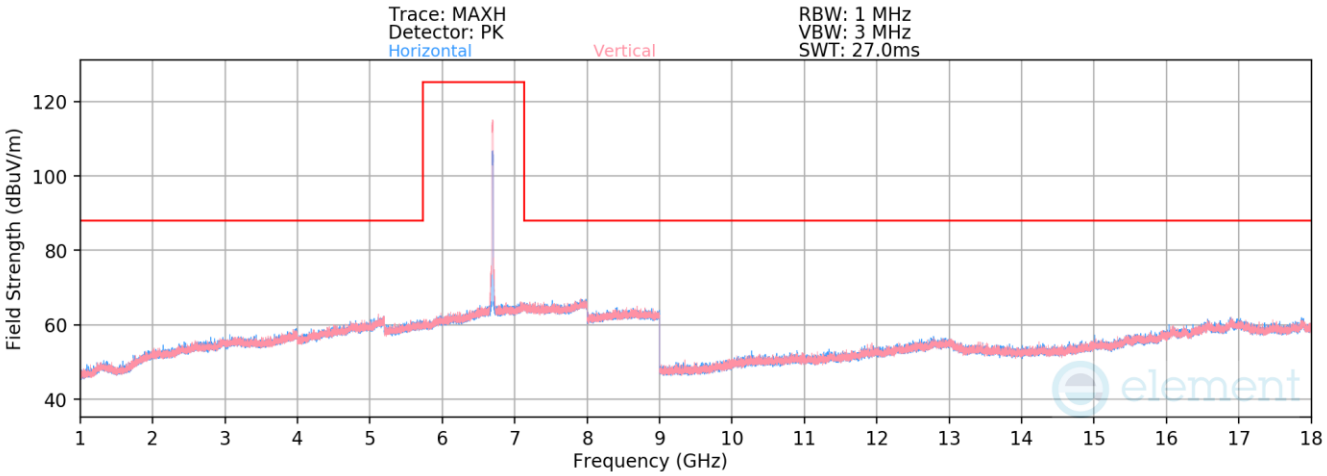
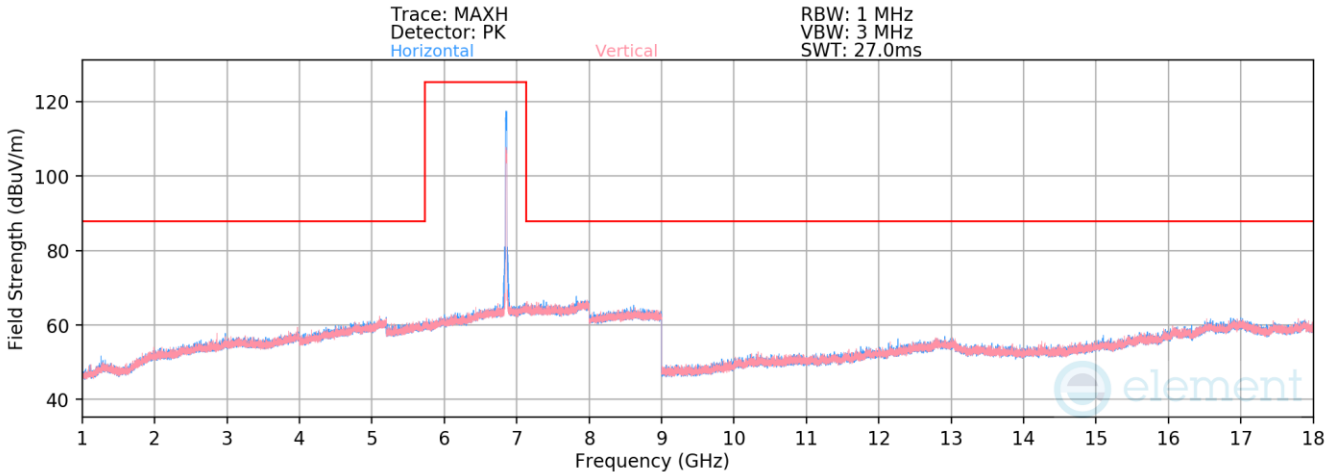


Plot 7-164. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 149)

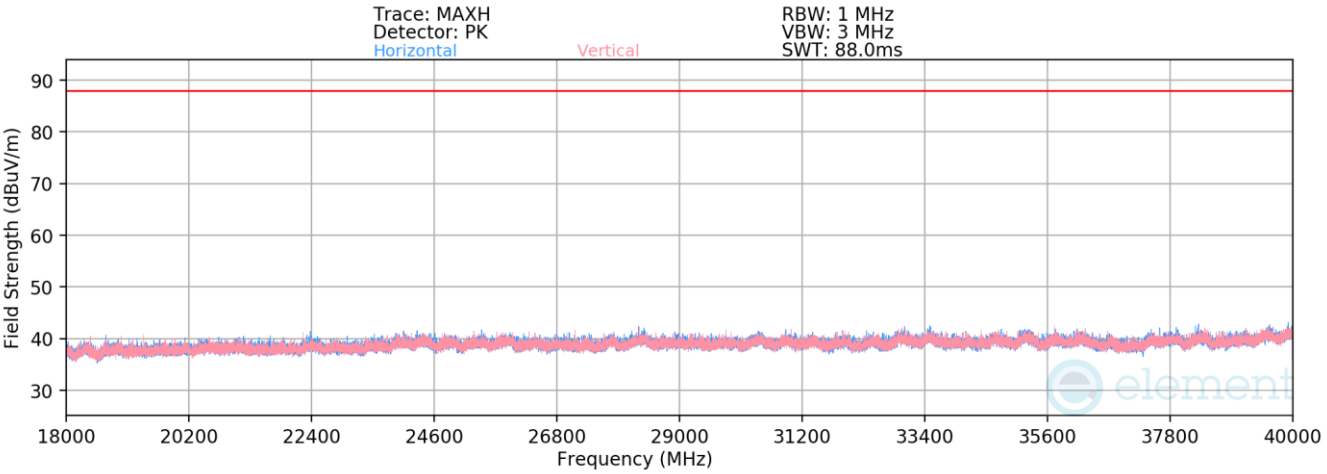
Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6695MHz
Channel:	149

	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]
*	13390.00	Average	V	-	-	-85.62	22.56	43.95	53.98	-10.03
*	13390.00	Peak	V	-	-	-74.17	22.35	55.19	73.98	-18.79

Table 7-45. Radiated Spurious Emission Measurements SDM Primary



Plot 7-165. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 181)



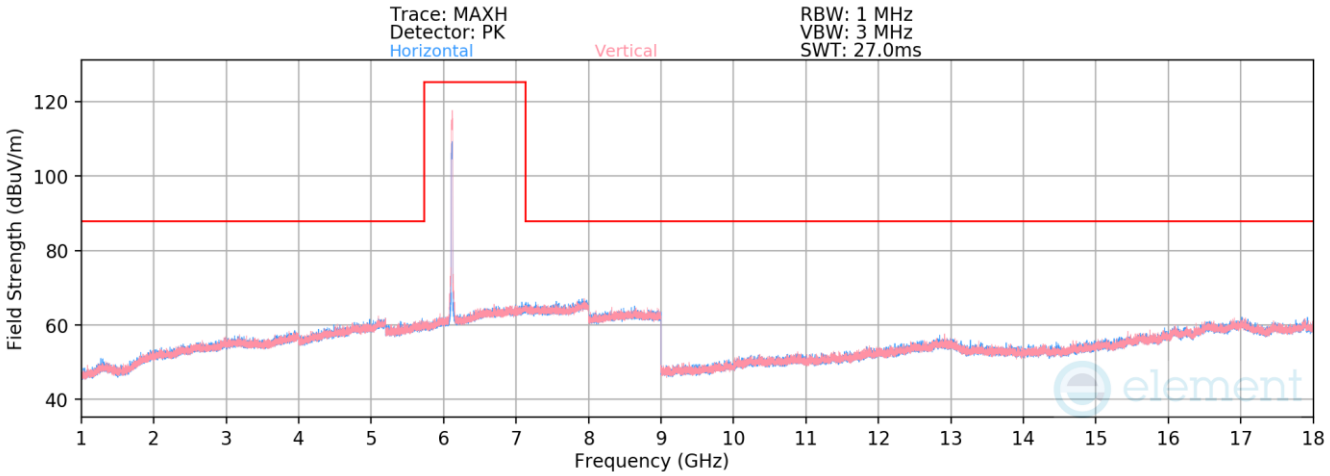
Plot 7-166. Radiated Spurious Emissions 18-40GHz SDM Primary (802.11ax – Ch. 181)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6855MHz
Channel:	181

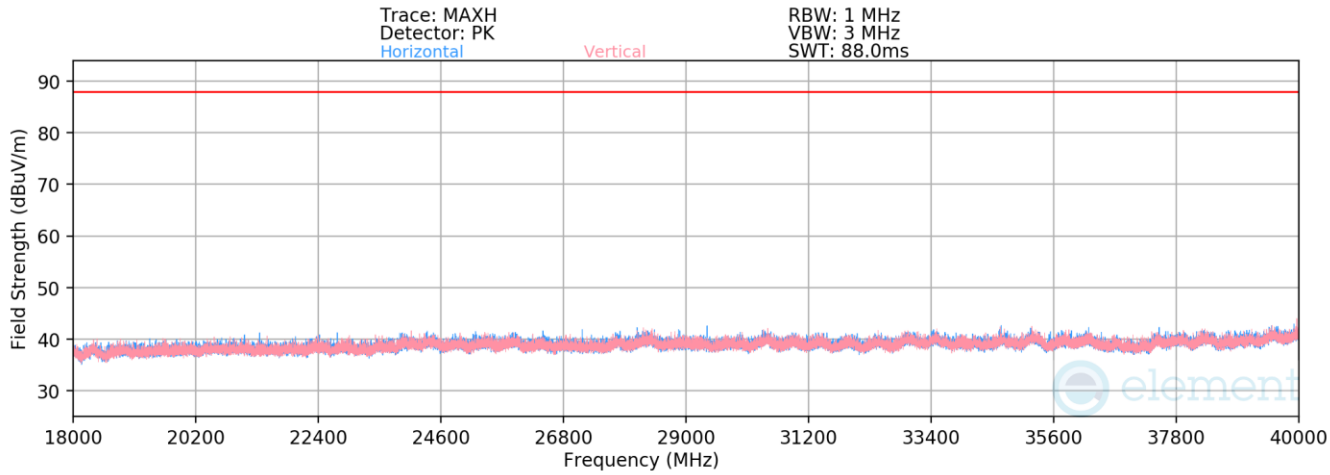
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
13710.00	Average	V	-	-	-86.12	22.41	43.28	68.23	-24.95
13710.00	Peak	V	-	-	-73.37	21.87	55.50	88.23	-32.73

Table 7-46. Radiated Spurious Emission Measurements SDM Primary

7.8.2 SDM Diversity Radiated Spurious Emission



Plot 7-167. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 33)

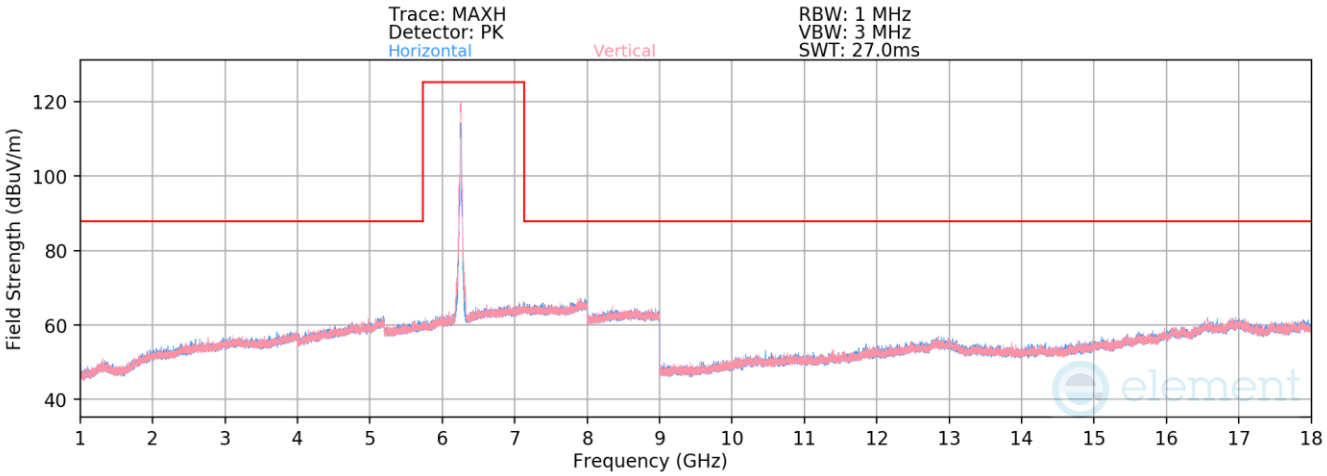


Plot 7-168. Radiated Spurious Emissions 18-40GHz SDM Diversity (802.11ax – Ch. 33)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6115MHz
Channel:	33

	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]
*	12230.00	Average	V	-	-	-85.69	21.29	42.59	53.98	-11.39
*	12230.00	Peak	V	-	-	-74.65	21.29	53.63	73.98	-20.35

Table 7-47. Radiated Spurious Emission Measurements SDM Diversity

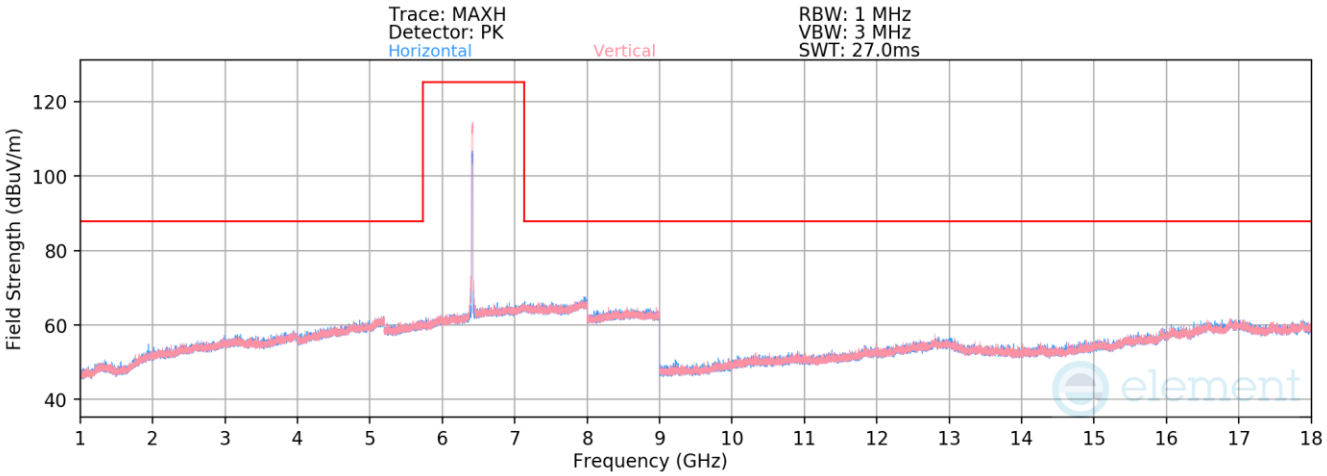


Plot 7-169. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 61)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6255MHz
Channel:	61

	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]
*	12510.00	Average	V	-	-	-85.29	21.45	43.16	53.98	-10.82
*	12510.00	Peak	V	-	-	-74.13	21.20	54.07	73.98	-19.91

Table 7-48. Radiated Spurious Emission Measurements SDM Diversity

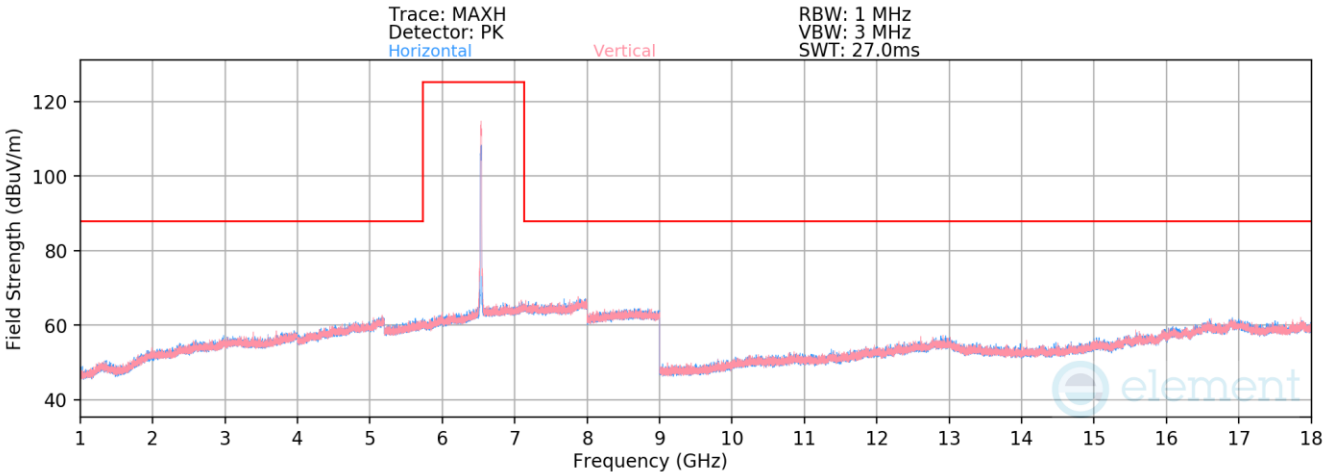


Plot 7-170. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 93)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6415MHz
Channel:	93

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]
12830.00	Average	H	-	-	-85.27	22.27	44.00	68.23	-24.23
12830.00	Peak	H	-	-	-74.01	21.79	54.78	88.23	-33.45

Table 7-49. Radiated Spurious Emission Measurements SDM Diversity

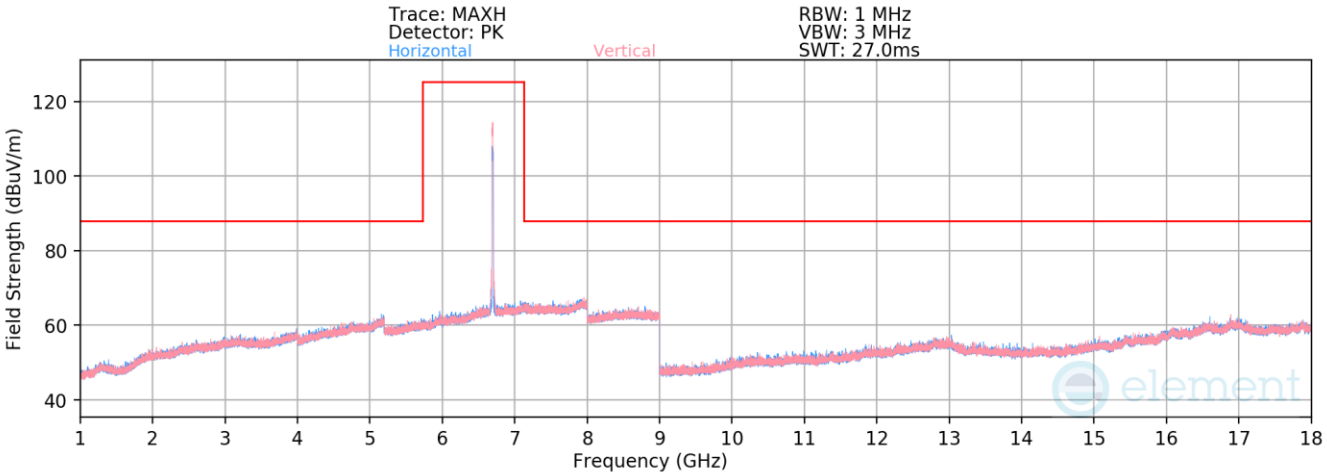


Plot 7-171. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 117)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6535MHz
Channel:	117

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]
13070.00	Average	H	-	-	-85.58	22.21	43.63	68.23	-24.60
13070.00	Peak	H	-	-	-74.40	22.21	54.81	88.23	-33.42

Table 7-50. Radiated Spurious Emission Measurements SDM Diversity

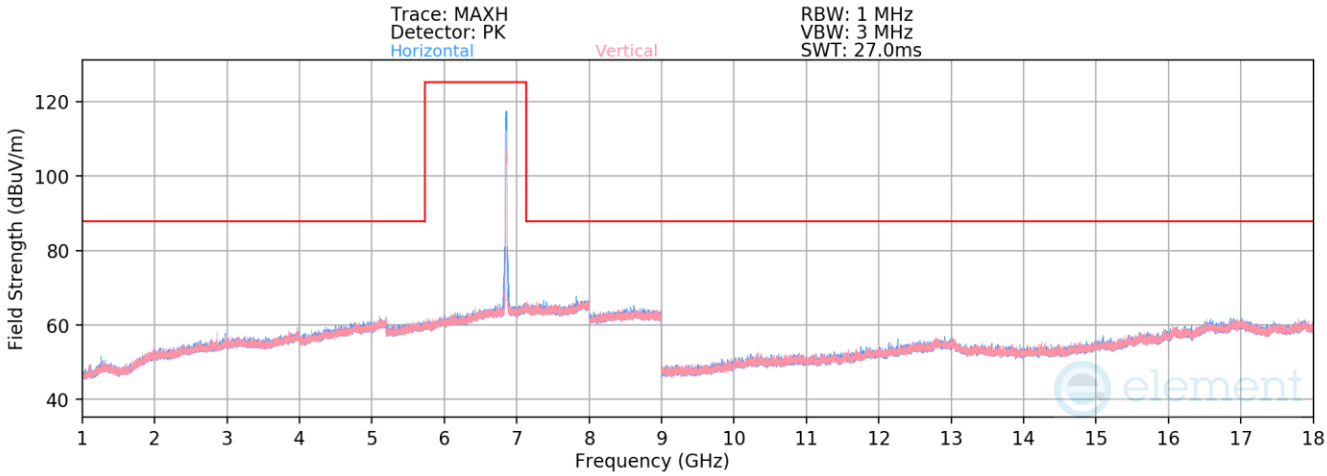


Plot 7-172. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 149)

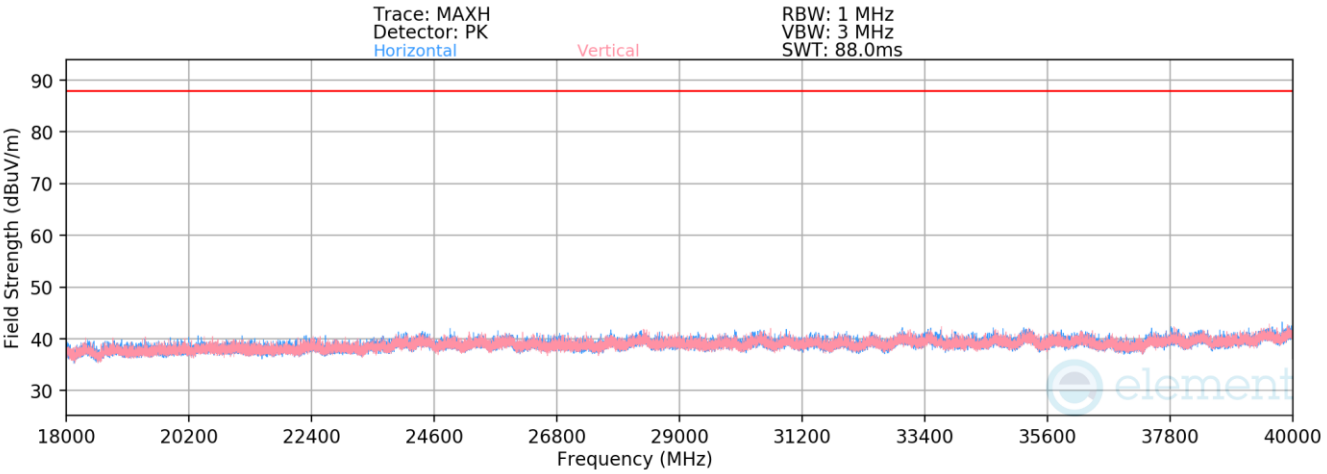
Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6695MHz
Channel:	149

	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]
*	13390.00	Average	V	-	-	-85.64	22.35	43.71	53.98	-10.27
*	13390.00	Peak	V	-	-	-73.58	22.21	55.63	73.98	-18.35

Table 7-51. Radiated Spurious Emission Measurements SDM Diversity



Plot 7-173. Radiated Spurious Emissions 1-18GHz SDM Diversity (802.11ax – Ch. 181)



Plot 7-174. Radiated Spurious Emissions 18-40GHz SDM Diversity (802.11ax – Ch. 181)

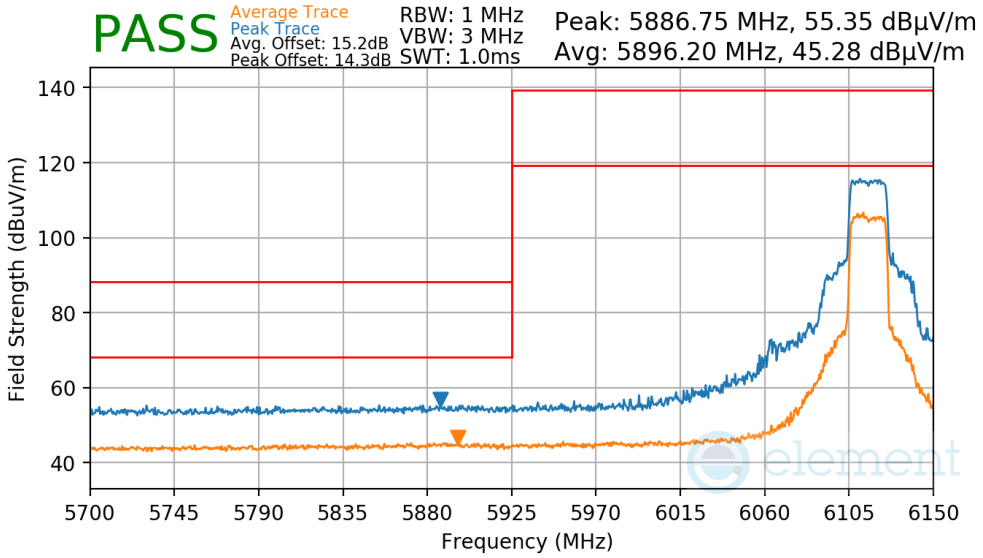
Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6855MHz
Channel:	181

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]
13710.00	Average	V	-	-	-85.68	21.75	43.07	68.23	-25.16
13710.00	Peak	V	-	-	-74.60	21.73	54.13	88.23	-34.10

Table 7-52. Radiated Spurious Emission Measurements SDM Diversity

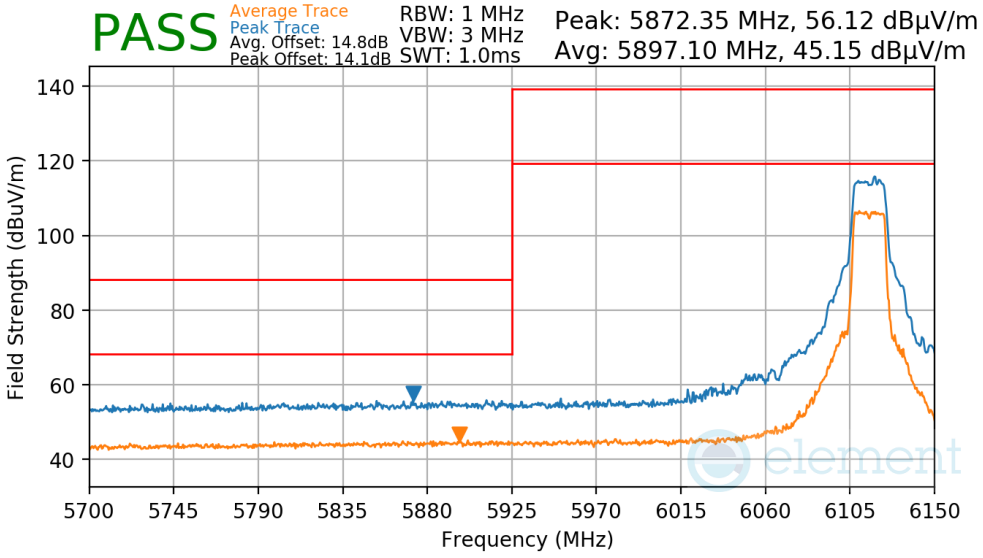
7.8.3 Antenna WF7a Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	MCS54
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-175 Antenna WF7a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

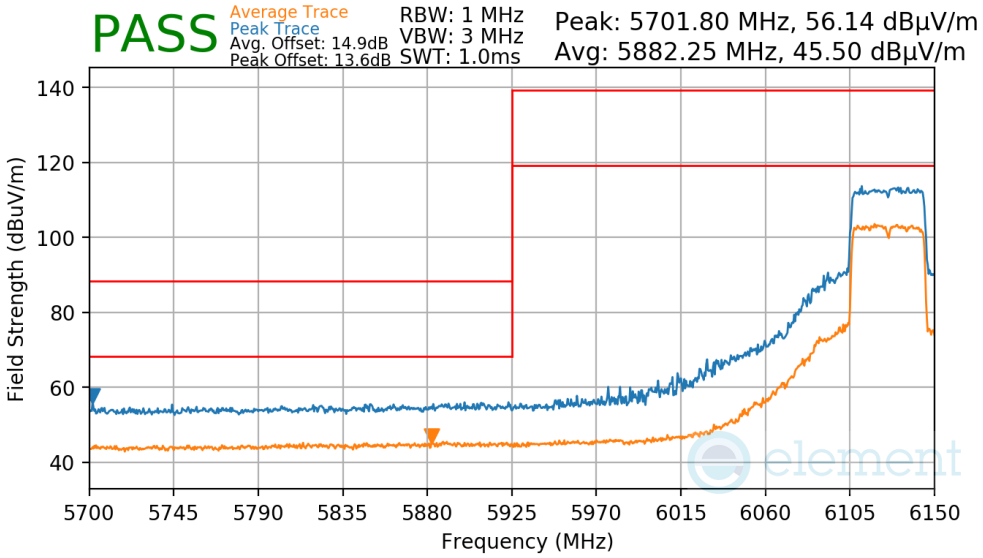
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-176 Antenna WF7a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.4 Antenna WF7a Radiated Band Edge Measurements (40MHz BW)

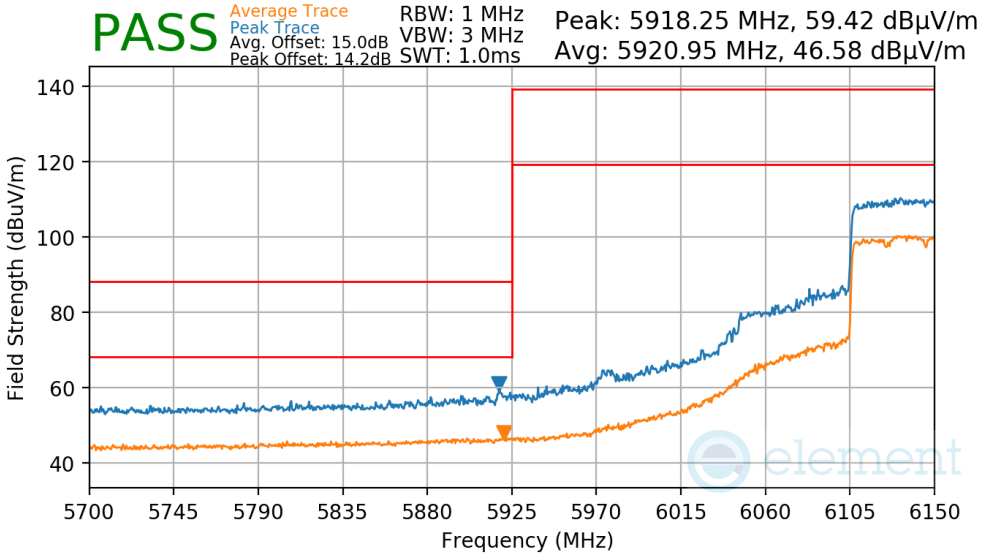
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35



Plot 7-177 Antenna WF7a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.5 Antenna WF7a Radiated Band Edge Measurements (80MHz BW)

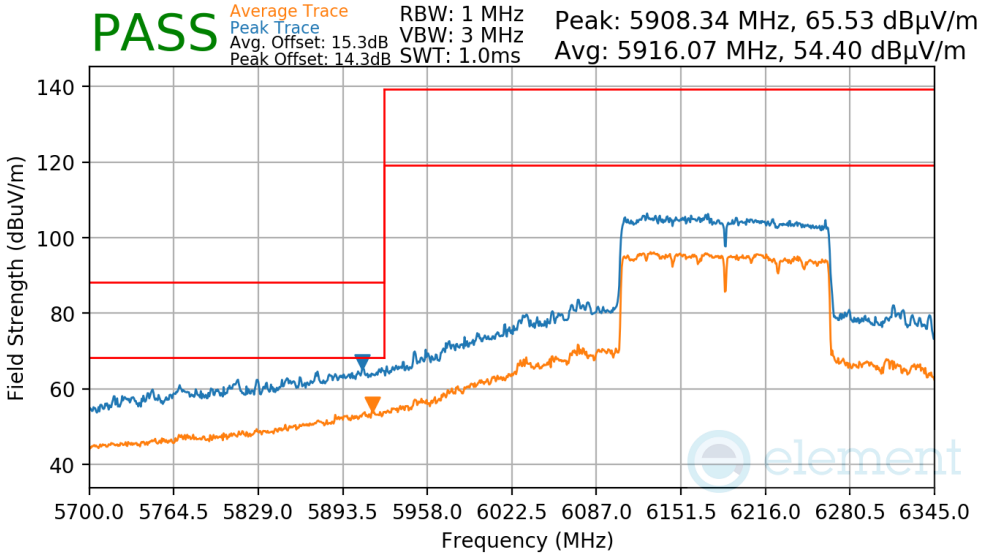
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-178 Antenna WF7a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.6 Antenna WF7a Radiated Band Edge Measurements (160MHz BW)

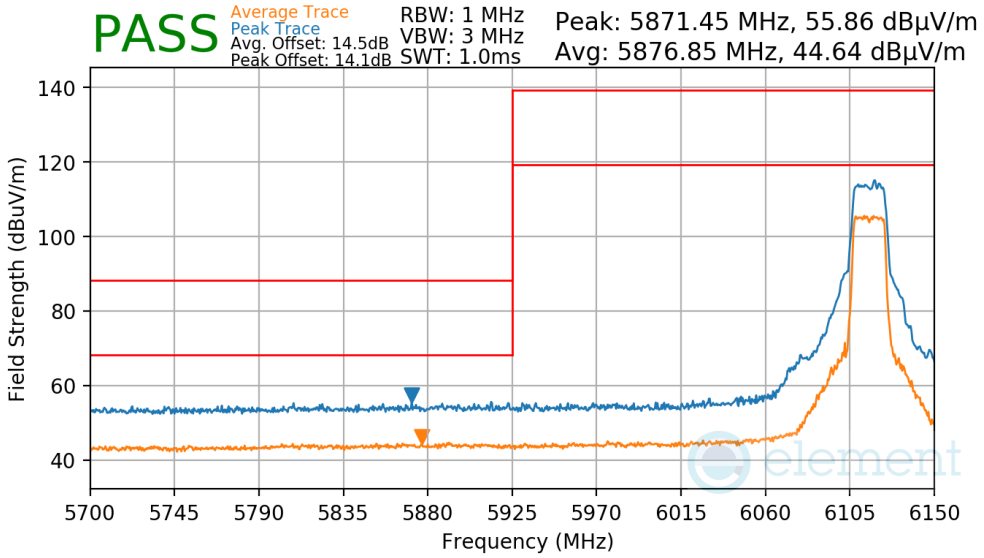
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



Plot 7-179 Antenna WF7a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

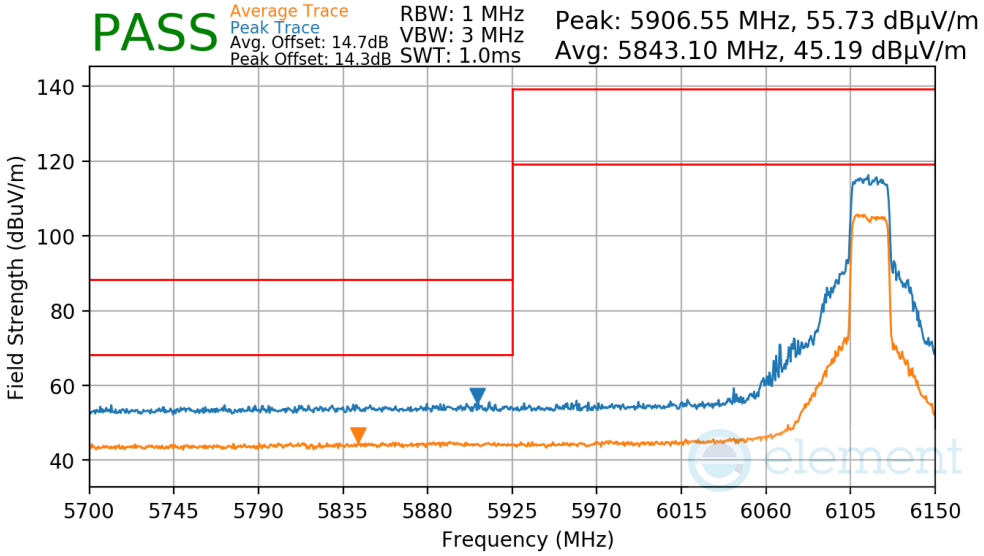
7.8.7 Antenna WF2a Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	MCS54
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-180 Antenna WF2a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

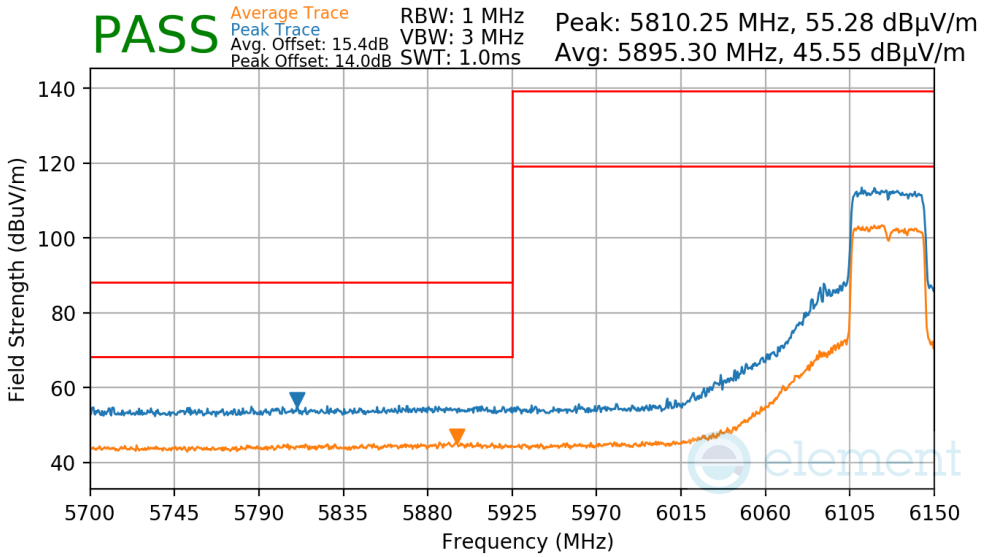
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-181 Antenna WF2a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.8 Antenna WF2a Radiated Band Edge Measurements (40MHz BW)

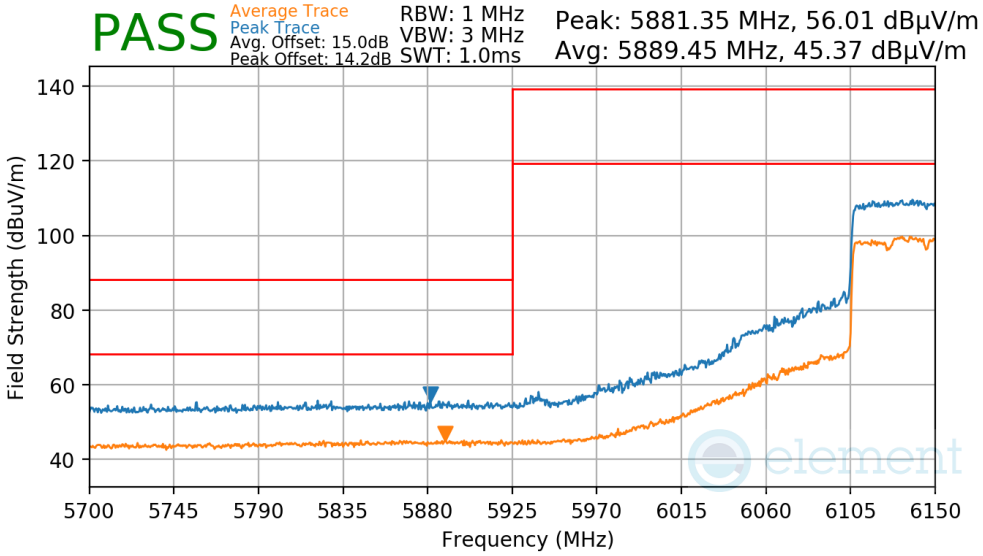
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35



Plot 7-182 Antenna WF2a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.9 Antenna WF2a Radiated Band Edge Measurements (80MHz BW)

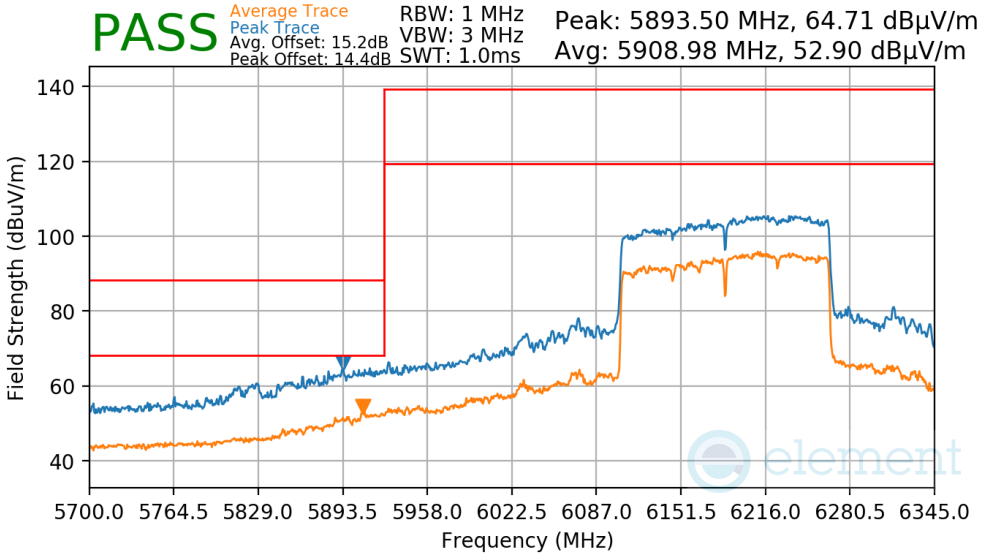
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-183 Antenna WF2a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.10 Antenna WF2a Radiated Band Edge Measurements (160MHz BW)

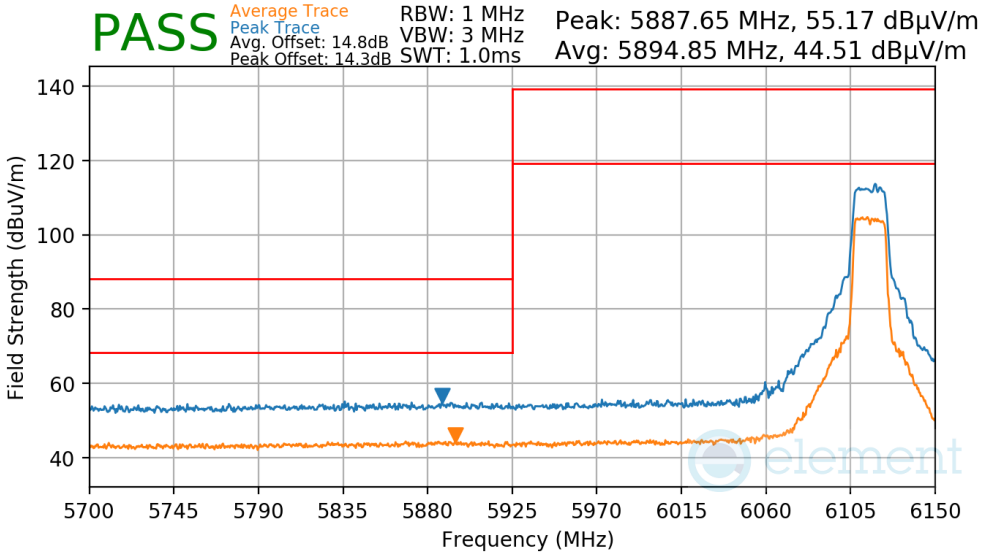
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



Plot 7-184 Antenna WF2a Radiated Lower Band Edge (Peak & Average – UNII Band 5)

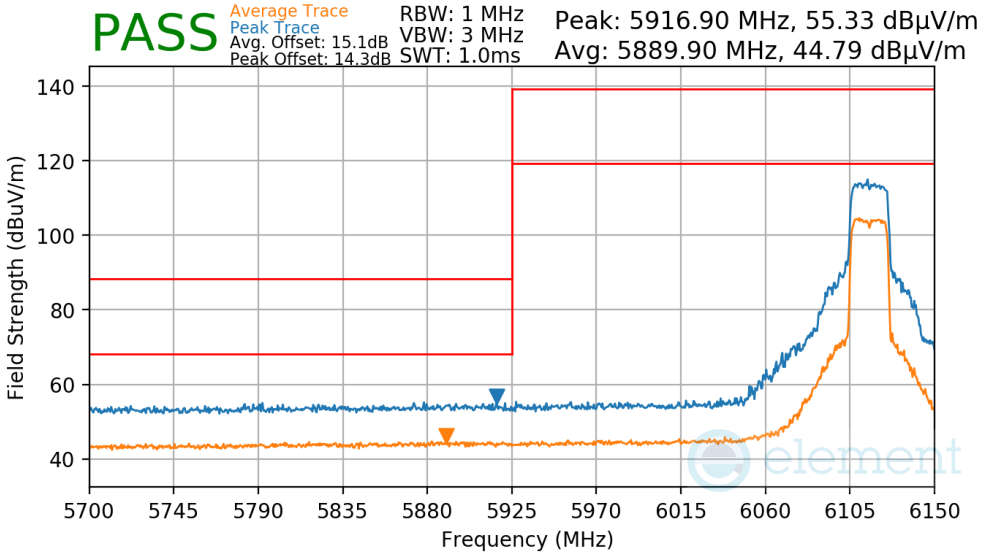
7.8.11 Antenna WF7b Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	MCS54
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-185 Antenna WF7b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

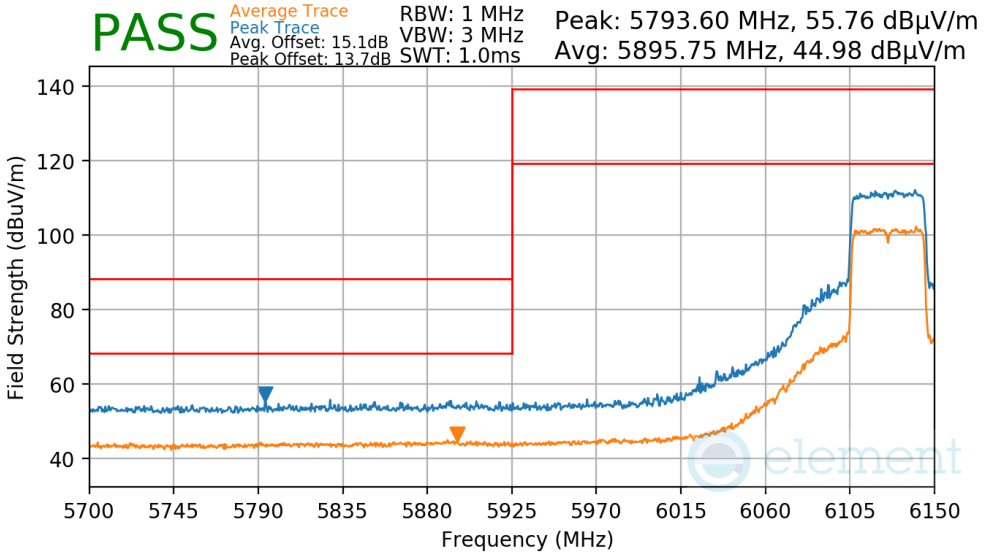
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-186 Antenna WF7b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.12 Antenna WF7b Radiated Band Edge Measurements (40MHz BW)

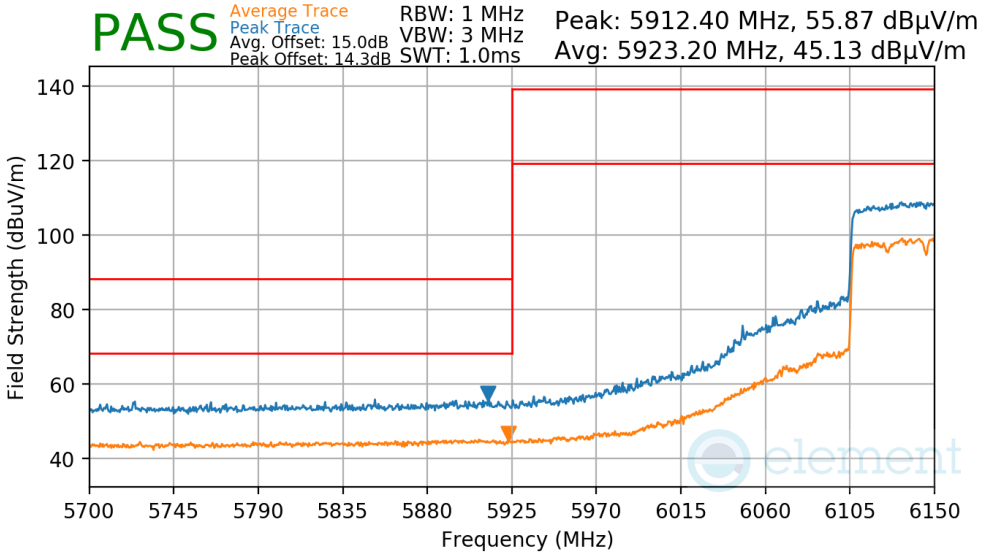
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35



Plot 7-187 Antenna WF7b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.13 Antenna WF7b Radiated Band Edge Measurements (80MHz BW)

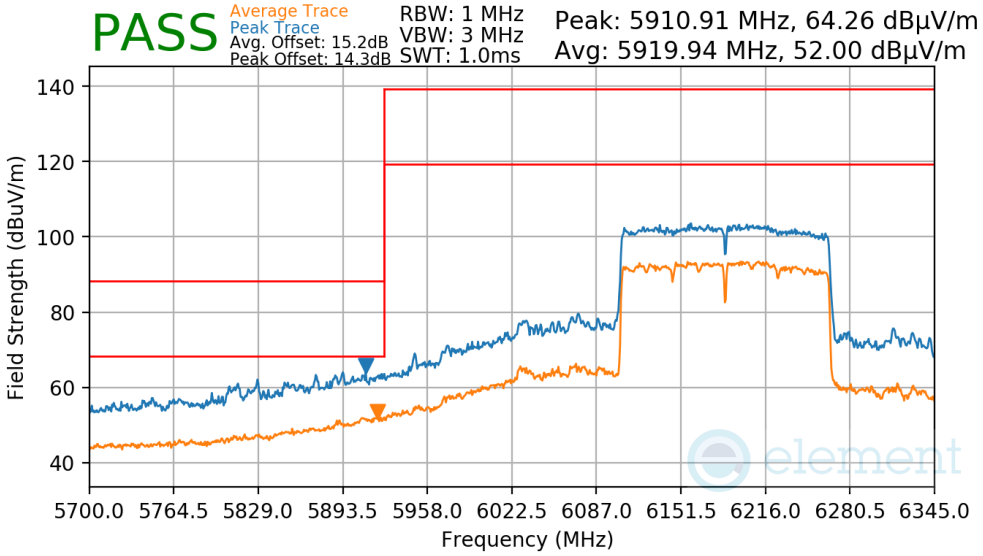
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-188 Antenna WF7b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.14 Antenna WF7b Radiated Band Edge Measurements (160MHz BW)

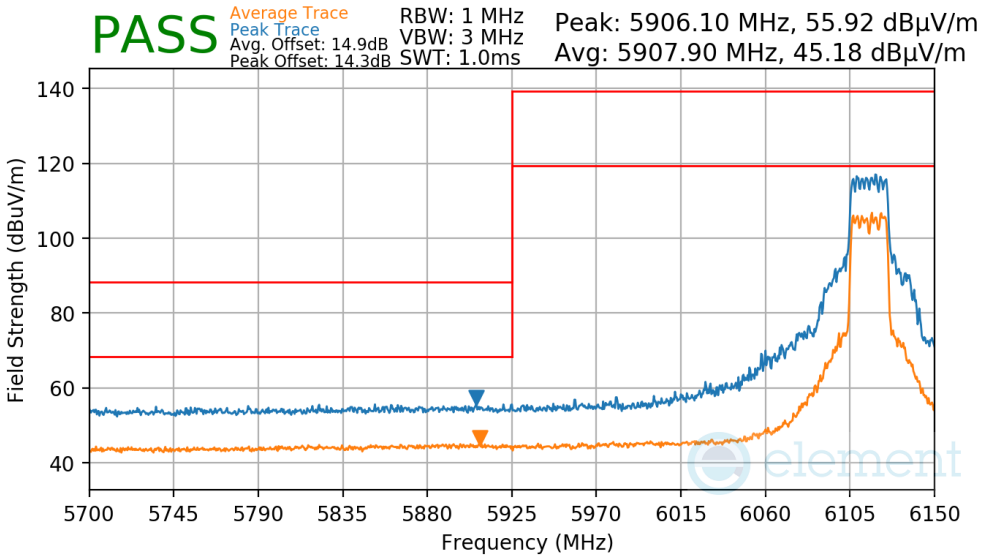
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



Plot 7-189 Antenna WF7b Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.15 SDM Primary Radiated Band Edge Measurements (20MHz BW)

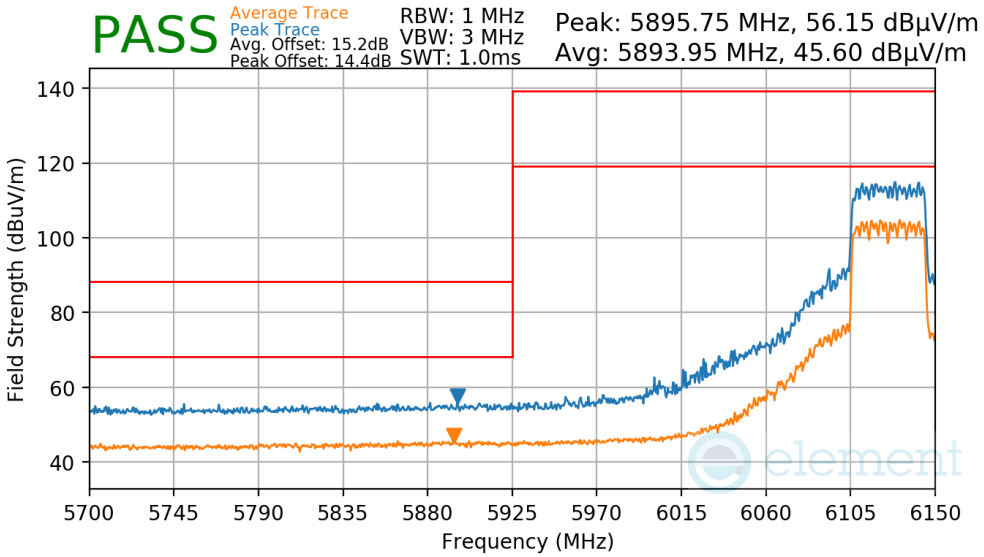
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-190 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.16 SDM Primary Radiated Band Edge Measurements (40MHz BW)

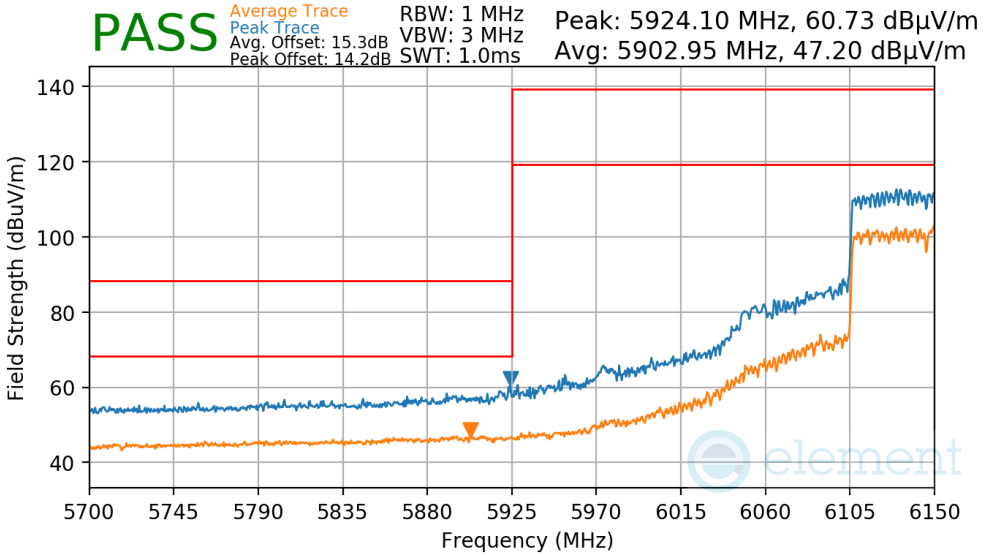
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35



Plot 7-191 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.17 SDM Primary Radiated Band Edge Measurements (80MHz BW)

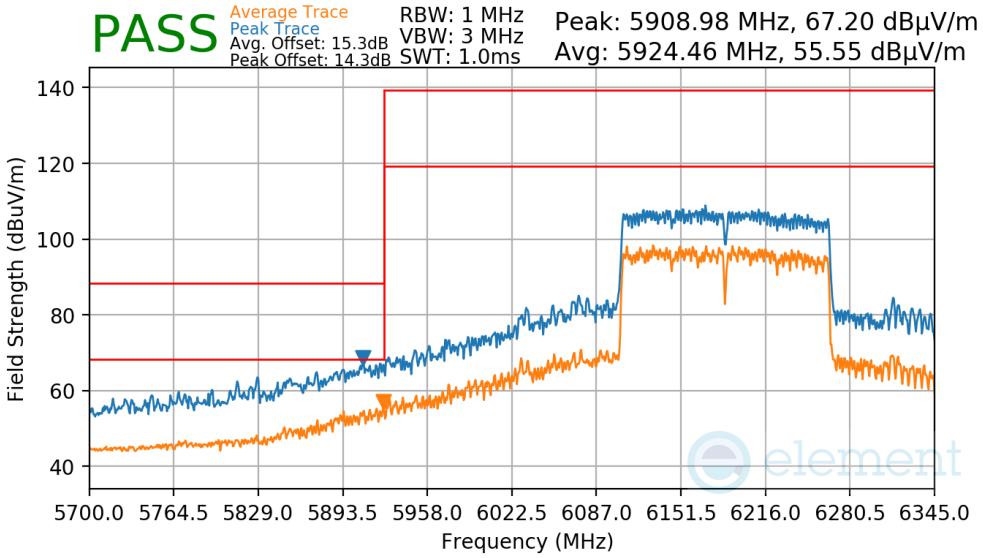
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-192 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.18 SDM Primary Radiated Band Edge Measurements (160MHz BW)

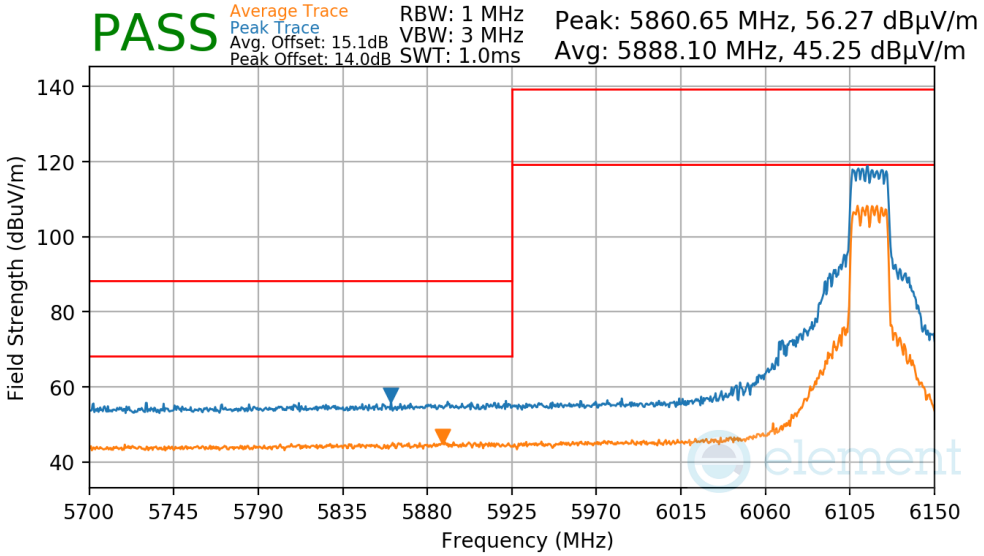
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



Plot 7-193 SDM Primary Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.19 SDM Diversity Radiated Band Edge Measurements (20MHz BW)

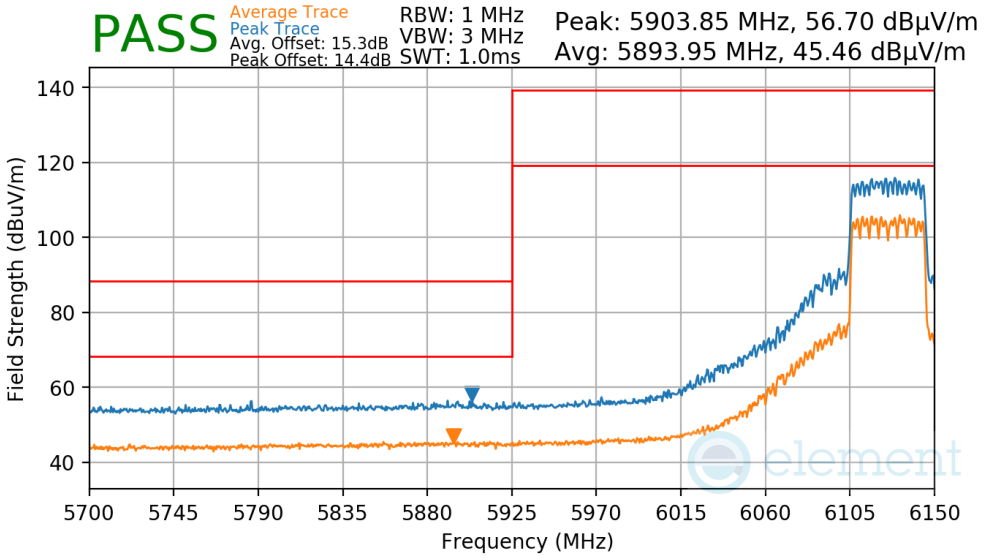
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-194 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.8.20 SDM Diversity Radiated Band Edge Measurements (40MHz BW)

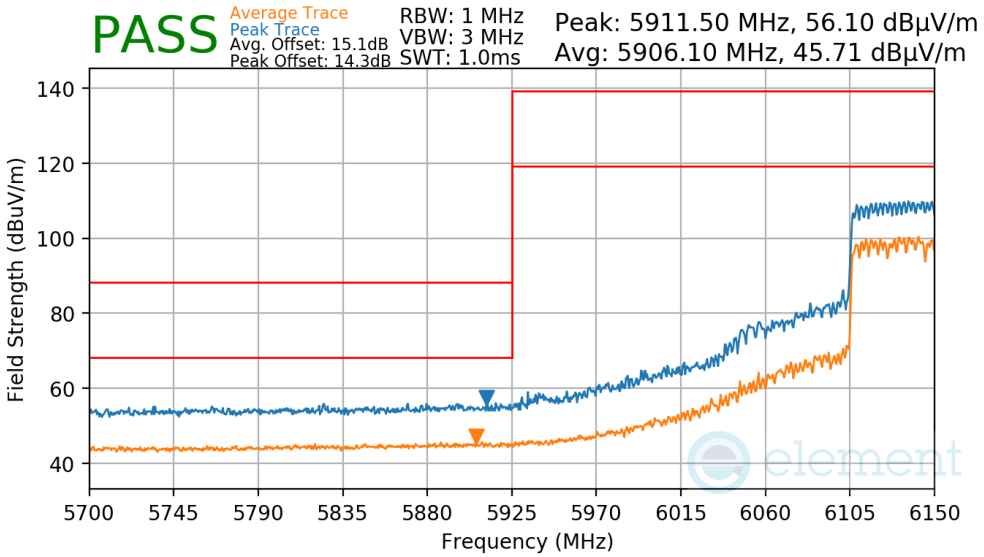
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35



Plot 7-195 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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

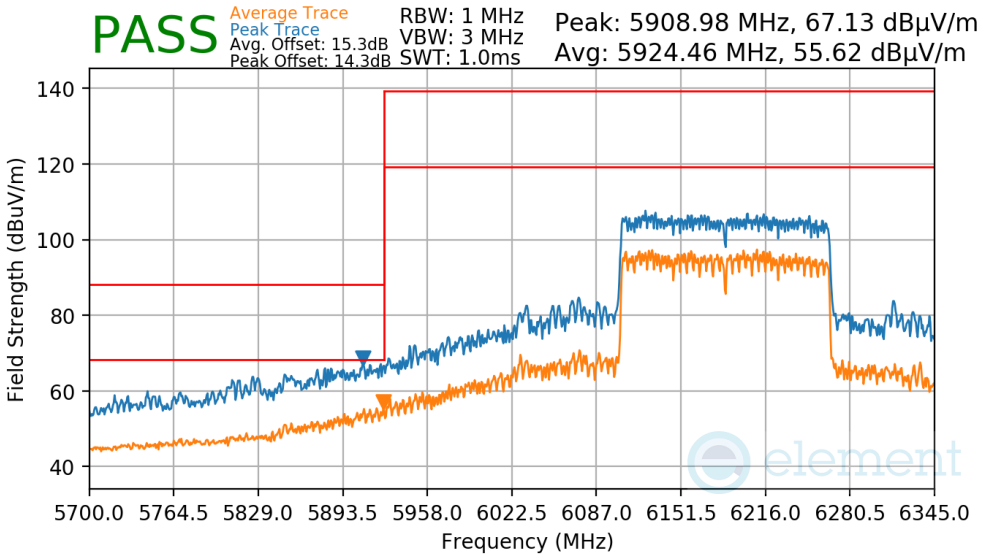
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-196 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6185MHz
Channel	47



Plot 7-197 SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

7.9 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 must not exceed the limits shown in Table 7-53 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 7-53. 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 = quasi-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.

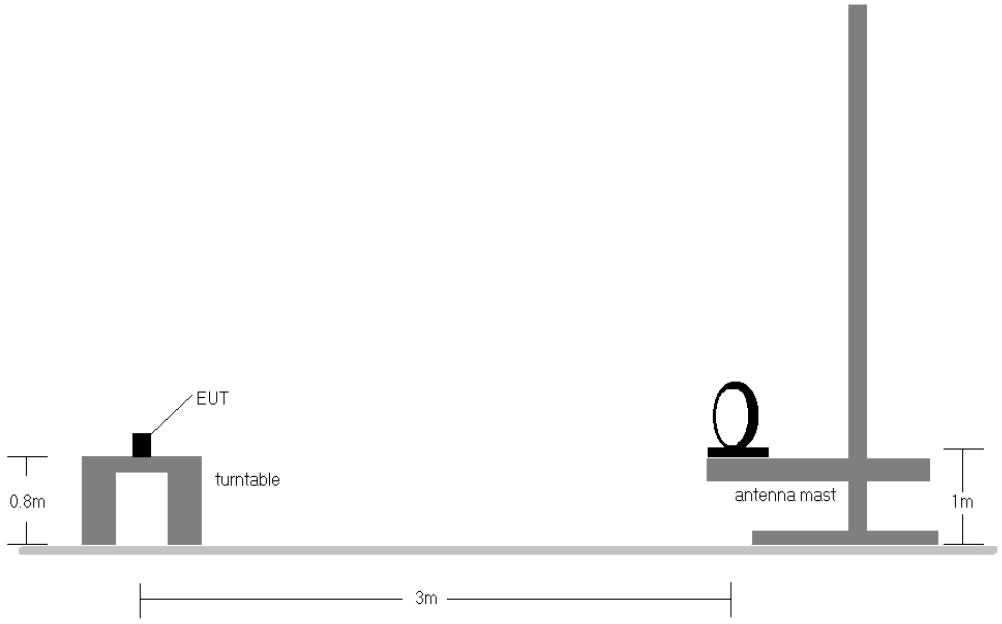


Figure 7-8. Radiated Test Setup < 30MHz

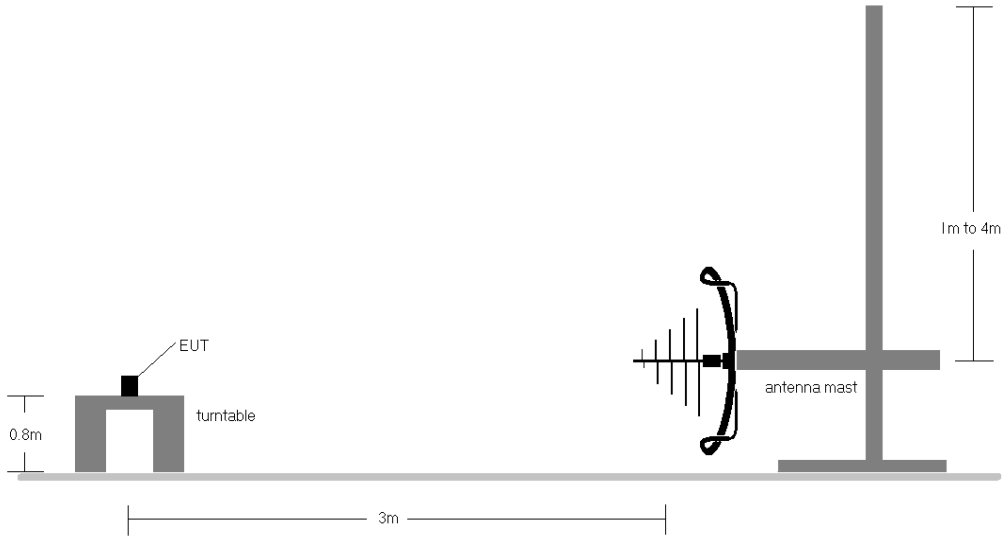


Figure 7-9. Radiated Test Setup < 1GHz

Test Notes

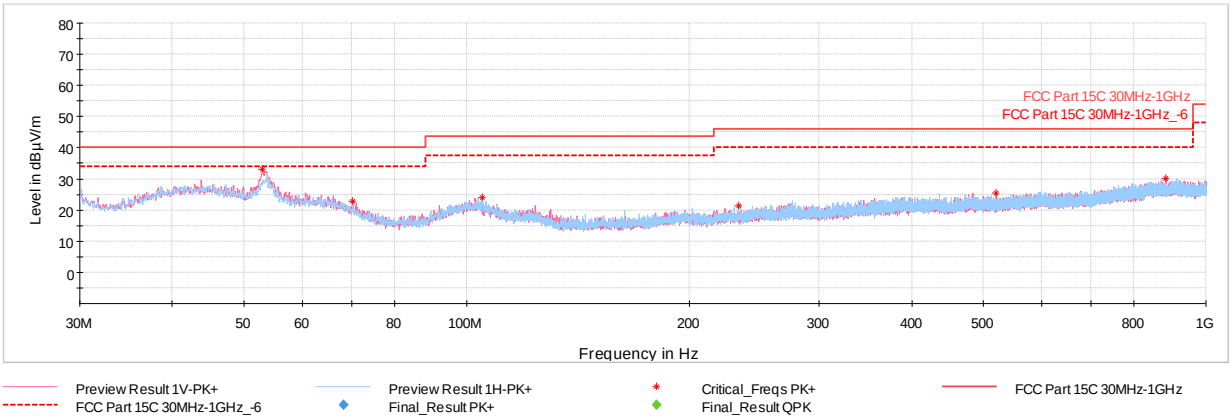
1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-53.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 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 $_{[dB\mu V/m]}$ = Analyzer Level $_{[dBm]}$ + 107 + AFCL $_{[dB/m]}$
- AFCL $_{[dB/m]}$ = Antenna Factor $_{[dB/m]}$ + Cable Loss $_{[dB]}$ - Preamp Gain $_{[dB]}$
- Margin $_{[dB]}$ = Field Strength Level $_{[dB\mu V/m]}$ – Limit $_{[dB\mu V/m]}$

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

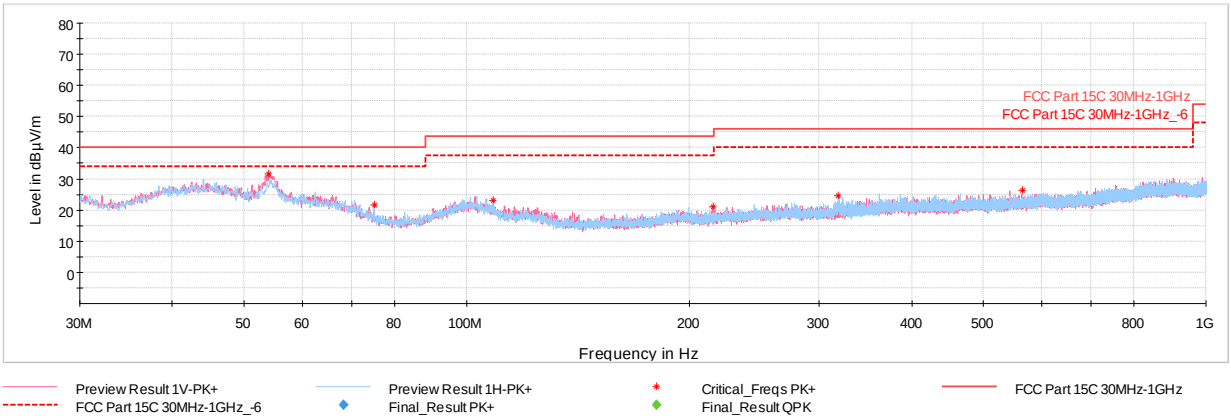


Plot 7-198. Radiated Spurious Emissions below 1GHz SDM Primary, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

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]
52.94	Max Peak	V	100	224	-59.38	-14.40	33.22	40.00	-6.78
70.21	Max Peak	V	200	13	-64.91	-19.13	22.96	40.00	-17.04
105.03	Max Peak	H	300	291	-66.59	-16.44	23.97	43.52	-19.55
233.12	Max Peak	H	100	223	-70.77	-14.99	21.24	46.02	-24.78
519.66	Max Peak	V	200	42	-72.84	-8.54	25.62	46.02	-20.40
882.58	Max Peak	V	200	14	-74.83	-2.10	30.07	46.02	-15.95

Table 7-54. Radiated Spurious Emissions Measurement below 1GHz SDM Primary, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

7.9.2 SDM Diversity Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-199. Radiated Spurious Emissions below 1GHz SDM Diversity, 802.11ax, Ch.33 with host PC 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]
54.06	Max Peak	V	100	206	-60.94	-14.52	31.54	40.00	-8.46
75.06	Max Peak	H	300	112	-64.43	-20.91	21.66	40.00	-18.34
108.67	Max Peak	V	100	229	-67.14	-16.67	23.19	43.52	-20.33
215.27	Max Peak	V	100	159	-69.96	-16.06	20.98	43.52	-22.54
318.53	Max Peak	H	100	236	-69.83	-12.66	24.51	46.02	-21.51
565.49	Max Peak	H	100	126	-73.28	-7.48	26.24	46.02	-19.78

Table 7-55. Radiated Spurious Emissions Measurement below 1GHz SDM Diversity, 802.11ax, Ch.33 with host PC via USB-C cable with wire charger

7.10 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 7-56. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, 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

Test Setup

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

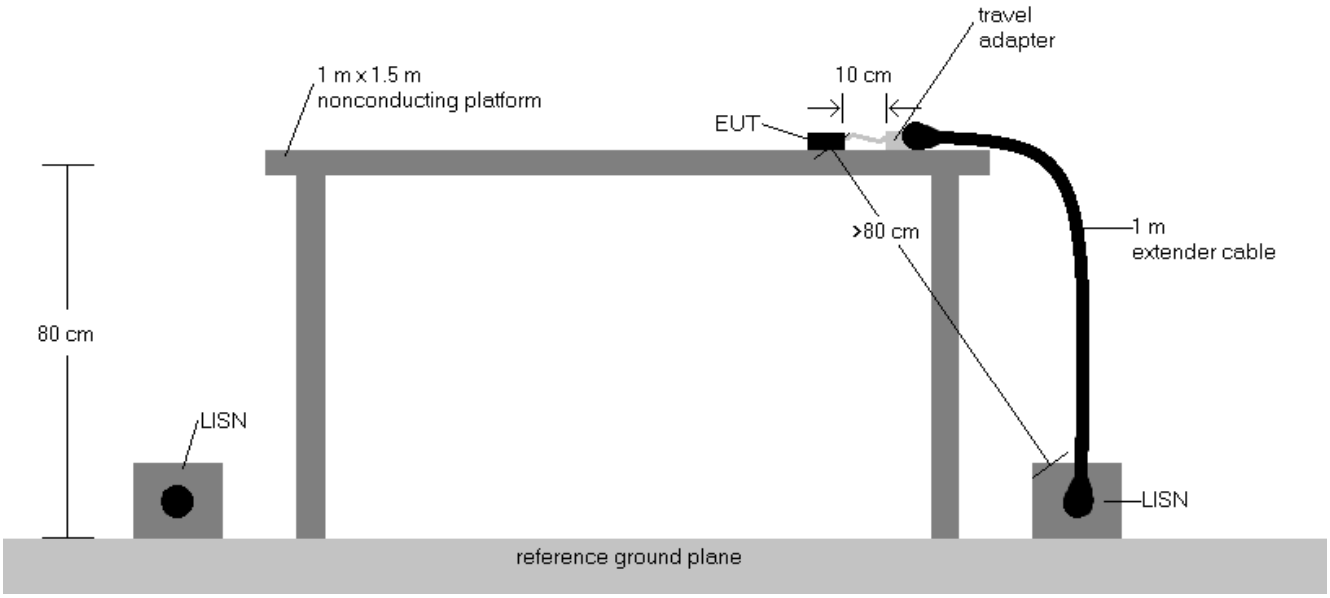
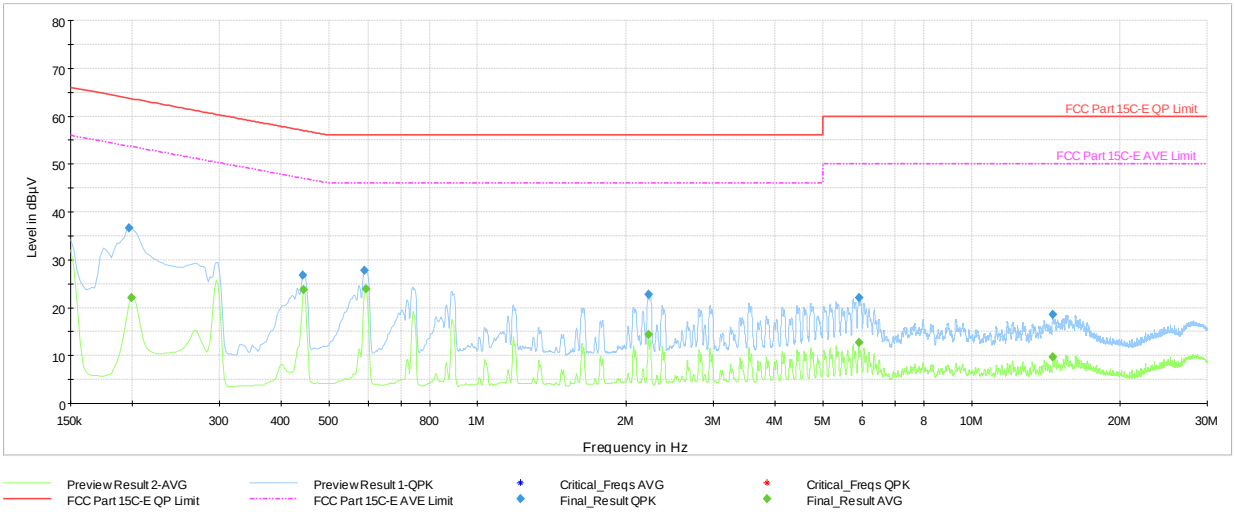


Figure 7-10. Test Instrument & Measurement Setup

Test Notes

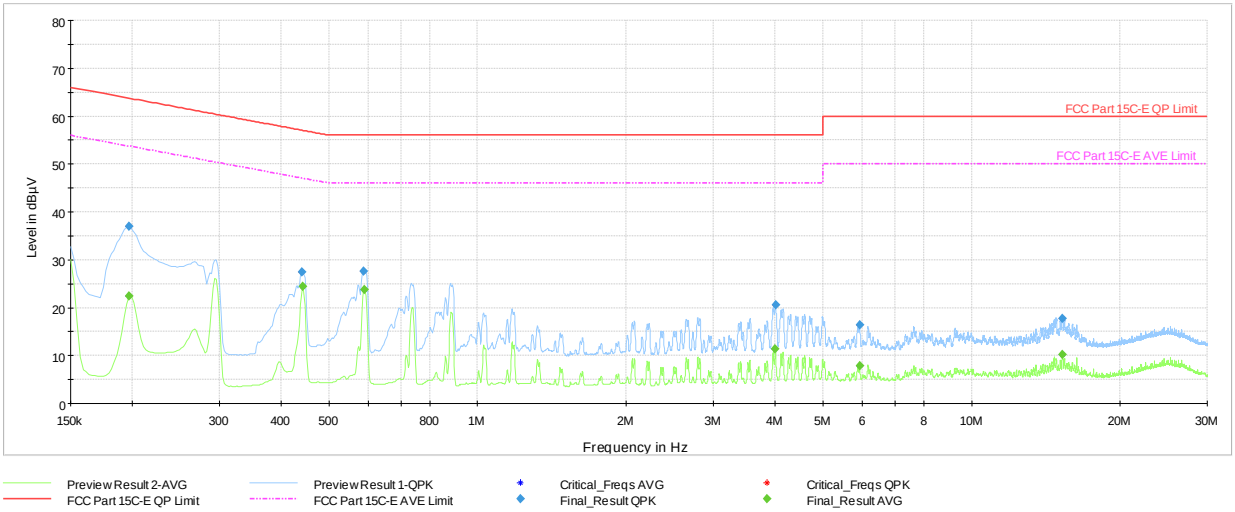
1. All modes of operation were investigated, and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
    a. EUT powered by AC/DC adaptor via USB-C 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 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 Factor (dB)
6. Margin (dB) = QP/AV Level (dBµV) - QP/AV Limit (dBµV)
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.
9. The unit was tested with all possible modes and only the highest emission is reported.



Plot 7-200. AC Line Conducted Plot with 802.11ax SDM Primary – Ch.33 (L1), with AC/DC Adapter via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.197	FINAL	36.6	—	63.73	-27.15	L1	GND
0.200	FINAL	—	22.17	53.63	-31.46	L1	GND
0.443	FINAL	26.8	—	57.02	-30.25	L1	GND
0.445	FINAL	—	23.69	46.97	-23.28	L1	GND
0.591	FINAL	27.7	—	56.00	-28.27	L1	GND
0.593	FINAL	—	23.90	46.00	-22.10	L1	GND
2.216	FINAL	22.8	—	56.00	-33.16	L1	GND
2.216	FINAL	—	14.44	46.00	-31.56	L1	GND
5.910	FINAL	—	12.78	50.00	-37.22	L1	GND
5.912	FINAL	22.1	—	60.00	-37.91	L1	GND
14.618	FINAL	—	9.64	50.00	-40.36	L1	GND
14.627	FINAL	18.5	—	60.00	-41.49	L1	GND

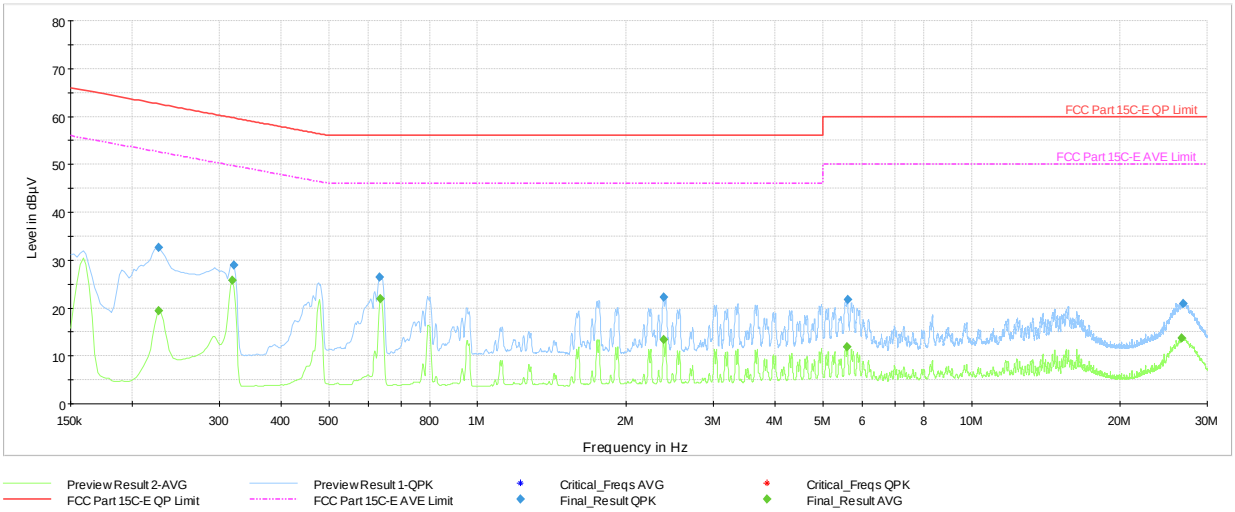
Table 7-57. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 33 (L1) with AC/DC Adapter via USB-C cable with wire charger



Plot 7-201. AC Line Conducted Plot with 802.11ax SDM Primary – Ch. 33 (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
0.197	FINAL	—	22.35	53.73	-31.38	N	GND
0.197	FINAL	37.1	—	63.73	-26.67	N	GND
0.440	FINAL	27.4	—	57.06	-29.68	N	GND
0.443	FINAL	—	24.45	47.02	-22.57	N	GND
0.589	FINAL	27.6	—	56.00	-28.44	N	GND
0.591	FINAL	—	23.81	46.00	-22.19	N	GND
4.004	FINAL	—	11.45	46.00	-34.55	N	GND
4.009	FINAL	20.6	—	56.00	-35.43	N	GND
5.930	FINAL	16.4	—	60.00	-43.62	N	GND
5.930	FINAL	—	7.95	50.00	-42.05	N	GND
15.263	FINAL	17.7	—	60.00	-42.26	N	GND
15.286	FINAL	—	10.22	50.00	-39.78	N	GND

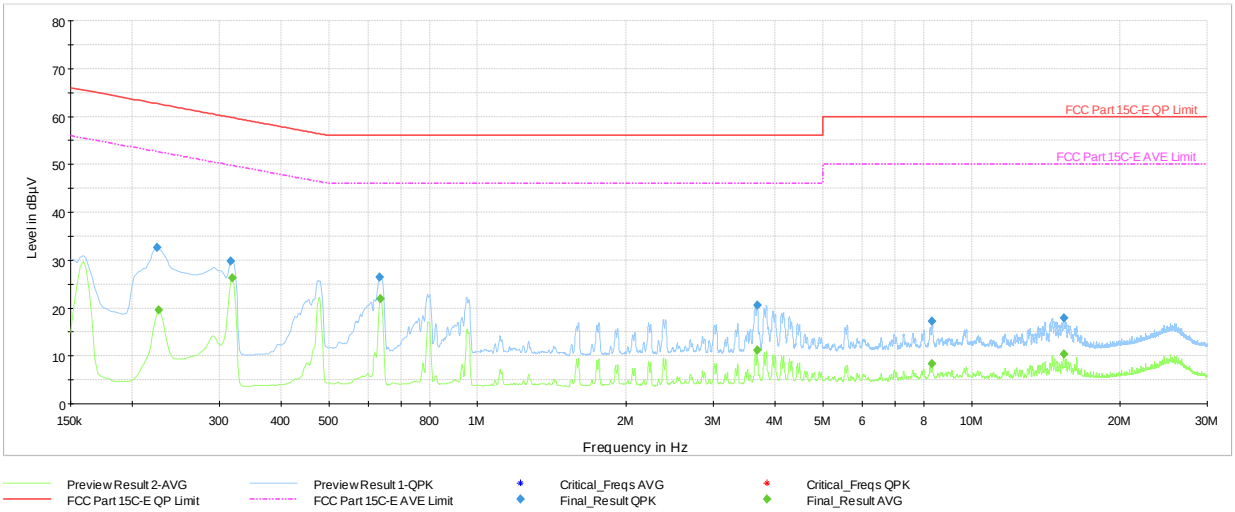
Table 7-58. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 33 (N), with host PC via USB-C cable with wire charger



Plot 7-202. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch.33 (L1), with AC/DC Adapter via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.227	FINAL	—	19.39	52.58	-33.19	L1	GND
0.227	FINAL	32.6	—	62.58	-29.99	L1	GND
0.319	FINAL	—	25.70	49.74	-24.04	L1	GND
0.321	FINAL	29.0	—	59.68	-30.66	L1	GND
0.634	FINAL	26.5	—	56.00	-29.47	L1	GND
0.636	FINAL	—	21.93	46.00	-24.07	L1	GND
2.380	FINAL	22.3	—	56.00	-33.68	L1	GND
2.380	FINAL	—	13.42	46.00	-32.58	L1	GND
5.606	FINAL	—	11.89	50.00	-38.11	L1	GND
5.609	FINAL	21.7	—	60.00	-38.31	L1	GND
26.671	FINAL	—	13.77	50.00	-36.23	L1	GND
26.797	FINAL	21.0	—	60.00	-39.01	L1	GND

Table 7-59. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 33 (L1) with AC/DC Adapter via USB-C cable with wire charger



Plot 7-203. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch. 33 (N), with AC/DC Adapter via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.224	FINAL	32.6	—	62.66	-30.03	N	GND
0.227	FINAL	—	19.50	52.58	-33.07	N	GND
0.317	FINAL	29.7	—	59.80	-30.07	N	GND
0.319	FINAL	—	26.34	49.74	-23.40	N	GND
0.634	FINAL	26.4	—	56.00	-29.62	N	GND
0.636	FINAL	—	21.90	46.00	-24.10	N	GND
3.685	FINAL	20.7	—	56.00	-35.35	N	GND
3.685	FINAL	—	11.19	46.00	-34.81	N	GND
8.322	FINAL	—	8.36	50.00	-41.64	N	GND
8.324	FINAL	17.2	—	60.00	-42.78	N	GND
15.369	FINAL	17.9	—	60.00	-42.06	N	GND
15.371	FINAL	—	10.35	50.00	-39.65	N	GND

Table 7-60. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 33 (N), with AC/DC Adapter 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: BCGA3268** and **IC: 579C-A3268** 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.