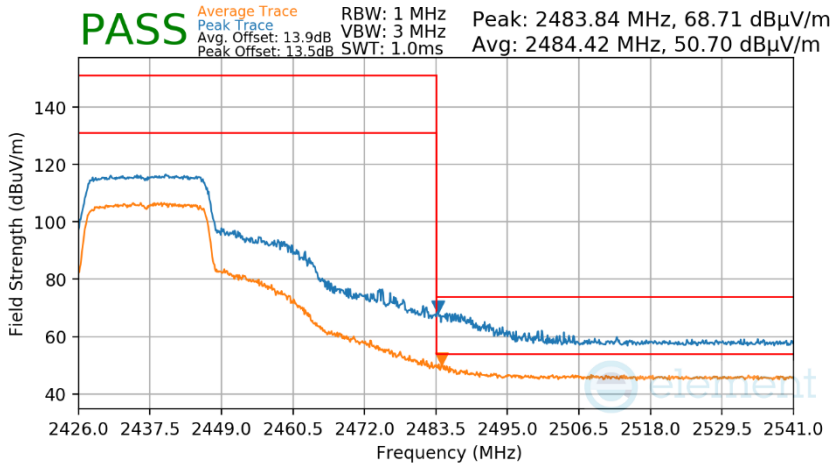
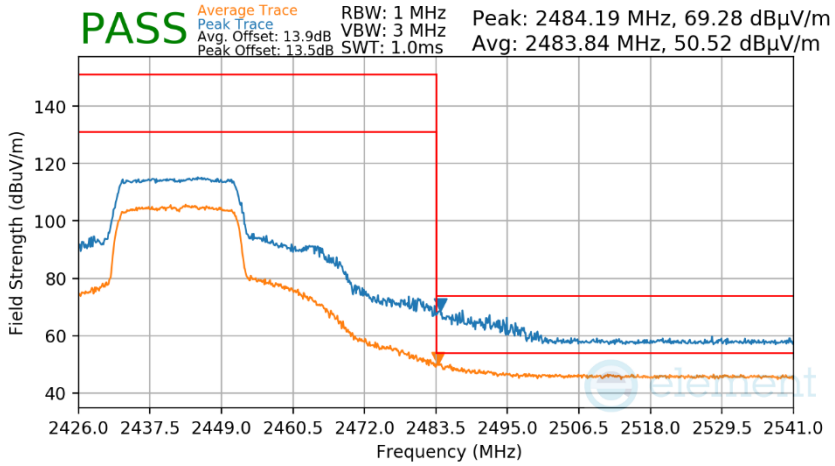
Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2437MHz**
Channel:	**6**



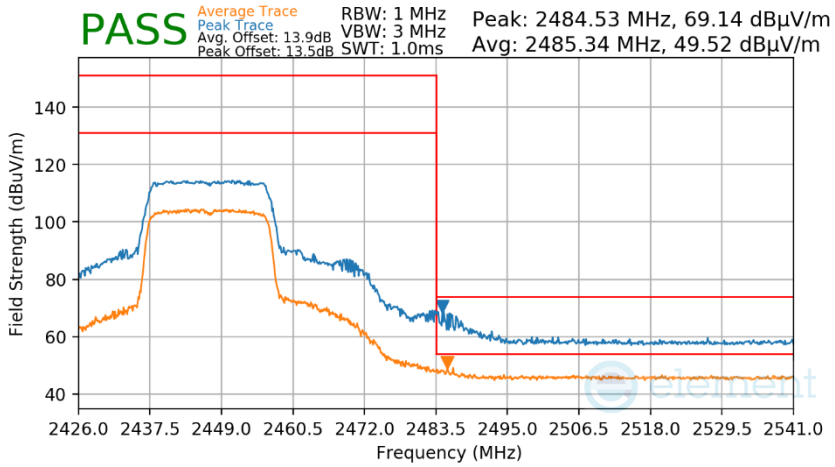
Plot 7-158 Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2442MHz**
Channel:	**7**



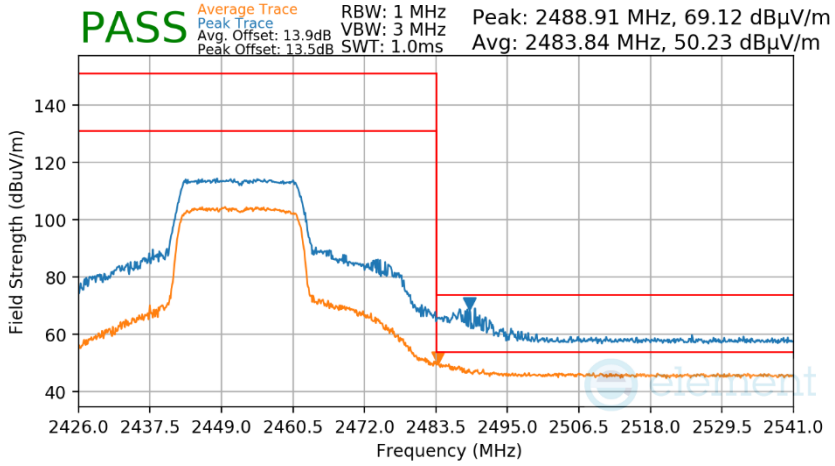
Plot 7-159 Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2447MHz**
Channel:	**8**



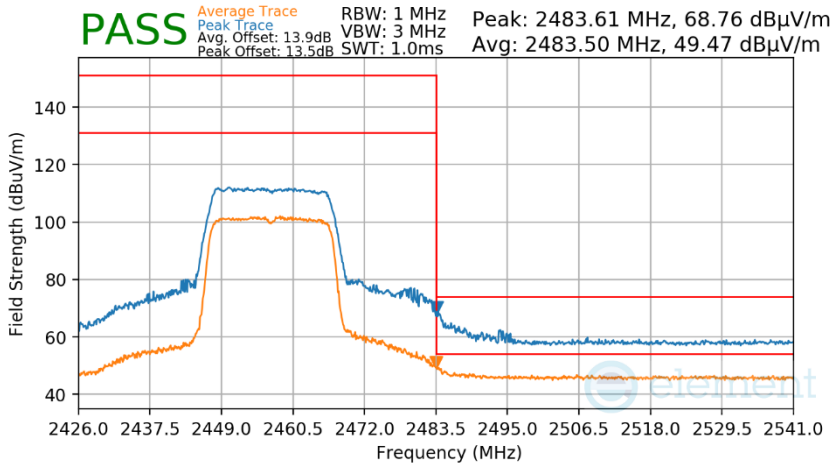
Plot 7-160 Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2452MHz**
Channel:	**9**



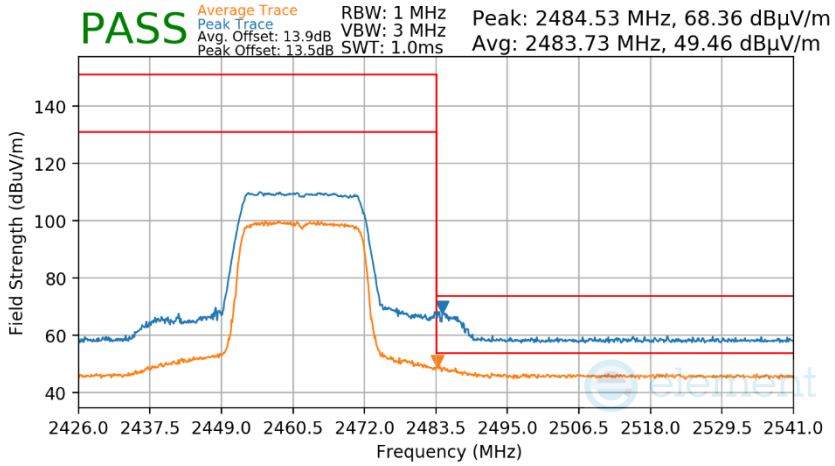
Plot 7-161 Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2457MHz**
Channel:	**10**



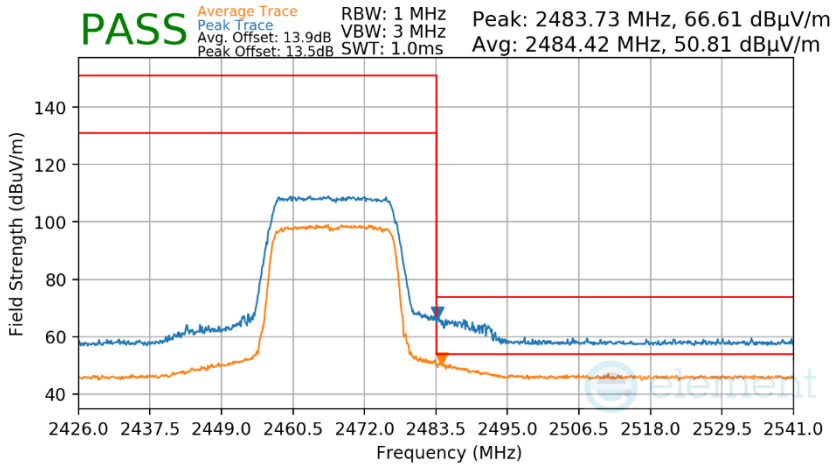
Plot 7-162 Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2462MHz**
Channel:	**11**



Plot 7-163 Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2467MHz**
Channel:	**12**



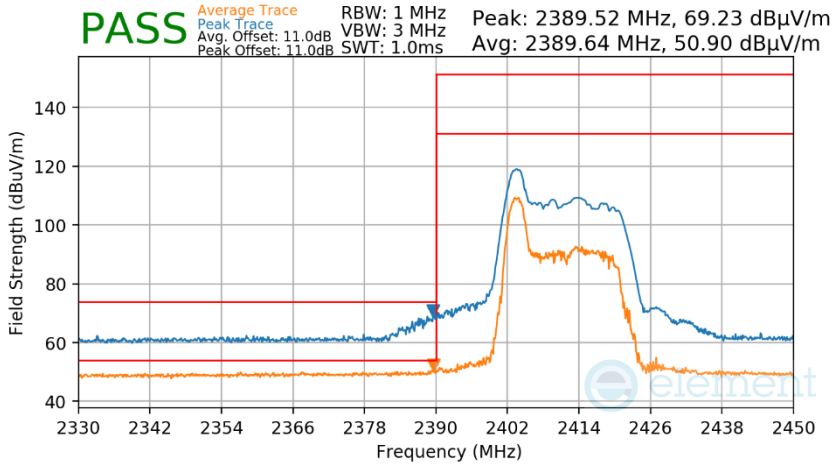
Plot 7-164 Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Peak & Average – RU242)

7.7.5 Antenna WF7 Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

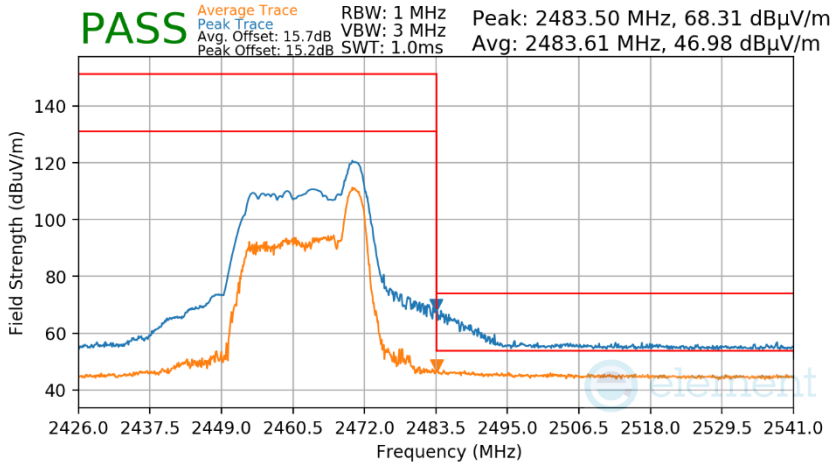
RU26

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**0**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2412MHz**
Channel:	**1**



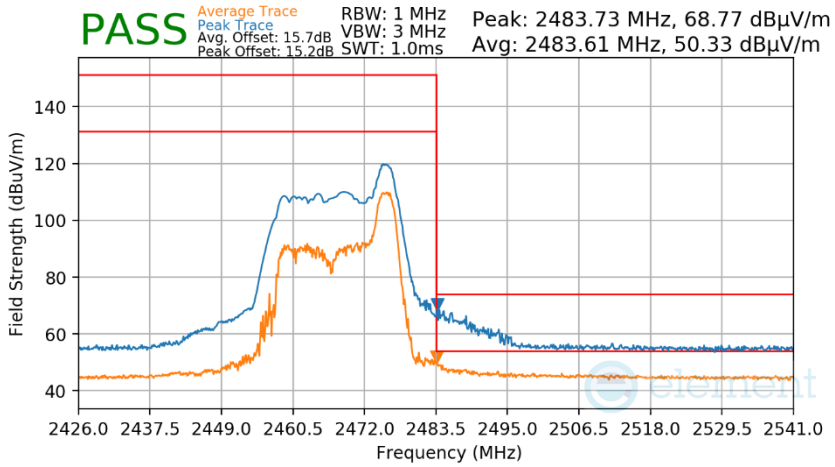
Plot 7-165 Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Peak & Average – RU26)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**8**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2462MHz**
Channel:	**11**



Plot 7-166 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU26)

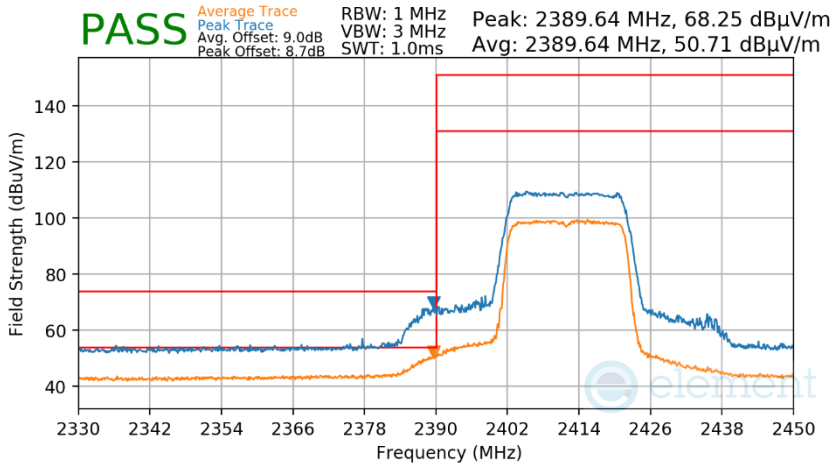
Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**8**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2467MHz**
Channel:	**12**



Plot 7-167 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU26)

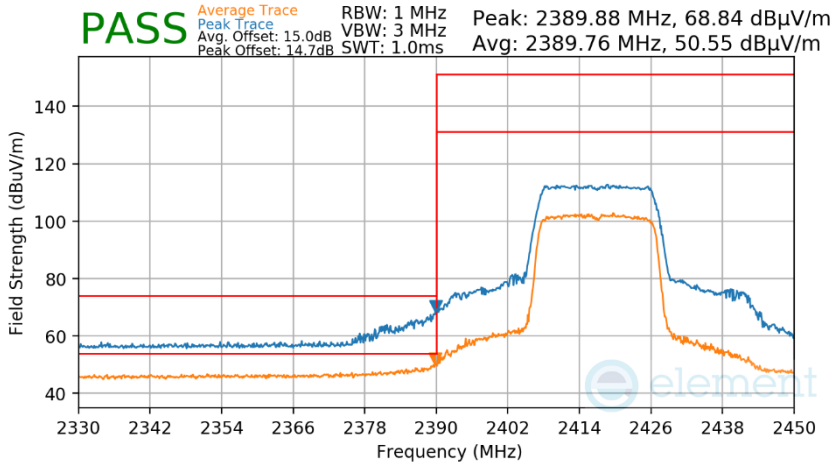
RU242

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2412MHz**
Channel:	**1**



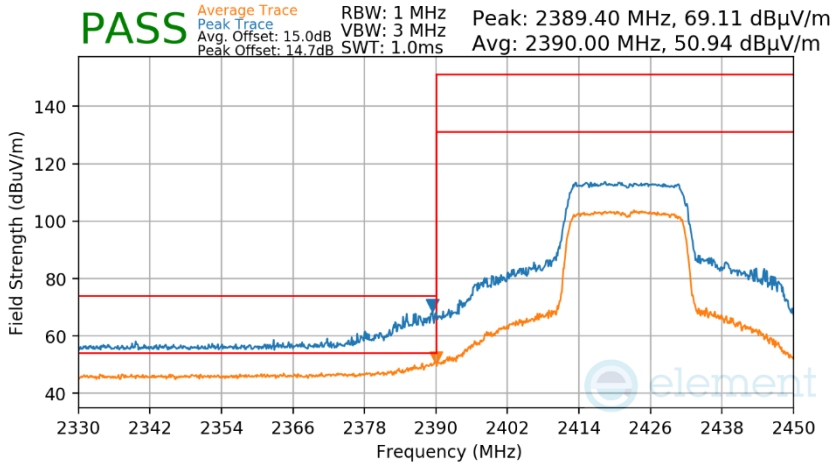
Plot 7-168 Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2417MHz**
Channel:	**2**



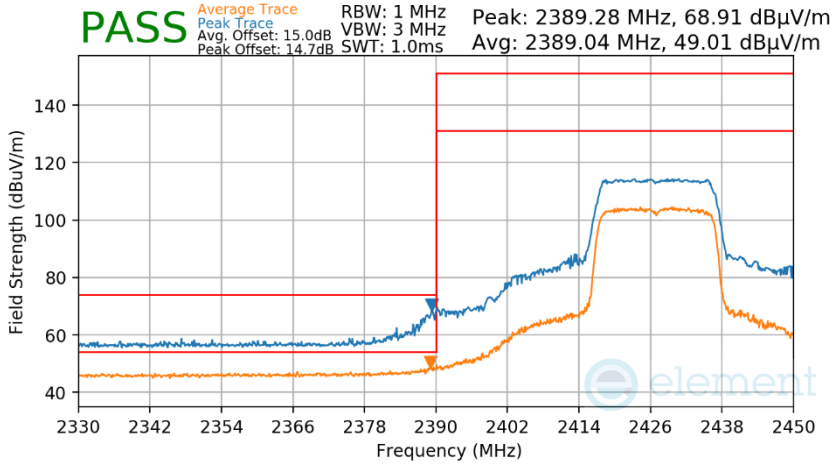
Plot 7-169 Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2422MHz**
Channel:	**3**



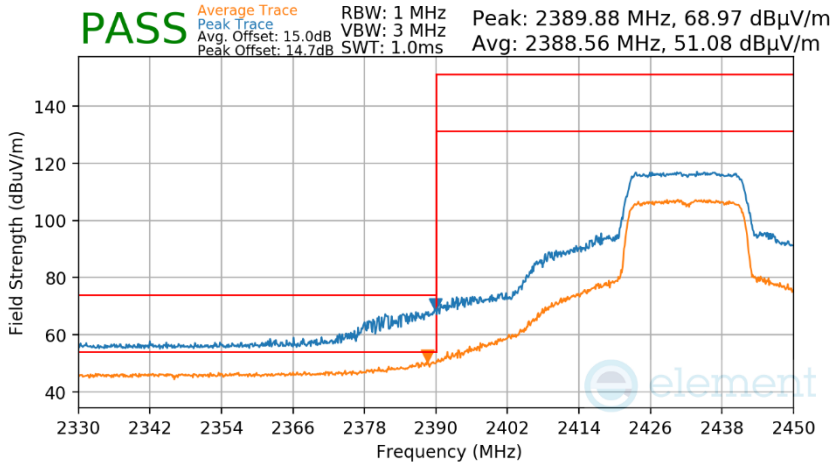
Plot 7-170 Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2427MHz**
Channel:	**4**



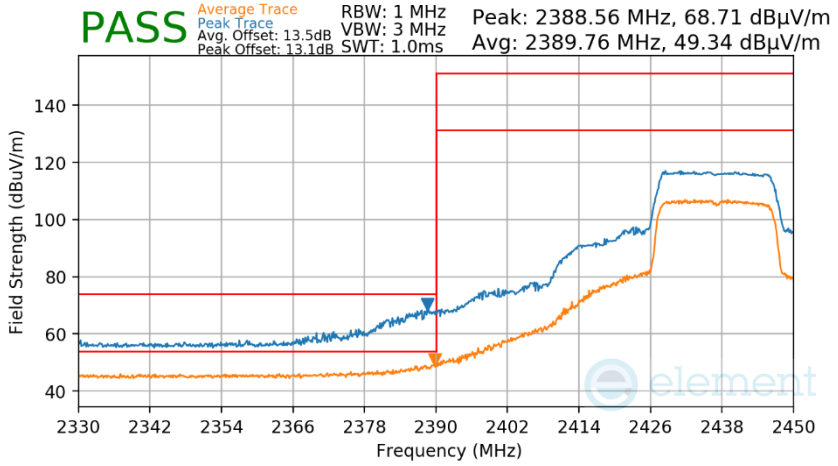
Plot 7-171 Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2432MHz**
Channel:	**5**



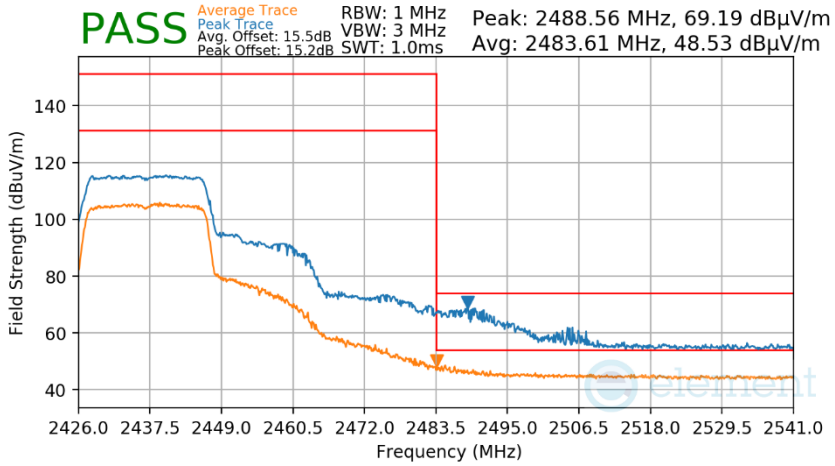
Plot 7-172 Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2437MHz**
Channel:	**6**



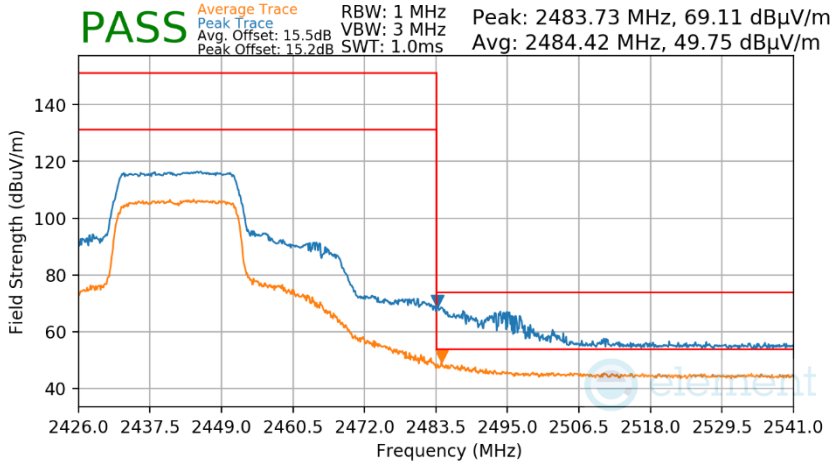
Plot 7-173 Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2437MHz**
Channel:	**6**



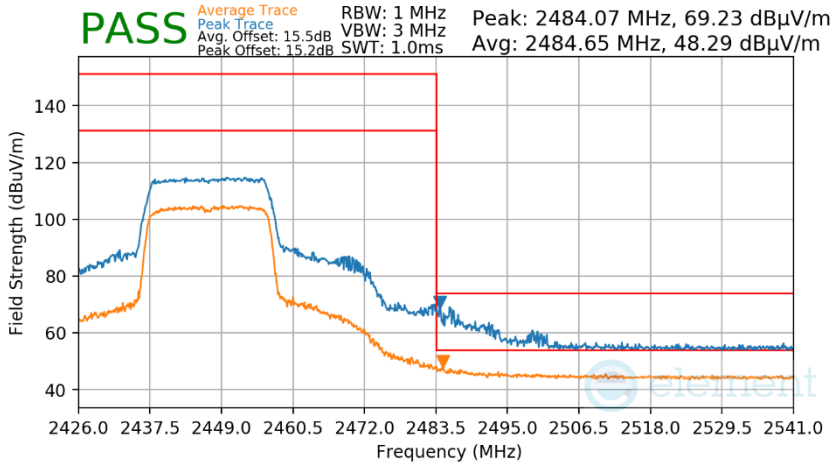
Plot 7-174 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2442MHz**
Channel:	**7**



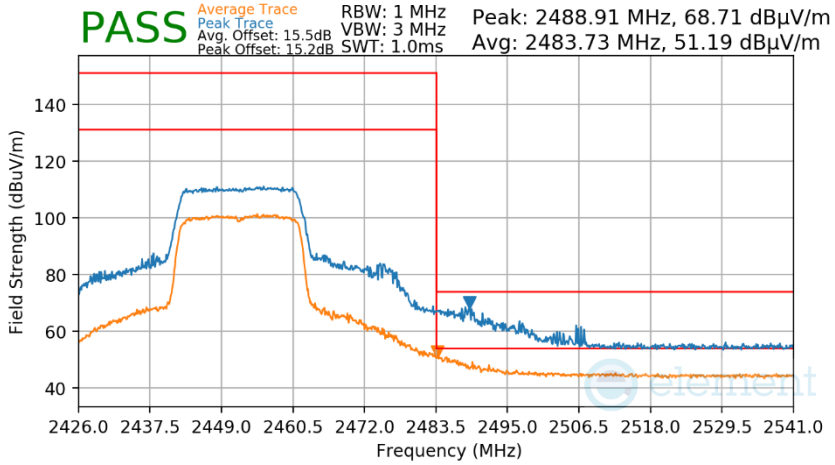
Plot 7-175 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2447MHz**
Channel:	**8**



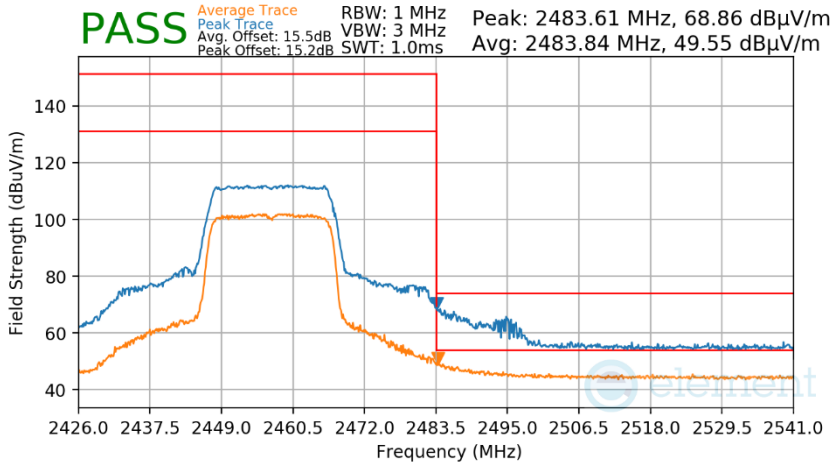
Plot 7-176 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2452MHz**
Channel:	**9**



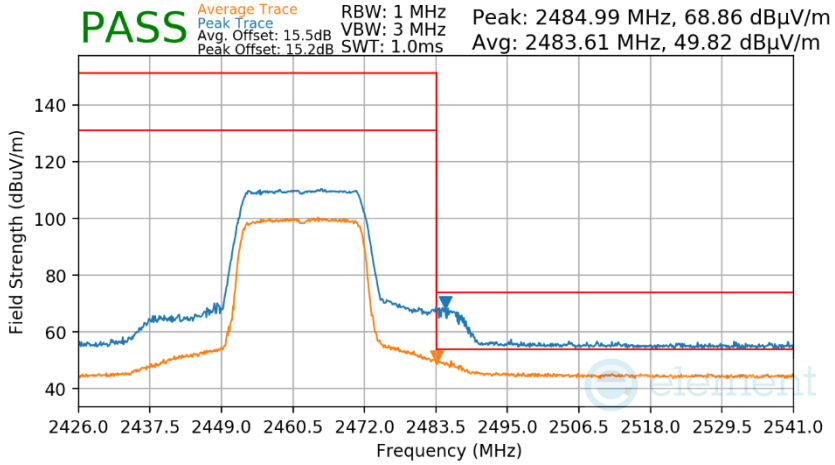
Plot 7-177 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2457MHz**
Channel:	**10**



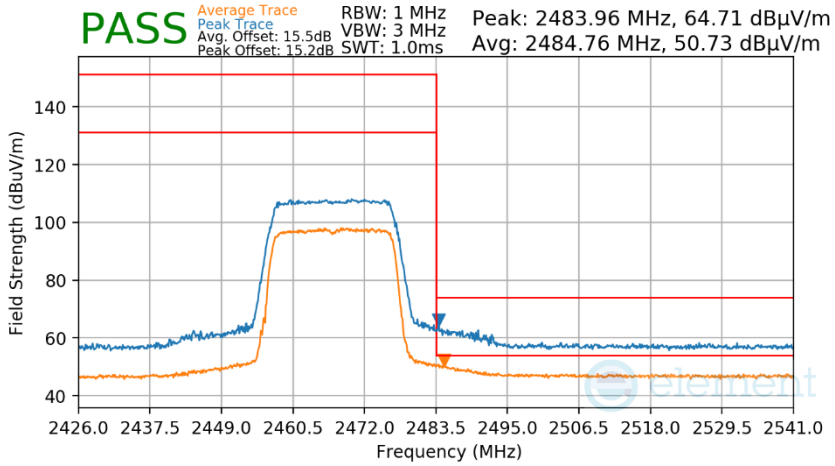
Plot 7-178 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2462MHz**
Channel:	**11**



Plot 7-179 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2467MHz**
Channel:	**12**



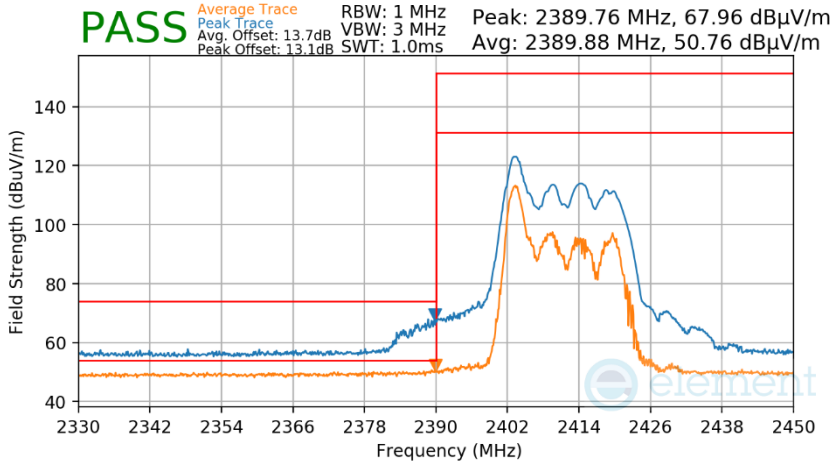
Plot 7-180 Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Peak & Average – RU242)

7.7.6 CDD Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

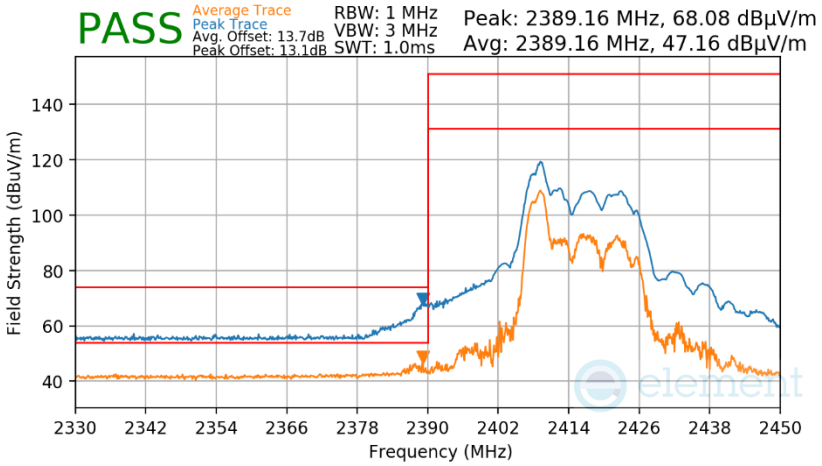
RU26

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**0**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2412MHz**
Channel:	**1**



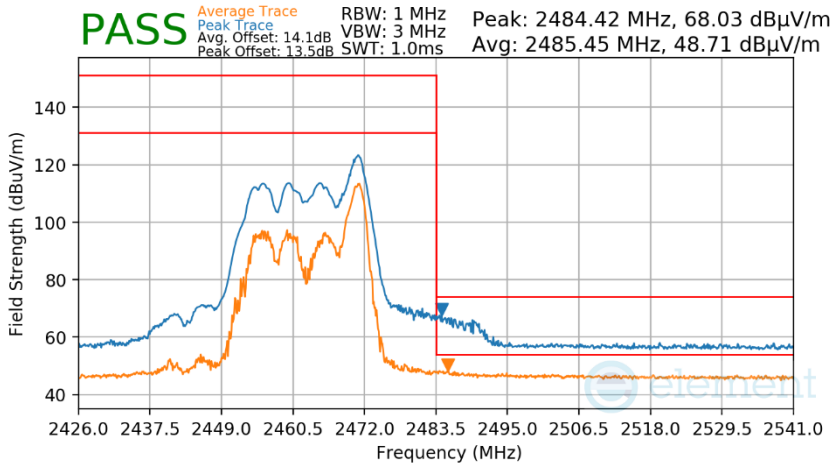
Plot 7-181 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**0**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2417MHz**
Channel:	**2**



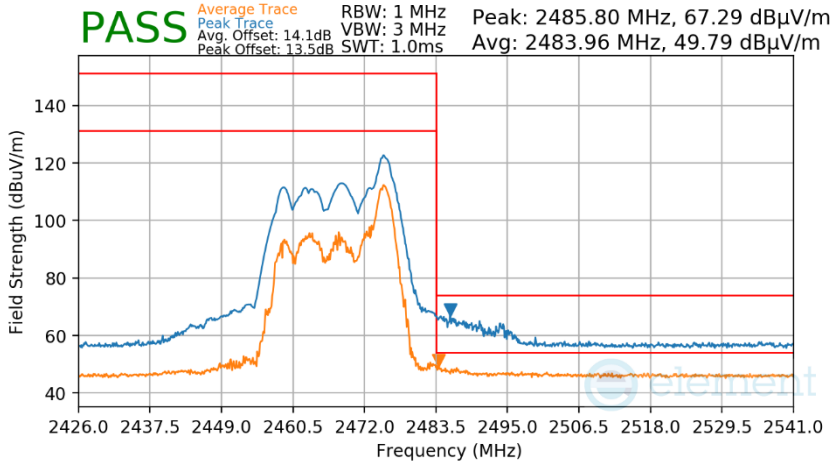
Plot 7-182 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**8**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2462MHz**
Channel:	**11**



Plot 7-183 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

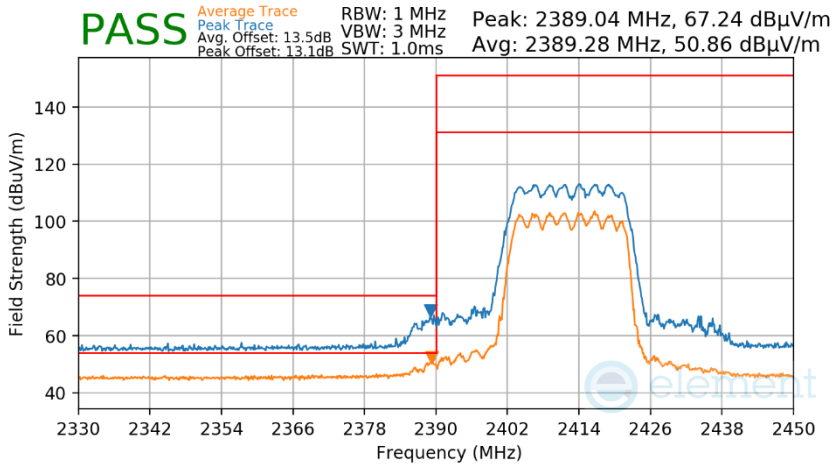
Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**8**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2467MHz**
Channel:	**12**



Plot 7-184 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

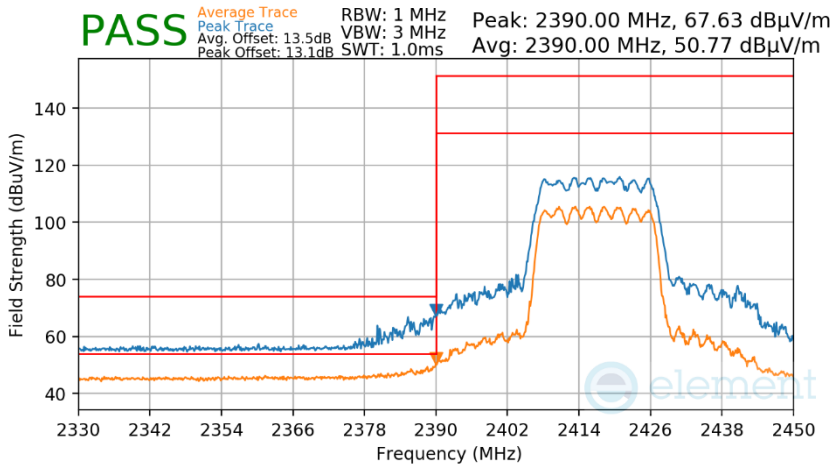
RU242

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2412MHz**
Channel:	**1**



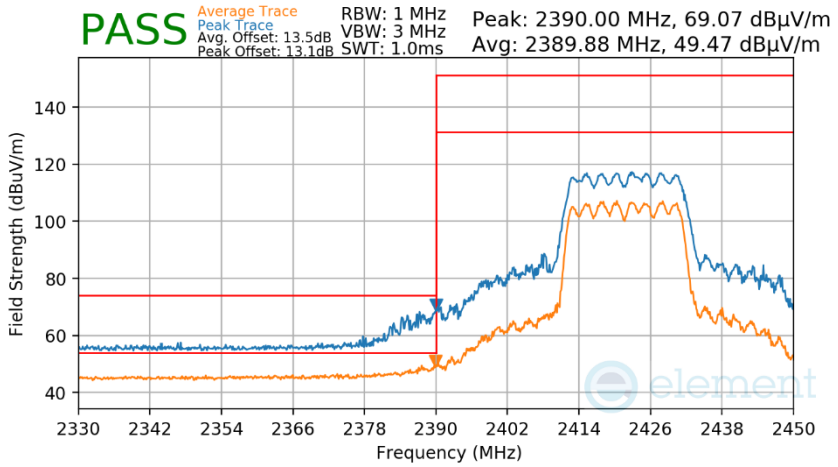
Plot 7-185 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2417MHz**
Channel:	**2**



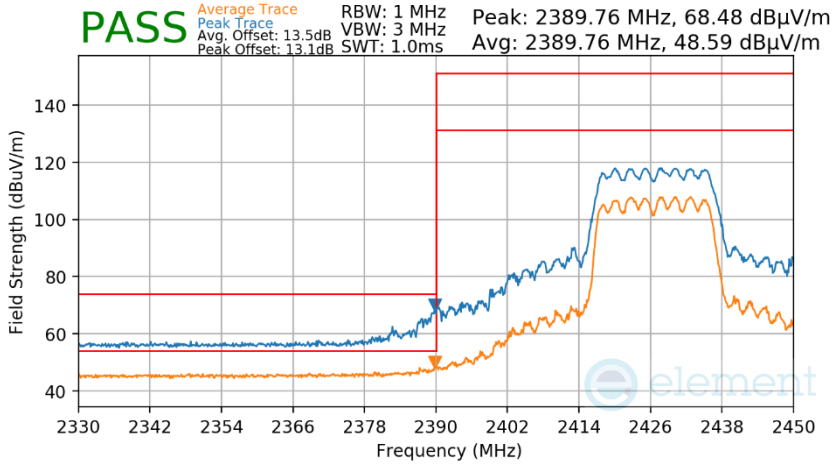
Plot 7-186 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2422MHz**
Channel:	**3**



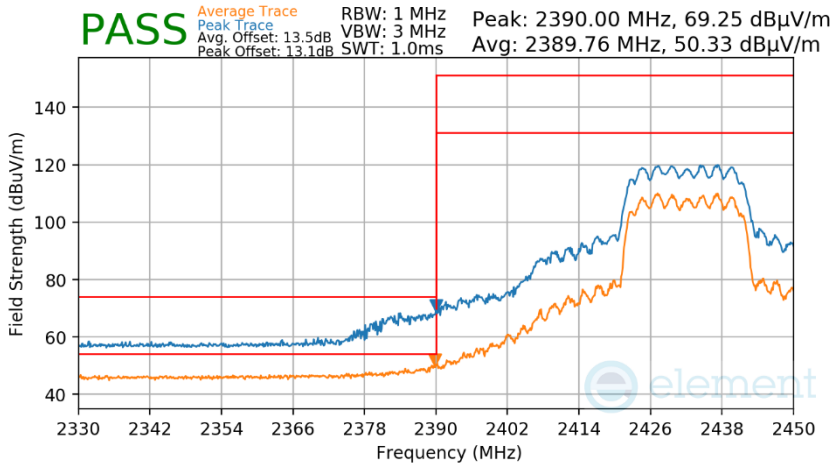
Plot 7-187 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2427MHz**
Channel:	**4**



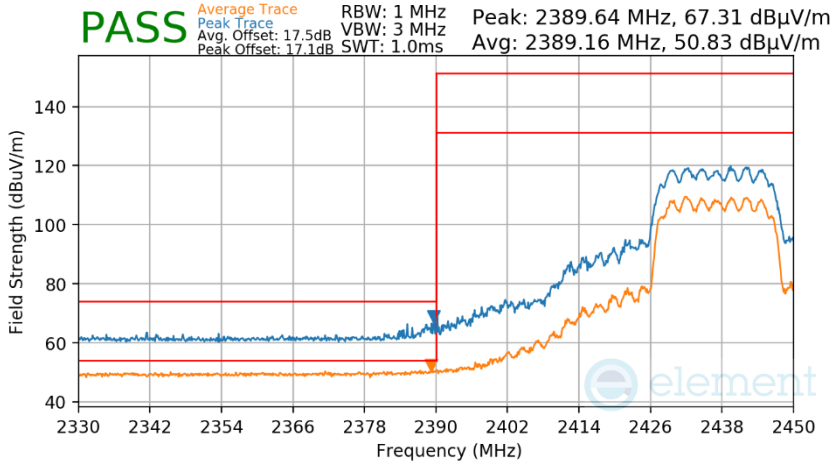
Plot 7-188 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2432MHz**
Channel:	**5**



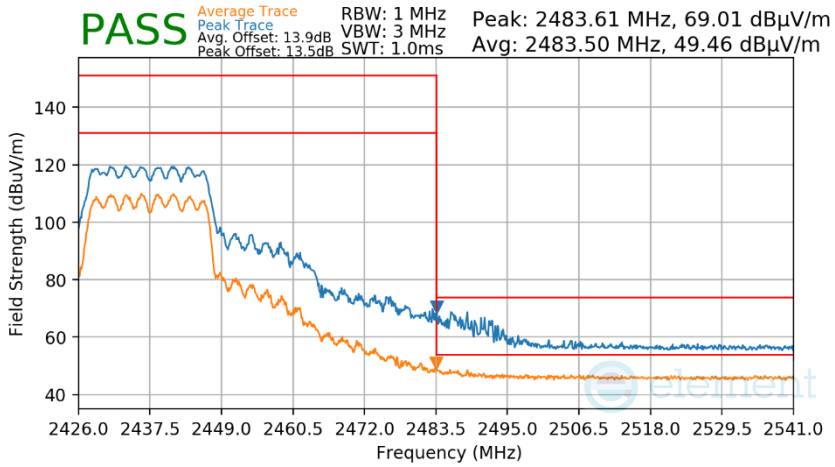
Plot 7-189 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2437MHz**
Channel:	**6**



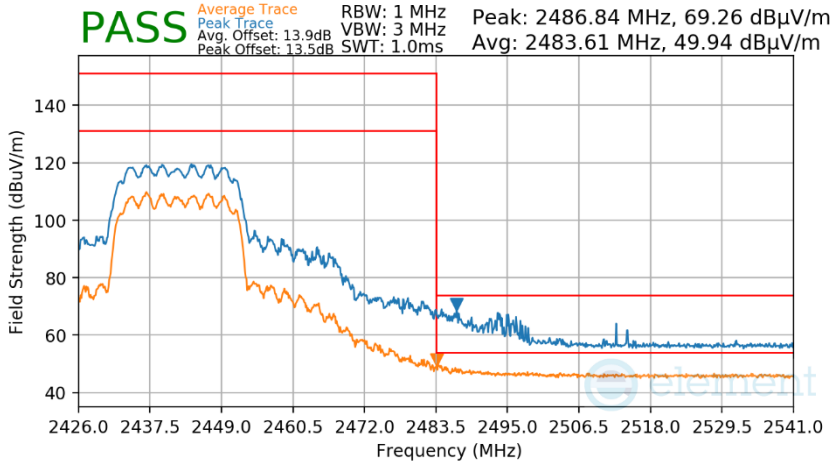
Plot 7-190 Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2437MHz**
Channel:	**6**



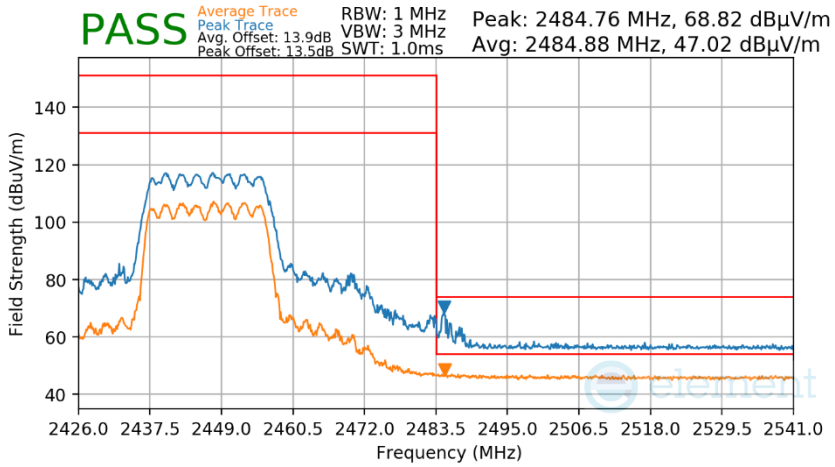
Plot 7-191 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2442MHz**
Channel:	**7**



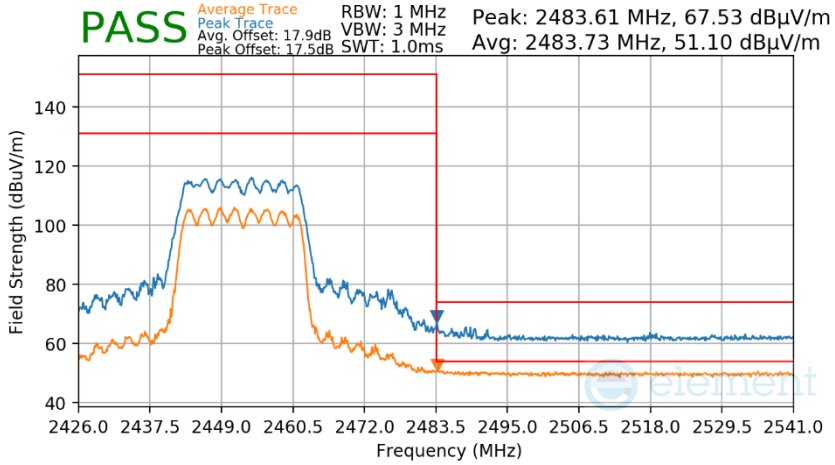
Plot 7-192 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2447MHz**
Channel:	**8**



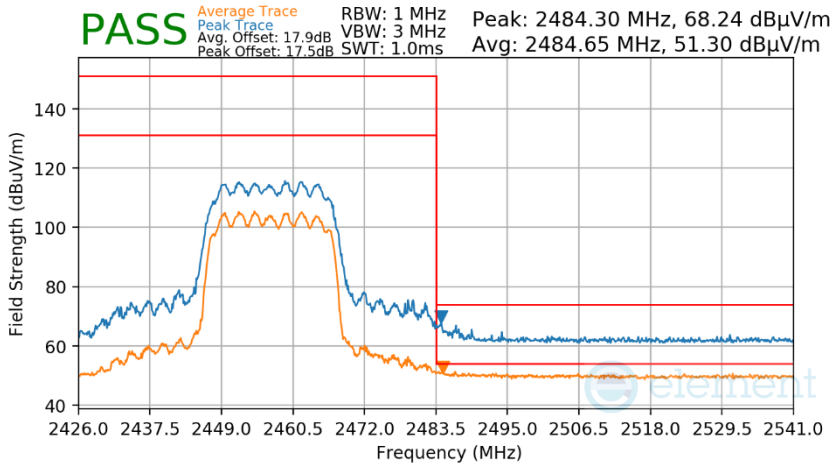
Plot 7-193 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2452MHz**
Channel:	**9**



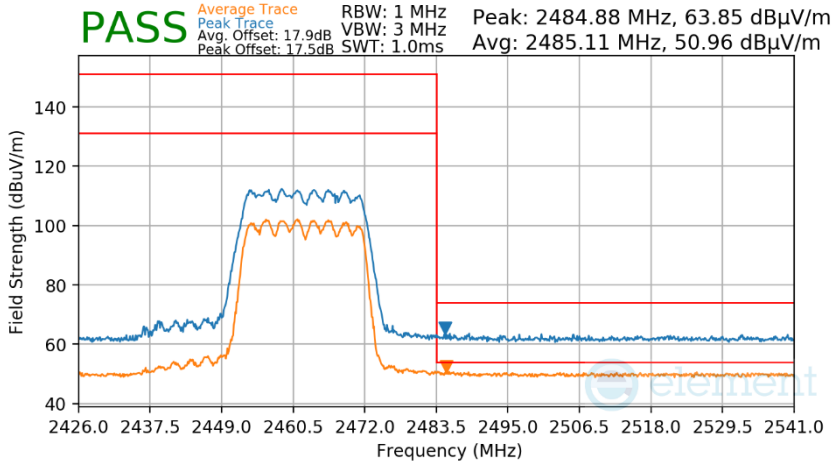
Plot 7-194 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2457MHz**
Channel:	**10**



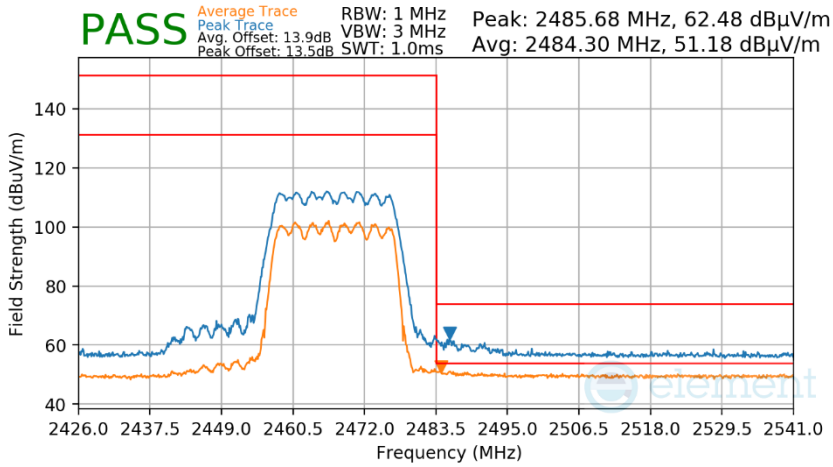
Plot 7-195 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2462MHz**
Channel:	**11**



Plot 7-196 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Mode:	**802.11ax OFDMA**
Transfer Rate:	**MCS9**
RU Index:	**61**
Distance of Measurements:	**3 Meters**
Operating Frequency:	**2467MHz**
Channel:	**12**



Plot 7-197 Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

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 7-43 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 7-43. 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
7. Trace was allowed to stabilize

Test Setup

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

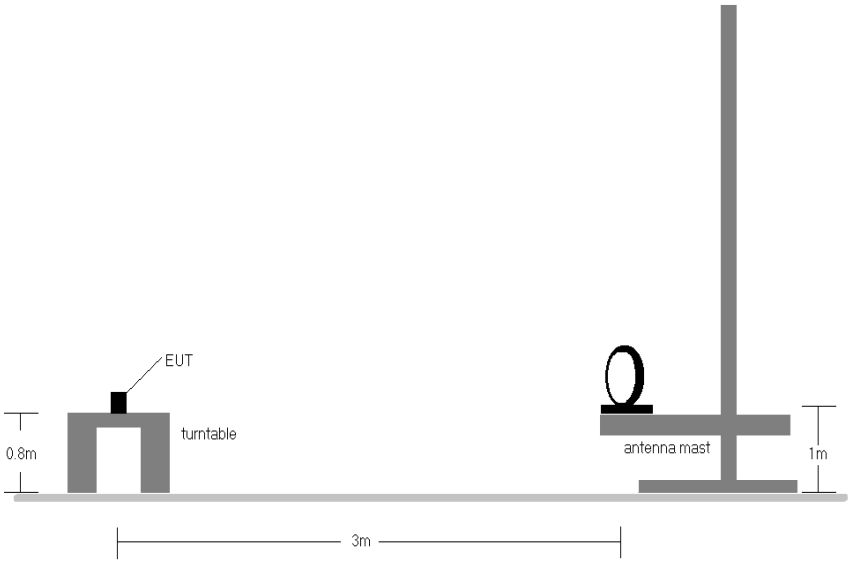


Figure 7-7. Radiated Test Setup < 30MHz

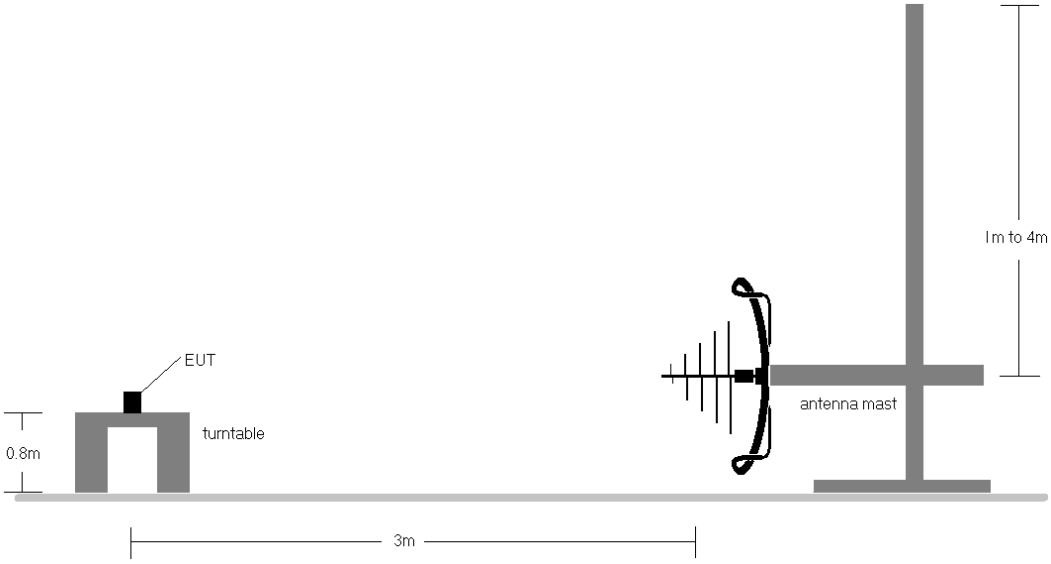


Figure 7-8. Radiated Test Setup < 1GHz

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 7-43.
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. 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. All antenna configurations and data rates were investigated and only the worst case are reported.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.
11. 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

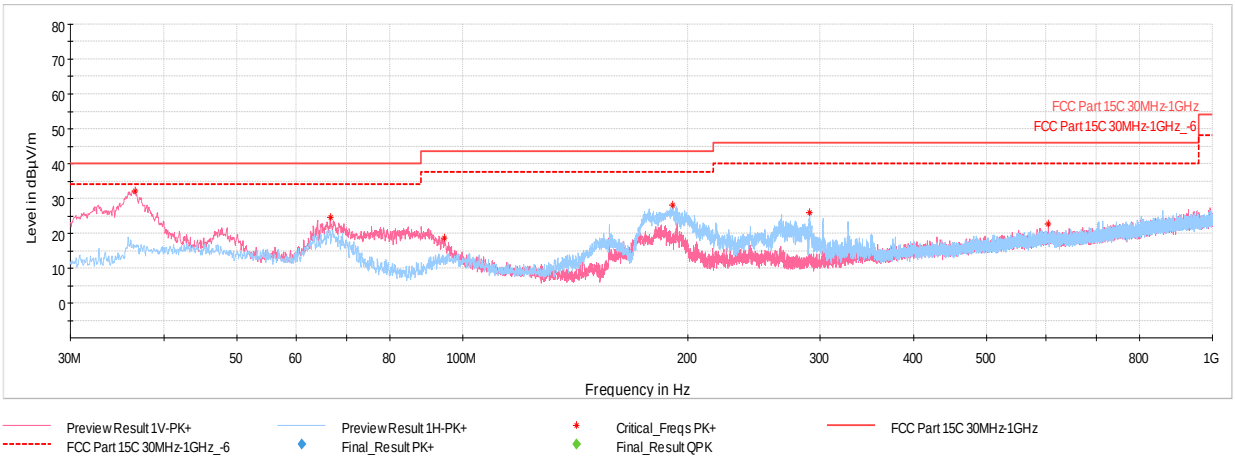
Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]}$ = 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 $_{[dB\mu V/m]}$ – Limit $_{[dB\mu V/m]}$

CDD Radiated Spurious Emissions Measurements (Below 1GHz)

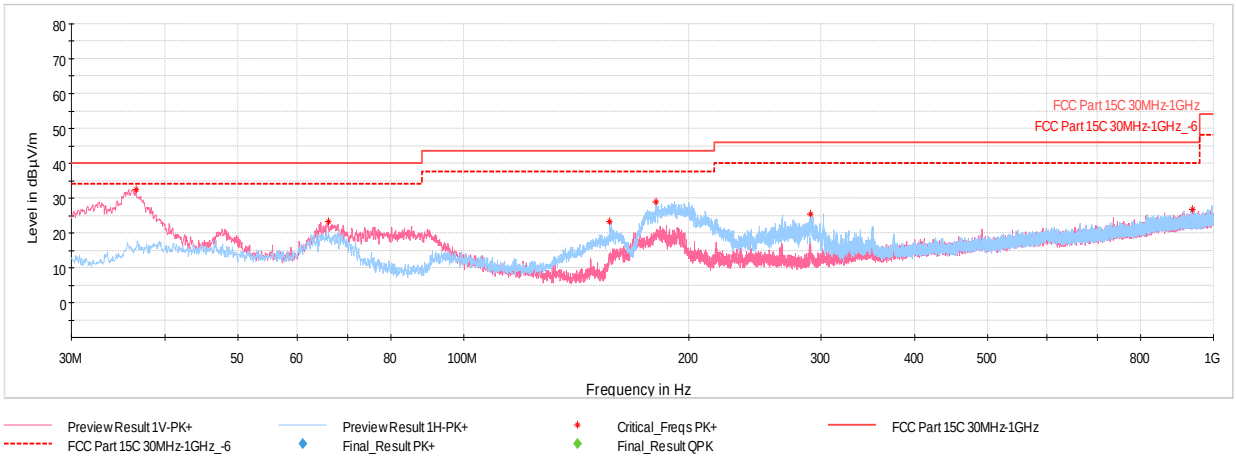
§15.209; RSS-Gen [8.9]



Plot 7-198. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC adaptor via USB-C cable with wire 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]
36.60	Max-Peak	V	100	259	-60.07	-14.71	32.22	40.00	-7.78
66.67	Max-Peak	V	100	221	-65.44	-17.10	24.46	40.00	-15.54
94.55	Max-Peak	V	100	141	-71.55	-16.89	18.56	43.52	-24.96
190.68	Max-Peak	H	100	178	-62.05	-16.85	28.10	43.52	-15.42
290.20	Max-Peak	H	100	110	-66.93	-14.09	25.98	46.02	-20.04
604.39	Max-Peak	V	300	173	-77.62	-6.63	22.75	46.02	-23.27

Table 7-44. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC adaptor via USB-C cable with wire charger



Plot 7-199. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC adaptor via USB-C cable with wire 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]
36.60	Max-Peak	V	100	270	-59.93	-14.71	32.36	40.00	-7.64
66.04	Max-Peak	V	100	207	-66.93	-16.90	23.17	40.00	-16.83
156.73	Max-Peak	H	200	194	-64.41	-19.24	23.35	43.52	-20.17
180.74	Max-Peak	H	200	142	-60.10	-17.98	28.92	43.52	-14.60
290.30	Max-Peak	H	100	242	-67.40	-14.09	25.51	46.02	-20.51
938.84	Max-Peak	V	100	156	-78.37	-1.88	26.75	46.02	-19.27

Table 7-45. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC adaptor via USB-C cable with wire charger

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 7-46. 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

Test Setup

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

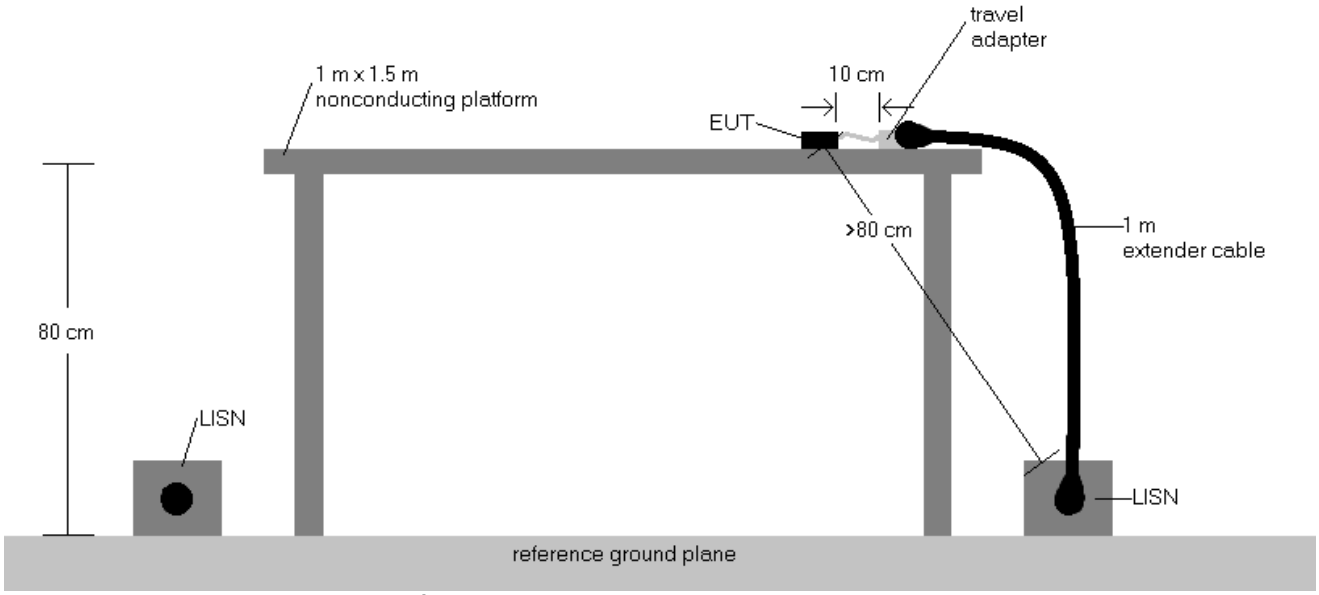
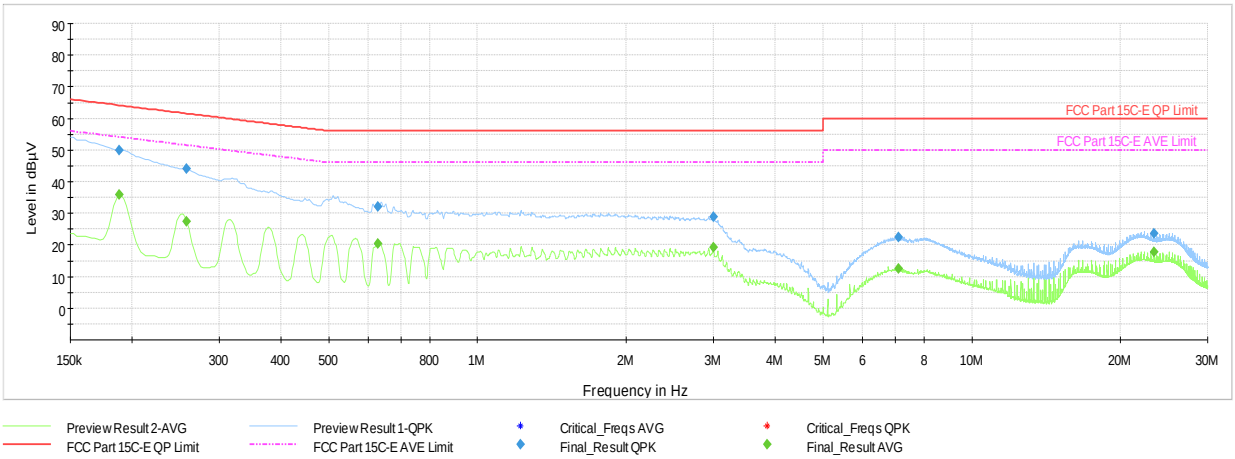


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

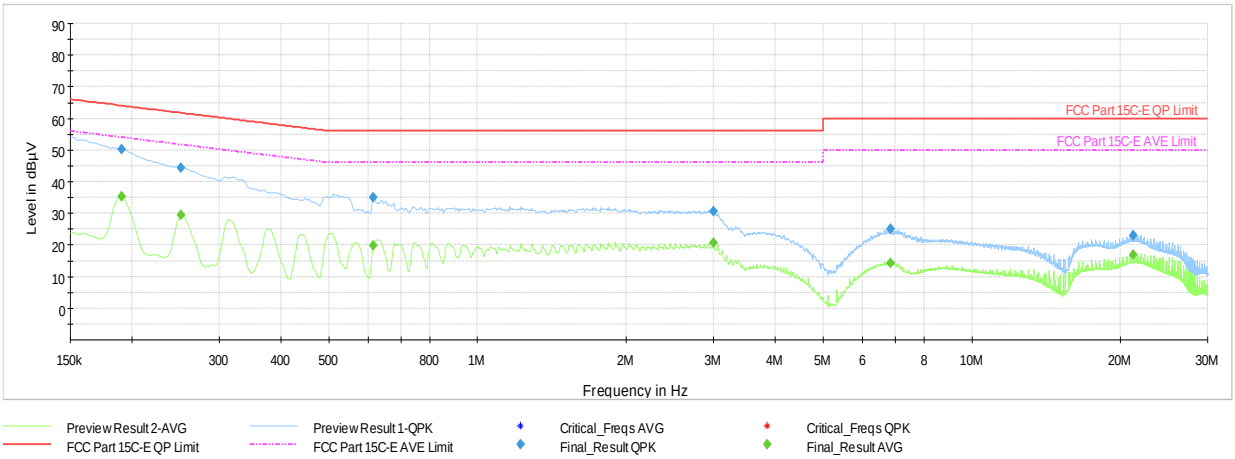
1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
   a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
   b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Correction Factore (dB)
6. Margin (dB) = QP/AV Level (dBµV) - QP/AV Limit (dBµV)
7. Traces shown in plot are made using quasi peak and average detectors.
8. Deviations to the Specifications: None.
9. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's are reported.



Plot 7-200. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (L1, with host PC via USB-C cable with wire charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.188	FINAL	—	35.78	54.11	-18.34	L1	GND
0.188	FINAL	49.9	—	64.11	-14.23	L1	GND
0.258	FINAL	—	27.42	51.50	-24.08	L1	GND
0.258	FINAL	44.1	—	61.50	-17.45	L1	GND
0.629	FINAL	—	20.48	46.00	-25.52	L1	GND
0.629	FINAL	32.1	—	56.00	-23.95	L1	GND
2.999	FINAL	28.9	—	56.00	-27.13	L1	GND
2.999	FINAL	—	19.17	46.00	-26.83	L1	GND
7.096	FINAL	22.3	—	60.00	-37.68	L1	GND
7.096	FINAL	—	12.47	50.00	-37.53	L1	GND
23.336	FINAL	—	17.75	50.00	-32.25	L1	GND
23.336	FINAL	23.5	—	60.00	-36.52	L1	GND

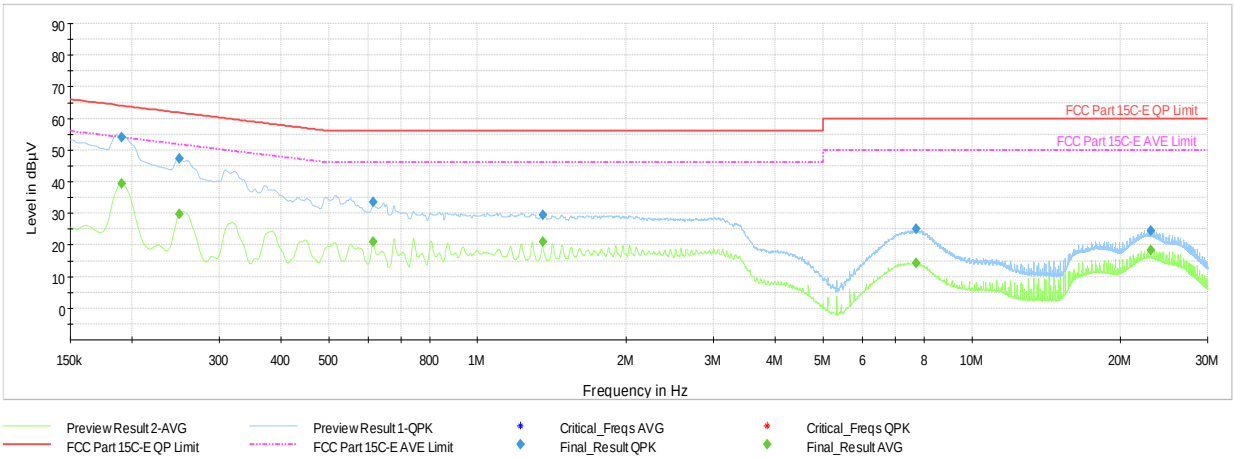
Table 7-47. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (L1, with host PC via USB-C cable with wire charger)



Plot 7-201. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (N, with host PC via USB-C cable with wire charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.191	FINAL	—	35.41	54.02	-18.60	N	GND
0.191	FINAL	50.1	—	64.02	-13.90	N	GND
0.251	FINAL	—	29.34	51.72	-22.38	N	GND
0.251	FINAL	44.4	—	61.72	-17.31	N	GND
0.614	FINAL	—	19.75	46.00	-26.25	N	GND
0.614	FINAL	35.0	—	56.00	-20.99	N	GND
2.999	FINAL	30.6	—	56.00	-25.43	N	GND
2.999	FINAL	—	20.73	46.00	-25.27	N	GND
6.851	FINAL	25.1	—	60.00	-34.95	N	GND
6.851	FINAL	—	14.27	50.00	-35.73	N	GND
21.224	FINAL	—	16.86	50.00	-33.14	N	GND
21.224	FINAL	22.9	—	60.00	-37.09	N	GND

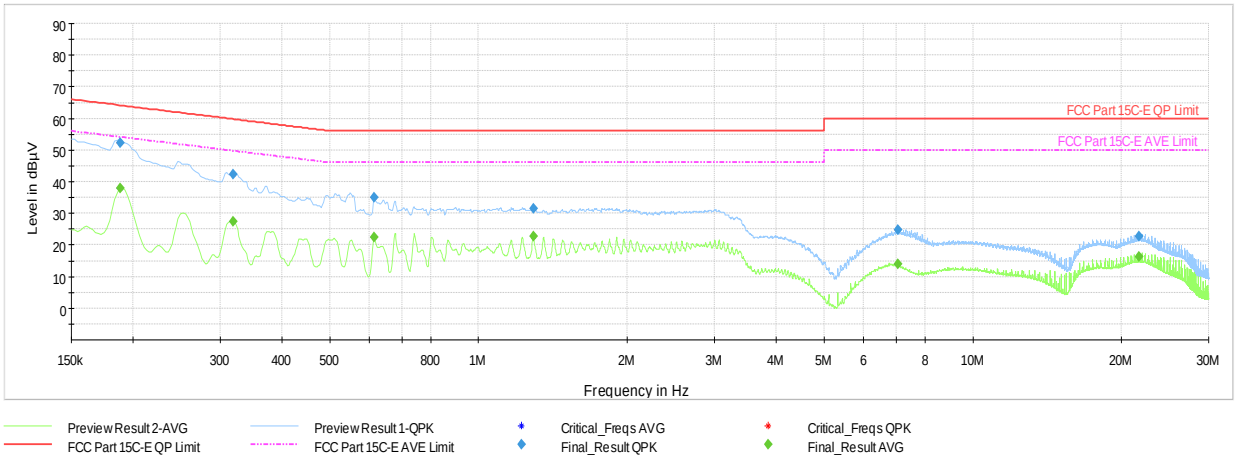
Table 7-48. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (N, with host PC via USB-C cable with wire charger)



Plot 7-202. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (L1, with host PC via USB-C cable with wire charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.191	FINAL	—	39.35	54.02	-14.67	L1	GND
0.191	FINAL	54.0	—	64.02	-9.97	L1	GND
0.249	FINAL	—	29.69	51.79	-22.10	L1	GND
0.249	FINAL	47.2	—	61.79	-14.59	L1	GND
0.616	FINAL	—	20.88	46.00	-25.12	L1	GND
0.616	FINAL	33.5	—	56.00	-22.53	L1	GND
1.354	FINAL	29.4	—	56.00	-26.65	L1	GND
1.354	FINAL	—	20.91	46.00	-25.09	L1	GND
7.726	FINAL	25.1	—	60.00	-34.93	L1	GND
7.726	FINAL	—	14.21	50.00	-35.79	L1	GND
23.001	FINAL	—	18.46	50.00	-31.54	L1	GND
23.001	FINAL	24.5	—	60.00	-35.52	L1	GND

Table 7-49. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (L1, with host PC via USB-C cable with wire charger)



Plot 7-203. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (N, with host PC via USB-C cable with wire charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.188	FINAL	—	38.09	54.11	-16.02	N	GND
0.188	FINAL	52.2	—	64.11	-11.88	N	GND
0.319	FINAL	—	27.39	49.74	-22.35	N	GND
0.319	FINAL	42.5	—	59.74	-17.28	N	GND
0.614	FINAL	—	22.47	46.00	-23.53	N	GND
0.614	FINAL	35.0	—	56.00	-20.96	N	GND
1.291	FINAL	31.4	—	56.00	-24.58	N	GND
1.291	FINAL	—	22.87	46.00	-23.13	N	GND
7.051	FINAL	24.7	—	60.00	-35.26	N	GND
7.051	FINAL	—	13.88	50.00	-36.12	N	GND
21.671	FINAL	—	16.36	50.00	-33.64	N	GND
21.671	FINAL	22.8	—	60.00	-37.25	N	GND

Table 7-50. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (N, with host PC via USB-C cable with wire charger)

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2993, IC: 579C-A2993** 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.