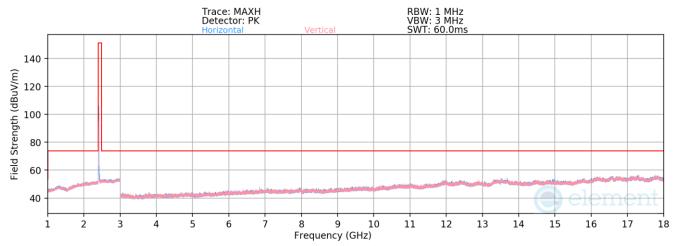


7.7.1 Antenna 1 Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-58. Radiated Spurious Emissions above 1GHz (802.11b - Ch. 1)

Mode: 802.11b

Data Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

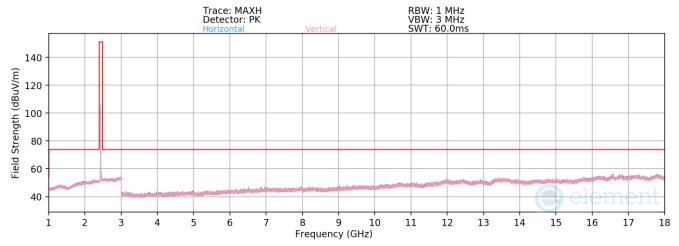
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	Н	-	-	-78.85	6.31	34.46	53.98	-19.52
4824.00	Peak	Н	•	-	-67.19	6.31	46.12	73.98	-27.86
12060.00	Avg	Н	1	-	-78.87	15.59	43.72	53.98	-10.26
12060.00	Peak	Н	-	-	-67.89	15.59	54.70	73.98	-19.28

Table 7-7. Radiated Spurious Emissions Measurements

FCC ID: BCG-A2622 IC: 579C-A2622	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 59 of 81
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Plot 7-59. Radiated Spurious Emissions above 1GHz (802.11b - Ch. 6)

Mode: 802.11b

Data Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

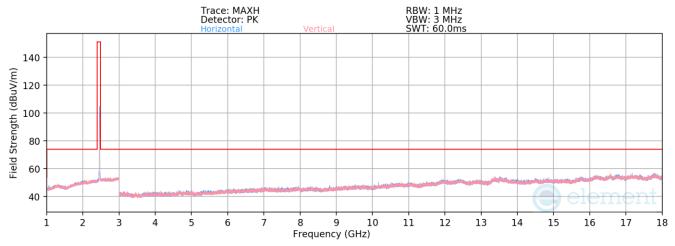
Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	Н	-	-	-78.82	6.45	34.63	53.98	-19.35
4874.00	Peak	Н	-	-	-67.15	6.45	46.30	73.98	-27.68
7311.00	Avg	Н	-	-	-78.83	9.76	37.93	53.98	-16.05
7311.00	Peak	Н	-	-	-67.62	9.76	49.14	73.98	-24.84
12185.00	Avg	Н	-	-	-78.99	15.82	43.83	53.98	-10.15
12185.00	Peak	Н	-	-	-67.99	15.82	54.83	73.98	-19.15

Table 7-8. Radiated Spurious Emissions Measurements

FCC ID: BCG-A2622 IC: 579C-A2622	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 60 of 81
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Plot 7-60. Radiated Spurious Emissions above 1GHz (802.11b - Ch. 11)

Mode: 802.11b

Data Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

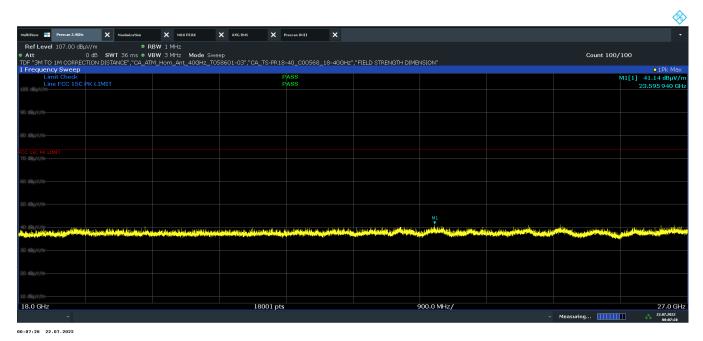
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	Н	-	-	-79.52	6.28	33.76	53.98	-20.22
4924.00	Peak	Н	-	-	-68.03	6.28	45.25	73.98	-28.73
7386.00	Avg	Н	-	-	-79.10	10.07	37.97	53.98	-16.01
7386.00	Peak	Н	-	-	-67.53	10.07	49.54	73.98	-24.44
12310.00	Avg	Н	-	-	-79.36	15.91	43.55	53.98	-10.43
12310.00	Peak	Н	-	-	-67.61	15.91	55.30	73.98	-18.68

Table 7-9. Radiated Spurious Emissions Measurements

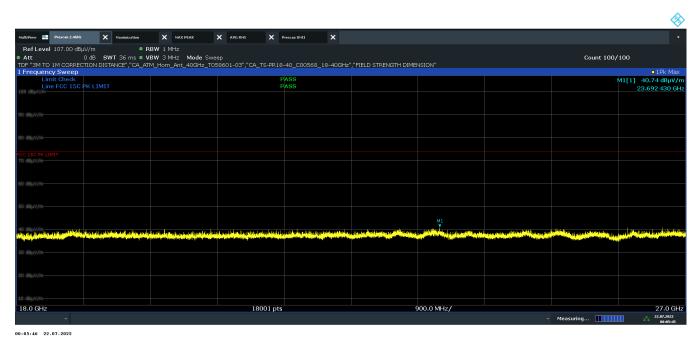
FCC ID: BCG-A2622 IC: 579C-A2622	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 64 of 94
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Radiated Spurious Emissions – Above 18GHz §15.209; RSS-Gen [8.9]



Plot 7-61. Radiated Spurious Plot Above 18GHz (802.11b - Ch. 6 Pol H)



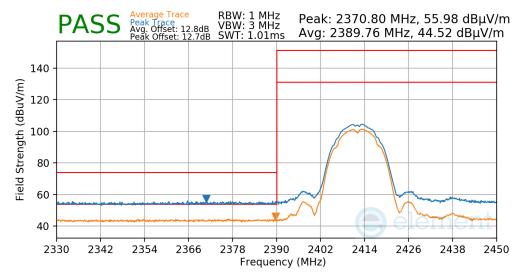
Plot 7-62. Radiated Spurious Plot Above 18GHz (802.11b - Ch. 6 Pol V)

FCC ID: BCG-A2622 IC: 579C-A2622	element	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 62 of 04
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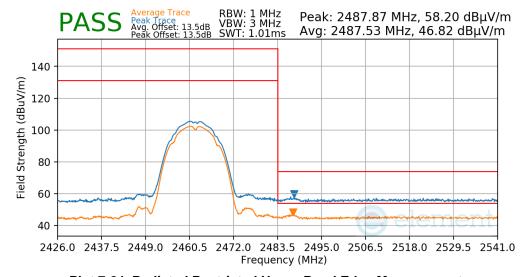
7.7.2 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

Mode:802.11bData Rate:1 MbpsDistance of Measurements:3 MetersOperating Frequency:2412MHzChannel:1



Plot 7-63. Radiated Restricted Lower Band Edge Measurement

Mode:802.11bData Rate:1MbpsDistance of Measurements:3 MetersOperating Frequency:2462MHzChannel:11

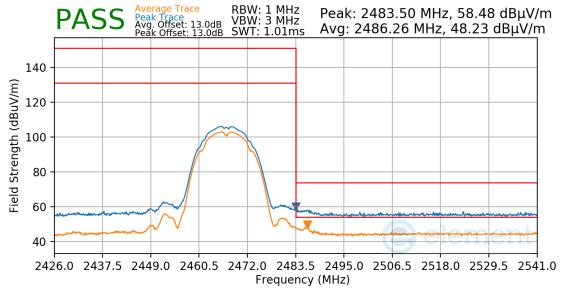


Plot 7-64. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 63 of 81
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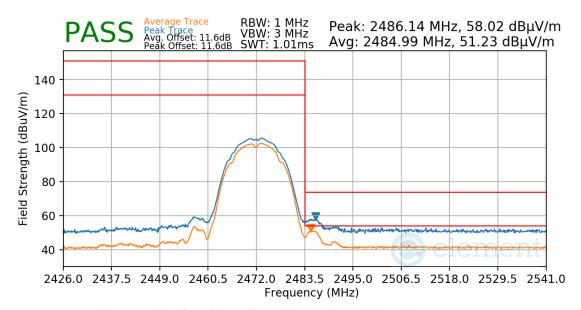


Mode:802.11bData Rate:1 MbpsDistance of Measurements:3 MetersOperating Frequency:2467MHzChannel:12



Plot 7-65. Radiated Restricted Upper Band Edge Measurement

Mode:802.11bData Rate:1 MbpsDistance of Measurements:3 MetersOperating Frequency:2472MHzChannel:13

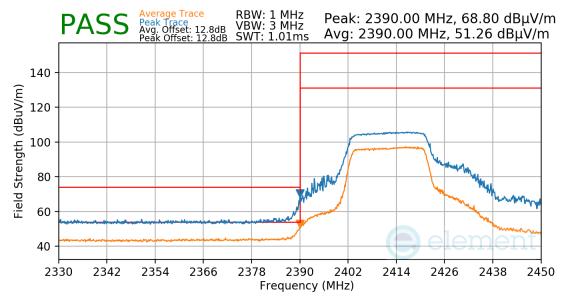


Plot 7-66. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 64 of 81
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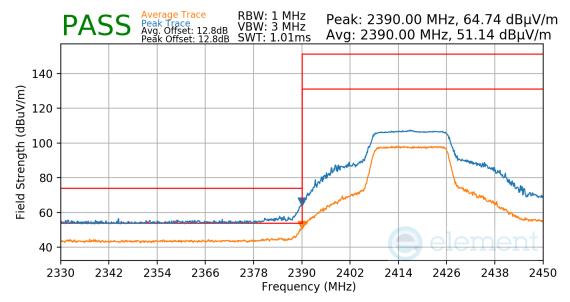


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2412MHzChannel:1



Plot 7-67. Radiated Restricted Lower Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2417MHzChannel:2

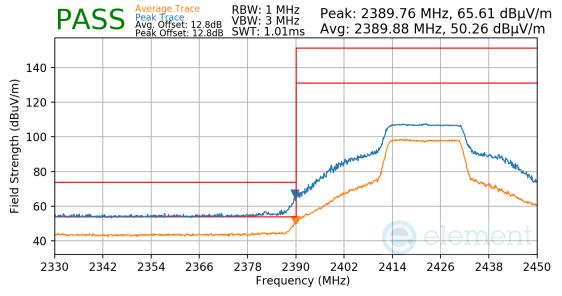


Plot 7-68. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 65 of 81
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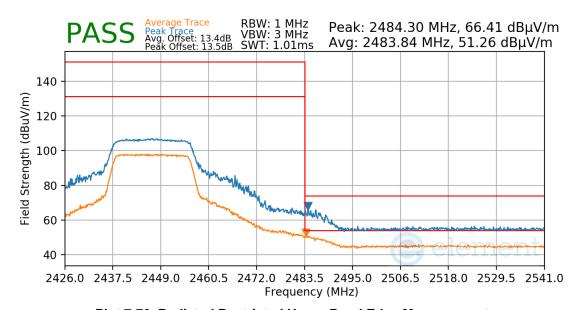


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2422MHzChannel:3



Plot 7-69. Radiated Restricted Lower Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2447MHzChannel:8

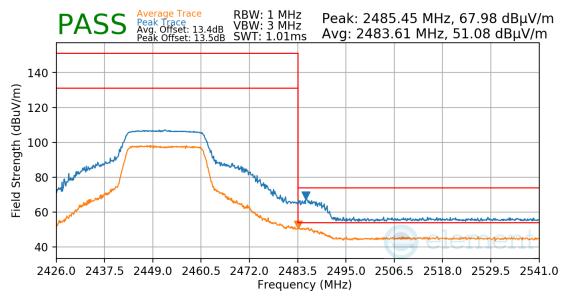


Plot 7-70. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 66 of 81
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Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2452MHzChannel:9



Plot 7-71. Radiated Restricted Upper Band Edge Measurement

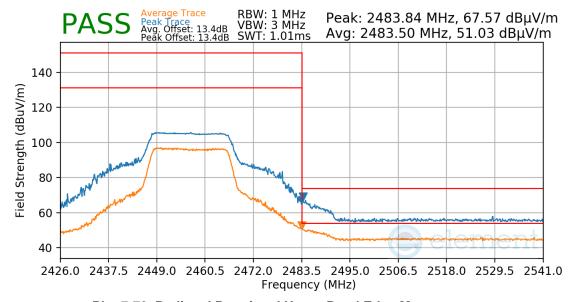
Mode: 802.11n

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 2457MHz

Channel: 10

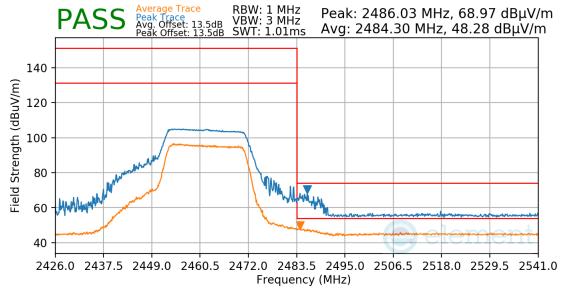


Plot 7-72. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 67 of 94
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Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2462MHzChannel:11



Plot 7-73. Radiated Restricted Upper Band Edge Measurement

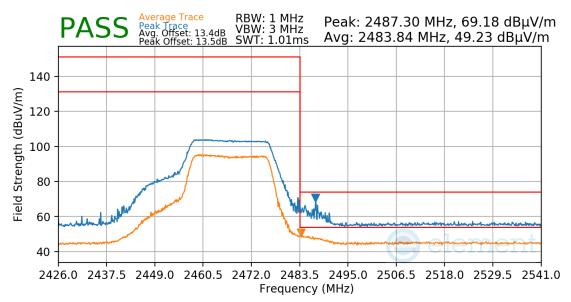
Mode: 802.11n

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 2467MHz

Channel: 12

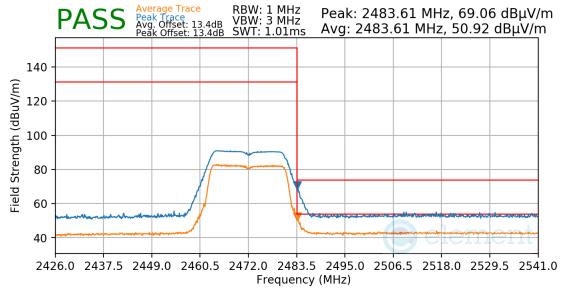


Plot 7-74. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 60 of 04
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Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2472MHzChannel:13



Plot 7-75. Radiated Restricted Upper Band Edge Measurement

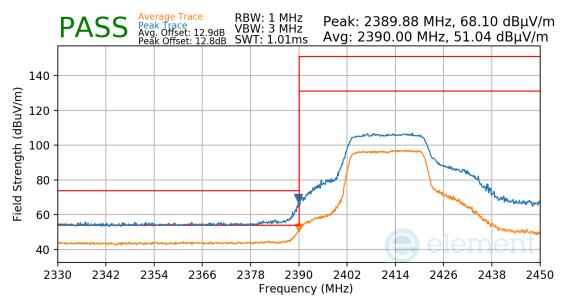
 Mode:
 802.11n

 Data Rate:
 MCS7

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2412MHz

 Channel:
 1

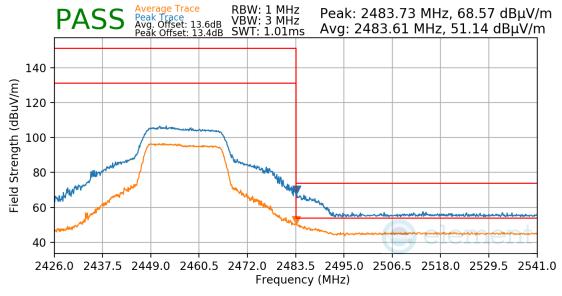


Plot 7-76. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element	element MEASUREMENT REPORT (CERTIFICATION)		
Test Report S/N:	Test Dates:	EUT Type:	Page 69 of 81	
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Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2457MHzChannel:10



Plot 7-77. Radiated Restricted Upper Band Edge Measurement

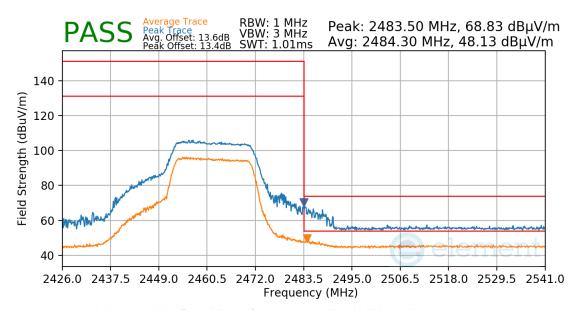
 Mode:
 802.11n

 Data Rate:
 MCS7

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2462MHz

 Channel:
 11

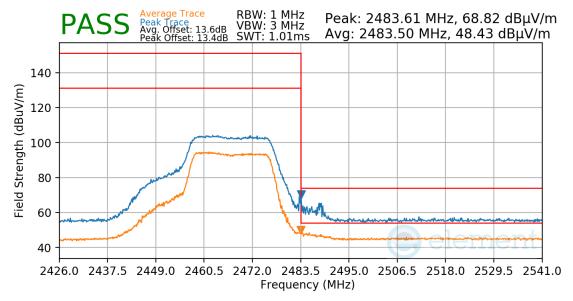


Plot 7-78. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 70 of 91
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Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2467MHzChannel:12



Plot 7-79. Radiated Restricted Upper Band Edge Measurement

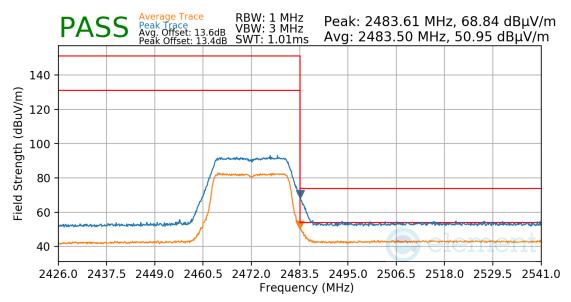
 Mode:
 802.11n

 Data Rate:
 MCS7

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2472MHz

 Channel:
 13



Plot 7-80. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCG-A2622 IC: 579C-A2622	element)	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 71 of 91
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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 C63.10-2013

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-A2622 IC: 579C-A2622	element	element MEASUREMENT REPORT (CERTIFICATION)		
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Test Setup

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

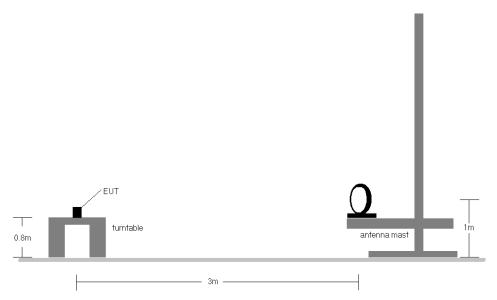


Figure 7-7. Radiated Test Setup < 30Mhz

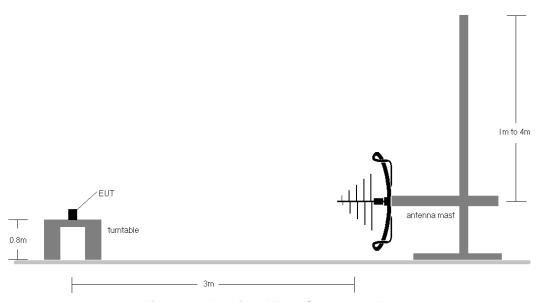


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCG-A2622 IC: 579C-A2622	element)	Approved by: Technical Manager	
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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.
- 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

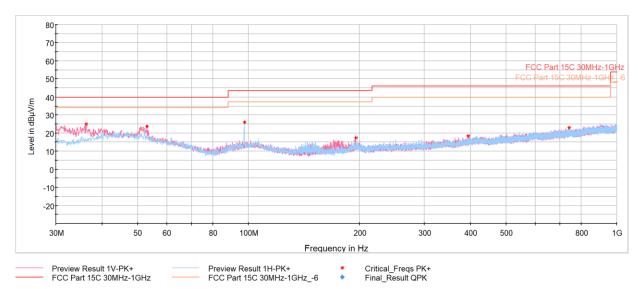
Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

FCC ID: BCG-A2622 IC: 579C-A2622	element	element MEASUREMENT REPORT (CERTIFICATION)		
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Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-81. Radiated Spurious Emissions 30MHz - 1GHz 802.11b - Ch.6, 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]
36.21	Max Peak	V	100	21	-66.26	-15.73	25.01	40.00	-14.99
52.99	Max Peak	V	100	89	-69.92	-13.31	23.77	40.00	-16.23
97.42	Max Peak	Н	200	0	-65.05	-15.99	25.96	43.52	-17.56
195.68	Max Peak	V	100	135	-74.62	-15.08	17.30	43.52	-26.22
394.09	Max Peak	Н	200	201	-78.47	-10.04	18.49	46.02	-27.53
741.01	Max Peak	Н	300	253	-79.94	-4.20	22.86	46.02	-23.16

Table 7-11. Radiated Spurious Emissions 30MHz - 1GHz 802.11b - Ch.6, with AC/DC Adapter and Magnetic Charger

FCC ID: BCG-A2622 IC: 579C-A2622	element)	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)		
(1411 12)	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

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
- Sweep time = auto couple
- 5. Trace mode = max hold
- Trace was allowed to stabilize

Average Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

FCC ID: BCG-A2622 IC: 579C-A2622	element	element MEASUREMENT REPORT (CERTIFICATION)		
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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

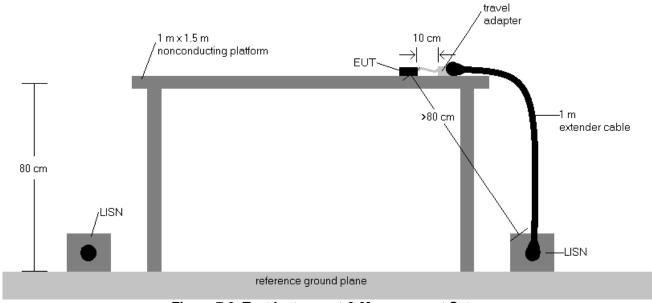


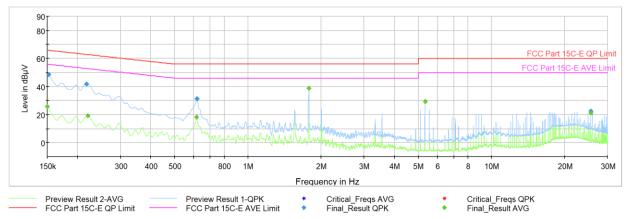
Figure 7-9. Test Instrument & Measurement Setup

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. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
- 6. Margin (dB) = QP/AV Level (dB μ V) QP/AV Limit (dB μ V)
- 7. Traces shown in plot are made using quasi peak and average detectors.
- 8. Deviations to the Specifications: None.

FCC ID: BCG-A2622 IC: 579C-A2622	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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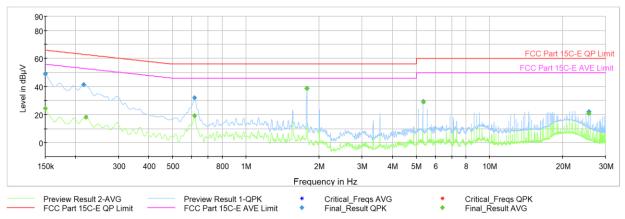
Plot 7-82. AC Line Conducted Plot 802.11b - Ch.6 (L1, with host PC and Magnetic charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµ∀]	Marqin [dB]	Line	PE
0.150	FINAL		25.71	56.00	-30.29	L1	GND
0.152	FINAL	48.7		65.88	-17.17	L1	GND
0.218	FINAL	41.8		62.91	-21.15	L1	GND
0.220	FINAL		19.18	52.83	-33.65	L1	GND
0.616	FINAL		18.22	46.00	-27.78	L1	GND
0.618	FINAL	31.2		56.00	-24.79	L1	GND
1.777	FINAL	38.8		56.00	-17.22	L1	GND
1.777	FINAL		38.76	46.00	-7.24	L1	GND
5.334	FINAL	29.4		60.00	-30.61	L1	GND
5.334	FINAL		29.37	50.00	-20.63	L1	GND
25.555	FINAL		21.31	50.00	-28.69	L1	GND
25.555	FINAL	22.4		60.00	-37.59	L1	GND

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

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Plot 7-83. AC Line Conducted Plot 802.11b - Ch.6 (L1, with host PC and Magnetic charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµ∀]	Marqin [dB]	Line	PE
0.150	FINAL		24.39	56.00	-31.61	N	GND
0.150	FINAL	49.0		66.00	-17.02	N	GND
0.215	FINAL	41.4		63.00	-21.63	Ν	GND
0.220	FINAL		18.44	52.83	-34.39	N	GND
0.616	FINAL		19.40	46.00	-26.60	N	GND
0.616	FINAL	32.2		56.00	-23.84	Ν	GND
1.777	FINAL	38.7		56.00	-17.30	Ν	GND
1.777	FINAL		38.68	46.00	-7.32	N	GND
5.334	FINAL	29.4		60.00	-30.61	N	GND
5.334	FINAL		29.23	50.00	-20.77	N	GND
25.555	FINAL		21.06	50.00	-28.94	N	GND
25.555	FINAL	22.3		60.00	-37.66	N	GND

Table 7-14. AC Line Conducted Data 802.11b - Ch.6 (L1, with host PC and Magnetic charger)

FCC ID: BCG-A2622 IC: 579C-A2622	element 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-A2622**, and **IC**: **579C-A2622** 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-A2622 IC: 579C-A2622	element	element MEASUREMENT REPORT (CERTIFICATION)	
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9.0 APPENDIX A

Antenna gains provided by manufacturer:

WiFi/BT 2.4GHz, WiFi 5GHz, UWB Antenna Gain (FCM), Type: IFA						
Frequency (MHz)	Horizontal (dBi)	Vertical (dBi)				
2412	-4.4	-4.5				
2442	-4.3	-4.6				
2472	-4.7	-4.5				
5180	-10.7	-9.9				
5260	-10.7	-9.5				
5320	-10.2	-10.1				
5500	-11.5	-9.5				
5600	-11.4	-8.7				
5700	-10.9	-7.5				
5745	-10.3	-7.3				
5785	-10.2	-7.4				
5825	-9.8	-7.5				
6250	-12.0	-10.8				
6375	-11.3	-10.3				
6500	-13.3	-10.3				
6625	-13.4	-10.1				
6750	-13.5	-9.9				
7750	-9.0	-9.4				
7875	-10.7	-11.3				
8000	-9.6	-10.5				
8125	-9.7	-10.9				
8250	-12.4	-12.2				

Table 9-1. A2622 Antenna Gains

FCC ID: BCG-A2622 IC: 579C-A2622	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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