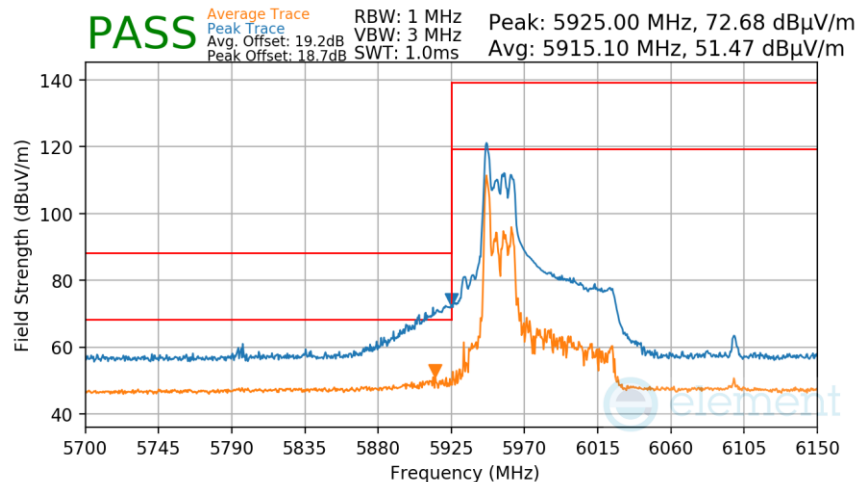


7.7.24 SDM Diversity Radiated Band Edge Measurements (80MHz BW)

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

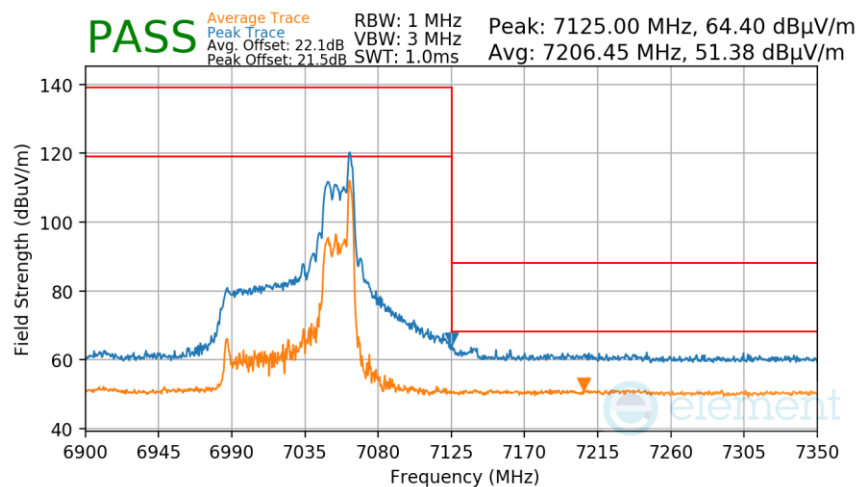
RU26

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



Plot 7-1801. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU26)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



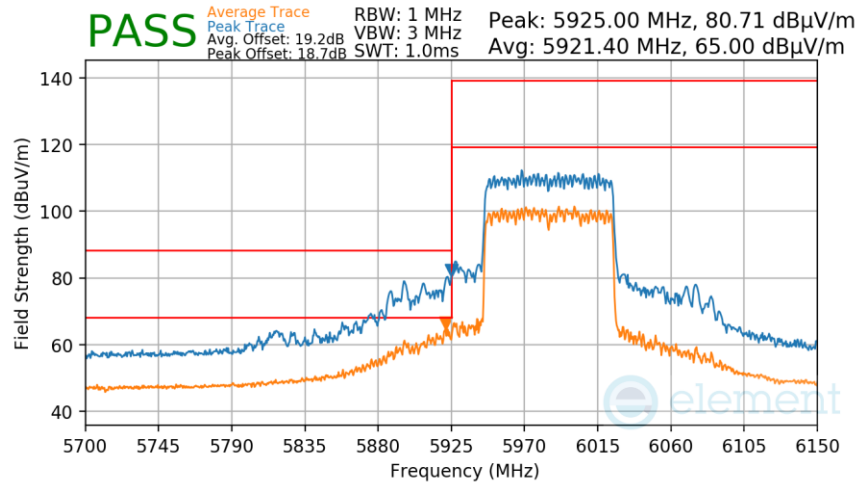
Plot 7-1802. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU26)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-14-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 587 of 617

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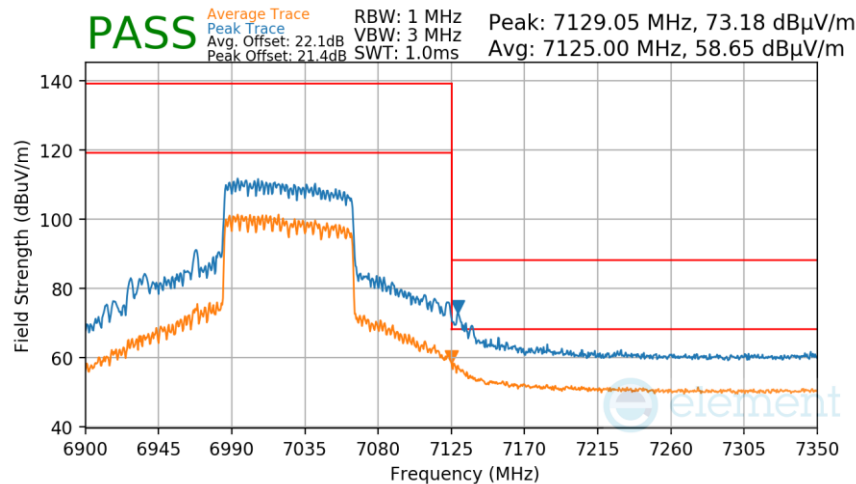
RU996

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 5985MHz
 Channel: 7



Plot 7-1803. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU996)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 7025MHz
 Channel: 215



Plot 7-1804. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU996)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-14-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 588 of 617

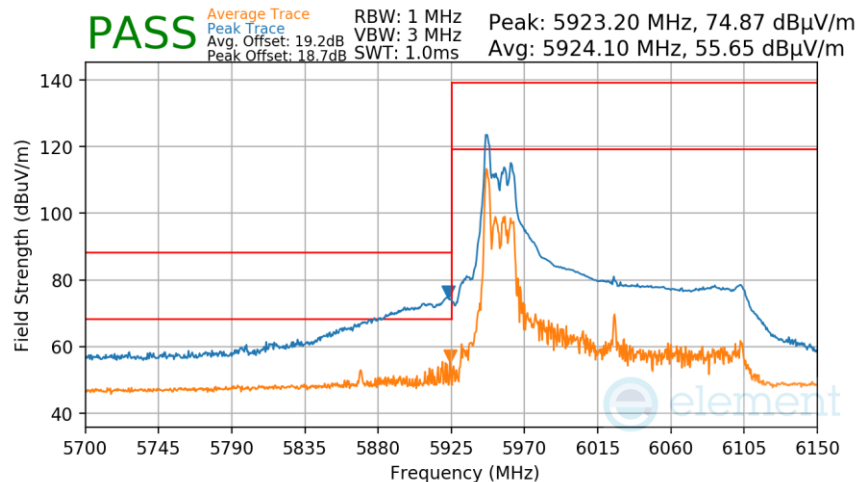
V 10.5 12/15/2021

7.7.25 SDM Diversity Radiated Band Edge Measurements (160MHz BW)

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

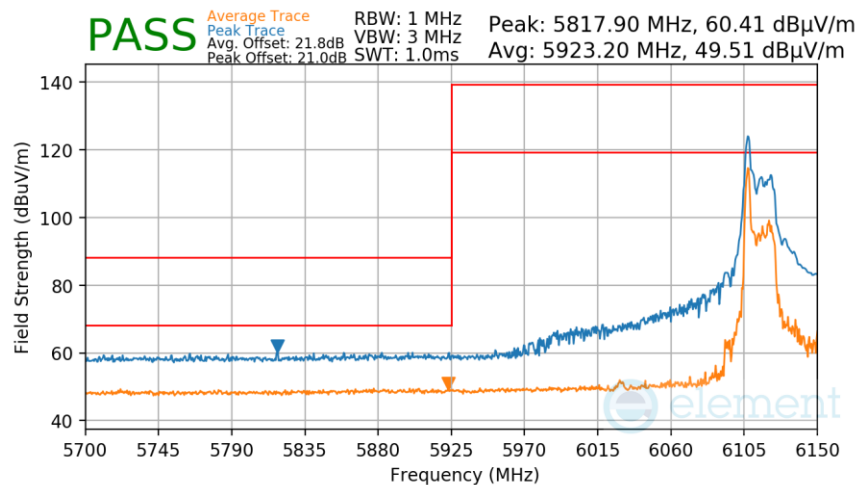
RU26

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-1805. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU26)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	6185MHz
Channel:	47

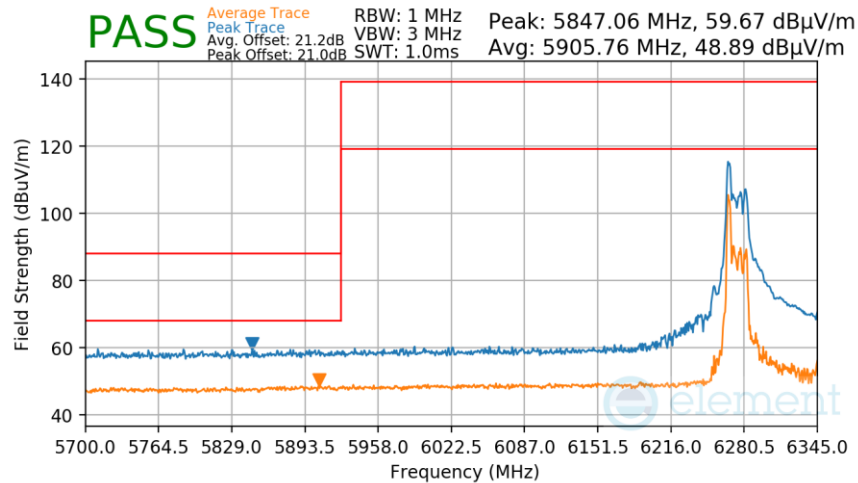


Plot 7-1806. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU26)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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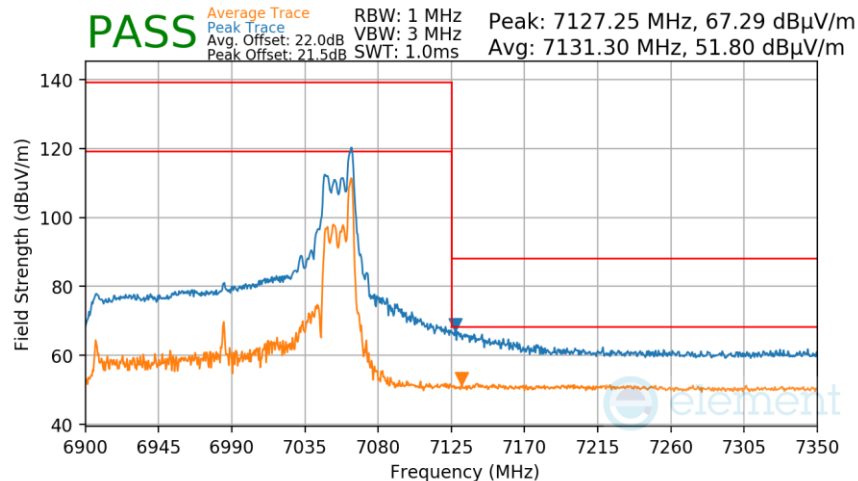
V 10.5 12/15/2021

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 6345MHz
Channel: 79



Plot 7-1807. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU26)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 6985MHz
Channel: 207



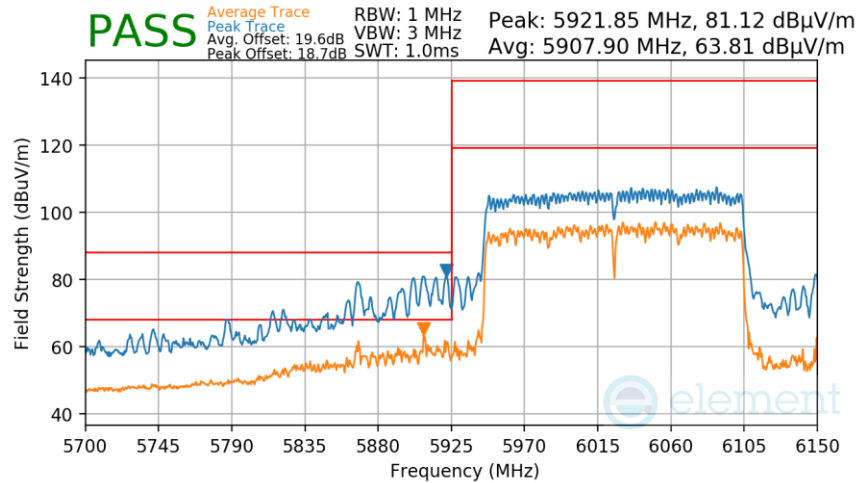
Plot 7-1808. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU26)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-14-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 590 of 617

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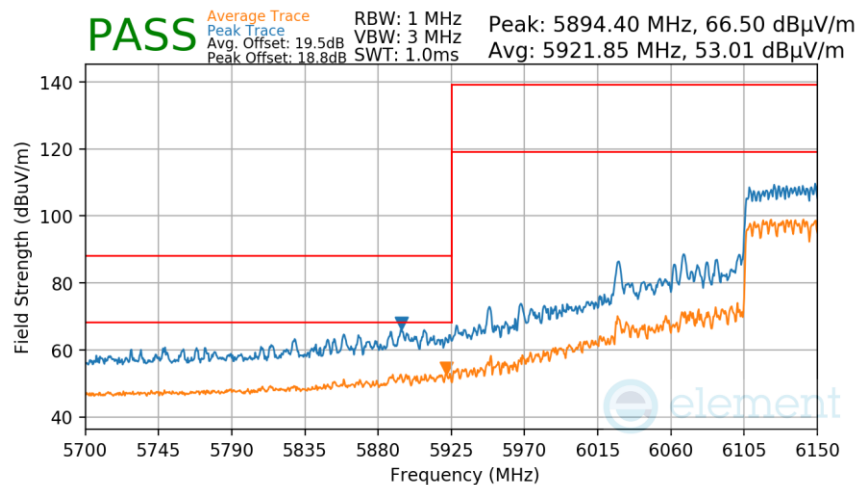
RU996x2

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 6025MHz
 Channel: 15



Plot 7-1809. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU996x2)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 6185MHz
 Channel: 47

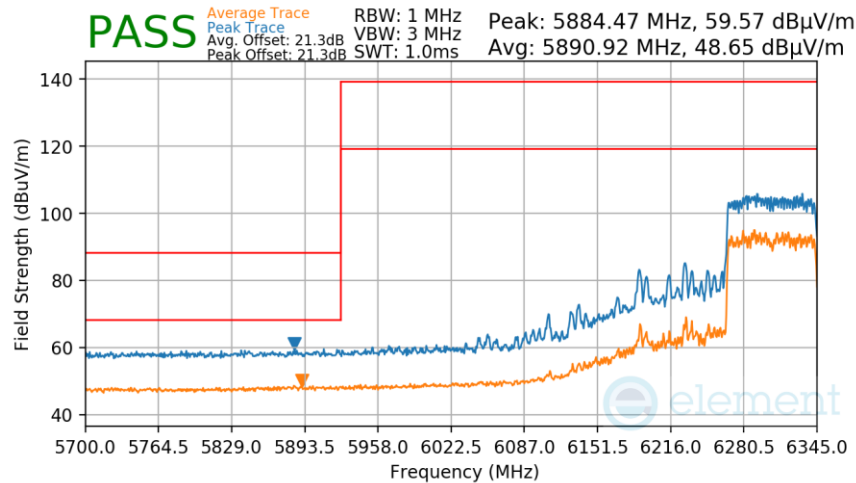


Plot 7-1810. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU996x2)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-14-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 591 of 617

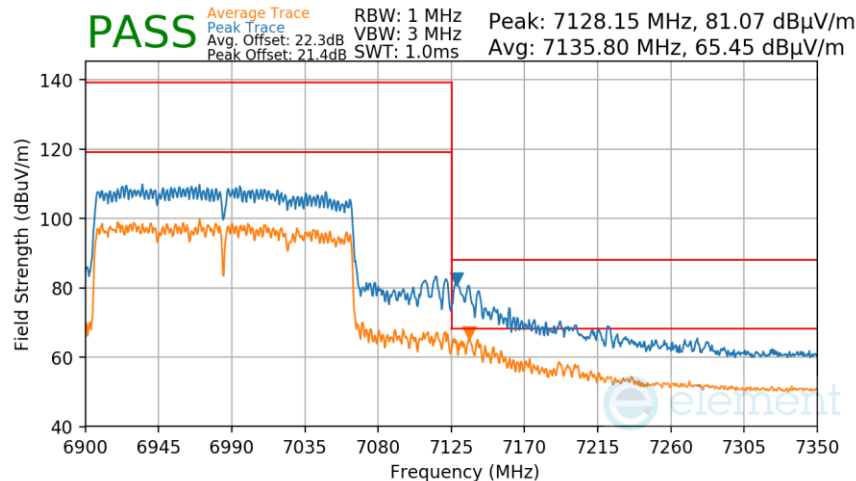
V 10.5 12/15/2021

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 6345MHz
Channel: 79



Plot 7-1811. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU996x2)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 6985MHz
Channel: 207



Plot 7-1812. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU996x2)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-14-R2.BCG	Test Dates: 12/1/2023 - 04/04/2024	EUT Type: Tablet Device	Page 592 of 617

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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 7-280 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 7-280. 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 = quasi-peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

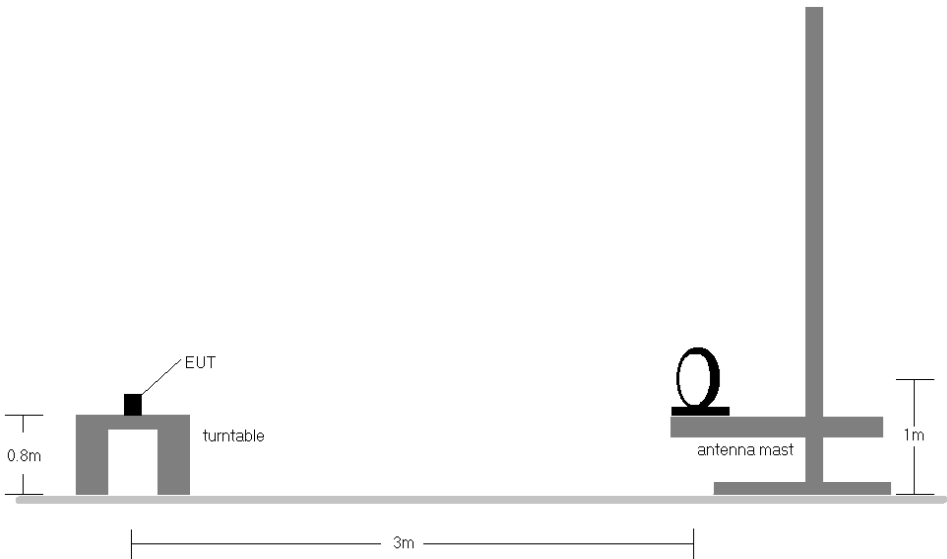


Figure 7-6. Radiated Test Setup < 30MHz

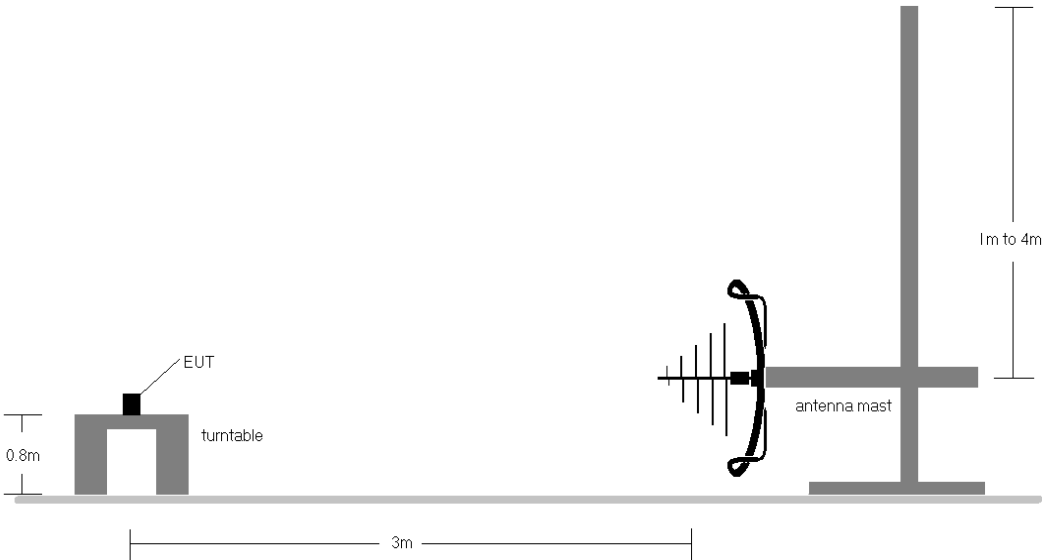


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		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 7-280.
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

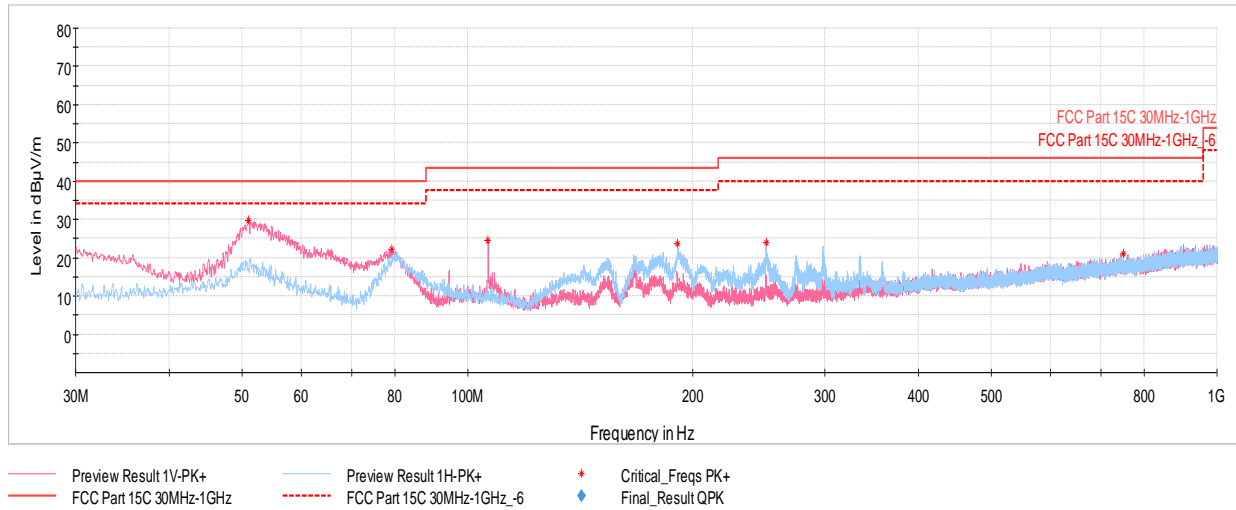
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamp Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu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

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7.8.1 SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



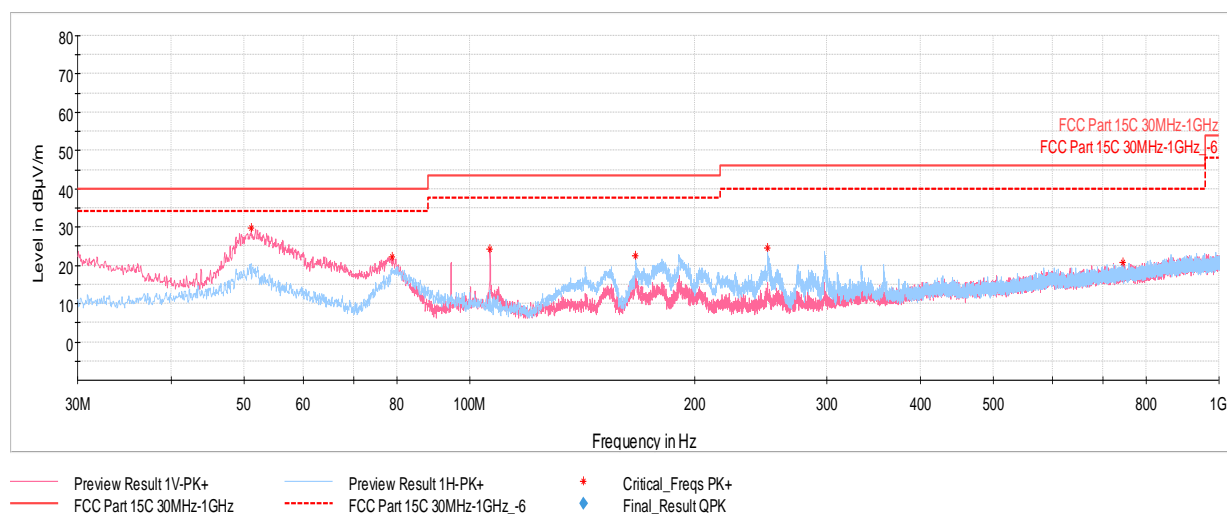
Plot 7-1813. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU26) with AC/DC Adapter

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]
51.05	Max-Peak	V	100	15	-64.42	-12.71	29.87	40.00	-10.13
79.32	Max-Peak	V	300	15	-63.41	-21.30	22.29	40.00	-17.71
106.48	Max-Peak	V	100	223	-65.91	-16.52	24.57	43.52	-18.95
190.63	Max-Peak	H	100	297	-66.04	-17.15	23.81	43.52	-19.71
250.29	Max-Peak	H	100	89	-67.87	-15.24	23.89	46.02	-22.13
749.74	Max-Peak	H	100	193	-80.40	-5.49	21.11	46.02	-24.91

Table 7-281. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU26) with AC/DC Adapter

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1814. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU242) 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]
51.15	Max-Peak	V	100	317	-64.59	-12.73	29.68	40.00	-10.32
78.79	Max-Peak	V	100	16	-63.58	-21.28	22.14	40.00	-17.86
106.44	Max-Peak	V	100	148	-66.11	-16.52	24.37	43.52	-19.15
166.53	Max-Peak	H	200	183	-65.21	-19.19	22.60	43.52	-20.92
249.95	Max-Peak	H	100	231	-67.17	-15.26	24.57	46.02	-21.45
743.73	Max-Peak	V	300	321	-80.78	-5.43	20.79	46.02	-25.23

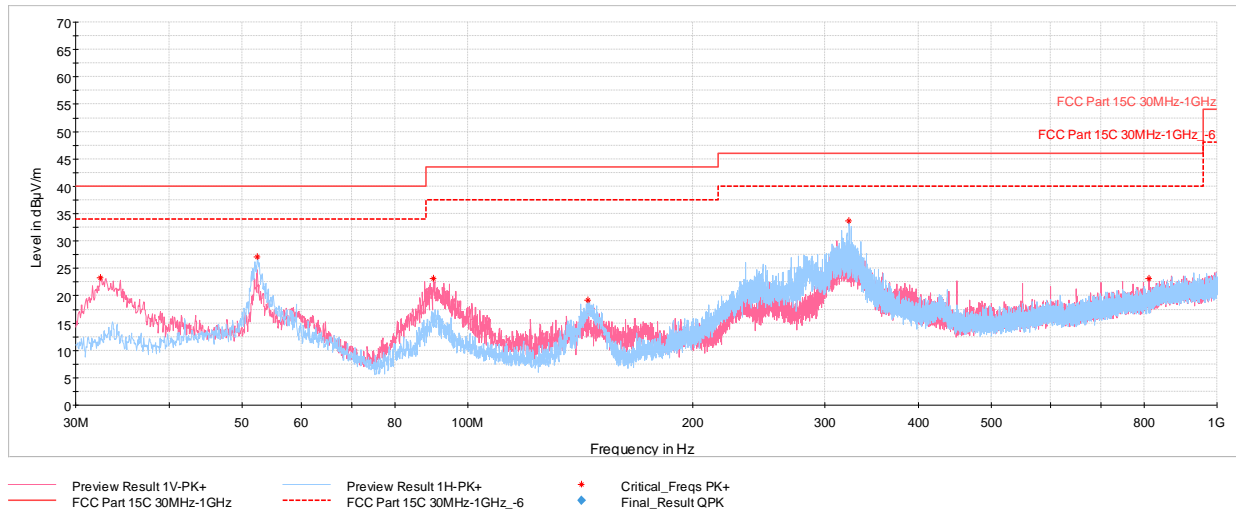
Table 7-282. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU242) with AC/DC Adapter

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8.2 SDM Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



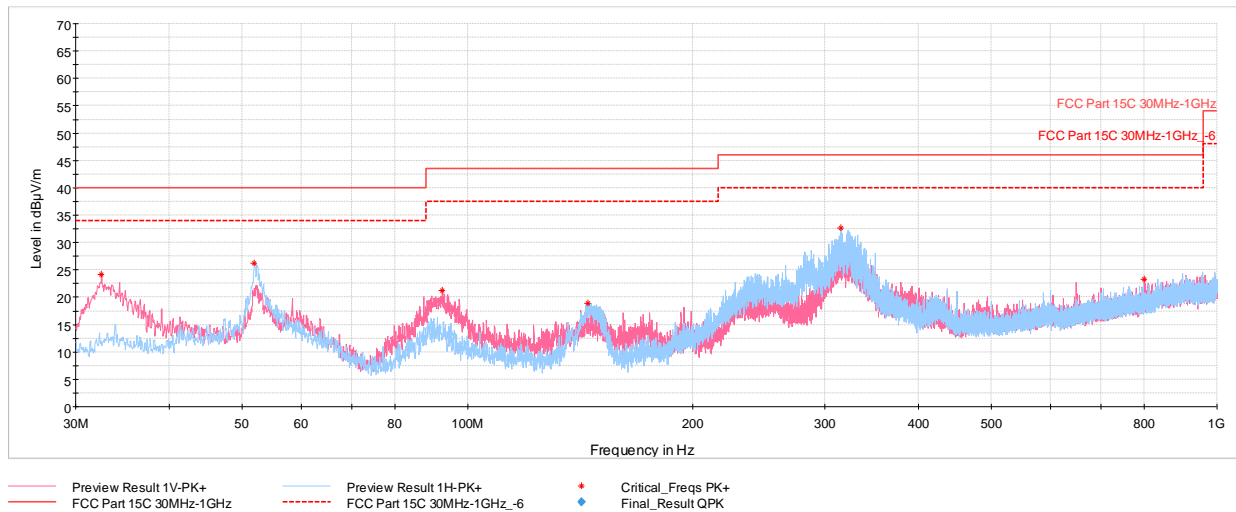
Plot 7-1815. Radiated Spurious Emissions below 1GHz SDM Diversity (802.11ax – Ch.1 – RU26) with Laptop

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]
32.38	Max-Peak	V	100	75	-67.62	-16.05	23.33	40.00	-16.67
52.46	Max-Peak	H	300	188	-66.63	-13.25	27.12	40.00	-12.88
90.14	Max-Peak	V	100	197	-65.58	-18.27	23.15	43.52	-20.37
144.61	Max-Peak	H	300	305	-67.16	-20.59	19.25	43.52	-24.27
323.04	Max-Peak	H	100	81	-59.54	-13.80	33.66	46.02	-12.36
811.29	Max-Peak	V	200	93	-79.53	-4.33	23.14	46.02	-22.88

Table 7-283. Radiated Spurious Emissions below 1GHz SDM Diversity (802.11ax – Ch.1 – RU26) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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]
32.47	Max-Peak	V	100	0	-66.73	-16.03	24.24	40.00	-15.76
51.92	Max-Peak	H	300	200	-67.61	-13.13	26.26	40.00	-13.74
92.57	Max-Peak	V	100	137	-68.11	-17.70	21.19	43.52	-22.33
144.65	Max-Peak	H	300	0	-67.47	-20.59	18.94	43.52	-24.58
315.13	Max-Peak	H	100	113	-60.33	-14.03	32.64	46.02	-13.38
799.55	Max-Peak	V	200	202	-79.10	-4.62	23.28	46.02	-22.74

Table 7-284. Radiated Spurious Emissions below 1GHz SDM Diversity (802.11ax – Ch.1 – RU242) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.9 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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-285. 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

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Test Setup

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

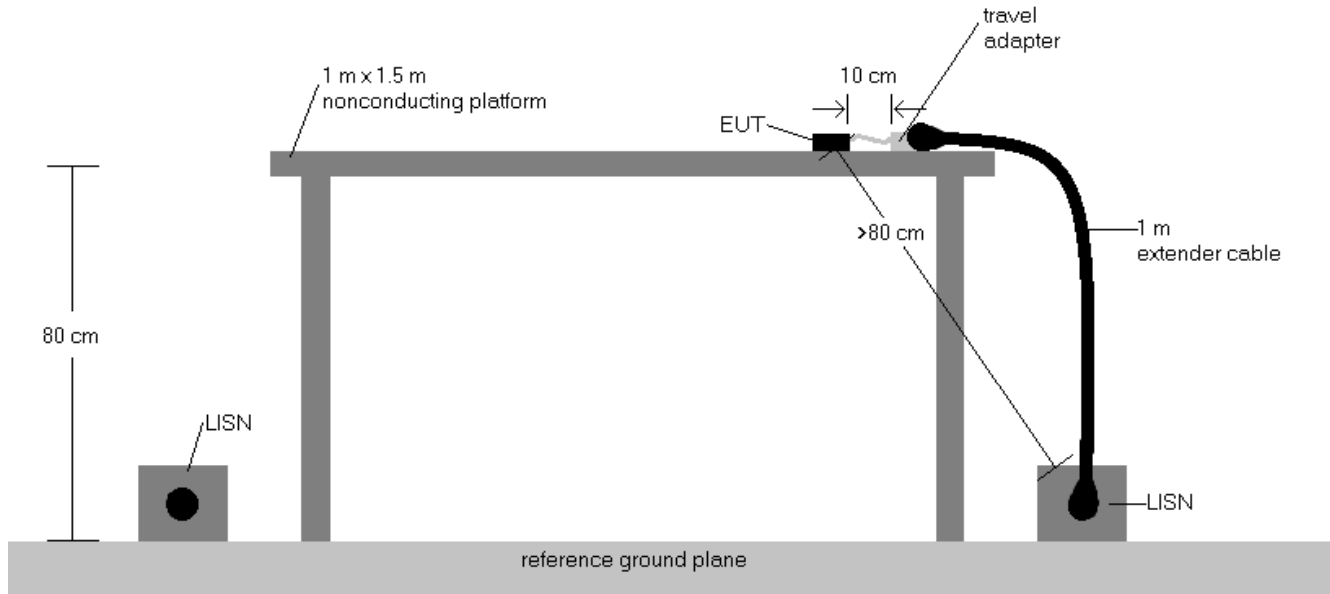


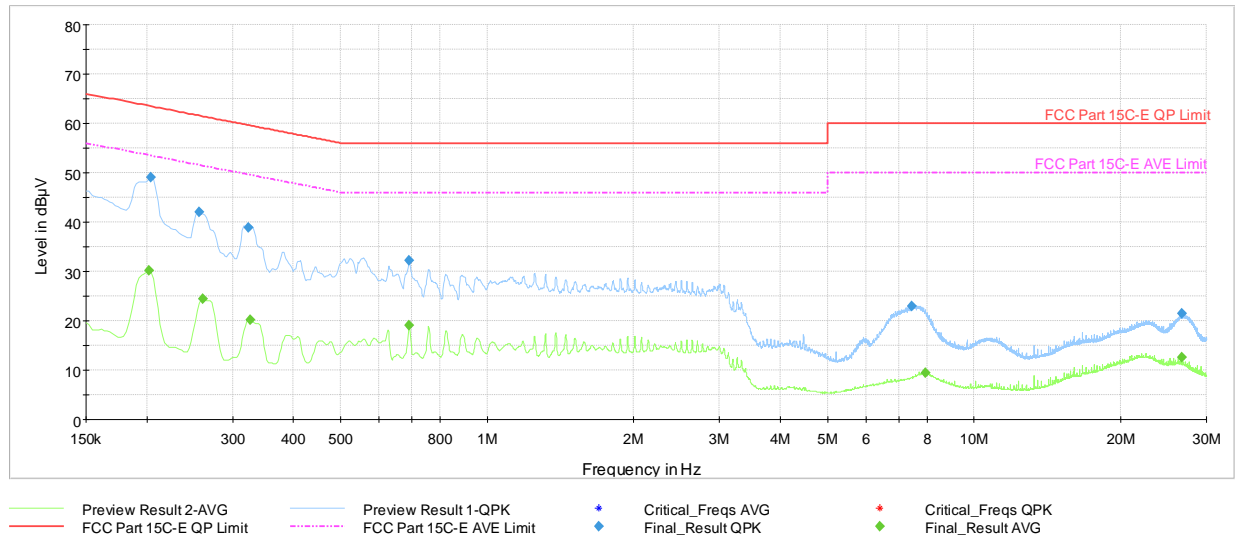
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 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 wire charger
 - EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Correction Factor (dB)
- Margin (dB) = QP/AV Level (dBμV) - QP/AV Limit (dBμV)
- Traces shown in plots are made using quasi-peak and average detectors.
- Deviations to the Specifications: None.
- The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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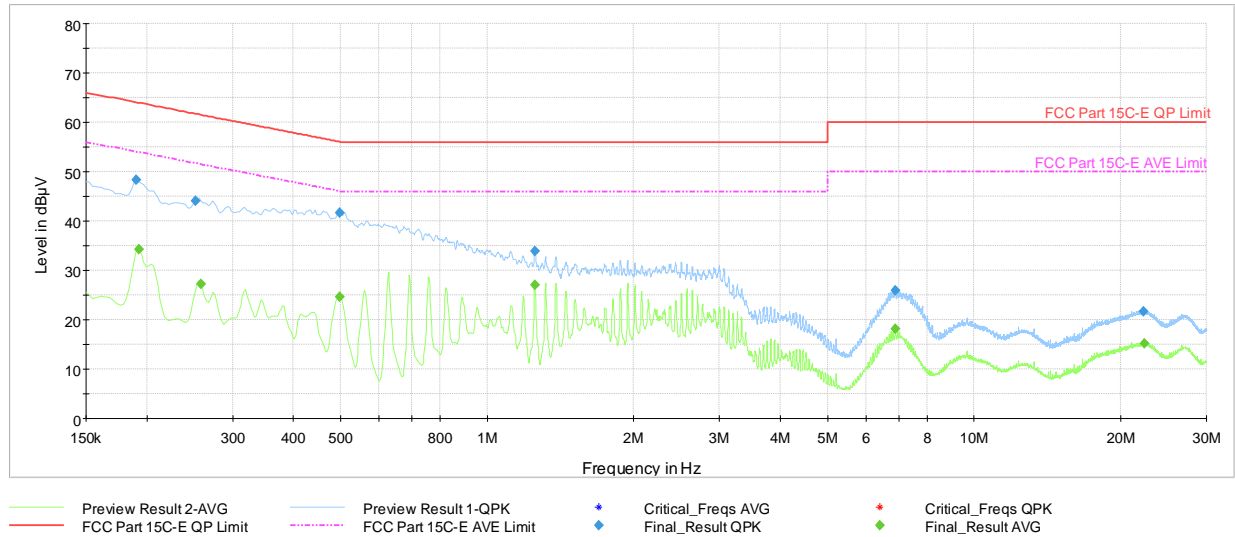
Plot 7-1817. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (L1) with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.202	FINAL	—	30.27	53.54	-23.27	L1	GND
0.204	FINAL	49.0	—	63.45	-14.43	L1	GND
0.256	FINAL	42.0	—	61.57	-19.62	L1	GND
0.260	FINAL	—	24.39	51.42	-27.04	L1	GND
0.323	FINAL	38.8	—	59.62	-20.78	L1	GND
0.326	FINAL	—	20.25	49.57	-29.32	L1	GND
0.692	FINAL	32.3	—	56.00	-23.73	L1	GND
0.692	FINAL	—	19.06	46.00	-26.94	L1	GND
7.436	FINAL	23.0	—	60.00	-37.02	L1	GND
7.935	FINAL	—	9.36	50.00	-40.64	L1	GND
26.669	FINAL	—	12.56	50.00	-37.44	L1	GND
26.669	FINAL	21.4	—	60.00	-38.57	L1	GND

Table 7-286. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (L1) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1818. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (N) with Laptop

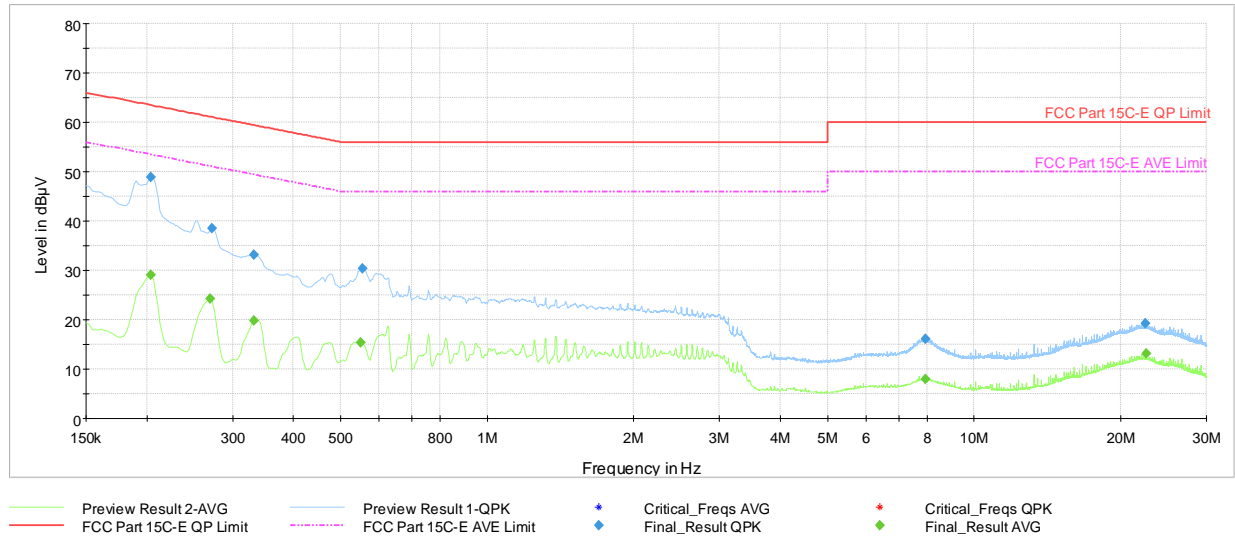
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.191	FINAL	48.4	—	64.02	-15.62	N	GND
0.193	FINAL	—	34.27	53.92	-19.64	N	GND
0.251	FINAL	44.1	—	61.72	-17.65	N	GND
0.258	FINAL	—	27.18	51.50	-24.32	N	GND
0.499	FINAL	—	24.71	46.02	-21.31	N	GND
0.499	FINAL	41.6	—	56.02	-14.41	N	GND
1.253	FINAL	33.9	—	56.00	-22.10	N	GND
1.253	FINAL	—	26.98	46.00	-19.02	N	GND
6.891	FINAL	25.9	—	60.00	-34.10	N	GND
6.891	FINAL	—	18.21	50.00	-31.79	N	GND
22.286	FINAL	21.7	—	60.00	-38.28	N	GND
22.349	FINAL	—	15.19	50.00	-34.81	N	GND

Table 7-287. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (N) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-1819. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (L1) with Laptop

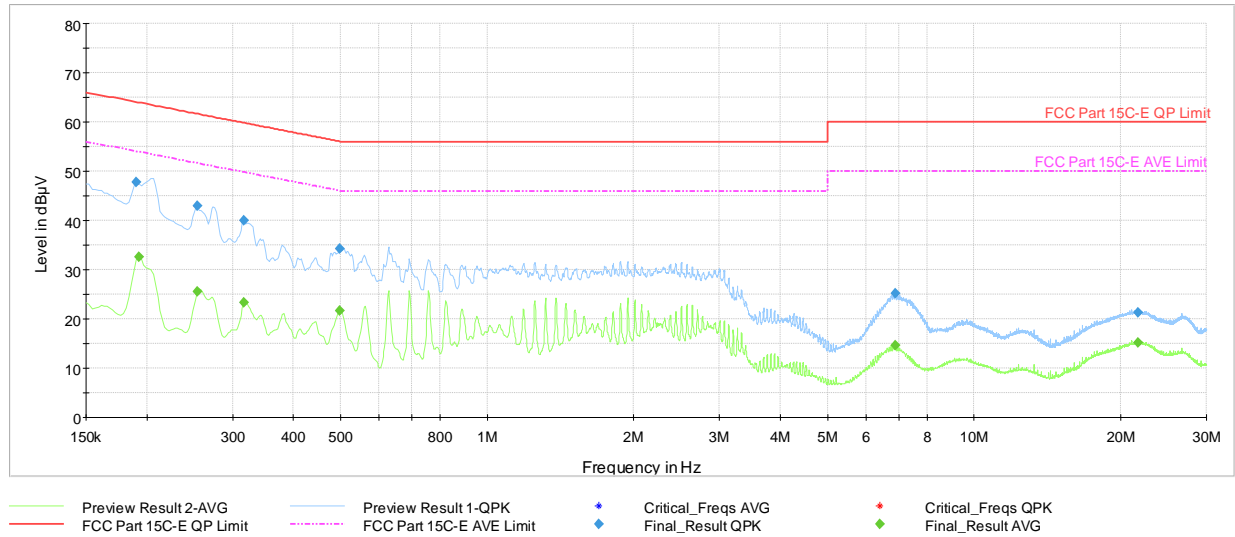
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.204	FINAL	—	29.15	53.45	-24.30	L1	GND
0.204	FINAL	48.9	—	63.45	-14.54	L1	GND
0.269	FINAL	—	24.17	51.14	-26.97	L1	GND
0.272	FINAL	38.4	—	61.07	-22.63	L1	GND
0.332	FINAL	33.2	—	59.40	-26.20	L1	GND
0.332	FINAL	—	19.78	49.40	-29.62	L1	GND
0.551	FINAL	—	15.31	46.00	-30.69	L1	GND
0.555	FINAL	30.3	—	56.00	-25.72	L1	GND
7.935	FINAL	—	7.96	50.00	-42.04	L1	GND
7.937	FINAL	16.2	—	60.00	-43.83	L1	GND
22.515	FINAL	19.3	—	60.00	-40.75	L1	GND
22.522	FINAL	—	13.07	50.00	-36.93	L1	GND

Table 7-288. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (L1) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1820. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (N) with Laptop

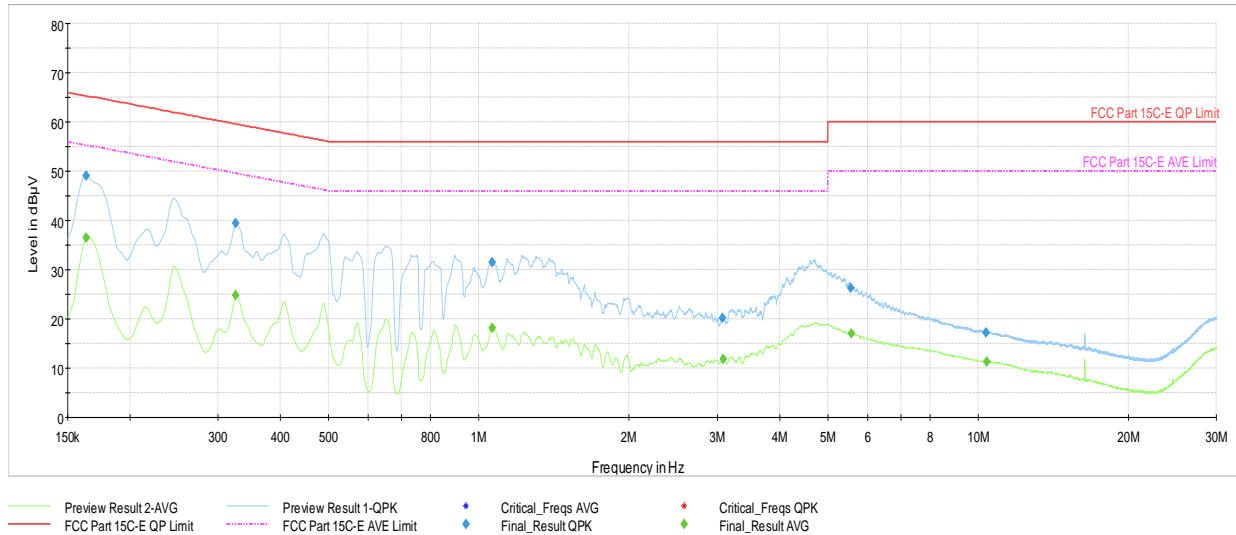
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.191	FINAL	47.9	—	64.02	-16.16	N	GND
0.193	FINAL	—	32.65	53.92	-21.26	N	GND
0.254	FINAL	—	25.55	51.64	-26.10	N	GND
0.254	FINAL	42.9	—	61.64	-18.74	N	GND
0.317	FINAL	—	23.41	49.80	-26.39	N	GND
0.317	FINAL	40.1	—	59.80	-19.74	N	GND
0.499	FINAL	34.3	—	56.02	-21.72	N	GND
0.499	FINAL	—	21.74	46.02	-24.28	N	GND
6.896	FINAL	25.1	—	60.00	-34.89	N	GND
6.898	FINAL	—	14.61	50.00	-35.39	N	GND
21.716	FINAL	—	15.18	50.00	-34.82	N	GND
21.730	FINAL	21.4	—	60.00	-38.65	N	GND

Table 7-289. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (N) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1821. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (L1) with Laptop

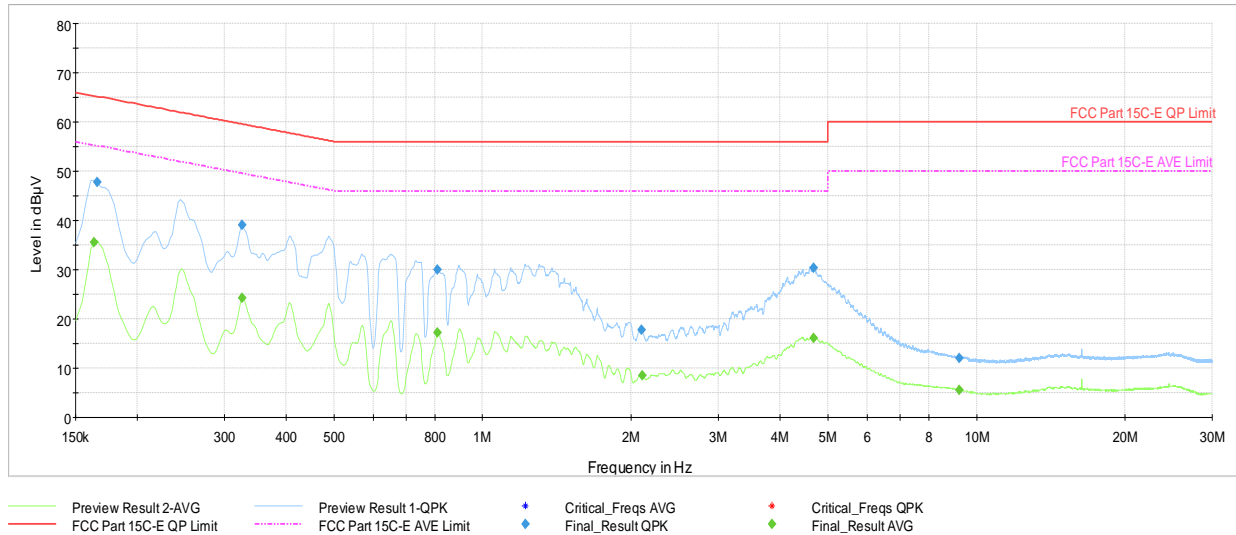
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	—	36.49	55.28	-18.79	L1	GND
0.164	FINAL	49.0	—	65.28	-16.30	L1	GND
0.326	FINAL	—	24.77	49.57	-24.79	L1	GND
0.326	FINAL	39.5	—	59.57	-20.11	L1	GND
1.061	FINAL	—	18.18	46.00	-27.82	L1	GND
1.061	FINAL	31.5	—	56.00	-24.48	L1	GND
3.077	FINAL	20.3	—	56.00	-35.72	L1	GND
3.080	FINAL	—	11.84	46.00	-34.16	L1	GND
5.564	FINAL	26.3	—	60.00	-33.67	L1	GND
5.573	FINAL	—	17.03	50.00	-32.97	L1	GND
10.370	FINAL	17.2	—	60.00	-42.78	L1	GND
10.406	FINAL	—	11.30	50.00	-38.70	L1	GND

Table 7-290. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (L1) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1822. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (N) with Laptop

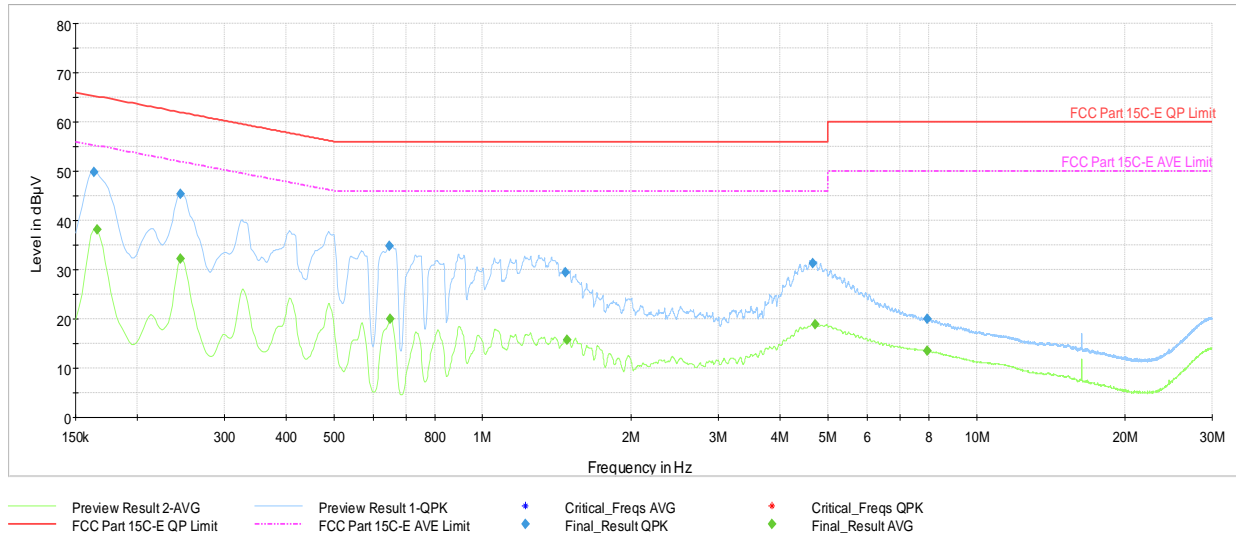
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	—	35.56	55.28	-19.72	N	GND
0.166	FINAL	47.7	—	65.17	-17.47	N	GND
0.326	FINAL	—	24.26	49.57	-25.30	N	GND
0.326	FINAL	39.0	—	59.57	-20.58	N	GND
0.809	FINAL	30.0	—	56.00	-26.02	N	GND
0.812	FINAL	—	17.20	46.00	-28.80	N	GND
2.099	FINAL	17.8	—	56.00	-38.17	N	GND
2.105	FINAL	—	8.60	46.00	-37.40	N	GND
4.682	FINAL	30.5	—	56.00	-25.55	N	GND
4.682	FINAL	—	16.10	46.00	-29.90	N	GND
9.231	FINAL	—	5.56	50.00	-44.44	N	GND
9.238	FINAL	12.1	—	60.00	-47.90	N	GND

Table 7-291. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (N) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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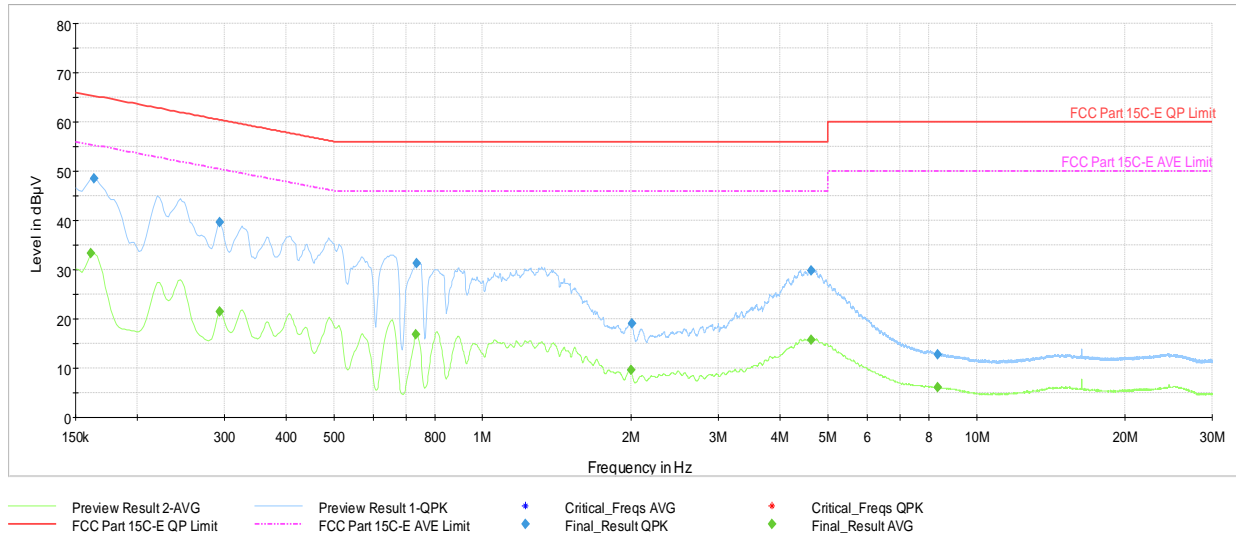
Plot 7-1823. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (L1) with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	49.8	—	65.28	-15.50	L1	GND
0.166	FINAL	—	38.20	55.17	-16.97	L1	GND
0.245	FINAL	—	32.14	51.94	-19.80	L1	GND
0.245	FINAL	45.4	—	61.94	-16.51	L1	GND
0.647	FINAL	34.8	—	56.00	-21.22	L1	GND
0.650	FINAL	—	19.95	46.00	-26.05	L1	GND
1.473	FINAL	29.5	—	56.00	-26.54	L1	GND
1.484	FINAL	—	15.71	46.00	-30.29	L1	GND
4.657	FINAL	31.4	—	56.00	-24.65	L1	GND
4.709	FINAL	—	18.93	46.00	-27.07	L1	GND
7.955	FINAL	20.0	—	60.00	-39.98	L1	GND
7.958	FINAL	—	13.49	50.00	-36.51	L1	GND

Table 7-292. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (L1) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-1824. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (N) with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	—	33.26	55.40	-22.14	N	GND
0.164	FINAL	48.5	—	65.28	-16.82	N	GND
0.294	FINAL	—	21.48	50.41	-28.94	N	GND
0.294	FINAL	39.6	—	60.41	-20.84	N	GND
0.733	FINAL	—	16.79	46.00	-29.21	N	GND
0.735	FINAL	31.3	—	56.00	-24.70	N	GND
1.995	FINAL	—	9.65	46.00	-36.35	N	GND
2.004	FINAL	19.1	—	56.00	-36.90	N	GND
4.621	FINAL	29.9	—	56.00	-26.12	N	GND
4.630	FINAL	—	15.79	46.00	-30.21	N	GND
8.329	FINAL	12.8	—	60.00	-47.16	N	GND
8.338	FINAL	—	6.07	50.00	-43.93	N	GND

Table 7-293. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (N) with Laptop

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.10 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point §15.407; RSS-248

Test Overview and Limits

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power. The term "authorized" means the AFC-approved power level for the AP to use on a particular channel.

Test Procedure Used

KDB 987594 D02 v02r01 – Section L
ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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

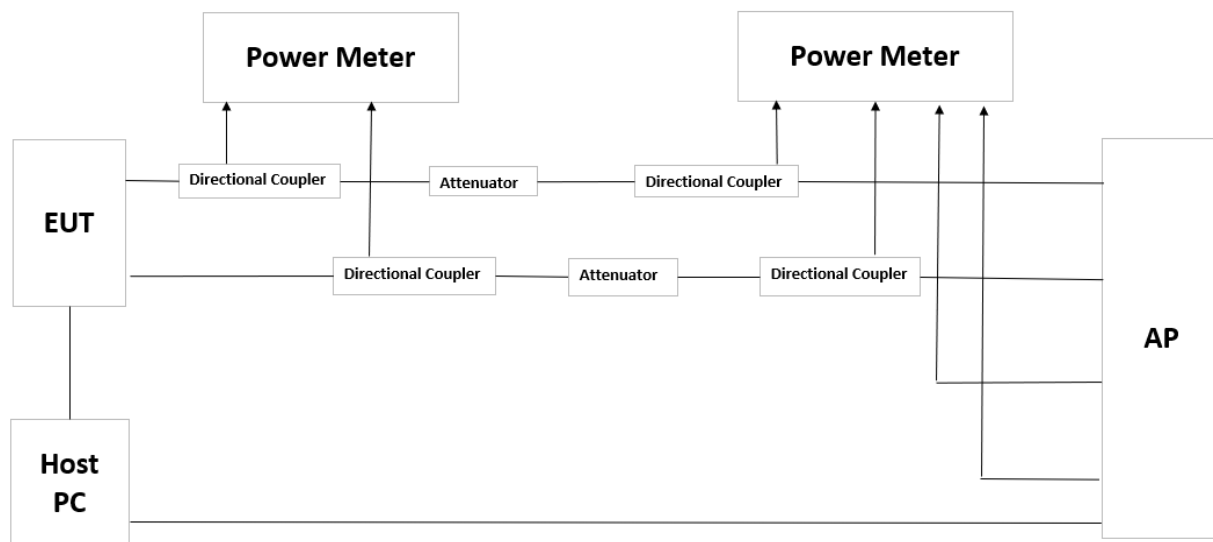


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. AFC Limit was set to 36, 28 and 21 dBm EIRP.
2. Standard Power AP which was used in the test setup is not certified and it's a production version.
3. Standard Power AP specification is declared by Apple/manufacturer.

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36 dBm EIRP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
5	5975	TxBF	19.58	19.9	19.59	19.53	25.67	6.02	31.69

Table 7-294: AP measured e.i.r.p

Channel	Frequency (MHz)	Power Measured (dBm)			Correlated Gain (dBi)	Measured e.i.r.p (dBm)
		Antenna WF7a	Antenna WF2a	Summed		
5	5975	10.21	9.56	12.91	1.2	14.11

Table 7-295: EUT measured e.i.r.p (MIMO)

FCC ID: BCGA2898 IC: 579C-A2898			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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28 dBm EIRP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
5	5975	CDD	19.59	19.82	19.71	19.52	25.68	0	25.68

Table 7-296: AP measured e.i.r.p

Channel	Frequency (MHz)	Power Measured (dBm)			Correlated Gain (dBi)	Measured e.i.r.p (dBm)
		Antenna WF7a	Antenna WF2a	Summed		
5	5975	10.15	9.58	12.88	1.2	14.08

Table 7-297: EUT measured e.i.r.p (MIMO)

FCC ID: BCGA2898 IC: 579C-A2898			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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21 dBm EIRP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
5	5975	CDD	12.86	12.65	12.76	12.29	18.67	0	18.67

Table 7-298: AP measured e.i.r.p

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF7a	5	5975	10.21	1.2	11.41
WF2a	5	5975	9.34	1.0	10.34

Table 7-299: EUT measured e.i.r.p (SISO)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.11 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP §15.407

Test Overview and Limits

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations, and then control the power levels accordingly.

Test Procedure Used

KDB 987594 D02 v02r01 – Section K
ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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

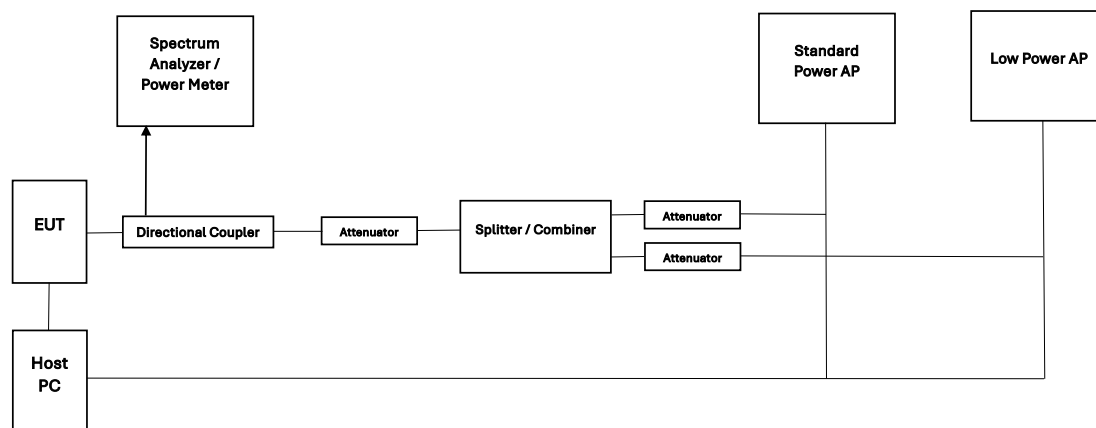



Figure 7-10. Test Instrument & Measurement Setup

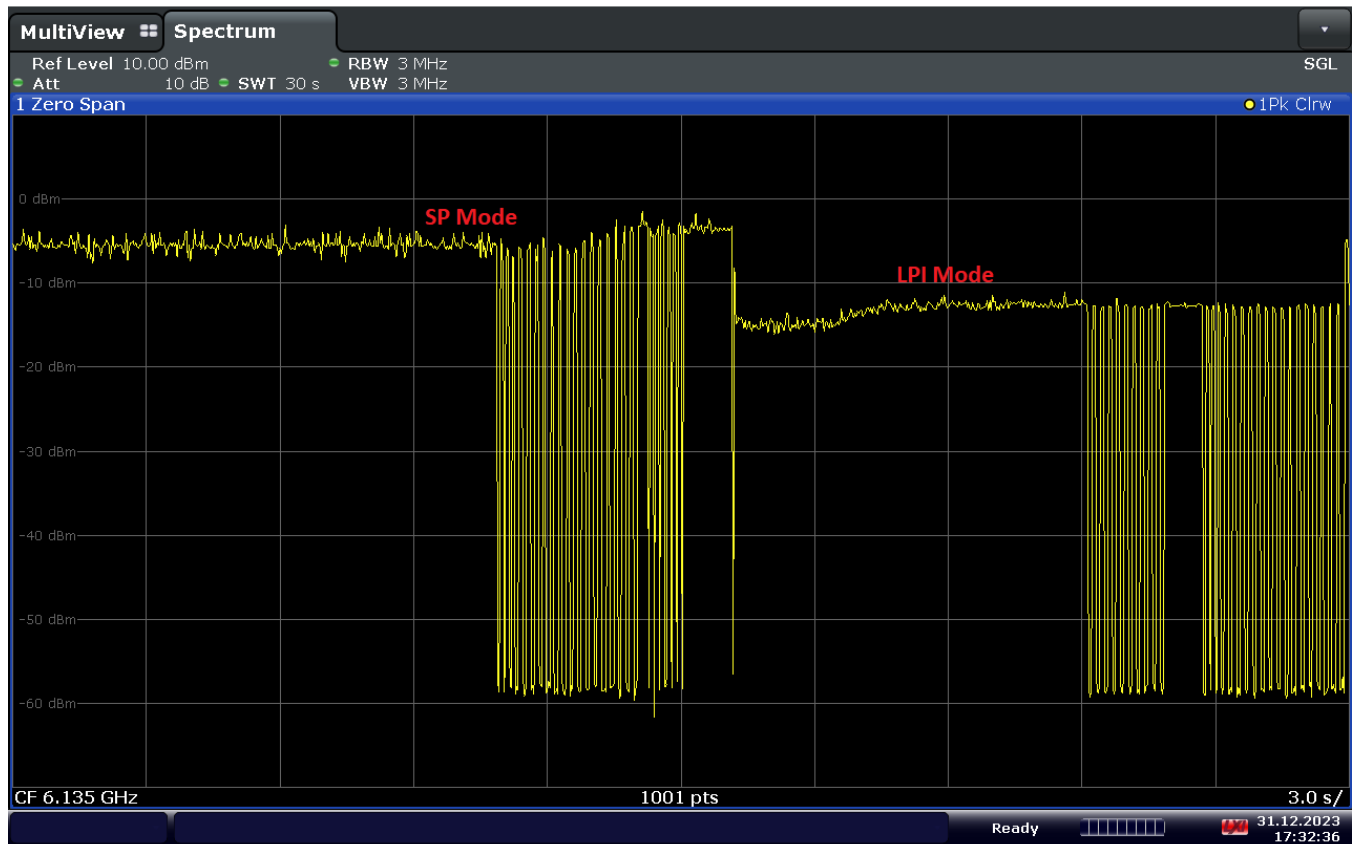
Test Notes

1. Standard Power AP was set on highest power setting (36dBm EIRP)
2. Standard Power AP and Low Power Indoor AP were configured to transmit on same channel.
3. DUT was configured for SISO transmission so Antenna WF7a was measured.

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Plot 7-1825. Client device observation from Standard Power AP to Low Power Indoor AP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
37	6135	TxBF	19.42	19.67	19.58	19.49	25.56	6.02	31.58

Table 7-300: Measured e.i.r.p from Standard Power AP

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF7a	37	6135	11.10	1.2	12.30

Table 7-301: EUT measured e.i.r.p when established with Standard Power AP

FCC ID: BCGA2898 IC: 579C-A2898			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF7a	37	6135	6.91	1.2	8.11


Table 7-302: EUT measured e.i.r.p when established with Low Power Indoor AP

FCC ID: BCGA2898 IC: 579C-A2898		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 Tablet Device FCC ID: BCGA2898** and **IC: 579C-A2898** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-248 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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