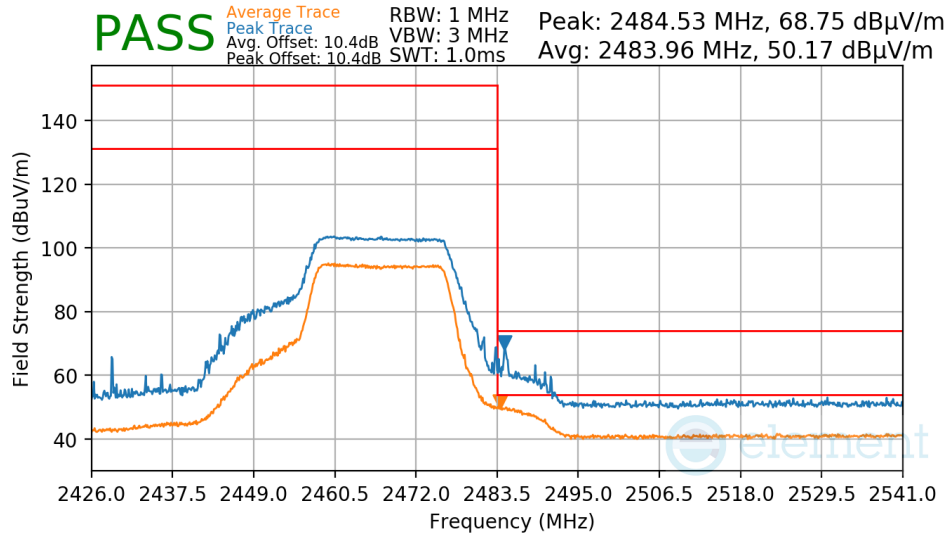


Plot 7-69. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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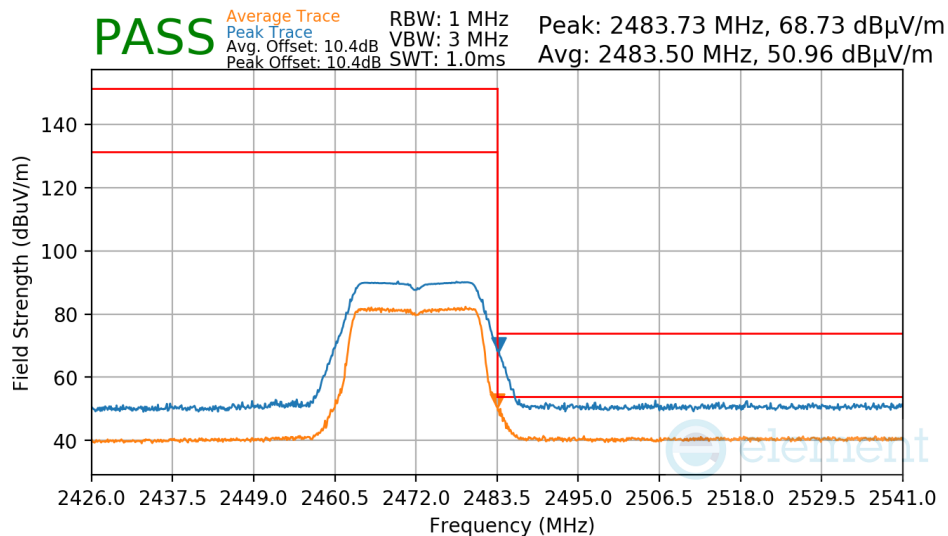
V 10.6 09/01/2023

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



Plot 7-70. Radiated Restricted Upper Band Edge Measurement

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

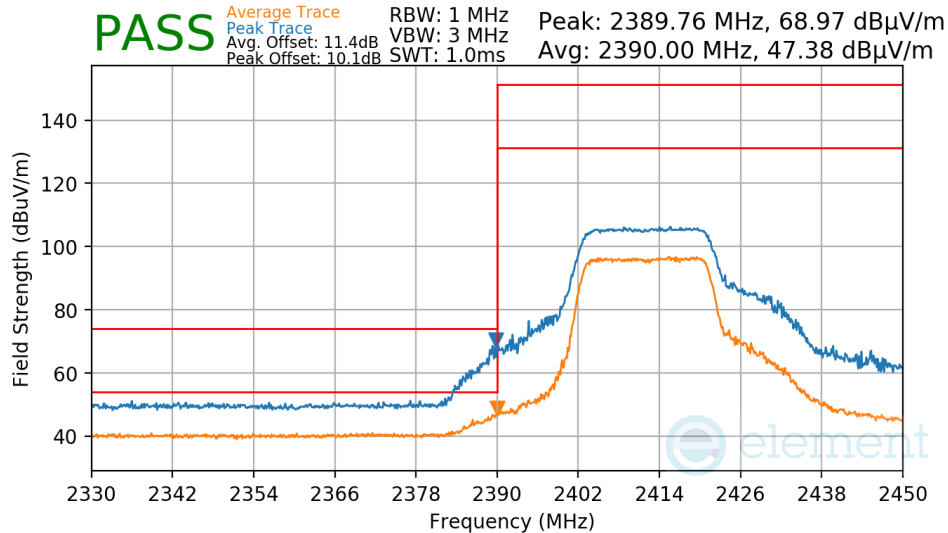


Plot 7-71. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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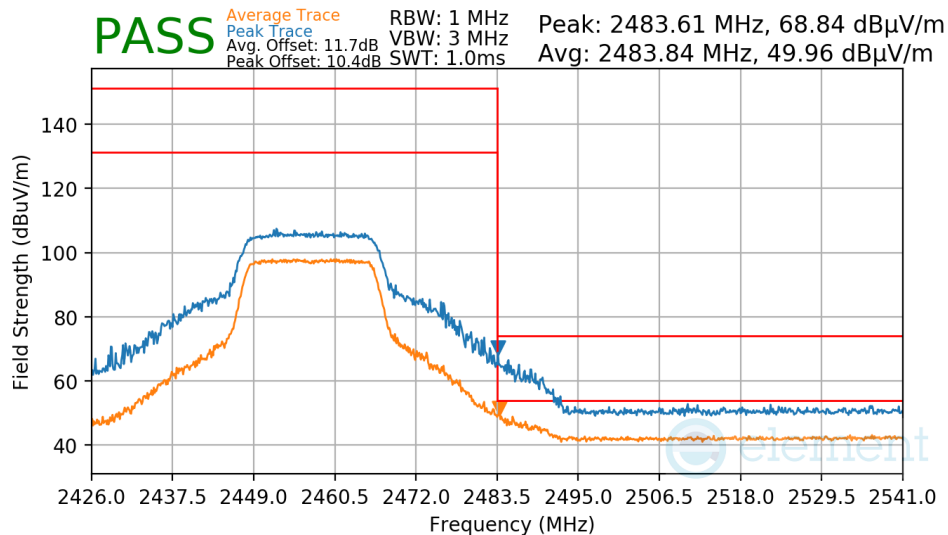
V 10.6 09/01/2023

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



Plot 7-72. Radiated Restricted Lower Band Edge Measurement

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

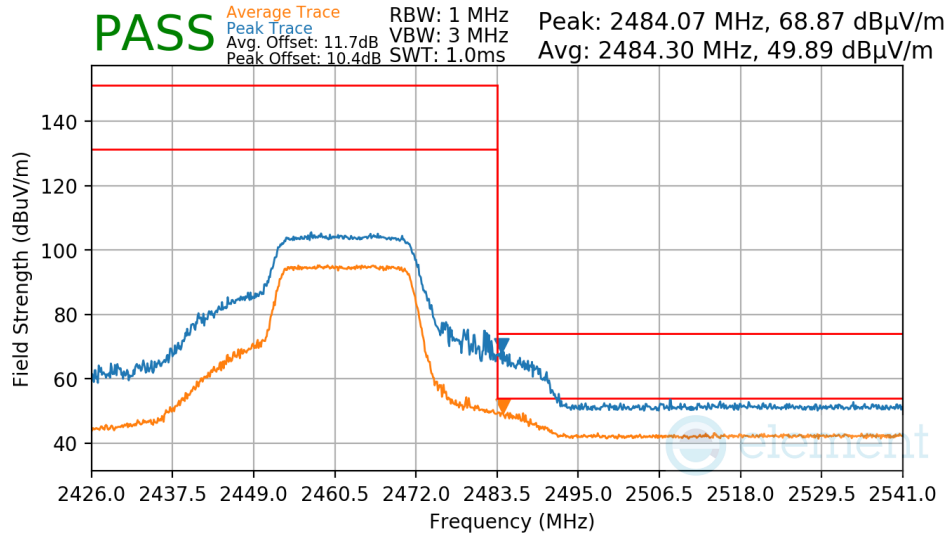


Plot 7-73. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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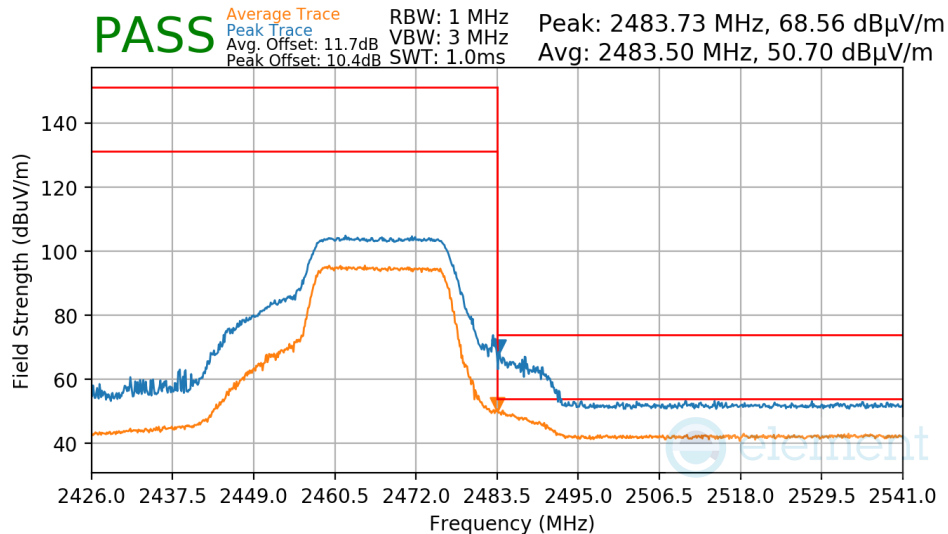
V 10.6 09/01/2023

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



Plot 7-74. Radiated Restricted Upper Band Edge Measurement

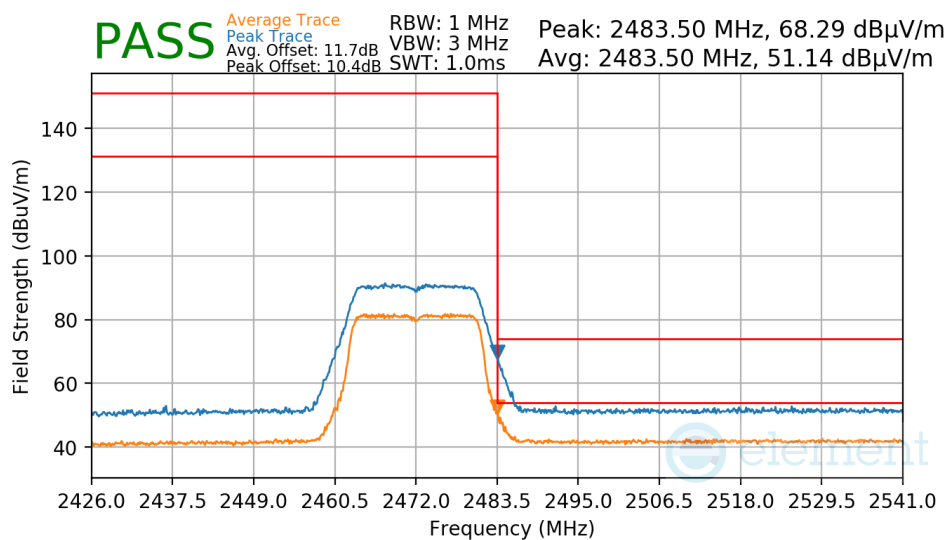
Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-75. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-76. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A3003 IC: 579C-A3003	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 [μV/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 C63.10-2020

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

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Test Setup

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

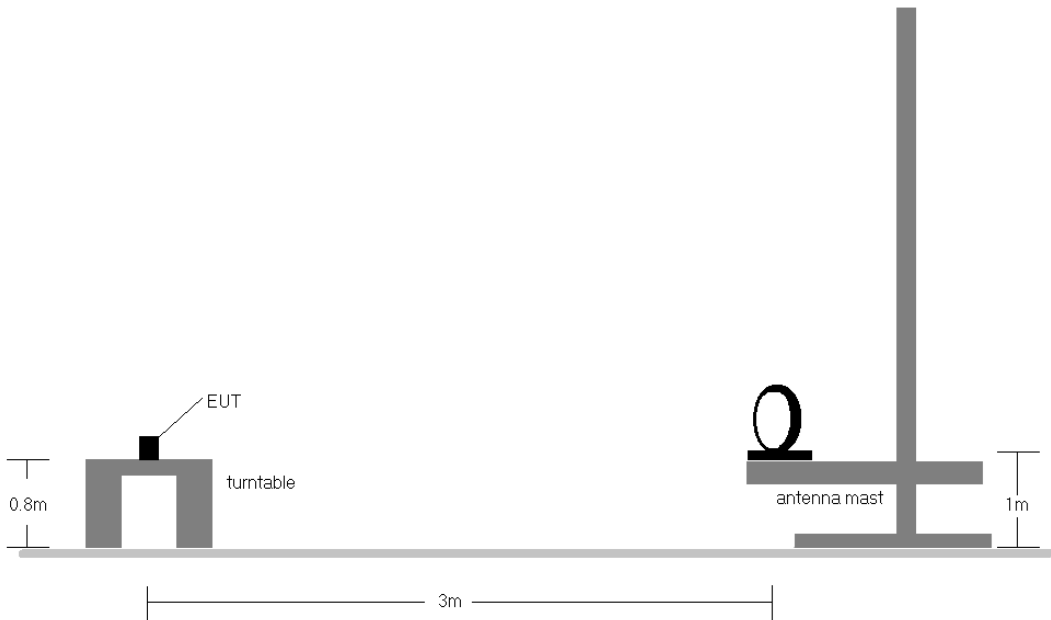


Figure 7-7. Radiated Test Setup < 30Mhz

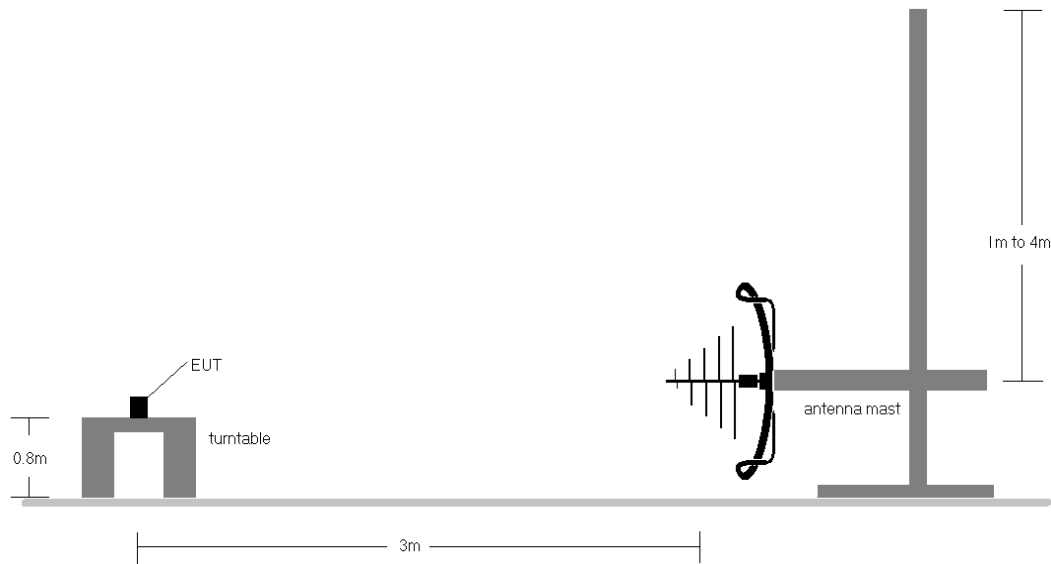


Figure 7-8. Radiated Test Setup < 1GHz

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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

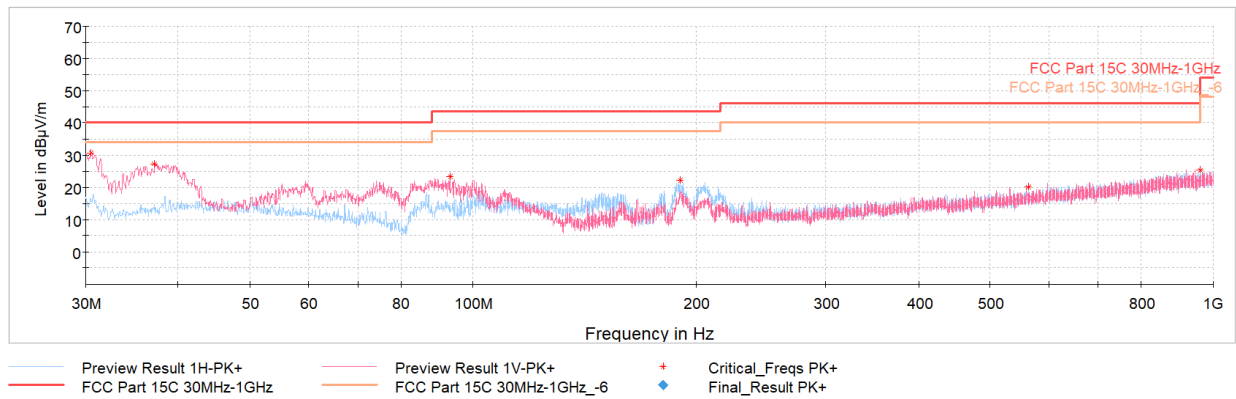
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit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

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-77. Radiated Spurious Emissions below 1GHz 11b Ch.6, with AC/DC Adapter + 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]
30.53	Max Peak	V	100	47	-59.80	-16.53	30.67	40.00	-9.33
37.18	Max Peak	V	100	9	-64.33	-15.24	27.43	40.00	-12.57
93.20	Max Peak	V	100	200	-66.22	-17.50	23.28	43.52	-20.24
190.63	Max Peak	H	100	214	-66.65	-18.06	22.29	43.52	-21.23
562.92	Max Peak	H	200	222	-77.30	-9.58	20.12	46.02	-25.90
960.62	Max Peak	H	200	48	-78.28	-3.47	25.25	53.98	-28.73

Table 7-11. Radiated Spurious Emissions below 1GHz 11b Ch.6, with AC/DC Adapter + Magnetic Charger

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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 (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 7-12. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, 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

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Test Setup

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

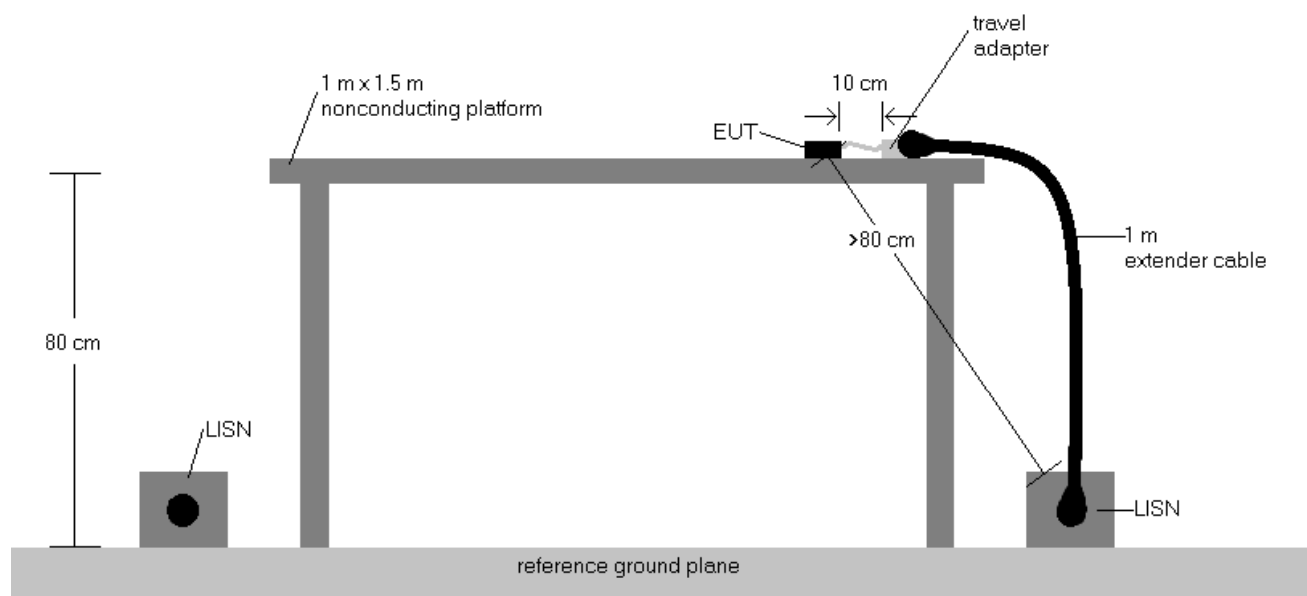


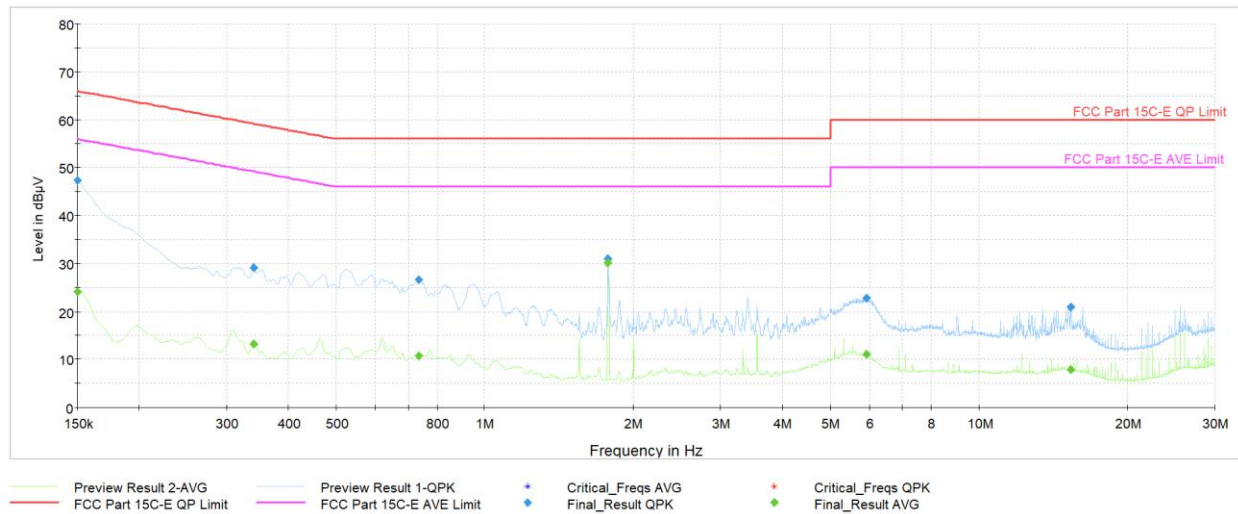
Figure 7-9. Test Instrument & Measurement Setup

Test Notes

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

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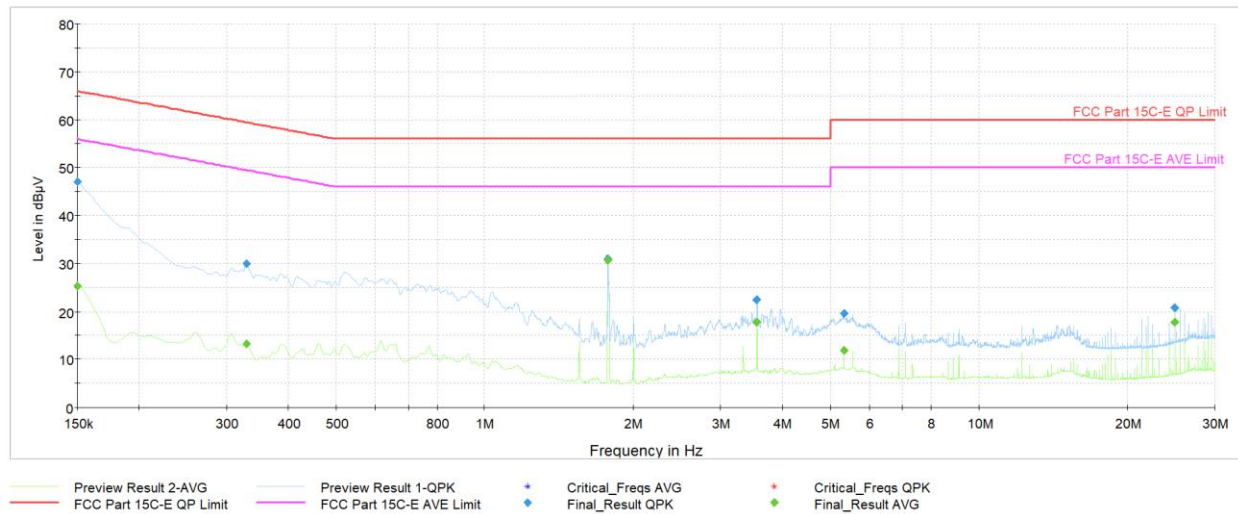
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	—	24.17	56.00	-31.83	L1	GND
0.150	FINAL	47.3	—	66.00	-18.68	L1	GND
0.341	FINAL	—	13.19	49.17	-35.98	L1	GND
0.341	FINAL	29.2	—	59.17	-29.97	L1	GND
0.735	FINAL	26.7	—	56.00	-29.35	L1	GND
0.735	FINAL	—	10.68	46.00	-35.32	L1	GND
1.777	FINAL	30.9	—	56.00	-25.07	L1	GND
1.777	FINAL	—	30.09	46.00	-15.91	L1	GND
5.908	FINAL	—	10.96	50.00	-39.04	L1	GND
5.910	FINAL	22.8	—	60.00	-37.20	L1	GND
15.349	FINAL	21.0	—	60.00	-39.03	L1	GND
15.351	FINAL	—	7.85	50.00	-42.15	L1	GND

Table 7-13. AC Line Conducted Data 802.11b - Ch.6 (L1, with Laptop + Magnetic charger)

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Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	—	25.24	56.00	-30.76	N	GND
0.150	FINAL	47.0	—	66.00	-19.01	N	GND
0.330	FINAL	—	13.17	49.45	-36.29	N	GND
0.330	FINAL	30.0	—	59.45	-29.46	N	GND
1.777	FINAL	—	30.58	46.00	-15.42	N	GND
1.777	FINAL	31.0	—	56.00	-24.97	N	GND
3.557	FINAL	22.4	—	56.00	-33.63	N	GND
3.557	FINAL	—	17.75	46.00	-28.25	N	GND
5.332	FINAL	19.7	—	60.00	-40.34	N	GND
5.334	FINAL	—	11.83	50.00	-38.17	N	GND
24.889	FINAL	—	17.67	50.00	-32.33	N	GND
24.889	FINAL	20.8	—	60.00	-39.24	N	GND

Table 7-14. AC Line Conducted Data 802.11b - Ch.6 (N, with Laptop + Magnetic charger)

FCC ID: BCG-A3003 IC: 579C-A3003		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 Watch FCC ID: BCG-A3003, IC: 579C-A3003** 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.

FCC ID: BCG-A3003 IC: 579C-A3003		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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