

4.4 Undesirable Emission Limits

CFR47 15.407 (b): The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside restricted bands of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside restricted bands of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside restricted bands of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

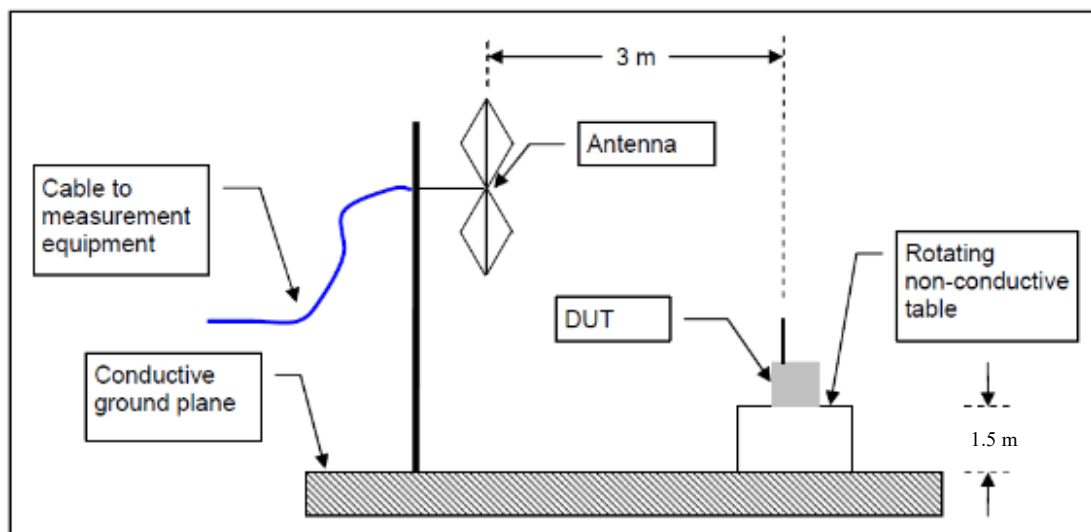
For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.4.1 Test Method

The Radiated method was used to measure the undesirable emission requirement. The measurement was performed with modulation. This test was conducted on 3 channels of Sample in each mode on Sample. The worst sample result indicated below.

A correction factor included to the final measurements by adding $10 \log (1/x)$ where x is the duty cycle.

Test Setup:



4.4.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

4.4.2.1 UNII-1 Low Band Edge Non-BF: Results and Plots

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5100.23	---	48.99	54.00	5.01	10000.00	1000.00	255.00	V	307.00	41.20
5100.23	64.54	---	74.00	9.46	10000.00	1000.00	255.00	V	307.00	41.20
5113.52	---	48.94	54.00	5.06	10000.00	1000.00	150.00	V	325.00	41.20
5113.52	63.86	---	74.00	10.14	10000.00	1000.00	150.00	V	325.00	41.20
5127.56	---	48.87	54.00	5.13	10000.00	1000.00	153.00	V	184.00	41.30
5127.56	64.27	---	74.00	9.73	10000.00	1000.00	153.00	V	184.00	41.30
5133.20	---	48.87	54.00	5.13	10000.00	1000.00	153.00	H	34.00	41.30
5133.20	63.91	---	74.00	10.09	10000.00	1000.00	153.00	H	34.00	41.30
5146.12	---	48.90	54.00	5.10	10000.00	1000.00	150.00	V	312.00	41.30
5146.12	65.11	---	74.00	8.89	10000.00	1000.00	150.00	V	312.00	41.30
5149.99	---	49.24	54.00	4.76	10000.00	1000.00	150.00	V	90.00	41.30
5149.99	65.39	---	74.00	8.61	10000.00	1000.00	150.00	V	90.00	41.30

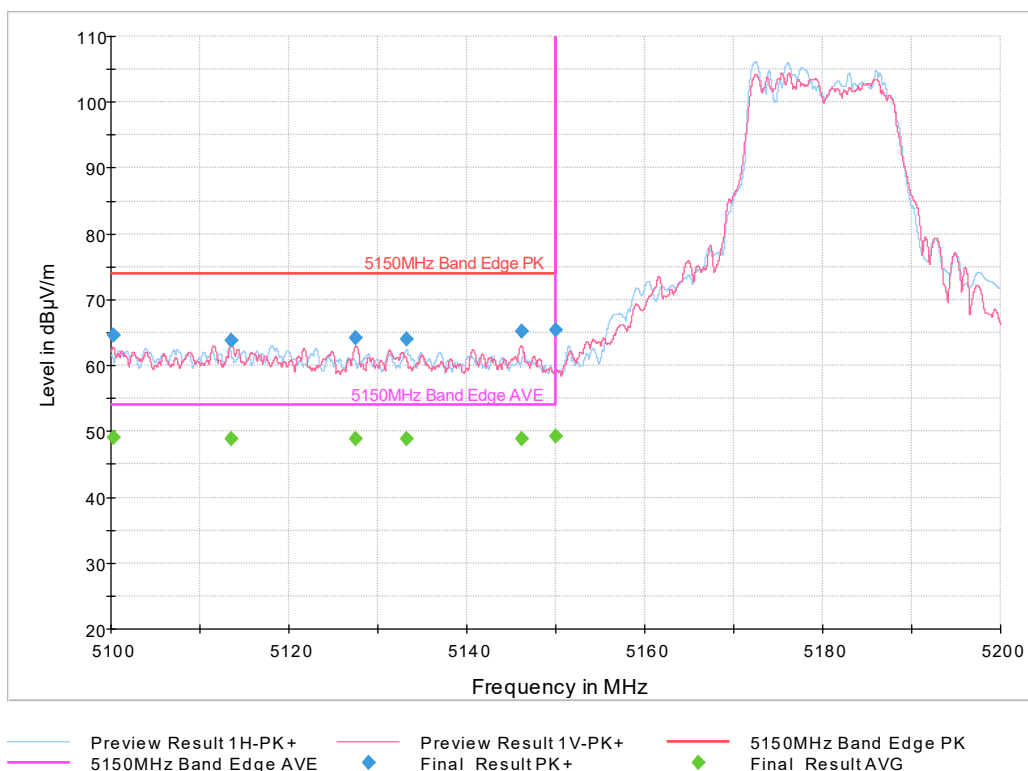


Figure 18: Low Band Edge 802.11a Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5106.02	---	49.02	54.00	4.98	10000.00	1000.00	153.00	H	343.00	41.30
5106.02	63.79	---	74.00	10.21	10000.00	1000.00	153.00	H	343.00	41.30
5112.02	64.32	---	74.00	9.68	10000.00	1000.00	250.00	H	147.00	41.30
5112.02	---	49.04	54.00	4.96	10000.00	1000.00	250.00	H	147.00	41.30
5128.67	64.65	---	74.00	9.35	10000.00	1000.00	252.00	H	110.00	41.30
5128.67	---	48.87	54.00	5.13	10000.00	1000.00	252.00	H	110.00	41.30
5137.20	---	48.77	54.00	5.23	10000.00	1000.00	153.00	V	145.00	41.30
5137.20	64.34	---	74.00	9.66	10000.00	1000.00	153.00	V	145.00	41.30
5145.08	66.34	---	74.00	7.66	10000.00	1000.00	150.00	H	8.00	41.30
5145.08	---	48.95	54.00	5.05	10000.00	1000.00	150.00	H	8.00	41.30
5150.00	---	49.13	54.00	4.87	10000.00	1000.00	255.00	V	99.00	41.30
5150.00	65.91	---	74.00	8.09	10000.00	1000.00	255.00	V	99.00	41.30

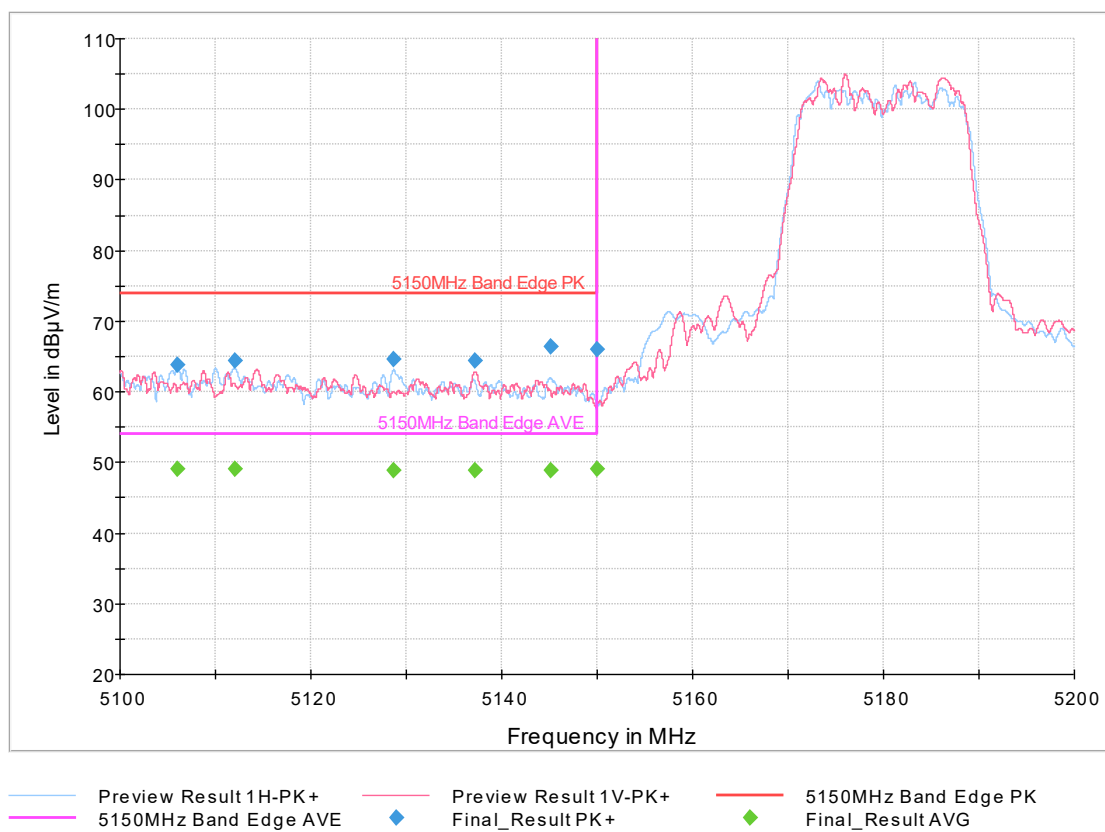


Figure 19: Low Band Edge 802.11n Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5,101.58	---	49.01	54.00	4.99	10,000.00	1,000.00	254.00	H	80.00	41.30
5,101.58	64.18	---	74.00	9.82	10,000.00	1,000.00	254.00	H	80.00	41.30
5,129.79	---	48.89	54.00	5.11	10,000.00	1,000.00	355.00	H	230.00	41.30
5,129.79	64.26	---	74.00	9.74	10,000.00	1,000.00	355.00	H	230.00	41.30
5,139.26	---	49.24	54.00	4.76	10,000.00	1,000.00	100.00	V	211.00	41.30
5,139.26	65.44	---	74.00	8.56	10,000.00	1,000.00	100.00	V	211.00	41.30
5,144.27	66.85	---	74.00	7.15	10,000.00	1,000.00	150.00	V	98.00	41.30
5,144.27	---	49.32	54.00	4.68	10,000.00	1,000.00	150.00	V	98.00	41.30
5,147.88	---	49.29	54.00	4.71	10,000.00	1,000.00	350.00	H	313.00	41.30
5,147.88	65.55	---	74.00	8.45	10,000.00	1,000.00	350.00	H	313.00	41.30
5,150.00	67.87	---	74.00	6.13	10,000.00	1,000.00	100.00	H	106.00	41.30
5,150.00	---	49.75	54.00	4.25	10,000.00	1,000.00	100.00	H	106.00	41.30

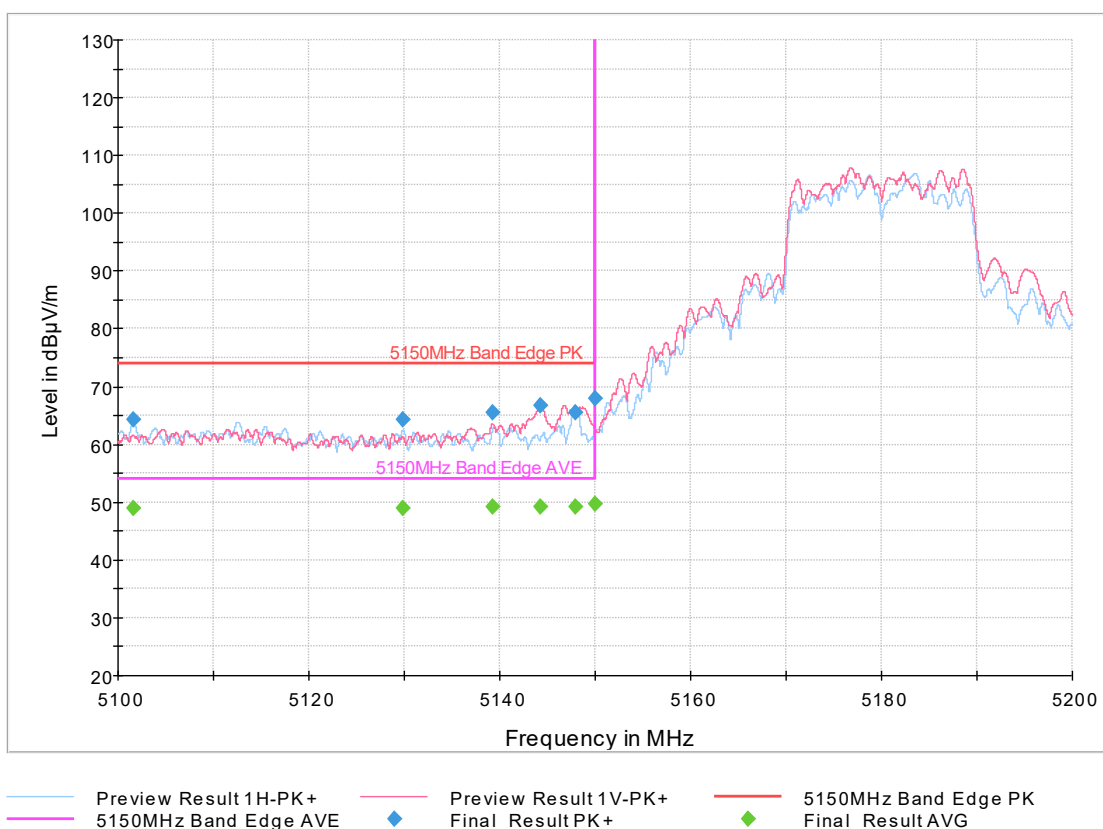


Figure 20: Low Band Edge 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5108.47	64.39	---	74.00	9.61	10000.00	1000.00	100.00	H	199.00	41.30
5108.47	---	49.03	54.00	4.97	10000.00	1000.00	100.00	H	199.00	41.30
5120.45	64.48	---	74.00	9.52	10000.00	1000.00	254.00	H	162.00	41.30
5120.45	---	48.96	54.00	5.04	10000.00	1000.00	254.00	H	162.00	41.30
5137.15	64.47	---	74.00	9.53	10000.00	1000.00	353.00	V	119.00	41.30
5137.15	---	48.77	54.00	5.23	10000.00	1000.00	353.00	V	119.00	41.30
5146.08	68.53	---	74.00	5.48	10000.00	1000.00	156.00	V	159.00	41.30
5146.08	---	51.16	54.00	2.84	10000.00	1000.00	156.00	V	159.00	41.30
5147.74	67.36	---	74.00	6.64	10000.00	1000.00	100.00	H	3.00	41.30
5147.74	---	49.87	54.00	4.13	10000.00	1000.00	100.00	H	3.00	41.30
5150.00	---	51.70	54.00	2.30	10000.00	1000.00	153.00	V	157.00	41.30
5150.00	70.24	---	74.00	3.76	10000.00	1000.00	153.00	V	157.00	41.30

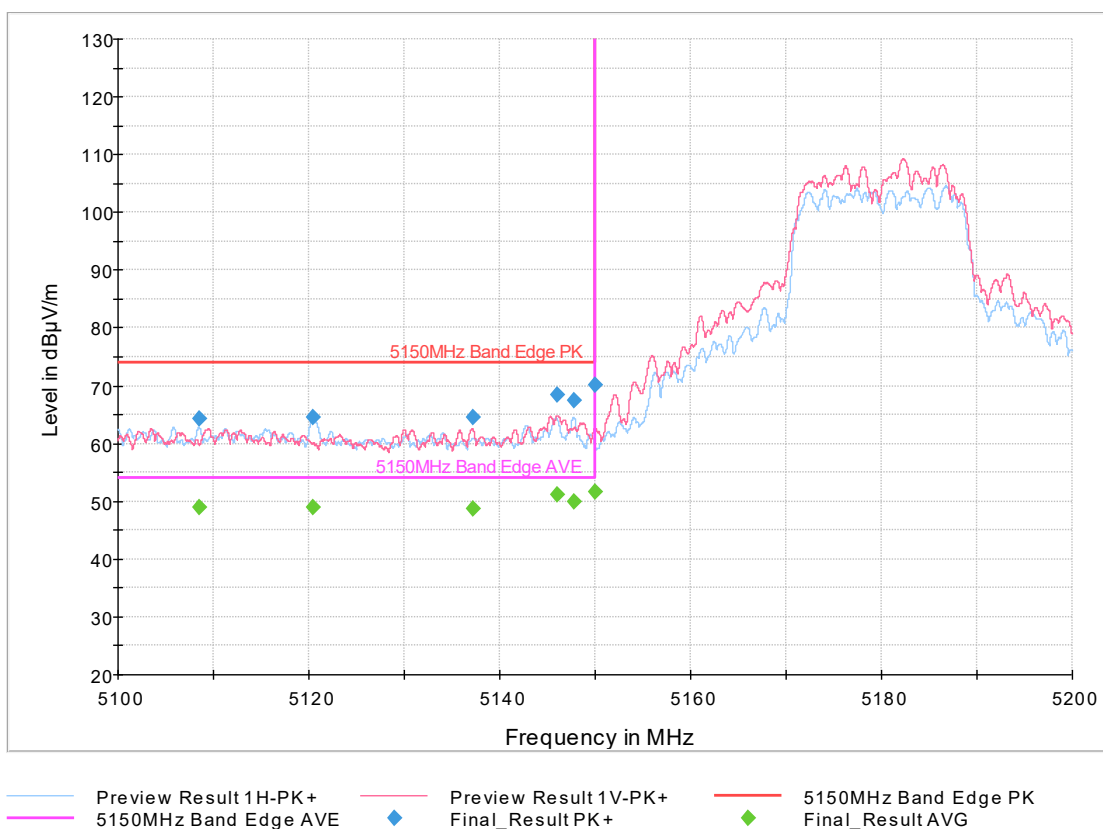


Figure 21: Low Band Edge 802.11ac HT Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5107.62	65.02	---	74.00	8.98	10000.00	1000.00	103.00	V	307.00	41.20
5107.62	---	48.96	54.00	5.04	10000.00	1000.00	108.00	V	307.00	41.20
5120.95	64.27	---	74.00	9.73	10000.00	1000.00	355.00	H	283.00	41.30
5120.95	---	48.93	54.00	5.07	10000.00	1000.00	355.00	H	283.00	41.30
5135.73	63.57	---	74.00	10.43	10000.00	1000.00	255.00	H	31.00	41.30
5135.73	---	48.80	54.00	5.20	10000.00	1000.00	255.00	H	31.00	41.30
5143.42	---	49.00	54.00	5.00	10000.00	1000.00	256.00	H	308.00	41.30
5143.42	64.76	---	74.00	9.24	10000.00	1000.00	256.00	H	308.00	41.30
5147.41	---	49.44	54.00	4.56	10000.00	1000.00	350.00	V	159.00	41.30
5147.41	66.43	---	74.00	7.57	10000.00	1000.00	350.00	V	159.00	41.30
5150.00	---	49.72	54.00	4.28	10000.00	1000.00	104.00	V	187.00	41.30
5150.00	68.37	---	74.00	5.63	10000.00	1000.00	104.00	V	187.00	41.30

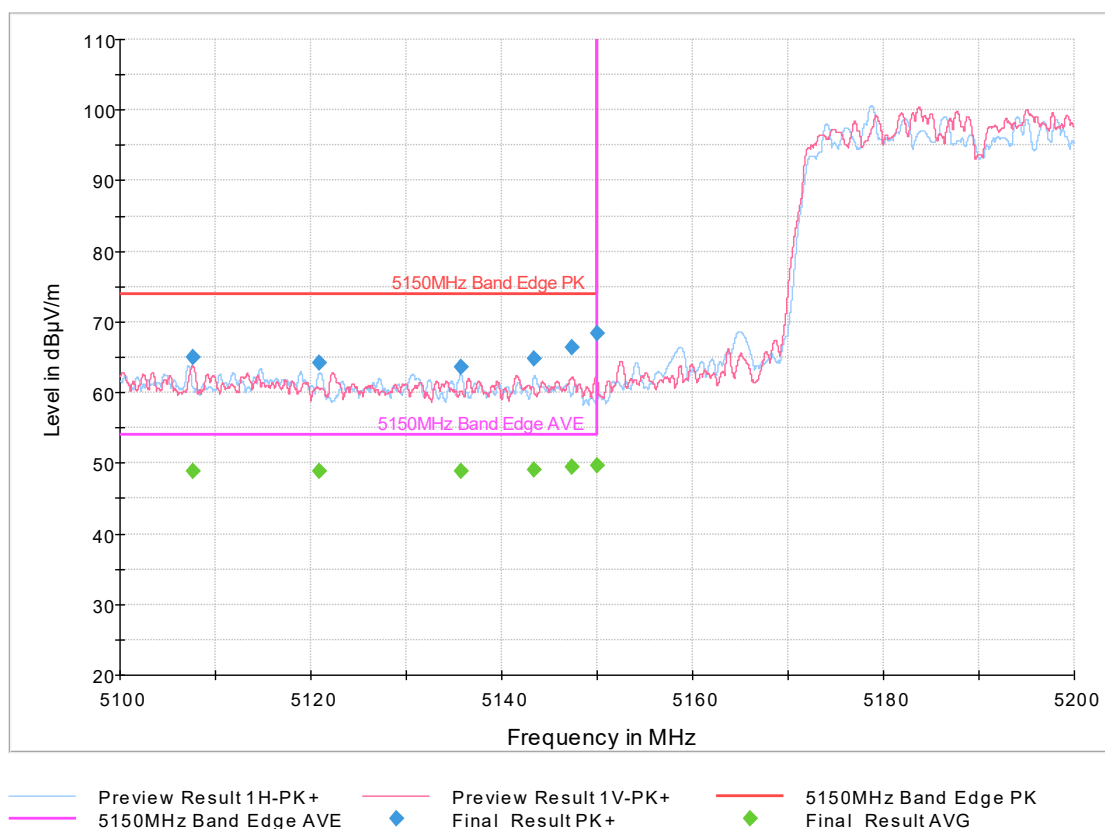


Figure 22: Low Band Edge 802.11n Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5112.80	---	48.91	54.00	5.09	10000.00	1000.00	153.00	V	276.00	41.20
5112.80	63.96	---	74.00	10.04	10000.00	1000.00	153.00	V	276.00	41.20
5125.76	---	48.86	54.00	5.14	10000.00	1000.00	350.00	V	204.00	41.20
5125.76	64.30	---	74.00	9.70	10000.00	1000.00	350.00	V	204.00	41.20
5135.49	---	49.00	54.00	5.00	10000.00	1000.00	158.00	H	115.00	41.30
5135.49	64.73	---	74.00	9.27	10000.00	1000.00	158.00	H	115.00	41.30
5143.64	---	49.39	54.00	4.61	10000.00	1000.00	150.00	V	90.00	41.30
5143.64	67.80	---	74.00	6.20	10000.00	1000.00	150.00	V	90.00	41.30
5148.77	---	49.58	54.00	4.42	10000.00	1000.00	153.00	V	86.00	41.30
5148.77	68.83	---	74.00	5.17	10000.00	1000.00	153.00	V	86.00	41.30
5150.00	---	48.87	54.00	5.13	10000.00	1000.00	350.00	H	223.00	41.30
5150.00	65.48	---	74.00	8.52	10000.00	1000.00	350.00	H	223.00	41.30

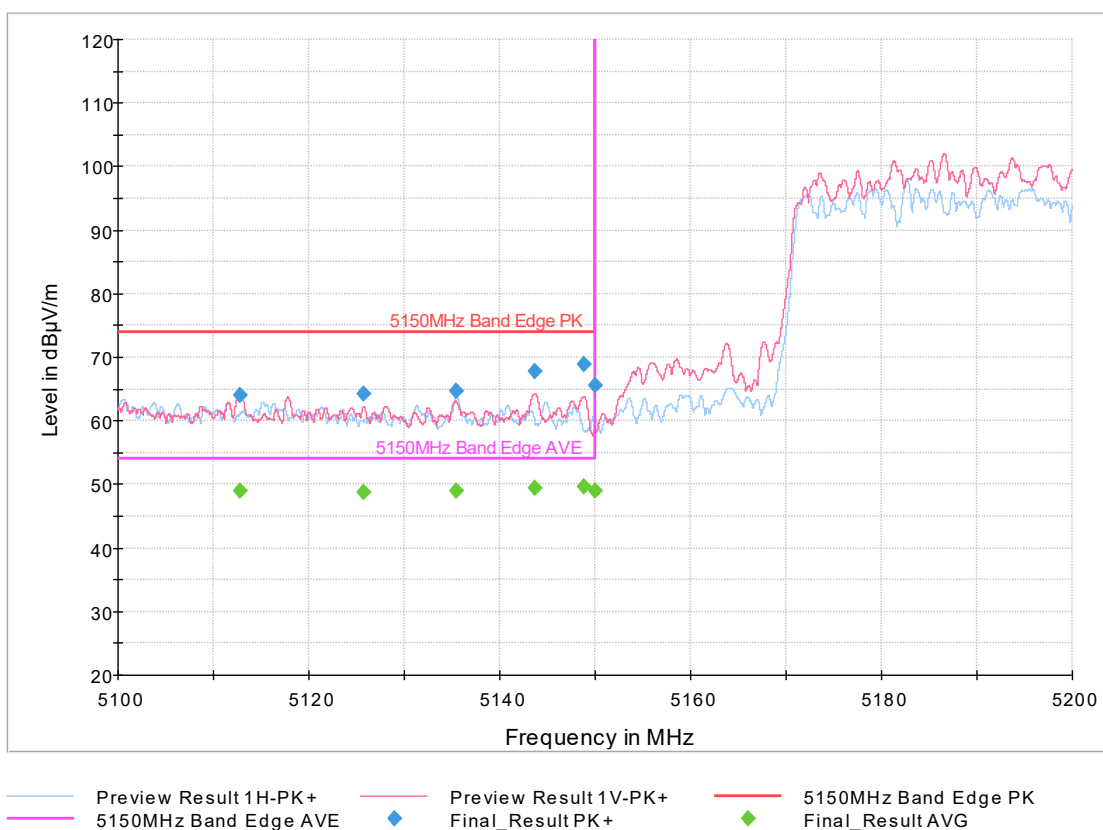


Figure 23: Low Band Edge 802.11ax Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5115.86	---	48.94	54.00	5.06	10000.00	1000.00	350.00	V	324.00	41.20
5115.86	64.03	---	74.00	9.97	10000.00	1000.00	350.00	V	324.00	41.20
5127.81	---	48.89	54.00	5.11	10000.00	1000.00	155.00	H	229.00	41.30
5127.81	64.07	---	74.00	9.93	10000.00	1000.00	155.00	H	229.00	41.30
5135.07	---	48.88	54.00	5.12	10000.00	1000.00	153.00	H	334.00	41.30
5135.07	64.45	---	74.00	9.55	10000.00	1000.00	153.00	H	334.00	41.30
5143.84	---	49.08	54.00	4.92	10000.00	1000.00	354.00	V	348.00	41.30
5143.84	66.30	---	74.00	7.70	10000.00	1000.00	354.00	V	348.00	41.30
5148.40	---	48.74	54.00	5.26	10000.00	1000.00	153.00	H	204.00	41.30
5148.40	65.15	---	74.00	8.85	10000.00	1000.00	153.00	H	204.00	41.30
5150.00	---	48.68	54.00	5.32	10000.00	1000.00	155.00	H	294.00	41.30
5150.00	64.29	---	74.00	9.71	10000.00	1000.00	155.00	H	294.00	41.30

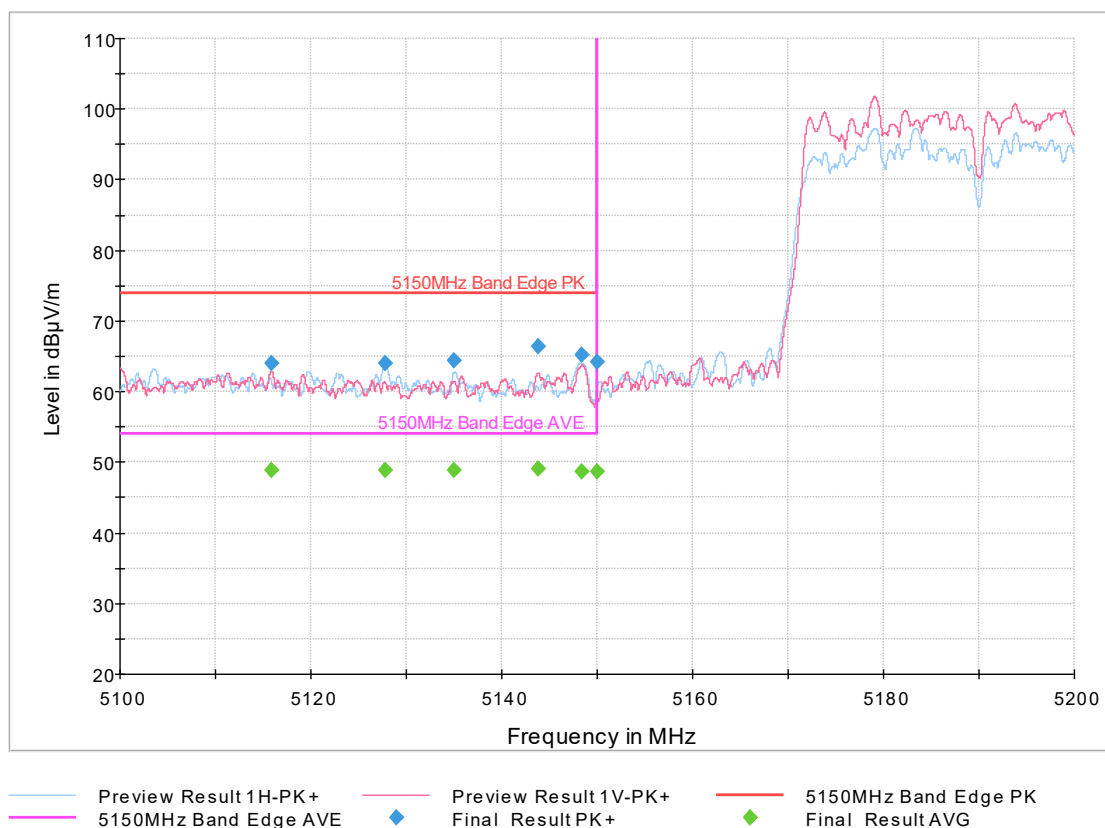


Figure 24: Low Band Edge 802.11ac Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5107.92	---	49.04	54.00	4.96	10000.00	1000.00	253.00	H	268.00	41.30
5107.92	63.99	---	74.00	10.01	10000.00	1000.00	253.00	H	268.00	41.30
5110.29	---	49.08	54.00	4.92	10000.00	1000.00	104.00	V	69.00	41.20
5110.29	64.10	---	74.00	9.90	10000.00	1000.00	104.00	V	69.00	41.20
5125.78	---	49.04	54.00	4.96	10000.00	1000.00	100.00	H	6.00	41.30
5125.78	64.44	---	74.00	9.56	10000.00	1000.00	100.00	H	6.00	41.30
5139.09	---	49.27	54.00	4.73	10000.00	1000.00	250.00	H	108.00	41.30
5139.09	65.57	---	74.00	8.43	10000.00	1000.00	250.00	H	108.00	41.30
5148.19	---	49.58	54.00	4.42	10000.00	1000.00	100.00	H	111.00	41.30
5148.19	68.91	---	74.00	5.09	10000.00	1000.00	100.00	H	111.00	41.30
5149.99	---	49.86	54.00	4.14	10000.00	1000.00	102.00	V	95.00	41.30
5149.99	68.42	---	74.00	5.58	10000.00	1000.00	102.00	V	95.00	41.30

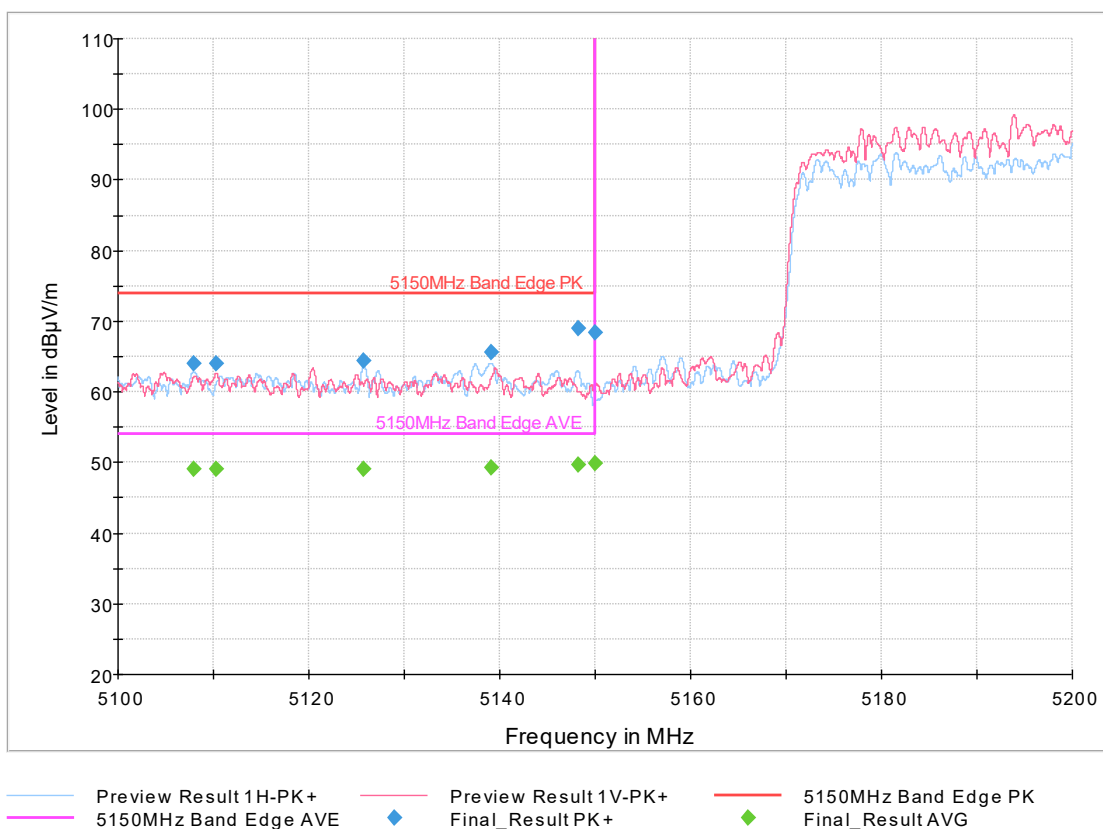


Figure 25: Low Band Edge 802.11ax Mode 80 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5100.91	---	48.95	54.00	5.05	10000.00	1000.00	150.00	V	307.00	41.20
5100.91	63.79	---	74.00	10.21	10000.00	1000.00	150.00	V	307.00	41.20
5116.49	---	48.99	54.00	5.01	10000.00	1000.00	355.00	H	233.00	41.30
5116.49	64.77	---	74.00	9.23	10000.00	1000.00	355.00	H	233.00	41.30
5136.63	---	48.78	54.00	5.22	10000.00	1000.00	150.00	V	24.00	41.30
5136.63	64.67	---	74.00	9.33	10000.00	1000.00	150.00	V	24.00	41.30
5141.58	---	49.01	54.00	4.99	10000.00	1000.00	253.00	H	81.00	41.30
5141.58	66.35	---	74.00	7.65	10000.00	1000.00	253.00	H	81.00	41.30
5146.40	---	48.70	54.00	5.30	10000.00	1000.00	255.00	V	309.00	41.30
5146.40	64.28	---	74.00	9.72	10000.00	1000.00	255.00	V	309.00	41.30
5150.00	---	48.80	54.00	5.20	10000.00	1000.00	105.00	V	237.00	41.30
5150.00	64.22	---	74.00	9.78	10000.00	1000.00	105.00	V	237.00	41.30

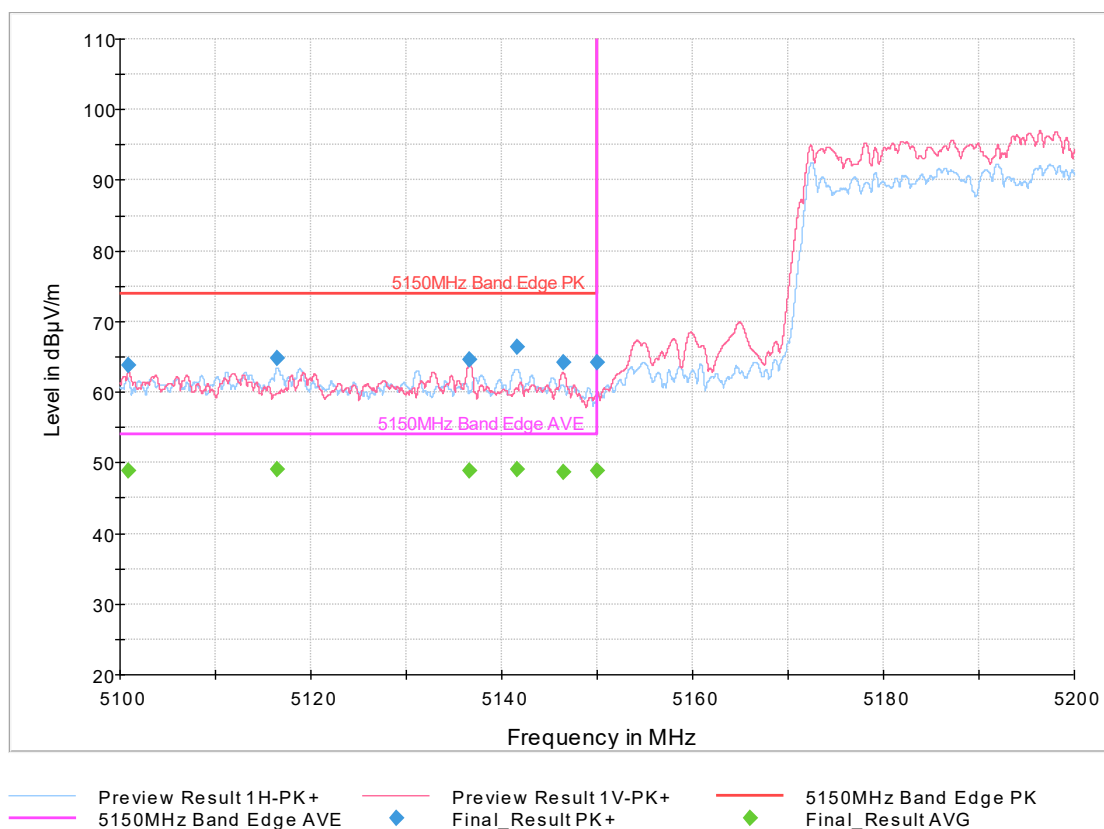


Figure 26: Low Band Edge 802.11ac Mode 80 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5102.20	---	49.04	54.00	4.96	10000.00	1000.00	100.00	V	289.00	41.20
5102.20	64.65	---	74.00	9.35	10000.00	1000.00	100.00	V	289.00	41.20
5118.91	---	49.05	54.00	4.95	10000.00	1000.00	354.00	V	9.00	41.20
5118.91	64.18	---	74.00	9.82	10000.00	1000.00	354.00	V	9.00	41.20
5122.87	---	49.12	54.00	4.88	10000.00	1000.00	250.00	H	87.00	41.30
5122.87	64.79	---	74.00	9.21	10000.00	1000.00	250.00	H	87.00	41.30
5129.87	---	48.92	54.00	5.08	10000.00	1000.00	253.00	H	316.00	41.30
5129.87	64.16	---	74.00	9.84	10000.00	1000.00	253.00	H	316.00	41.30
5144.67	---	48.99	54.00	5.01	10000.00	1000.00	105.00	H	77.00	41.30
5144.67	64.98	---	74.00	9.02	10000.00	1000.00	105.00	H	77.00	41.30
5150.00	---	48.67	54.00	5.33	10000.00	1000.00	155.00	V	265.00	41.30
5150.00	64.37	---	74.00	9.63	10000.00	1000.00	155.00	V	265.00	41.30

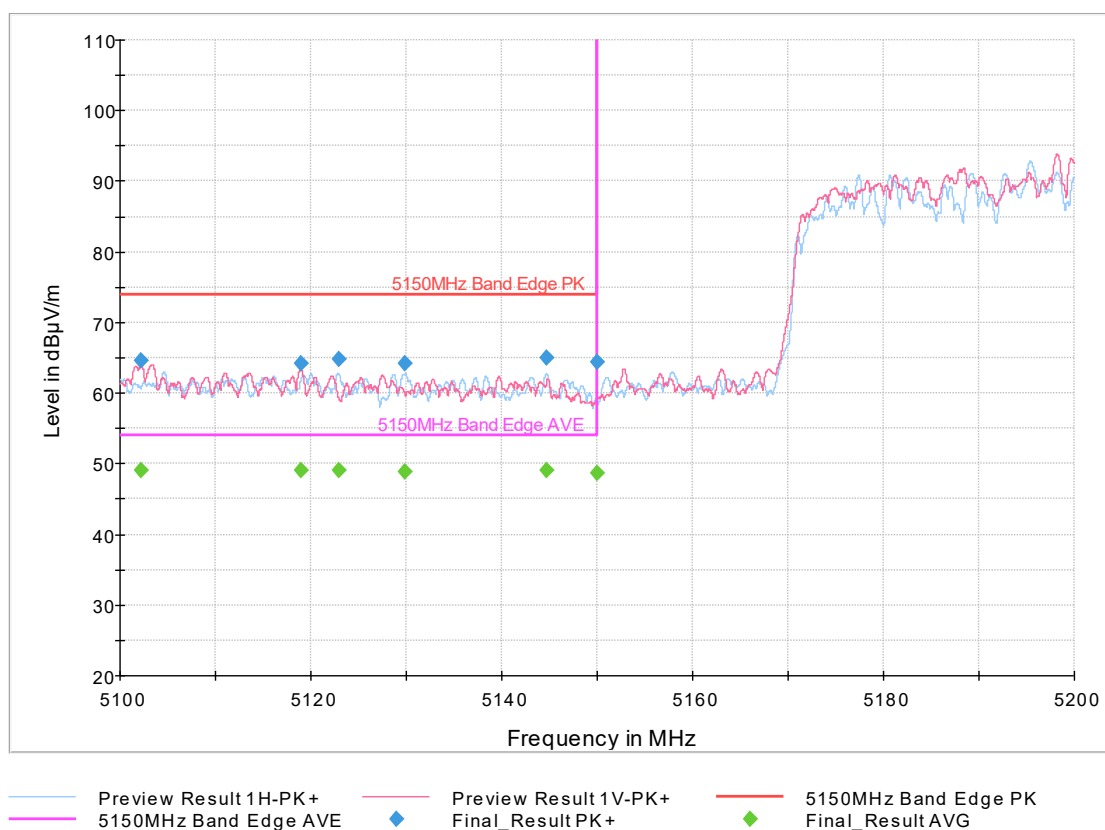


Figure 27: Low Band Edge 802.11ax Mode 160 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5107.30	---	49.81	54.00	4.19	10000.00	1000.00	350.00	V	198.00	41.20
5107.30	69.27	---	74.00	4.73	10000.00	1000.00	350.00	V	198.00	41.20
5133.51	---	49.47	54.00	4.53	10000.00	1000.00	253.00	V	189.00	41.30
5133.51	69.05	---	74.00	4.95	10000.00	1000.00	253.00	V	189.00	41.30
5145.28	---	49.68	54.00	4.32	10000.00	1000.00	253.00	V	193.00	41.30
5145.28	71.33	---	74.00	2.67	10000.00	1000.00	253.00	V	193.00	41.30
5146.53	---	49.47	54.00	4.53	10000.00	1000.00	253.00	V	193.00	41.30
5146.53	68.79	---	74.00	5.21	10000.00	1000.00	253.00	V	193.00	41.30
5148.82	---	49.40	54.00	4.60	10000.00	1000.00	255.00	V	193.00	41.30
5148.82	68.33	---	74.00	5.67	10000.00	1000.00	255.00	V	193.00	41.30
5149.85	---	49.02	54.00	4.98	10000.00	1000.00	354.00	H	319.00	41.30
5149.85	66.37	---	74.00	7.63	10000.00	1000.00	354.00	H	319.00	41.30

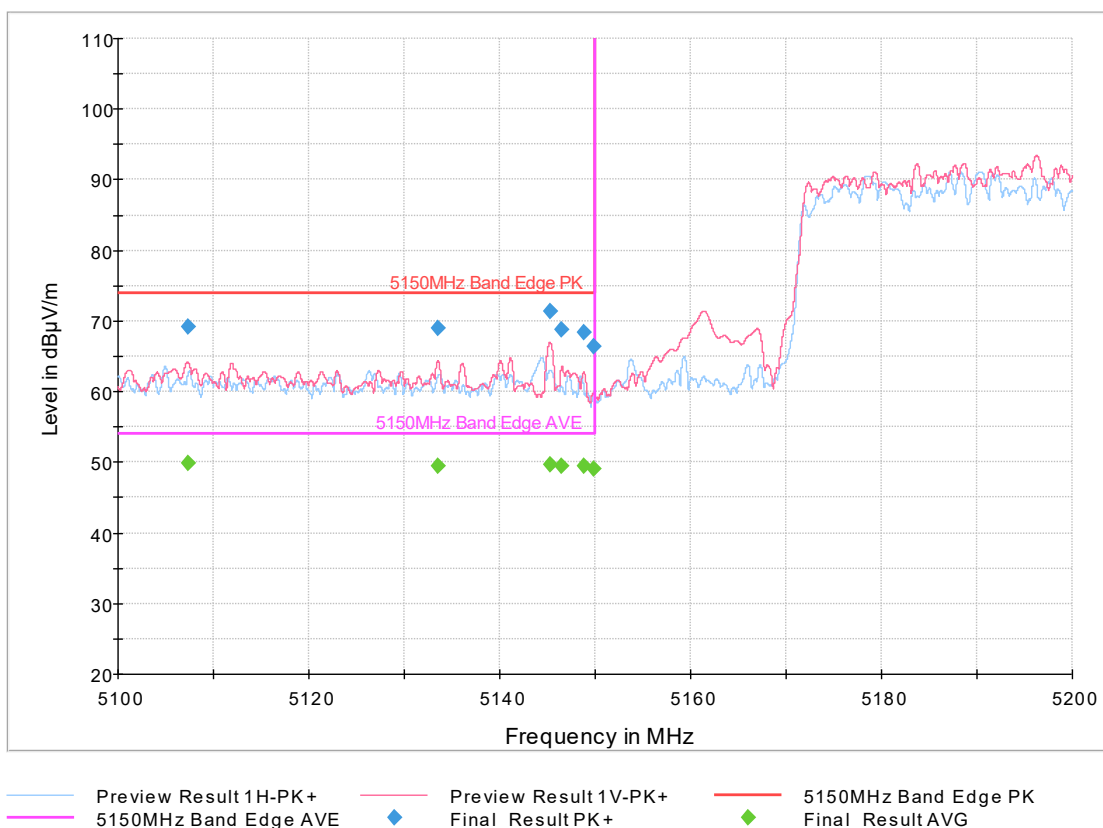


Figure 28: Low Band Edge 802.11ax Mode 160 MHz, Low Channel

4.4.2.2 UNII-3 Low Band Edge Non-BF: Results and Plots

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5501.55	53.45	---	68.20	14.75	1000.00	250.00	H	31.00	41.90
5501.55	---	38.73	---	---	1000.00	250.00	H	31.00	41.90
5592.60	---	39.52	---	---	1000.00	150.00	V	162.00	42.00
5592.60	54.56	---	68.20	13.64	1000.00	150.00	V	162.00	42.00
5618.55	56.86	---	68.20	11.34	1000.00	150.00	V	84.00	42.00
5618.55	---	40.47	---	---	1000.00	150.00	V	84.00	42.00
5637.55	57.02	---	68.20	11.18	1000.00	155.00	V	-5.00	42.00
5637.55	---	41.00	---	---	1000.00	155.00	V	-5.00	42.00
5646.15	58.14	---	68.20	10.06	1000.00	350.00	V	353.00	42.00
5646.15	---	42.98	---	---	1000.00	350.00	V	353.00	42.00
5651.40	57.48	---	69.24	11.76	1000.00	350.00	V	-1.00	42.00
5651.40	---	42.02	---	---	1000.00	350.00	V	-1.00	42.00
5656.40	---	42.28	---	---	1000.00	350.00	V	354.00	42.00
5656.40	58.00	---	72.94	14.94	1000.00	350.00	V	354.00	42.00
5943.65	54.41	---	68.20	13.79	1000.00	235.00	V	274.00	42.30
5943.65	---	39.99	---	---	1000.00	235.00	V	274.00	42.30
5960.60	---	40.13	---	---	1000.00	250.00	H	341.00	42.40
5960.60	55.20	---	68.20	13.00	1000.00	250.00	H	341.00	42.40

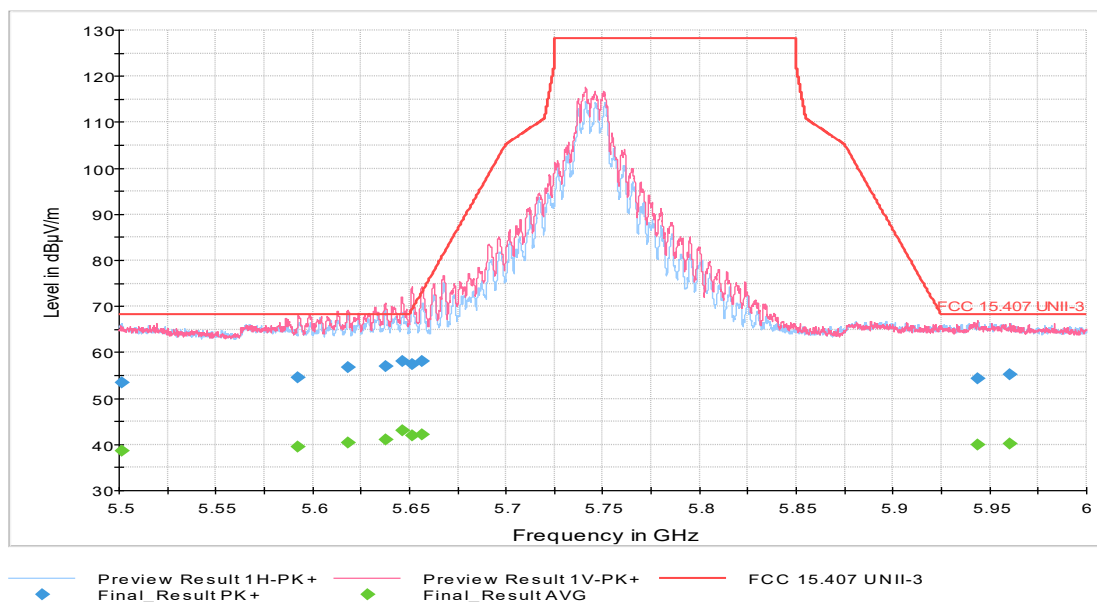


Figure 29: Low Band Edge 802.11a Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5595.25	56.41	---	68.20	11.79	1000.00	100.00	V	86.00	42.00
5595.25	---	40.63	---	---	1000.00	100.00	V	86.00	42.00
5624.65	58.21	---	68.20	9.99	1000.00	333.00	V	3.00	42.00
5624.65	---	42.18	---	---	1000.00	333.00	V	3.00	42.00
5637.25	59.97	---	68.20	8.23	1000.00	256.00	V	-1.00	42.00
5637.25	---	43.32	---	---	1000.00	250.00	V	-1.00	42.00
5652.30	60.65	---	69.90	9.25	1000.00	250.00	V	-1.00	42.00
5652.30	---	43.41	---	---	1000.00	250.00	V	-1.00	42.00
5665.40	61.72	---	79.60	17.87	1000.00	155.00	V	85.00	42.00
5665.40	---	44.21	---	---	1000.00	155.00	V	85.00	42.00
5924.95	54.02	---	68.24	14.22	1000.00	250.00	V	3.00	42.20
5924.95	---	40.04	---	---	1000.00	250.00	V	3.00	42.20
5947.20	---	40.04	---	---	1000.00	350.00	H	-1.00	42.40
5947.20	54.10	---	68.20	14.10	1000.00	350.00	H	-1.00	42.40

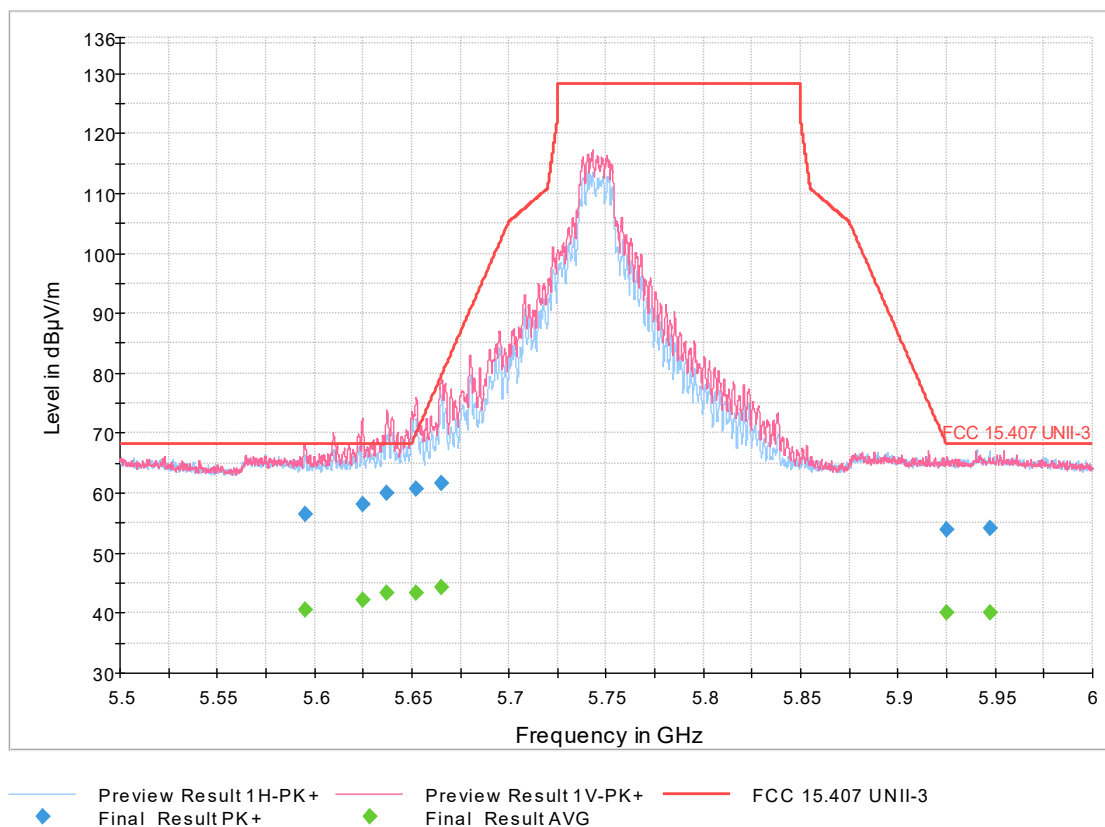


Figure 30: Low Band Edge 802.11n Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5628.20	57.36	---	68.20	10.84	1000.00	250.00	V	353.00	42.00
5628.20	---	40.70	---	---	1000.00	250.00	V	353.00	42.00
5643.15	---	42.27	---	---	1000.00	100.00	V	177.00	42.00
5643.15	60.03	---	68.20	8.17	1000.00	100.00	V	177.00	42.00
5653.30	---	43.70	---	---	1000.00	108.00	V	181.00	42.00
5653.30	62.00	---	70.64	8.64	1000.00	108.00	V	181.00	42.00
5657.50	60.84	---	73.75	12.91	1000.00	100.00	V	170.00	42.00
5657.50	---	43.41	---	---	1000.00	100.00	V	170.00	42.00
5925.05	54.55	---	68.20	13.65	1000.00	250.00	H	120.00	42.30
5925.05	---	40.17	---	---	1000.00	250.00	H	120.00	42.30
5944.00	54.19	---	68.20	14.01	1000.00	102.00	H	219.00	42.40
5944.00	---	40.12	---	---	1000.00	102.00	H	219.00	42.40

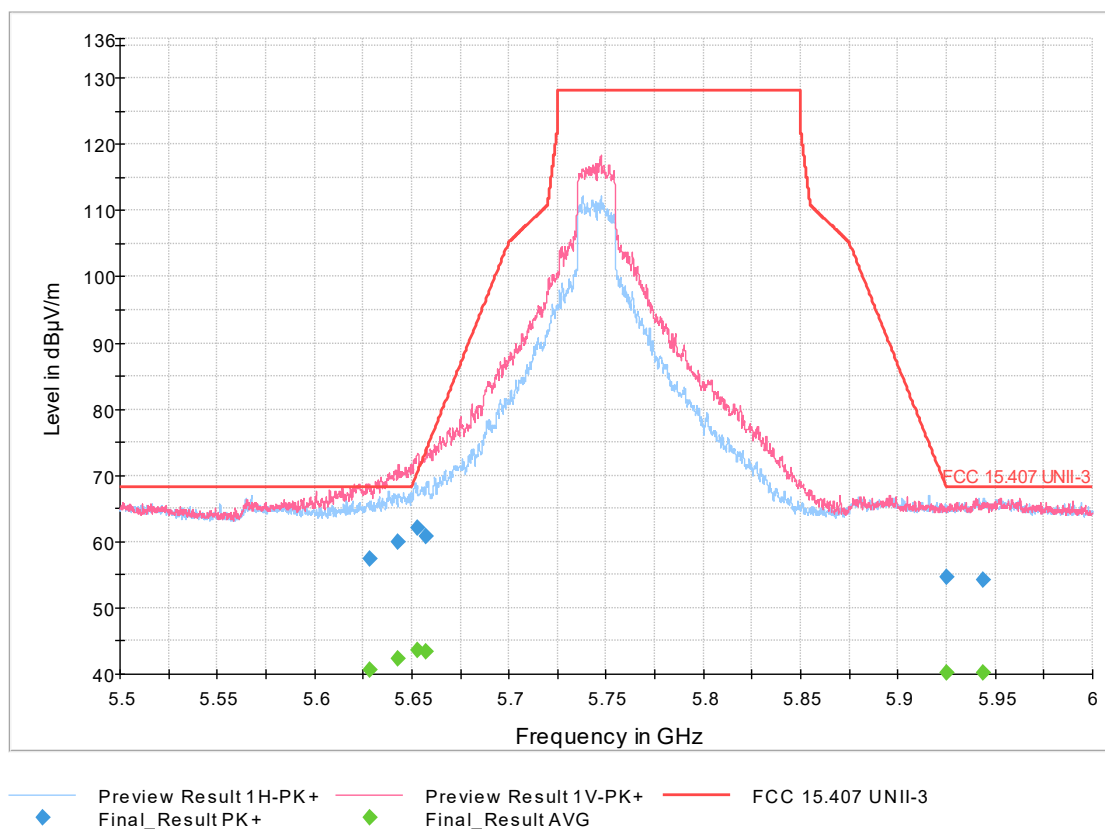


Figure 31: Low Band Edge 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5566.30	---	39.02	---	---	1000.00	150.00	V	259.00	42.00
5566.30	53.49	---	68.20	14.71	1000.00	150.00	V	259.00	42.00
5629.25	57.27	---	68.20	10.94	1000.00	250.00	V	14.00	42.00
5629.25	---	40.30	---	---	1000.00	250.00	V	14.00	42.00
5644.85	---	40.86	---	---	1000.00	255.00	V	21.00	42.00
5644.85	58.75	---	68.20	9.45	1000.00	255.00	V	21.00	42.00
5648.10	58.42	---	68.20	9.78	1000.00	100.00	V	177.00	42.00
5648.10	---	41.61	---	---	1000.00	100.00	V	177.00	42.00
5925.40	---	40.14	---	---	1000.00	236.00	H	223.00	42.30
5925.40	54.69	---	68.20	13.51	1000.00	236.00	H	223.00	42.30
5957.20	---	40.08	---	---	1000.00	350.00	H	347.00	42.40
5957.20	54.41	---	68.20	13.79	1000.00	350.00	H	347.00	42.40

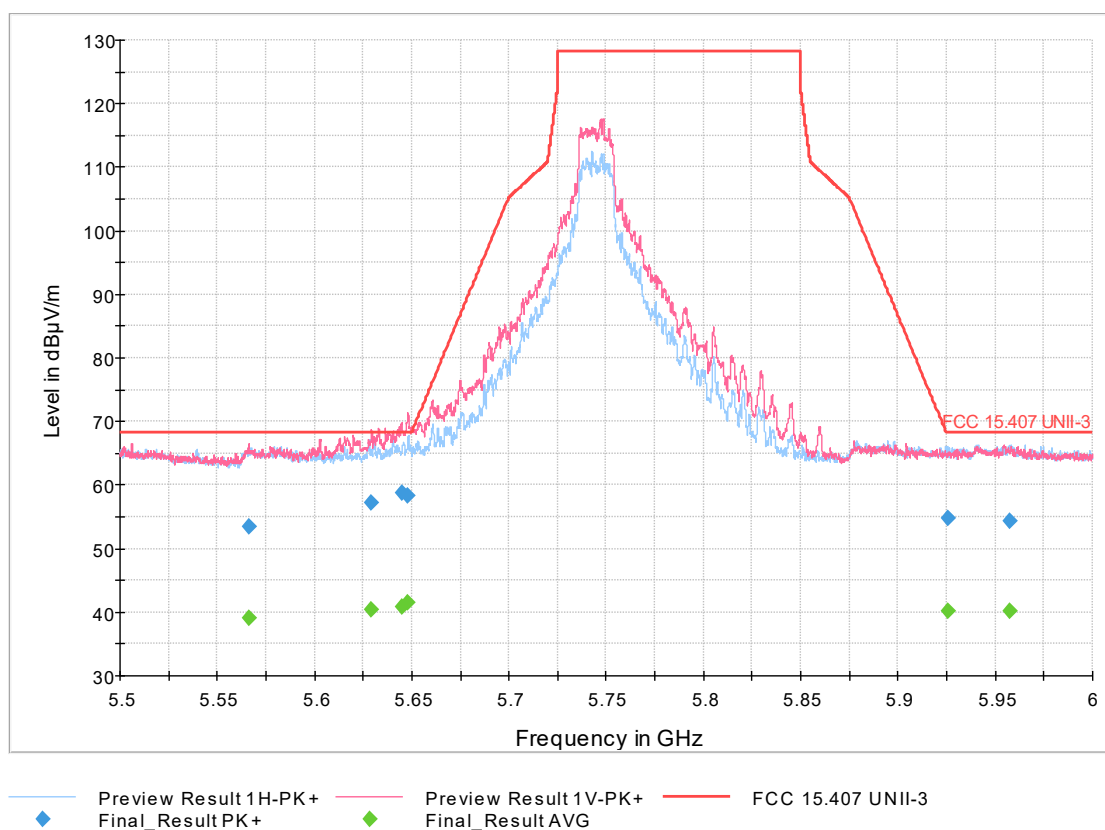


Figure 32: Low Band Edge 802.11ac HT Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5557.40	---	39.42	---	---	1000.00	100.00	V	90.00	42.00
5557.40	54.61	---	68.20	13.59	1000.00	100.00	V	90.00	42.00
5594.40	---	43.56	---	---	1000.00	104.00	V	95.00	42.00
5594.40	58.97	---	68.20	9.23	1000.00	104.00	V	95.00	42.00
5622.35	---	44.19	---	---	1000.00	105.00	V	171.00	42.00
5622.35	64.98	---	68.20	3.22	1000.00	105.00	V	171.00	42.00
5638.40	---	49.61	---	---	1000.00	105.00	V	171.00	42.00
5638.40	67.49	---	68.20	0.71	1000.00	105.00	V	171.00	42.00
5642.50	65.45	---	68.20	2.75	1000.00	100.00	V	173.00	42.00
5642.50	---	44.87	---	---	1000.00	100.00	V	173.00	42.00
5650.00	---	46.61	---	---	1000.00	153.00	V	3.00	42.00
5650.00	62.20	---	68.20	6.00	1000.00	153.00	V	3.00	42.00
5658.65	---	54.67	---	---	1000.00	106.00	V	171.00	42.00
5658.65	73.35	---	74.60	1.25	1000.00	106.00	V	171.00	42.00
5666.50	72.81	---	80.41	7.60	1000.00	100.00	V	171.00	42.00
5666.50	---	55.88	---	---	1000.00	100.00	V	171.00	42.00
5925.65	54.09	---	68.20	14.11	1000.00	105.00	H	30.00	42.30
5925.65	---	40.08	---	---	1000.00	105.00	H	30.00	42.30

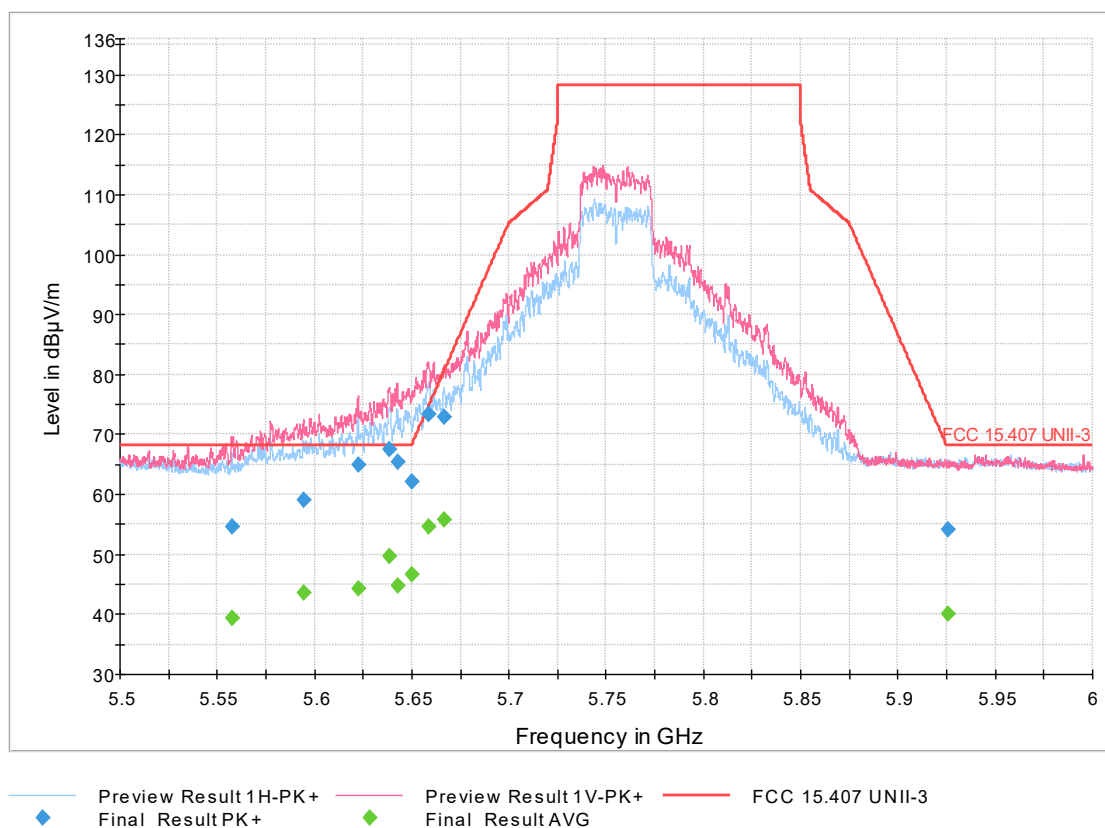


Figure 33: Low Band Edge 802.11n Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5520.50	---	39.90	---	---	1000.00	107.00	V	189.00	42.00
5520.50	55.64	---	68.20	12.56	1000.00	107.00	V	189.00	42.00
5574.05	58.87	---	68.20	9.33	1000.00	334.00	V	16.00	42.00
5574.05	---	42.28	---	---	1000.00	334.00	V	16.00	42.00
5622.50	---	43.57	---	---	1000.00	100.00	V	174.00	42.00
5622.50	65.97	---	68.20	2.23	1000.00	100.00	V	174.00	42.00
5642.80	---	49.14	---	---	1000.00	100.00	V	179.00	42.00
5642.80	67.91	---	68.20	0.29	1000.00	100.00	V	179.00	42.00
5652.25	---	50.58	---	---	1000.00	103.00	V	179.00	42.00
5652.25	68.69	---	69.87	1.18	1000.00	103.00	V	179.00	42.00
5667.20	71.75	---	80.93	9.18	1000.00	100.00	V	175.00	42.00
5667.20	---	53.60	---	---	1000.00	100.00	V	175.00	42.00
5925.00	54.38	---	68.20	13.82	1000.00	150.00	H	211.00	42.30
5925.00	---	40.12	---	---	1000.00	150.00	H	211.00	42.30

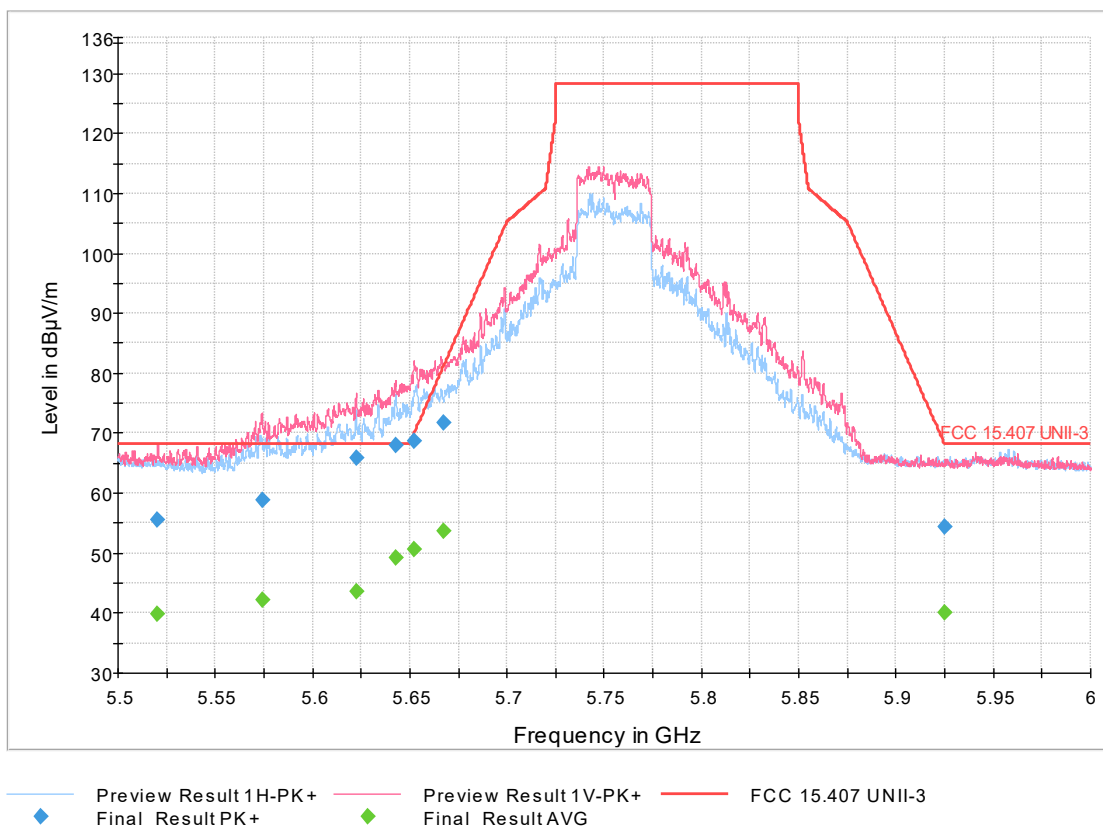


Figure 34: Low Band Edge 802.11ax Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5546.55	---	40.73	---	---	1000.00	356.00	V	30.00	42.00
5546.55	56.58	---	68.20	11.62	1000.00	356.00	V	30.00	42.00
5575.85	57.62	---	68.20	10.58	1000.00	250.00	V	4.00	42.00
5575.85	---	41.16	---	---	1000.00	250.00	V	4.00	42.00
5595.80	57.50	---	68.20	10.70	1000.00	105.00	V	-1.00	42.00
5595.80	---	41.78	---	---	1000.00	105.00	V	-1.00	42.00
5622.45	65.57	---	68.20	2.63	1000.00	100.00	V	182.00	42.00
5622.45	---	45.55	---	---	1000.00	100.00	V	182.00	42.00
5638.90	58.84	---	68.20	9.36	1000.00	106.00	V	174.00	42.00
5638.90	---	43.26	---	---	1000.00	106.00	V	174.00	42.00
5644.35	65.05	---	68.20	3.15	1000.00	100.00	V	181.00	42.00
5644.35	---	48.08	---	---	1000.00	100.00	V	181.00	42.00
5648.65	---	47.15	---	---	1000.00	103.00	V	178.00	42.00
5648.65	63.30	---	68.20	4.90	1000.00	103.00	V	178.00	42.00
5649.95	---	47.69	---	---	1000.00	256.00	V	169.00	42.00
5649.95	63.97	---	68.20	4.23	1000.00	256.00	V	169.00	42.00
5652.10	64.83	---	69.75	4.92	1000.00	353.00	V	17.00	42.00
5652.10	---	48.53	---	---	1000.00	353.00	V	17.00	42.00
5658.90	63.82	---	74.79	10.96	1000.00	105.00	V	178.00	42.00
5658.90	---	47.50	---	---	1000.00	105.00	V	178.00	42.00
5664.30	65.86	---	78.78	12.93	1000.00	105.00	V	178.00	42.00
5664.30	---	48.59	---	---	1000.00	105.00	V	178.00	42.00
5925.00	54.48	---	68.20	13.72	1000.00	350.00	H	208.00	42.30
5925.00	---	40.09	---	---	1000.00	350.00	H	208.00	42.30

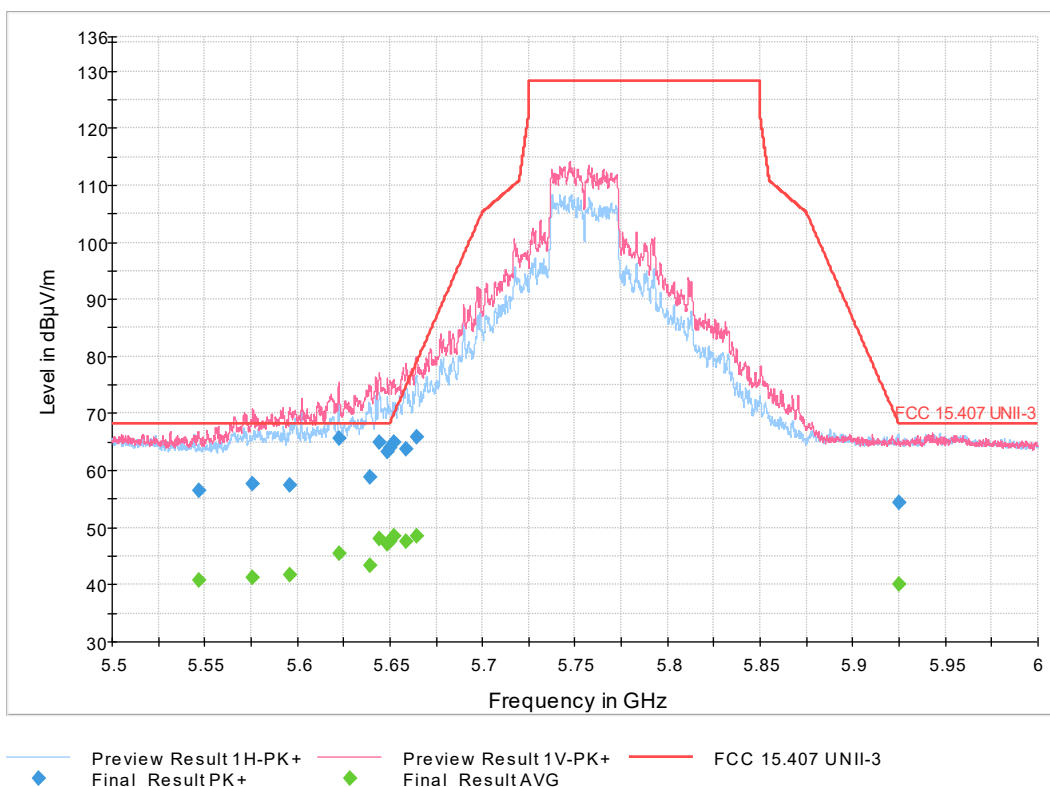


Figure 35: Low Band Edge 802.11ac Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5545.85	---	39.99	---	---	1000	250	V	357	42
5545.85	55.57	---	68.2	12.63	1000	250	V	357	42
5589.65	58.32	---	68.2	9.88	1000	103	V	172	42
5589.65	---	41.42	---	---	1000	103	V	172	42
5622.25	62.94	---	68.2	5.26	1000	106	V	172	42
5622.25	---	44.66	---	---	1000	106	V	172	42
5632.55	---	47.45	---	---	1000	100	V	177	42
5632.55	64.79	---	68.2	3.41	1000	100	V	177	42
5650.55	63.87	---	68.61	4.73	1000	250	V	341	42
5650.55	---	45.28	---	---	1000	250	V	341	42
5655.5	66.49	---	72.27	5.78	1000	150	V	179	42
5655.5	---	46.98	---	---	1000	150	V	179	42
5664.8	68.63	---	79.15	10.52	1000	100	V	185	42
5664.8	---	49.78	---	---	1000	100	V	185	42
5666.2	---	49.48	---	---	1000	105	V	178	42
5666.2	68.57	---	80.19	11.62	1000	105	V	178	42
5925	54.43	---	68.2	13.77	1000	103	H	204	42.3
5925	---	40.08	---	---	1000	103	H	204	42.3

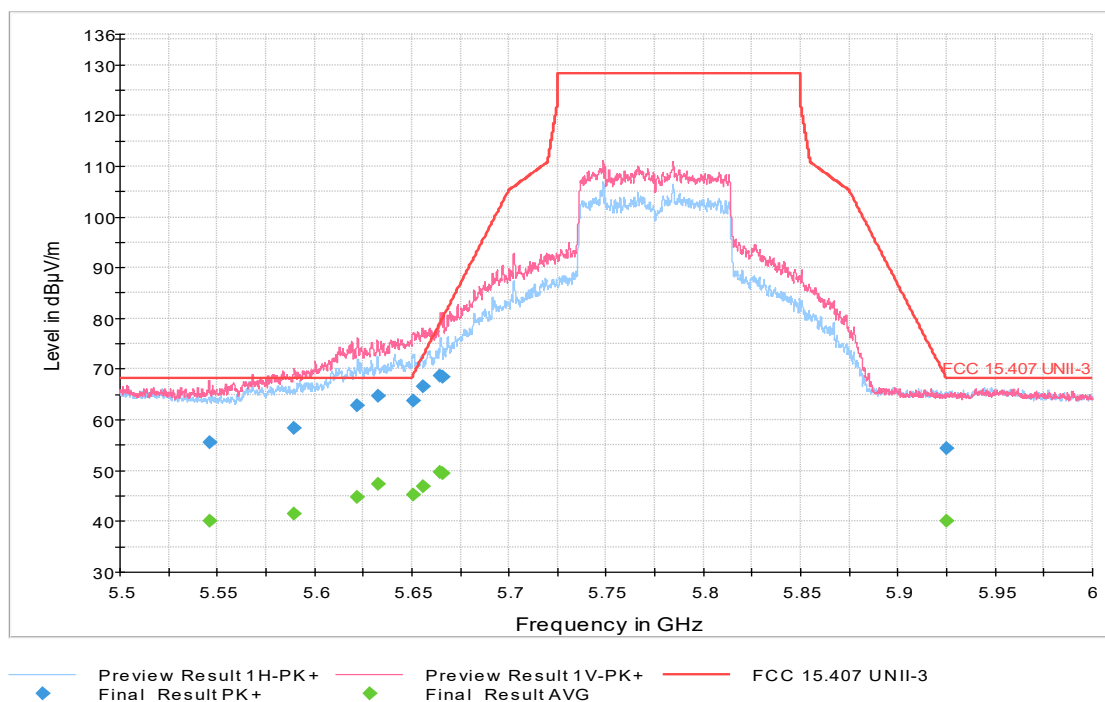


Figure 36: Low Band Edge 802.11ax Mode 80 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5547.00	---	40.24	---	---	1000.00	350.00	V	19.00	42.00
5547.00	55.26	---	68.20	12.94	1000.00	350.00	V	19.00	42.00
5592.50	---	43.23	---	---	1000.00	355.00	V	-5.00	42.00
5592.50	61.48	---	68.20	6.72	1000.00	355.00	V	-5.00	42.00
5606.40	---	43.44	---	---	1000.00	100.00	V	170.00	42.00
5606.40	62.01	---	68.20	6.19	1000.00	100.00	V	170.00	42.00
5619.15	64.21	---	68.20	3.99	1000.00	100.00	V	184.00	42.00
5619.15	---	46.11	---	---	1000.00	100.00	V	184.00	42.00
5630.30	62.75	---	68.20	5.45	1000.00	250.00	V	-2.00	42.00
5630.30	---	44.73	---	---	1000.00	250.00	V	-2.00	42.00
5644.70	66.58	---	68.20	1.62	1000.00	100.00	V	176.00	42.00
5644.70	---	47.62	---	---	1000.00	100.00	V	176.00	42.00
5650.75	65.57	---	68.76	3.18	1000.00	154.00	V	181.00	42.00
5650.75	---	46.46	---	---	1000.00	154.00	V	181.00	42.00
5664.70	66.89	---	79.08	12.19	1000.00	108.00	V	-5.00	42.00
5664.70	---	48.81	---	---	1000.00	108.00	V	-5.00	42.00
5925.20	53.85	---	68.20	14.35	1000.00	256.00	H	195.00	42.30
5925.20	---	40.11	---	---	1000.00	256.00	H	195.00	42.30

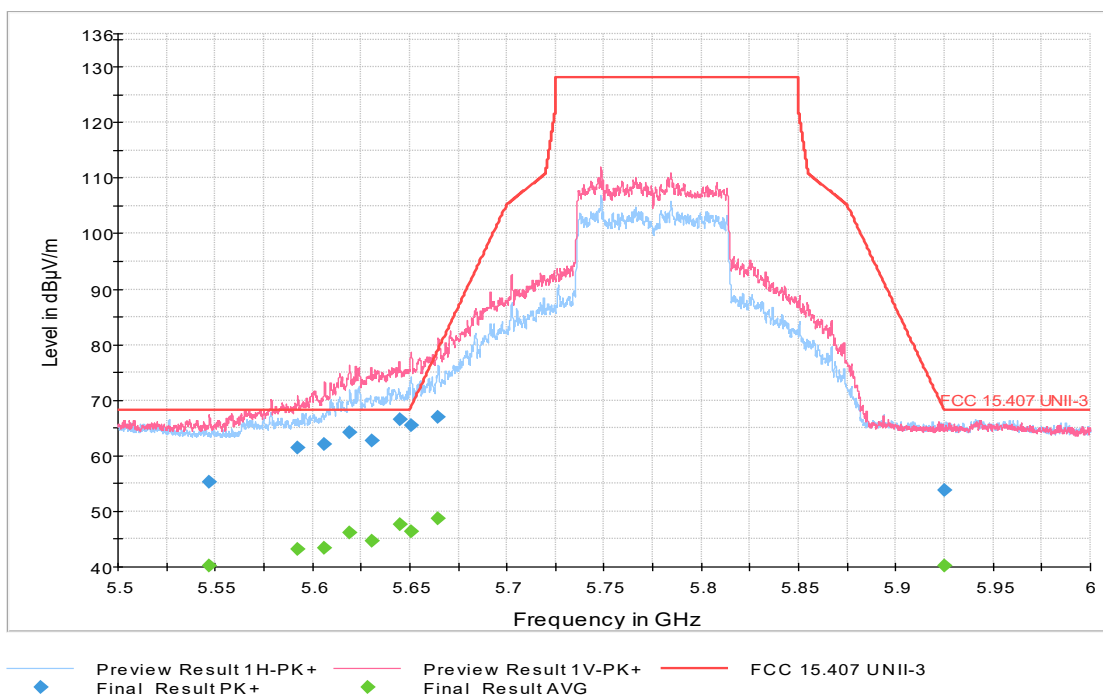


Figure 37: Low Band Edge 802.11ac Mode 80 MHz, Low Channel

4.4.2.3 UNII-3 High Band Edge Non-BF: Results and Plots

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5514.65	53.93	---	68.20	14.27	1000.00	354.00	V	2.00	42.00
5514.65	---	38.92	---	---	1000.00	354.00	V	2.00	42.00
5644.90	---	38.93	---	---	1000.00	153.00	V	199.00	42.00
5644.90	53.73	---	68.20	14.47	1000.00	153.00	V	199.00	42.00
5926.15	---	40.06	---	---	1000.00	350.00	V	69.00	42.20
5926.15	54.54	---	68.20	13.66	1000.00	350.00	V	69.00	42.20
5929.85	54.50	---	68.20	13.70	1000.00	356.00	V	194.00	42.20
5929.85	---	40.06	---	---	1000.00	356.00	V	194.00	42.20
5948.85	53.94	---	68.20	14.26	1000.00	250.00	H	74.00	42.40
5948.85	---	40.04	---	---	1000.00	250.00	H	74.00	42.40
5978.95	54.19	---	68.20	14.01	1000.00	350.00	V	336.00	42.50
5978.95	---	40.13	---	---	1000.00	350.00	V	336.00	42.50

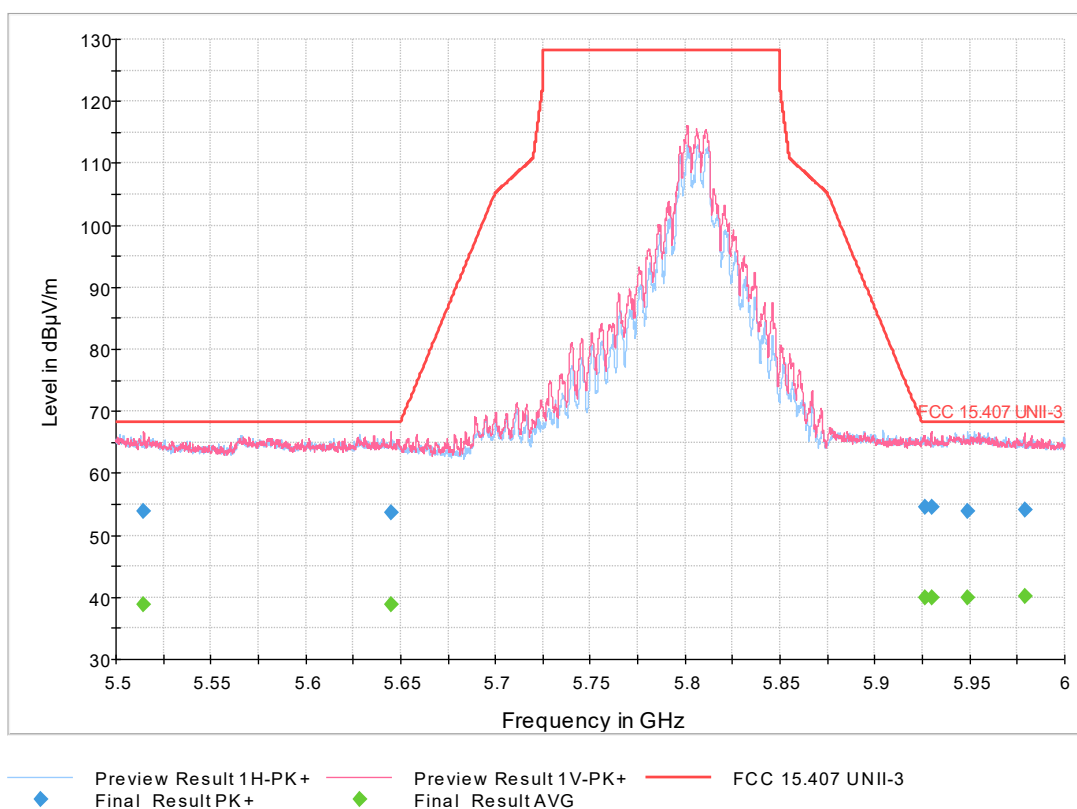


Figure 38: High Band Edge 802.11a Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5503.05	53.48	---	68.20	14.72	1000.00	354.00	H	266.00	41.90
5503.05	---	38.69	---	---	1000.00	354.00	H	266.00	41.90
5580.45	---	39.04	---	---	1000.00	100.00	H	308.00	42.00
5580.45	54.00	---	68.20	14.20	1000.00	100.00	H	308.00	42.00
5640.85	---	39.63	---	---	1000.00	350.00	V	17.00	42.00
5640.85	54.67	---	68.20	13.53	1000.00	350.00	V	17.00	42.00
5643.35	54.65	---	68.20	13.55	1000.00	250.00	V	21.00	42.00
5643.35	---	39.50	---	---	1000.00	250.00	V	21.00	42.00
5649.25	54.46	---	68.20	13.74	1000.00	155.00	V	178.00	42.00
5649.25	---	39.73	---	---	1000.00	155.00	V	178.00	42.00
5944.75	54.29	---	68.20	13.91	1000.00	150.00	H	227.00	42.40
5944.75	---	40.06	---	---	1000.00	150.00	H	227.00	42.40

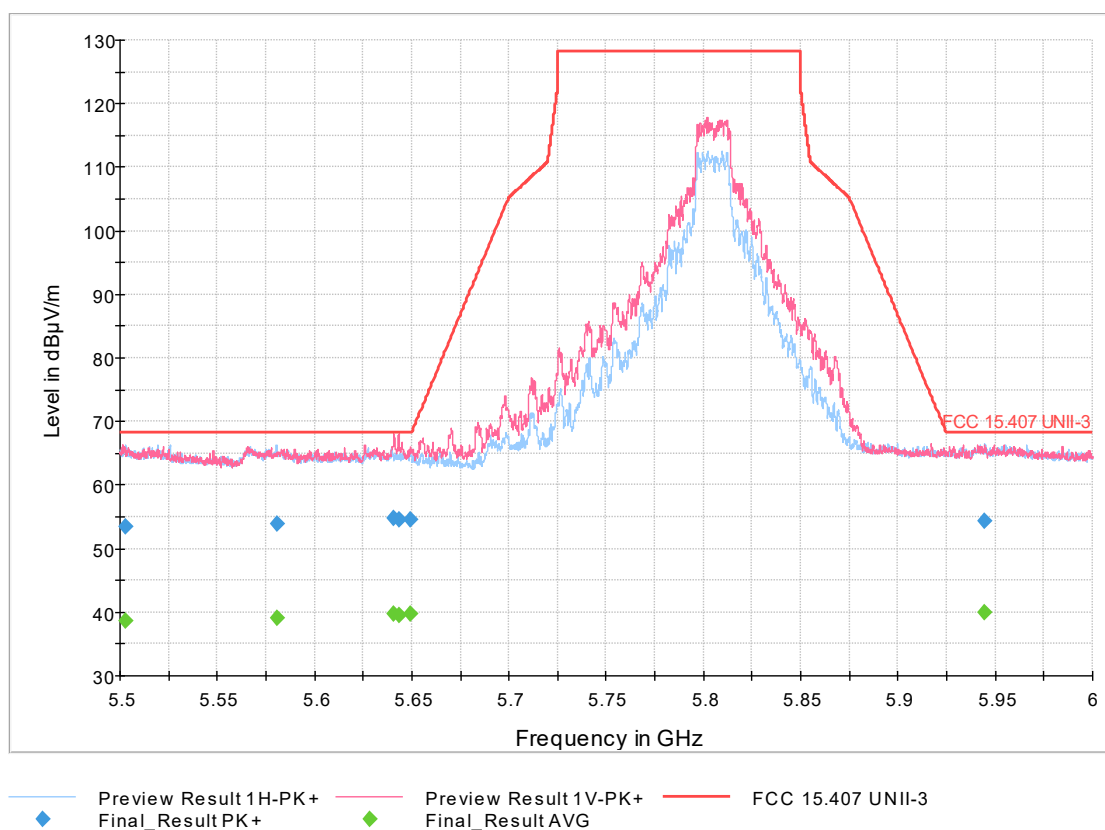


Figure 39: High Band Edge 802.11n Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5517.25	53.43	---	68.20	14.77	1000.00	353.00	H	330.00	41.90
5517.25	---	38.86	---	---	1000.00	353.00	H	330.00	41.90
5566.20	---	38.92	---	---	1000.00	250.00	H	238.00	42.00
5566.20	53.48	---	68.20	14.72	1000.00	250.00	H	238.00	42.00
5628.85	55.21	---	68.20	12.99	1000.00	103.00	V	170.00	42.00
5628.85	---	39.37	---	---	1000.00	103.00	V	170.00	42.00
5648.70	55.25	---	68.20	12.95	1000.00	250.00	V	12.00	42.00
5648.70	---	39.48	---	---	1000.00	250.00	V	12.00	42.00
5925.10	---	40.11	---	---	1000.00	355.00	H	253.00	42.30
5925.10	54.37	---	68.20	13.83	1000.00	355.00	H	253.00	42.30
5955.85	53.90	---	68.20	14.30	1000.00	105.00	V	167.00	42.40
5955.85	---	40.03	---	---	1000.00	105.00	V	167.00	42.40

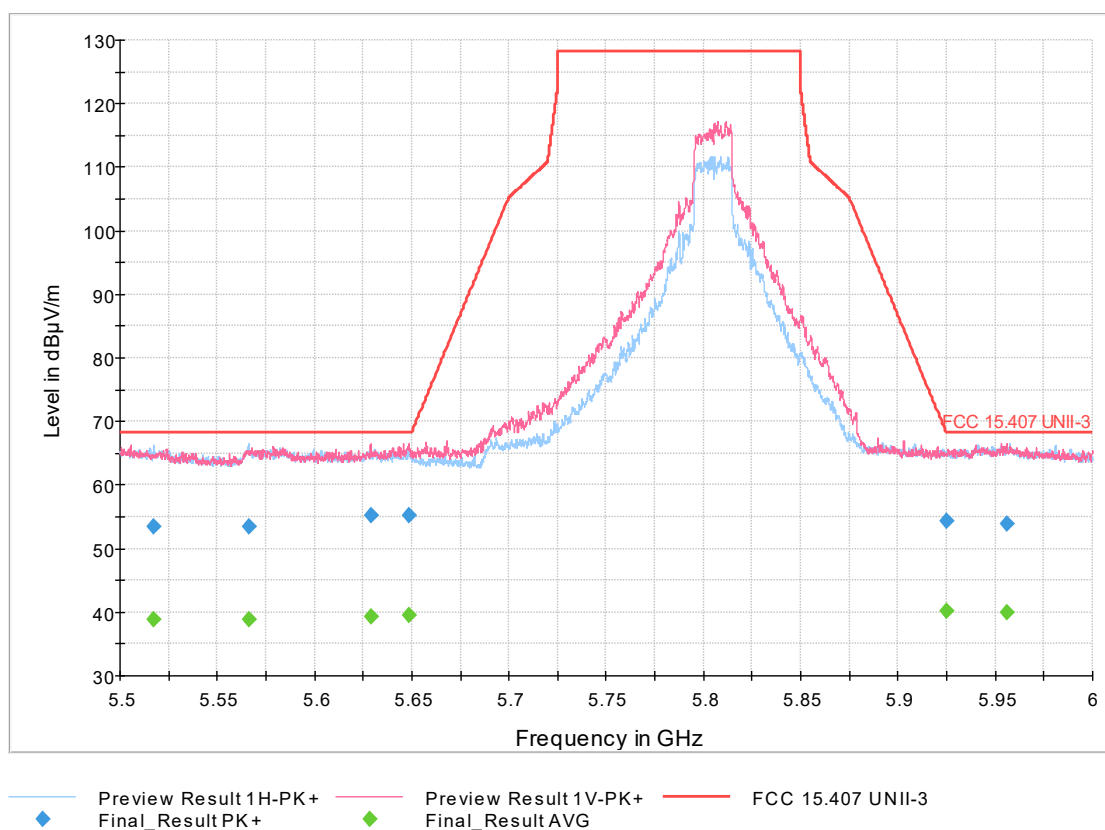


Figure 40: High Band Edge 802.11ax Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5506.25	---	38.73	---	---	1000.00	105.00	H	308.00	41.90
5506.25	53.62	---	68.20	14.58	1000.00	105.00	H	308.00	41.90
5570.90	53.07	---	68.20	15.13	1000.00	235.00	V	327.00	42.00
5570.90	---	39.04	---	---	1000.00	235.00	V	327.00	42.00
5649.70	54.38	---	68.20	13.82	1000.00	250.00	V	10.00	42.00
5649.70	---	38.98	---	---	1000.00	250.00	V	10.00	42.00
5925.00	54.41	---	68.20	13.79	1000.00	103.00	V	297.00	42.20
5925.00	---	40.03	---	---	1000.00	103.00	V	297.00	42.20
5946.40	54.38	---	68.20	13.82	1000.00	234.00	V	111.00	42.30
5946.40	---	39.96	---	---	1000.00	234.00	V	111.00	42.30
5950.85	---	39.96	---	---	1000.00	350.00	V	284.00	42.30
5950.85	53.71	---	68.20	14.49	1000.00	350.00	V	284.00	42.30

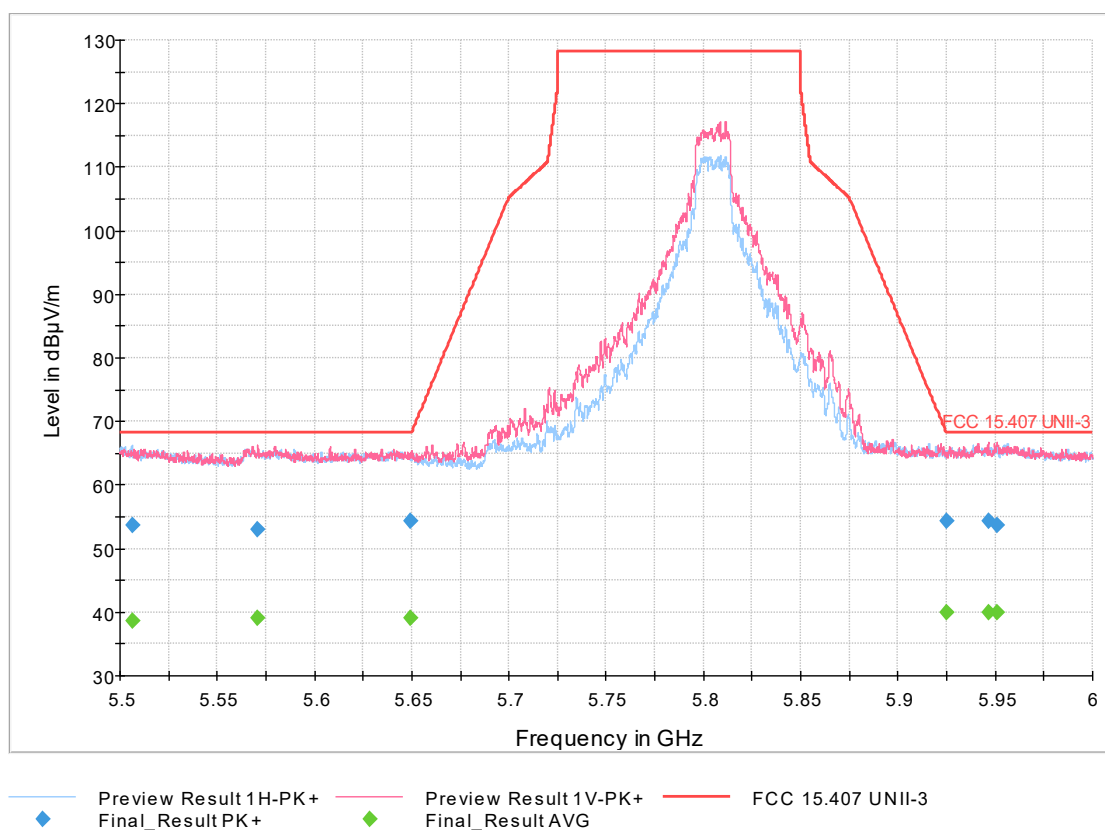


Figure 41: High Band Edge 802.11ac HT Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5596.05	---	40.15	---	---	1000.00	250.00	V	32.00	42.00
5596.05	56.11	---	68.20	12.09	1000.00	250.00	V	32.00	42.00
5615.85	56.93	---	68.20	11.27	1000.00	235.00	V	-5.00	42.00
5615.85	---	41.23	---	---	1000.00	235.00	V	-5.00	42.00
5638.35	---	39.85	---	---	1000.00	105.00	V	346.00	42.00
5638.35	55.34	---	68.20	12.86	1000.00	105.00	V	346.00	42.00
5642.45	63.48	---	68.20	4.72	1000.00	100.00	V	179.00	42.00
5642.45	---	41.42	---	---	1000.00	100.00	V	179.00	42.00
5647.65	59.33	---	68.20	8.87	1000.00	100.00	V	185.00	42.00
5647.65	---	41.34	---	---	1000.00	100.00	V	185.00	42.00
5650.40	57.43	---	68.50	11.07	1000.00	236.00	V	1.00	42.00
5650.40	---	42.21	---	---	1000.00	236.00	V	1.00	42.00
5925.00	---	40.09	---	---	1000.00	236.00	H	38.00	42.30
5925.00	53.97	---	68.20	14.23	1000.00	236.00	H	38.00	42.30

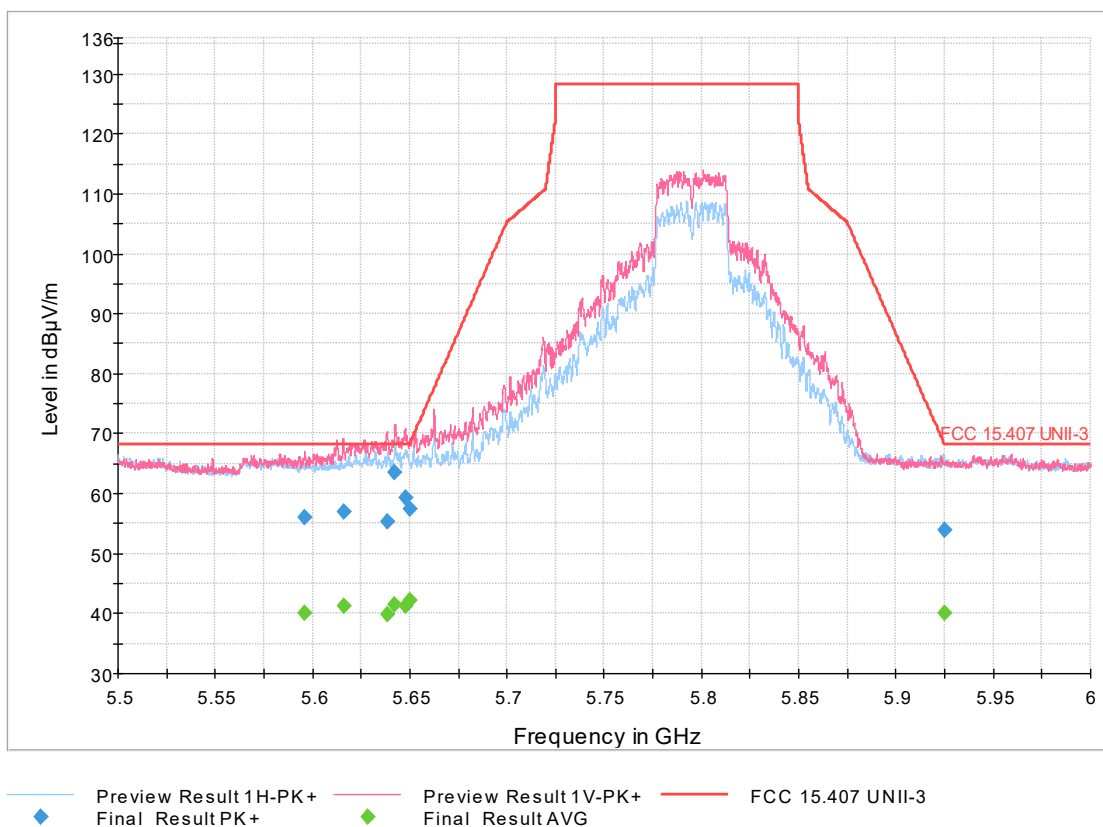


Figure 42: High Band Edge 802.11n Mode 40 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5590.95	56.86	---	68.20	11.34	1000.00	250.00	V	1.00	42.00
5590.95	---	40.06	---	---	1000.00	250.00	V	1.00	42.00
5621.00	58.51	---	68.20	9.69	1000.00	236.00	V	9.00	42.00
5621.00	---	40.43	---	---	1000.00	236.00	V	9.00	42.00
5631.10	---	41.83	---	---	1000.00	255.00	V	10.00	42.00
5631.10	59.63	---	68.20	8.57	1000.00	255.00	V	10.00	42.00
5643.60	---	42.34	---	---	1000.00	150.00	V	173.00	42.00
5643.60	59.53	---	68.20	8.67	1000.00	150.00	V	173.00	42.00
5648.70	---	44.27	---	---	1000.00	100.00	V	178.00	42.00
5648.70	65.76	---	68.20	2.44	1000.00	100.00	V	178.00	42.00
5654.00	---	41.72	---	---	1000.00	104.00	V	167.00	42.00
5654.00	59.86	---	71.16	11.30	1000.00	104.00	V	167.00	42.00
5925.00	---	40.11	---	---	1000.00	350.00	H	61.00	42.30
5925.00	54.03	---	68.20	14.17	1000.00	350.00	H	61.00	42.30

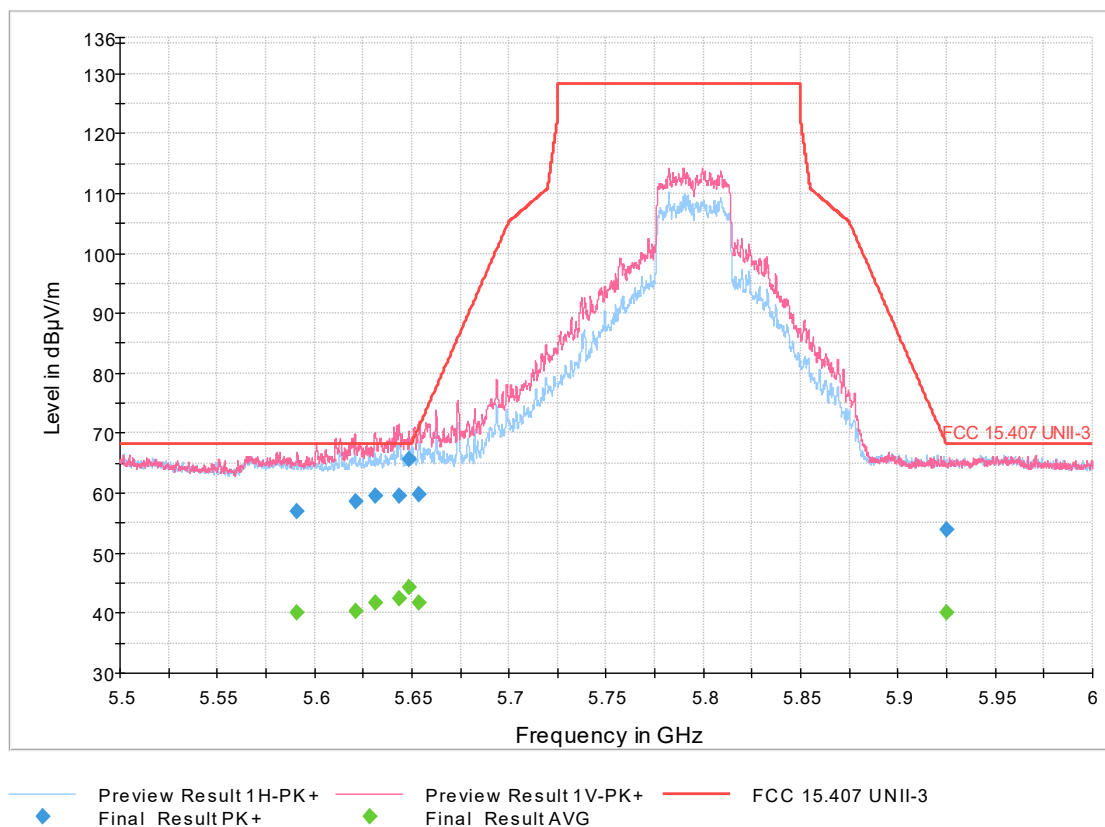


Figure 43: High Band Edge 802.11ax Mode 40 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5584.90	56.80	---	68.20	11.40	1000.00	100.00	V	-5.00	42.00
5584.90	---	40.69	---	---	1000.00	100.00	V	-5.00	42.00
5616.05	---	41.39	---	---	1000.00	250.00	V	-1.00	42.00
5616.05	58.33	---	68.20	9.87	1000.00	250.00	V	-1.00	42.00
5635.65	---	41.62	---	---	1000.00	104.00	V	349.00	42.00
5635.65	56.80	---	68.20	11.40	1000.00	104.00	V	349.00	42.00
5638.30	57.04	---	68.20	11.16	1000.00	107.00	V	178.00	42.00
5638.30	---	41.85	---	---	1000.00	107.00	V	178.00	42.00
5642.45	67.86	---	68.20	0.34	1000.00	100.00	V	178.00	42.00
5642.45	---	47.11	---	---	1000.00	100.00	V	178.00	42.00
5646.30	---	43.03	---	---	1000.00	102.00	V	-5.00	42.00
5646.30	59.28	---	68.20	8.92	1000.00	102.00	V	-5.00	42.00
5652.80	---	41.99	---	---	1000.00	102.00	V	167.00	42.00
5652.80	58.16	---	70.27	12.11	1000.00	102.00	V	167.00	42.00
5925.00	---	40.05	---	---	1000.00	150.00	V	-5.00	42.20
5925.00	54.78	---	68.20	13.42	1000.00	150.00	V	-5.00	42.20

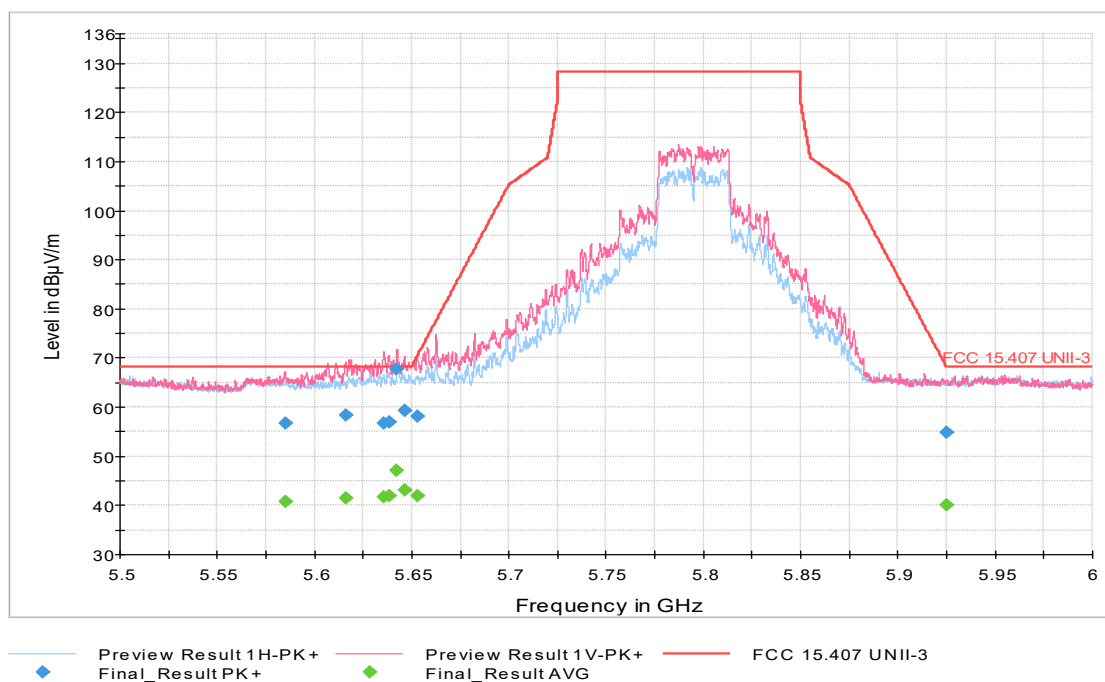


Figure 44: High Band Edge 802.11ac Mode 40 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5545.85	---	39.99	---	---	1000	250	V	357	42
5545.85	55.57	---	68.2	12.63	1000	250	V	357	42
5589.65	58.32	---	68.2	9.88	1000	103	V	172	42
5589.65	---	41.42	---	---	1000	103	V	172	42
5622.25	62.94	---	68.2	5.26	1000	106	V	172	42
5622.25	---	44.66	---	---	1000	106	V	172	42
5632.55	---	47.45	---	---	1000	100	V	177	42
5632.55	64.79	---	68.2	3.41	1000	100	V	177	42
5650.55	63.87	---	68.61	4.73	1000	250	V	341	42
5650.55	---	45.28	---	---	1000	250	V	341	42
5655.5	66.49	---	72.27	5.78	1000	150	V	179	42
5655.5	---	46.98	---	---	1000	150	V	179	42
5664.8	68.63	---	79.15	10.52	1000	100	V	185	42
5664.8	---	49.78	---	---	1000	100	V	185	42
5666.2	---	49.48	---	---	1000	105	V	178	42
5666.2	68.57	---	80.19	11.62	1000	105	V	178	42
5925	54.43	---	68.2	13.77	1000	103	H	204	42.3
5925	---	40.08	---	---	1000	103	H	204	42.3

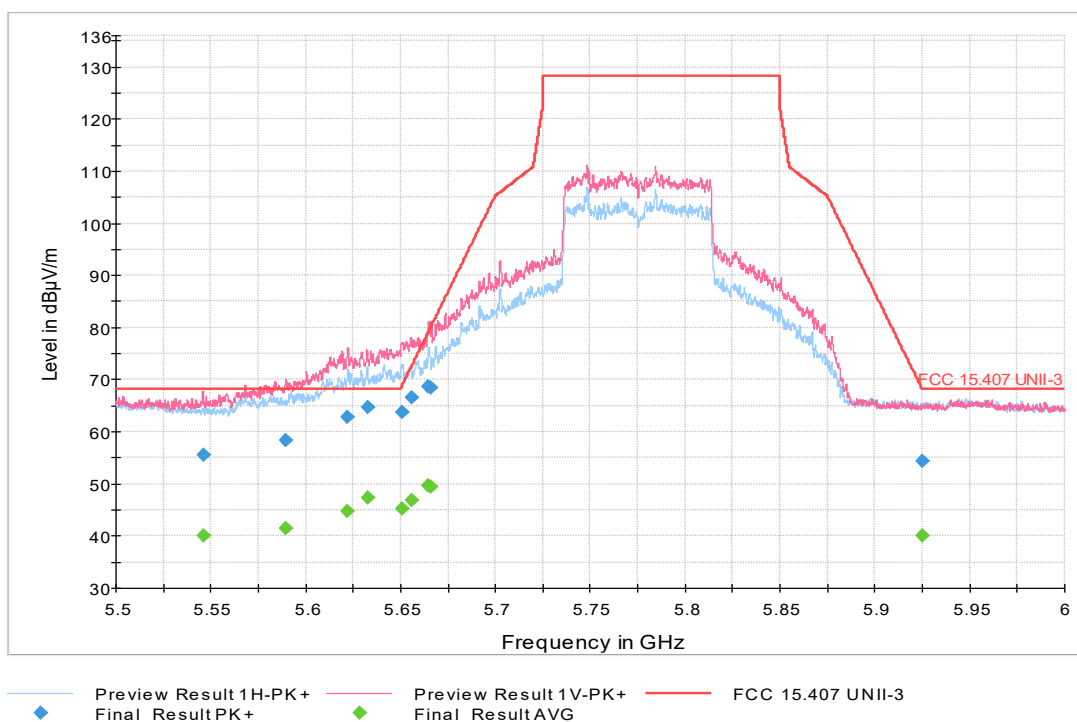


Figure 45: High Band Edge 802.11ax Mode 80 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5547.00	---	40.24	---	---	1000.00	350.00	V	19.00	42.00
5547.00	55.26	---	68.20	12.94	1000.00	350.00	V	19.00	42.00
5592.50	---	43.23	---	---	1000.00	355.00	V	-5.00	42.00
5592.50	61.48	---	68.20	6.72	1000.00	355.00	V	-5.00	42.00
5606.40	---	43.44	---	---	1000.00	100.00	V	170.00	42.00
5606.40	62.01	---	68.20	6.19	1000.00	100.00	V	170.00	42.00
5619.15	64.21	---	68.20	3.99	1000.00	100.00	V	184.00	42.00
5619.15	---	46.11	---	---	1000.00	100.00	V	184.00	42.00
5630.30	62.75	---	68.20	5.45	1000.00	250.00	V	-2.00	42.00
5630.30	---	44.73	---	---	1000.00	250.00	V	-2.00	42.00
5644.70	66.58	---	68.20	1.62	1000.00	100.00	V	176.00	42.00
5644.70	---	47.62	---	---	1000.00	100.00	V	176.00	42.00
5650.75	65.57	---	68.76	3.18	1000.00	154.00	V	181.00	42.00
5650.75	---	46.46	---	---	1000.00	154.00	V	181.00	42.00
5664.70	66.89	---	79.08	12.19	1000.00	108.00	V	-5.00	42.00
5664.70	---	48.81	---	---	1000.00	108.00	V	-5.00	42.00
5925.20	53.85	---	68.20	14.35	1000.00	256.00	H	195.00	42.30
5925.20	---	40.11	---	---	1000.00	256.00	H	195.00	42.30

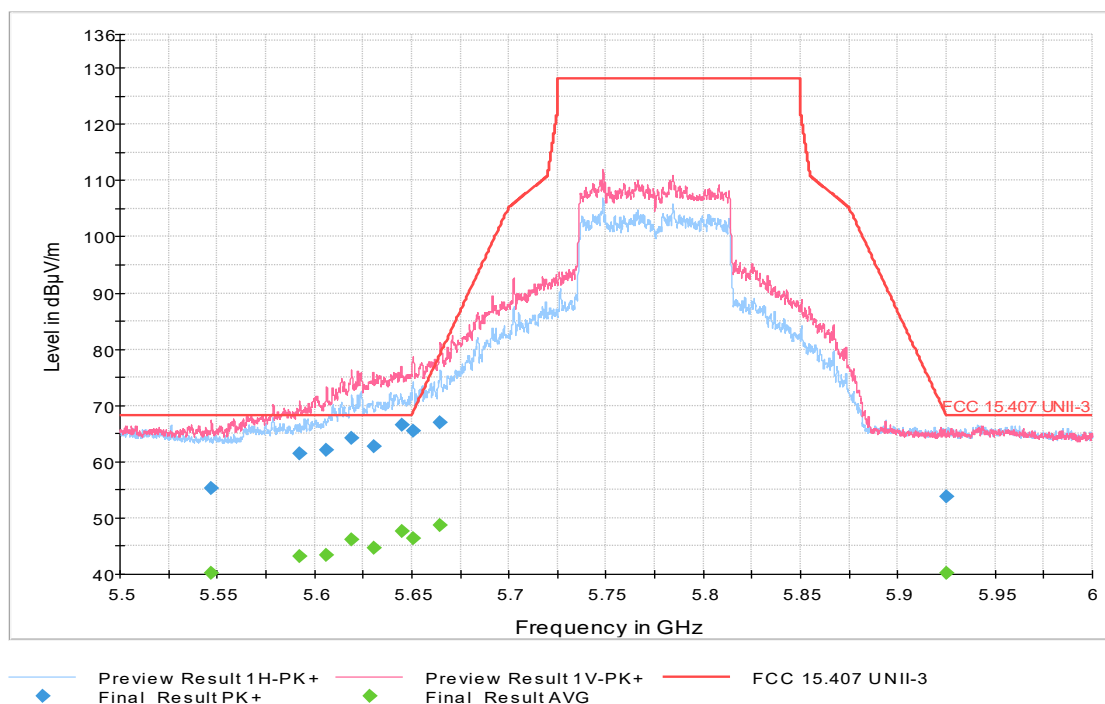


Figure 46: High Band Edge 802.11ac Mode 80 MHz, High Channel

4.4.2.4 UNII-1 Low Band Edge BF: Results and Plots

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5102.18	---	49.31	54.00	4.69	10000.00	1000.00	250.00	V	107.00	41.20
5102.18	65.17	---	74.00	8.83	10000.00	1000.00	250.00	V	107.00	41.20
5110.21	---	49.29	54.00	4.71	10000.00	1000.00	250.00	V	31.00	41.20
5110.21	64.35	---	74.00	9.65	10000.00	1000.00	250.00	V	31.00	41.20
5123.14	---	49.16	54.00	4.84	10000.00	1000.00	105.00	V	121.00	41.20
5123.14	64.02	---	74.00	9.98	10000.00	1000.00	105.00	V	121.00	41.20
5139.24	---	48.94	54.00	5.06	10000.00	1000.00	150.00	H	130.00	41.30
5139.24	64.28	---	74.00	9.72	10000.00	1000.00	150.00	H	130.00	41.30
5143.16	---	49.07	54.00	4.93	10000.00	1000.00	104.00	H	57.00	41.30
5143.16	64.23	---	74.00	9.77	10000.00	1000.00	104.00	H	57.00	41.30
5149.76	---	48.92	54.00	5.08	10000.00	1000.00	155.00	H	314.00	41.30
5149.76	64.09	---	74.00	9.91	10000.00	1000.00	155.00	H	314.00	41.30

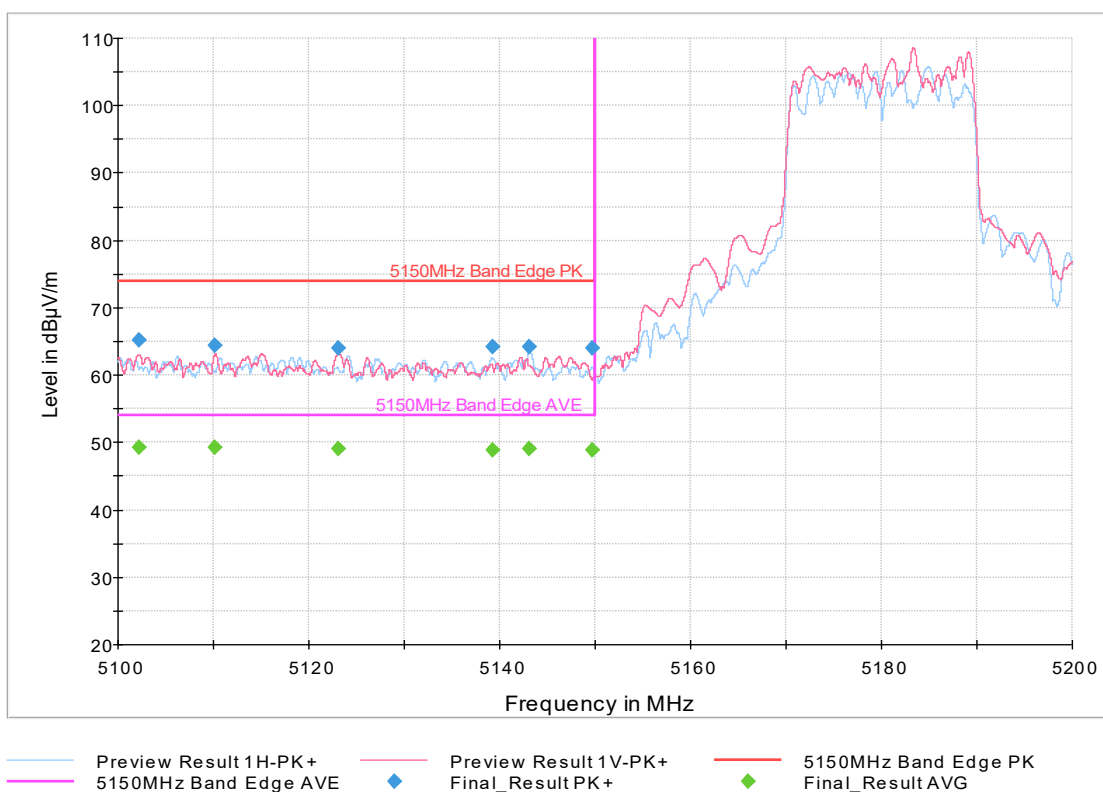


Figure 47: Low Band Edge 802.11a Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5102.75	---	48.98	54.00	5.02	10000.00	1000.00	100.00	V	235.00	41.20
5102.75	63.84	---	74.00	10.16	10000.00	1000.00	100.00	V	235.00	41.20
5115.69	---	48.99	54.00	5.01	10000.00	1000.00	204.00	H	144.00	41.30
5115.69	65.10	---	74.00	8.90	10000.00	1000.00	204.00	H	144.00	41.30
5122.41	---	48.92	54.00	5.08	10000.00	1000.00	203.00	H	335.00	41.30
5122.41	64.21	---	74.00	9.79	10000.00	1000.00	203.00	H	335.00	41.30
5135.92	---	48.79	54.00	5.21	10000.00	1000.00	155.00	H	278.00	41.30
5135.92	64.03	---	74.00	9.97	10000.00	1000.00	155.00	H	278.00	41.30
5145.12	---	48.62	54.00	5.38	10000.00	1000.00	150.00	V	5.00	41.30
5145.12	64.28	---	74.00	9.72	10000.00	1000.00	150.00	V	5.00	41.30
5149.84	---	48.64	54.00	5.36	10000.00	1000.00	153.00	H	323.00	41.30
5149.84	64.02	---	74.00	9.98	10000.00	1000.00	153.00	H	323.00	41.30

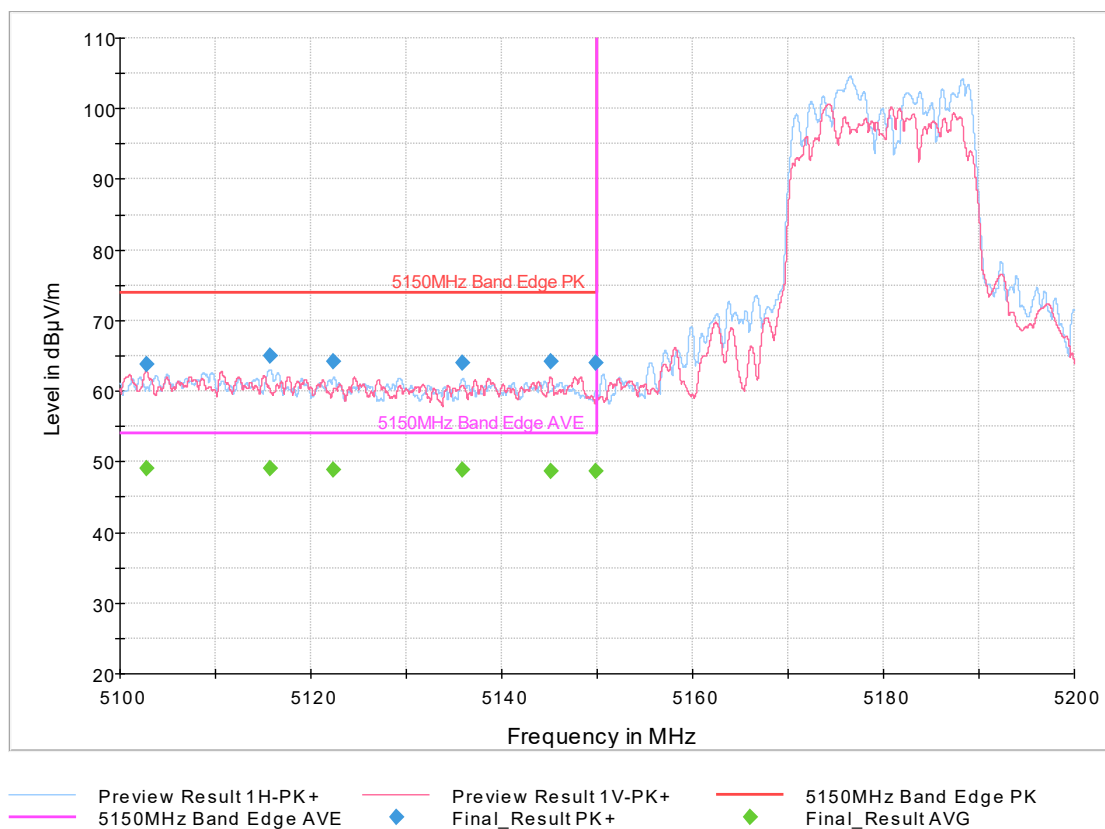


Figure 48: Low Band Edge 802.11n Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5105.04	---	49.00	54.00	5.00	10000.00	1000.00	154.00	H	55.00	41.30
5105.04	64.03	---	74.00	9.97	10000.00	1000.00	154.00	H	55.00	41.30
5109.56	---	48.99	54.00	5.01	10000.00	1000.00	200.00	H	245.00	41.30
5109.56	64.09	---	74.00	9.91	10000.00	1000.00	200.00	H	245.00	41.30
5119.84	---	48.86	54.00	5.14	10000.00	1000.00	155.00	V	133.00	41.20
5119.84	63.73	---	74.00	10.27	10000.00	1000.00	155.00	V	133.00	41.20
5138.76	---	48.76	54.00	5.24	10000.00	1000.00	200.00	H	60.00	41.30
5138.76	63.74	---	74.00	10.26	10000.00	1000.00	200.00	H	60.00	41.30
5142.27	64.28	---	74.00	9.72	10000.00	1000.00	200.00	V	50.00	41.30
5142.27	---	48.63	54.00	5.37	10000.00	1000.00	200.00	V	50.00	41.30
5149.76	65.33	---	74.00	8.67	10000.00	1000.00	100.00	H	-1.00	41.30
5149.76	---	48.65	54.00	5.35	10000.00	1000.00	100.00	H	-1.00	41.30

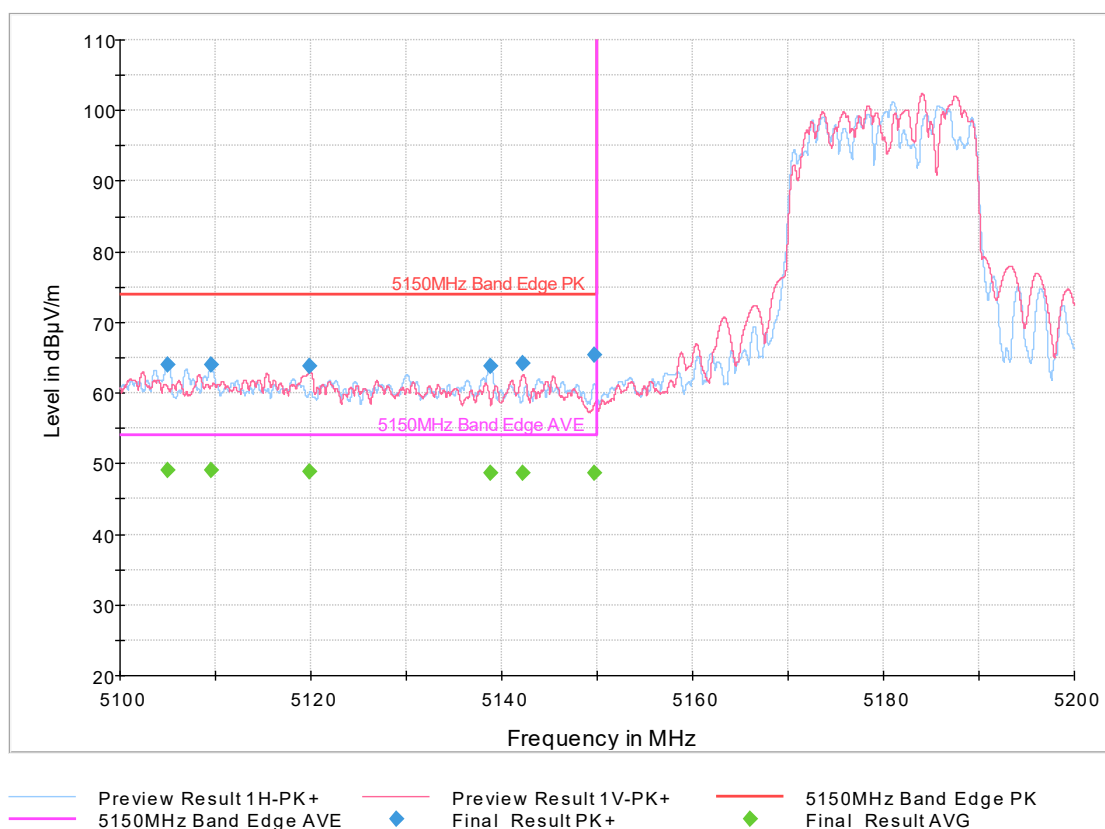


Figure 49: Low Band Edge 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5100.00	---	48.97	54.00	5.03	10000.00	1000.00	155.00	V	77.00	41.20
5100.00	63.93	---	74.00	10.07	10000.00	1000.00	155.00	V	77.00	41.20
5110.55	---	48.94	54.00	5.06	10000.00	1000.00	150.00	V	316.00	41.20
5110.55	64.43	---	74.00	9.57	10000.00	1000.00	150.00	V	316.00	41.20
5122.17	---	48.90	54.00	5.10	10000.00	1000.00	150.00	H	67.00	41.30
5122.17	64.13	---	74.00	9.87	10000.00	1000.00	150.00	H	67.00	41.30
5135.51	---	48.78	54.00	5.22	10000.00	1000.00	106.00	H	186.00	41.30
5135.51	63.83	---	74.00	10.17	10000.00	1000.00	106.00	H	186.00	41.30
5140.18	---	48.74	54.00	5.26	10000.00	1000.00	200.00	H	8.00	41.30
5140.18	64.03	---	74.00	9.97	10000.00	1000.00	200.00	H	8.00	41.30
5149.76	---	49.17	54.00	4.83	10000.00	1000.00	200.00	V	163.00	41.30
5149.76	71.31	---	74.00	2.69	10000.00	1000.00	200.00	V	163.00	41.30

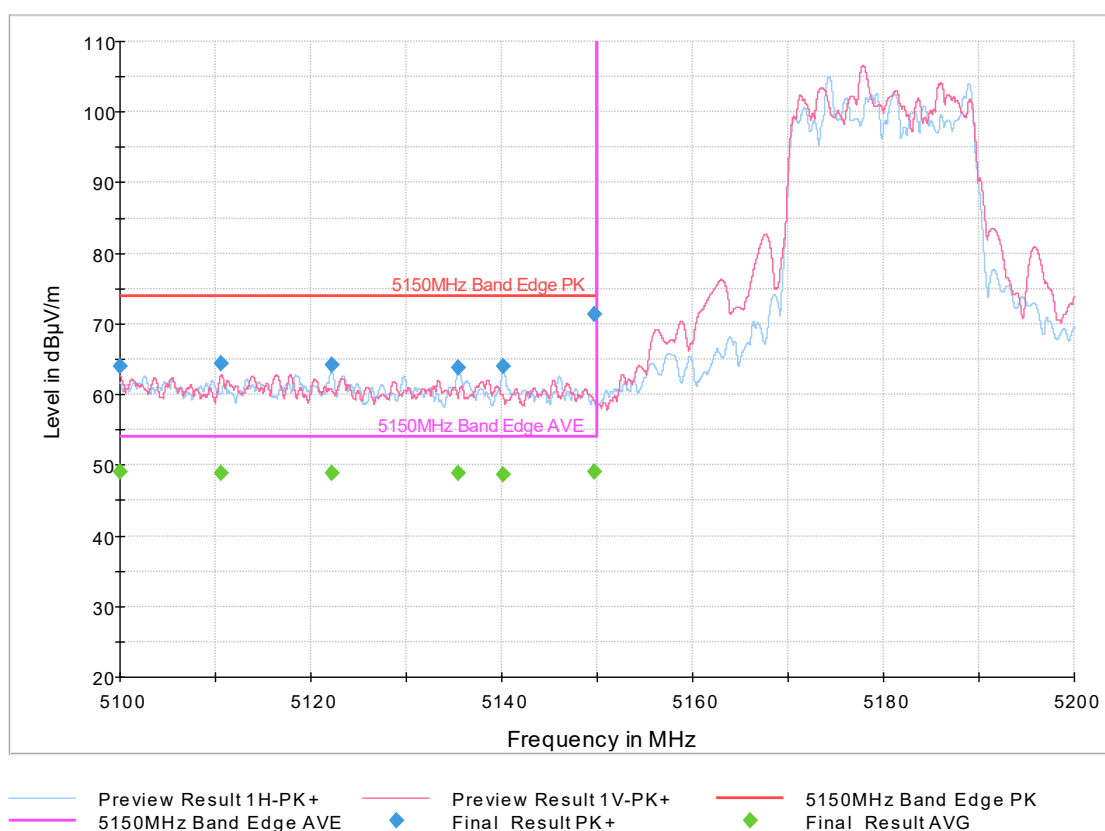


Figure 50: Low Band Edge 802.11ac HT Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5107.01	62.73	---	74	11.27	10000	1000	154	H	79	39.6
5107.01	---	47.83	54	6.17	10000	1000	154	H	79	39.6
5116.95	62.09	---	74	11.91	10000	1000	103	V	-5	39.5
5116.95	---	47.37	54	6.63	10000	1000	103	V	-5	39.5
5129.79	64.94	---	74	9.06	10000	1000	103	V	114	39.6
5129.79	---	48.81	54	5.19	10000	1000	103	V	114	39.6
5135.37	66.71	---	74	7.29	10000	1000	103	V	70	39.6
5135.37	---	49.12	54	4.88	10000	1000	103	V	70	39.6
5145.61	72.99	---	74	1.01	10000	1000	107	V	70	39.6
5145.61	---	52.76	54	1.24	10000	1000	107	V	70	39.6
5150	---	52.13	54	1.87	10000	1000	104	V	161	39.6
5150	73.51	---	74	0.49	10000	1000	104	V	161	39.6

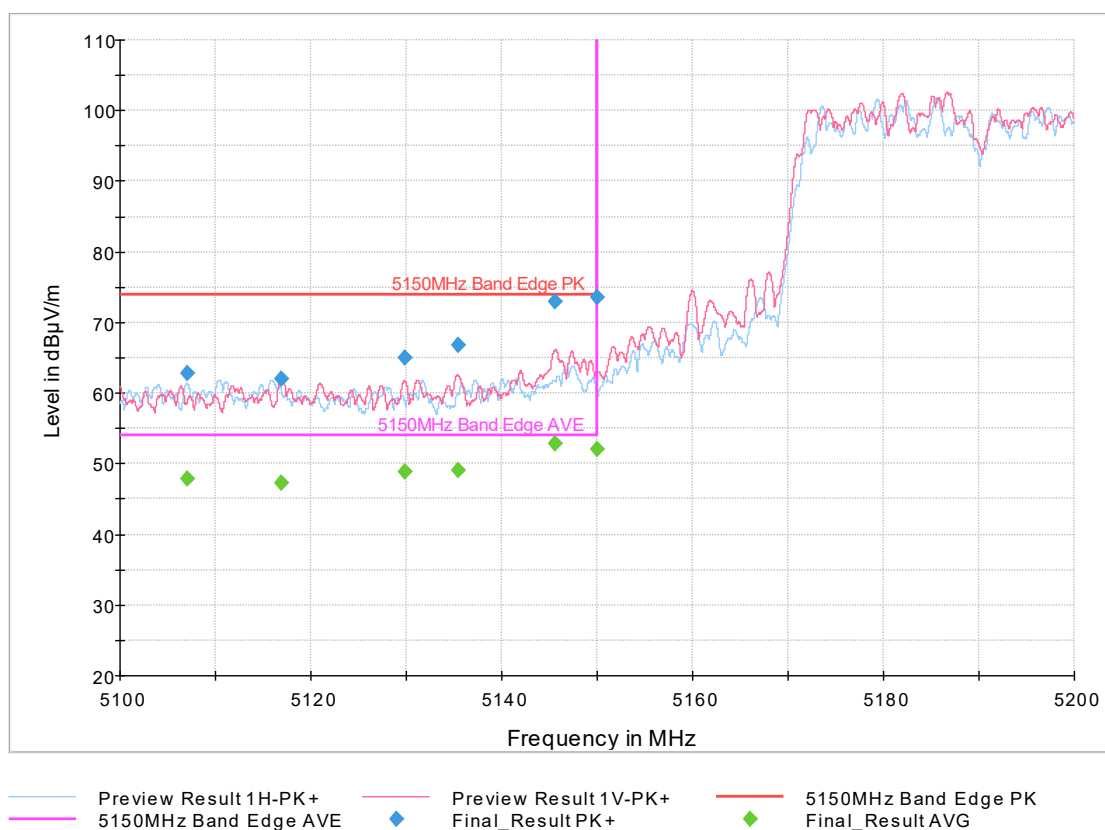


Figure 51: Low Band Edge 802.11n Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5101.35	62.36	---	74.00	11.64	10000.00	1000.00	153.00	V	60.00	39.50
5101.35	---	47.35	54.00	6.65	10000.00	1000.00	153.00	V	60.00	39.50
5115.23	62.77	---	74.00	11.23	10000.00	1000.00	250.00	H	-2.00	39.60
5115.23	---	47.32	54.00	6.68	10000.00	1000.00	250.00	H	-2.00	39.60
5124.73	62.88	---	74.00	11.12	10000.00	1000.00	250.00	H	70.00	39.60
5124.73	---	47.39	54.00	6.61	10000.00	1000.00	250.00	H	70.00	39.60
5142.68	73.19	---	74.00	0.81	10000.00	1000.00	254.00	H	85.00	39.60
5142.68	---	51.01	54.00	2.99	10000.00	1000.00	254.00	H	85.00	39.60
5146.90	71.96	---	74.00	2.04	10000.00	1000.00	153.00	V	7.00	39.60
5146.90	---	50.86	54.00	3.14	10000.00	1000.00	153.00	V	7.00	39.60
5150.00	---	50.04	54.00	3.96	10000.00	1000.00	158.00	H	107.00	39.70
5150.00	71.51	---	74.00	2.49	10000.00	1000.00	158.00	H	107.00	39.70

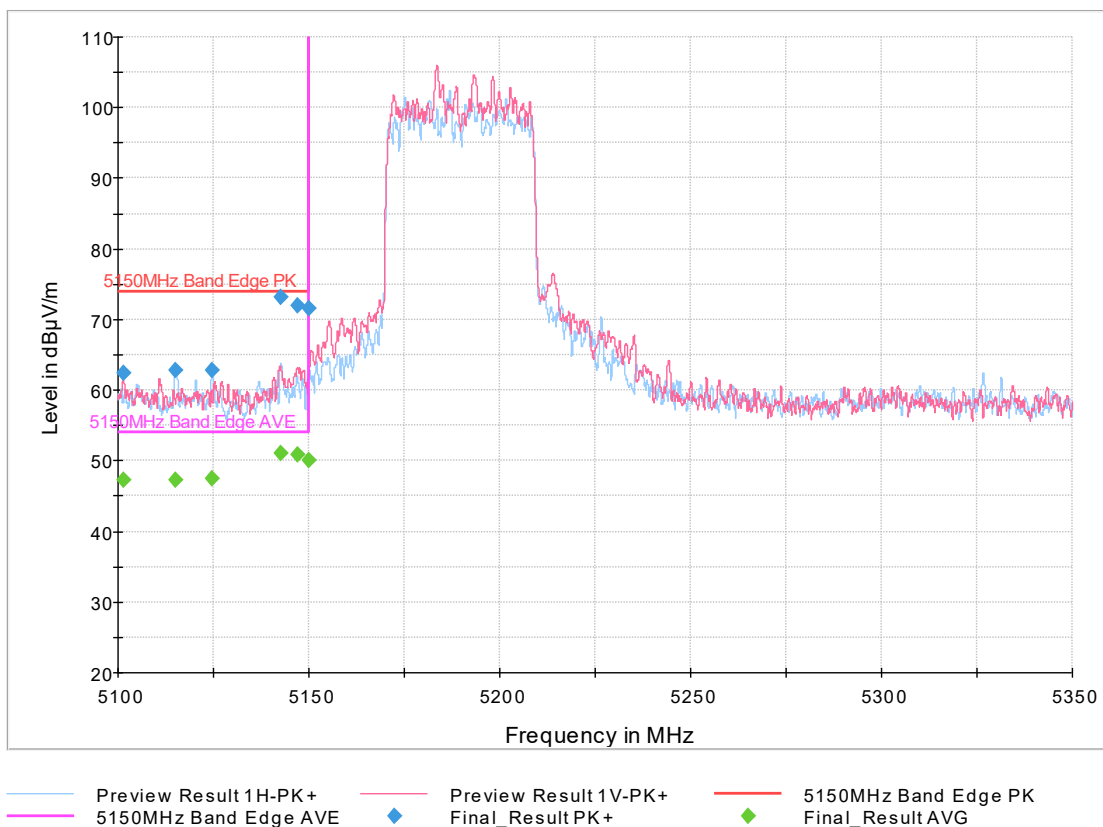


Figure 52: Low Band Edge 802.11ax Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5109.86	---	47.53	54.00	6.47	10000.00	1000.00	250.00	H	78.00	39.60
5109.86	63.17	---	74.00	10.83	10000.00	1000.00	250.00	H	78.00	39.60
5129.79	---	47.57	54.00	6.43	10000.00	1000.00	150.00	V	326.00	39.60
5129.79	62.83	---	74.00	11.17	10000.00	1000.00	150.00	V	326.00	39.60
5142.68	---	52.45	54.00	1.55	10000.00	1000.00	100.00	H	85.00	39.60
5142.68	73.11	---	74.00	0.90	10000.00	1000.00	100.00	H	85.00	39.60
5144.28	72.12	---	74.00	1.88	10000.00	1000.00	103.00	H	80.00	39.60
5144.28	---	51.26	54.00	2.74	10000.00	1000.00	103.00	H	80.00	39.60
5146.32	72.14	---	74.00	1.86	10000.00	1000.00	103.00	V	95.00	39.60
5146.32	---	51.47	54.00	2.53	10000.00	1000.00	103.00	V	95.00	39.60
5149.76	---	51.98	54.00	2.02	10000.00	1000.00	106.00	V	88.00	39.60
5149.76	72.27	---	74.00	1.73	10000.00	1000.00	106.00	V	88.00	39.60

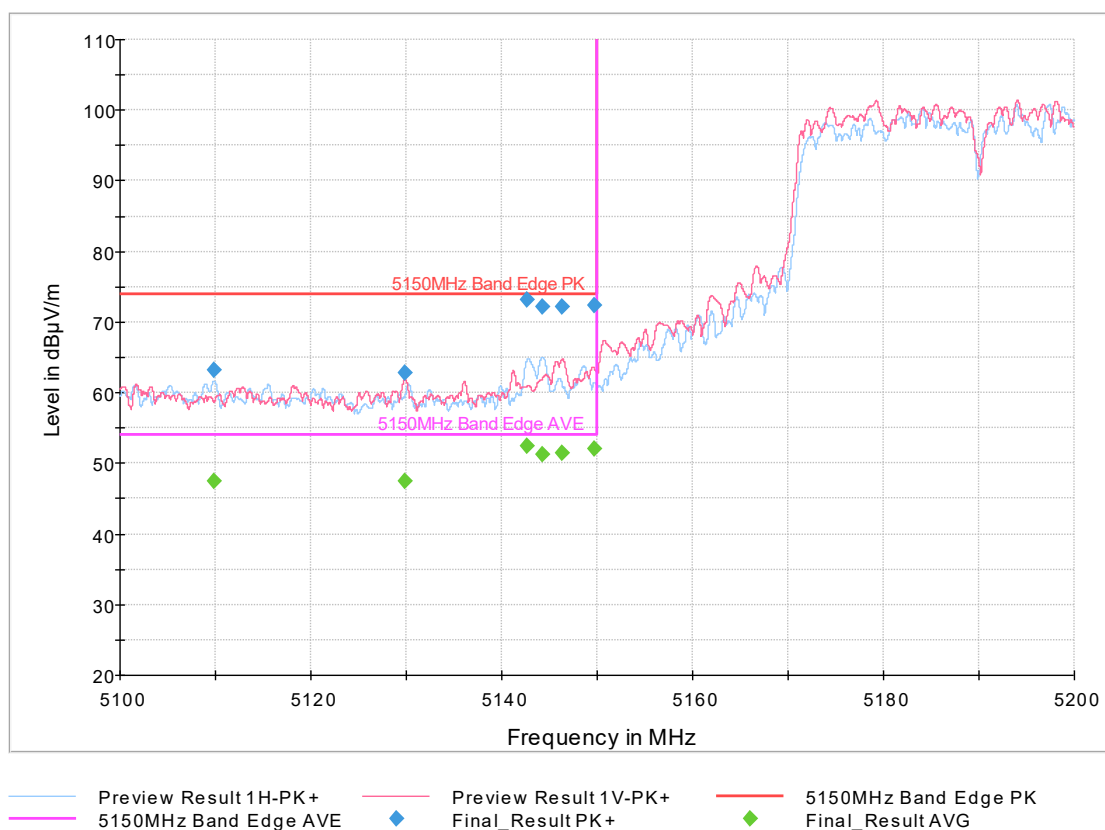


Figure 53: Low Band Edge 802.11ac Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5104.73	---	47.49	54.00	6.51	10000.00	1000.00	103.00	H	151.00	39.60
5104.73	62.62	---	74.00	11.38	10000.00	1000.00	103.00	H	151.00	39.60
5114.68	---	47.27	54.00	6.73	10000.00	1000.00	254.00	V	294.00	39.50
5114.68	62.41	---	74.00	11.59	10000.00	1000.00	254.00	V	294.00	39.50
5125.05	---	47.43	54.00	6.57	10000.00	1000.00	150.00	V	107.00	39.60
5125.05	62.54	---	74.00	11.46	10000.00	1000.00	150.00	V	107.00	39.60
5136.90	---	47.13	54.00	6.87	10000.00	1000.00	250.00	H	20.00	39.60
5136.90	62.12	---	74.00	11.88	10000.00	1000.00	250.00	H	20.00	39.60
5144.38	---	47.07	54.00	6.93	10000.00	1000.00	156.00	V	254.00	39.60
5144.38	62.58	---	74.00	11.42	10000.00	1000.00	156.00	V	254.00	39.60
5149.05	---	47.19	54.00	6.81	10000.00	1000.00	100.00	V	65.00	39.60
5149.05	63.63	---	74.00	10.37	10000.00	1000.00	100.00	V	65.00	39.60

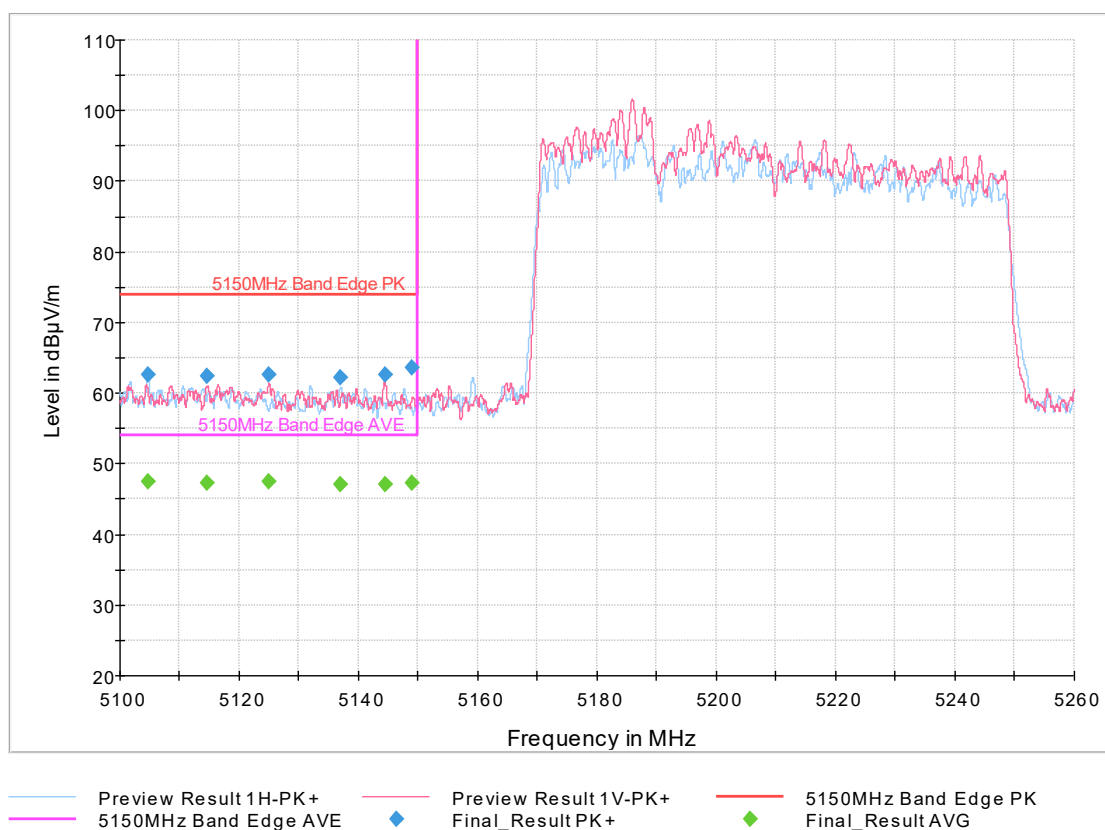


Figure 54: Low Band Edge 802.11ax Mode 80 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5107.25	63.90	---	74.00	10.10	10000.00	1000.00	105.00	V	78.00	39.50
5107.25	---	48.58	54.00	5.42	10000.00	1000.00	105.00	V	78.00	39.50
5118.38	69.16	---	74.00	4.84	10000.00	1000.00	150.00	H	74.00	39.60
5118.38	---	50.07	54.00	3.93	10000.00	1000.00	150.00	H	74.00	39.60
5137.16	---	51.96	54.00	2.04	10000.00	1000.00	106.00	H	148.00	39.60
5137.16	69.92	---	74.00	4.08	10000.00	1000.00	106.00	H	148.00	39.60
5142.64	---	52.56	54.00	1.44	10000.00	1000.00	100.00	H	72.00	39.60
5142.64	71.74	---	74.00	2.26	10000.00	1000.00	100.00	H	72.00	39.60
5145.24	---	53.05	54.00	0.95	10000.00	1000.00	100.00	V	89.00	39.60
5145.24	72.25	---	74.00	1.75	10000.00	1000.00	100.00	V	89.00	39.60
5149.77	---	53.87	54.00	0.13	10000.00	1000.00	105.00	V	95.00	39.60
5149.77	72.83	---	74.00	1.17	10000.00	1000.00	105.00	V	95.00	39.60

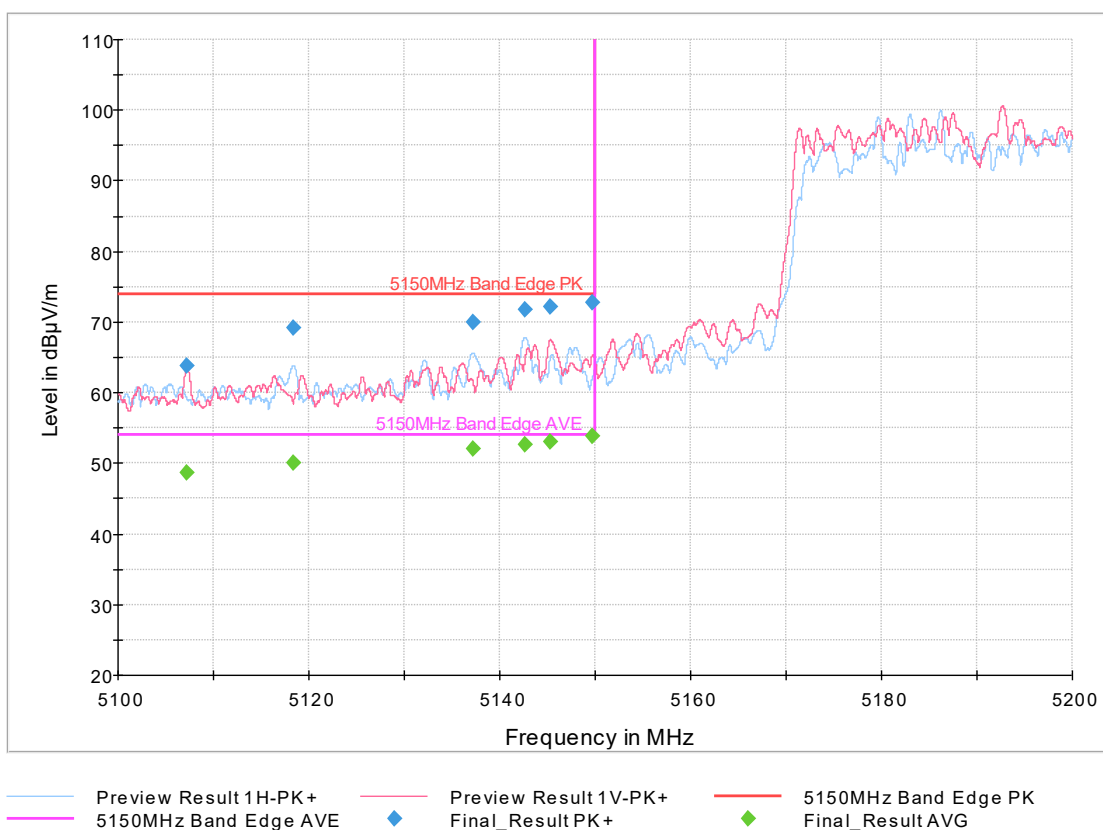


Figure 55: Low Band Edge 802.11ac Mode 80 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5103.08	---	47.32	54.00	6.68	10000.00	1000.00	103.00	V	257.00	39.50
5103.08	62.43	---	74.00	11.57	10000.00	1000.00	103.00	V	257.00	39.50
5122.80	---	47.26	54.00	6.74	10000.00	1000.00	255.00	H	102.00	39.60
5122.80	62.61	---	74.00	11.39	10000.00	1000.00	255.00	H	102.00	39.60
5129.28	---	47.92	54.00	6.08	10000.00	1000.00	253.00	V	5.00	39.60
5129.28	65.68	---	74.00	8.32	10000.00	1000.00	253.00	V	5.00	39.60
5134.90	---	48.50	54.00	5.50	10000.00	1000.00	100.00	V	75.00	39.60
5134.90	73.16	---	74.00	0.84	10000.00	1000.00	100.00	V	75.00	39.60
5144.48	---	49.47	54.00	4.53	10000.00	1000.00	105.00	V	79.00	39.60
5144.48	71.57	---	74.00	2.43	10000.00	1000.00	105.00	V	79.00	39.60
5149.90	---	46.98	54.00	7.02	10000.00	1000.00	105.00	H	343.00	39.70
5149.90	62.29	---	74.00	11.71	10000.00	1000.00	105.00	H	343.00	39.70

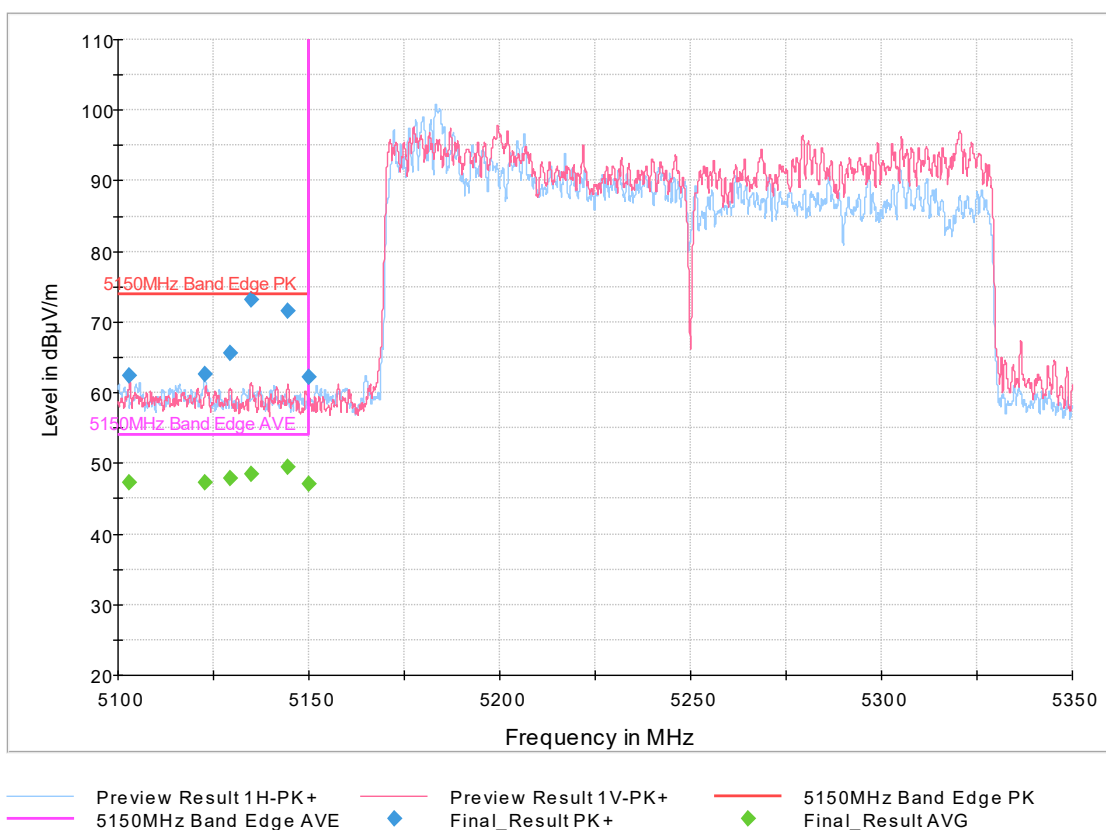


Figure 56: Low Band Edge 802.11ax Mode 160 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5108.53	---	47.37	54.00	6.63	10000.00	1000.00	100.00	H	93.00	39.60
5108.53	63.11	---	74.00	10.89	10000.00	1000.00	100.00	H	93.00	39.60
5124.45	---	47.24	54.00	6.76	10000.00	1000.00	100.00	H	78.00	39.60
5124.45	62.32	---	74.00	11.68	10000.00	1000.00	100.00	H	78.00	39.60
5131.58	62.73	---	74.00	11.27	10000.00	1000.00	100.00	H	93.00	39.60
5131.58	---	47.15	54.00	6.85	10000.00	1000.00	100.00	H	93.00	39.60
5141.38	62.60	---	74.00	11.40	10000.00	1000.00	108.00	H	67.00	39.60
5141.38	---	47.06	54.00	6.94	10000.00	1000.00	108.00	H	67.00	39.60
5144.43	62.20	---	74.00	11.80	10000.00	1000.00	108.00	H	74.00	39.60
5144.43	---	47.03	54.00	6.97	10000.00	1000.00	108.00	H	74.00	39.60
5149.05	---	47.68	54.00	6.32	10000.00	1000.00	100.00	V	96.00	39.60
5149.05	68.76	---	74.00	5.24	10000.00	1000.00	100.00	V	96.00	39.60

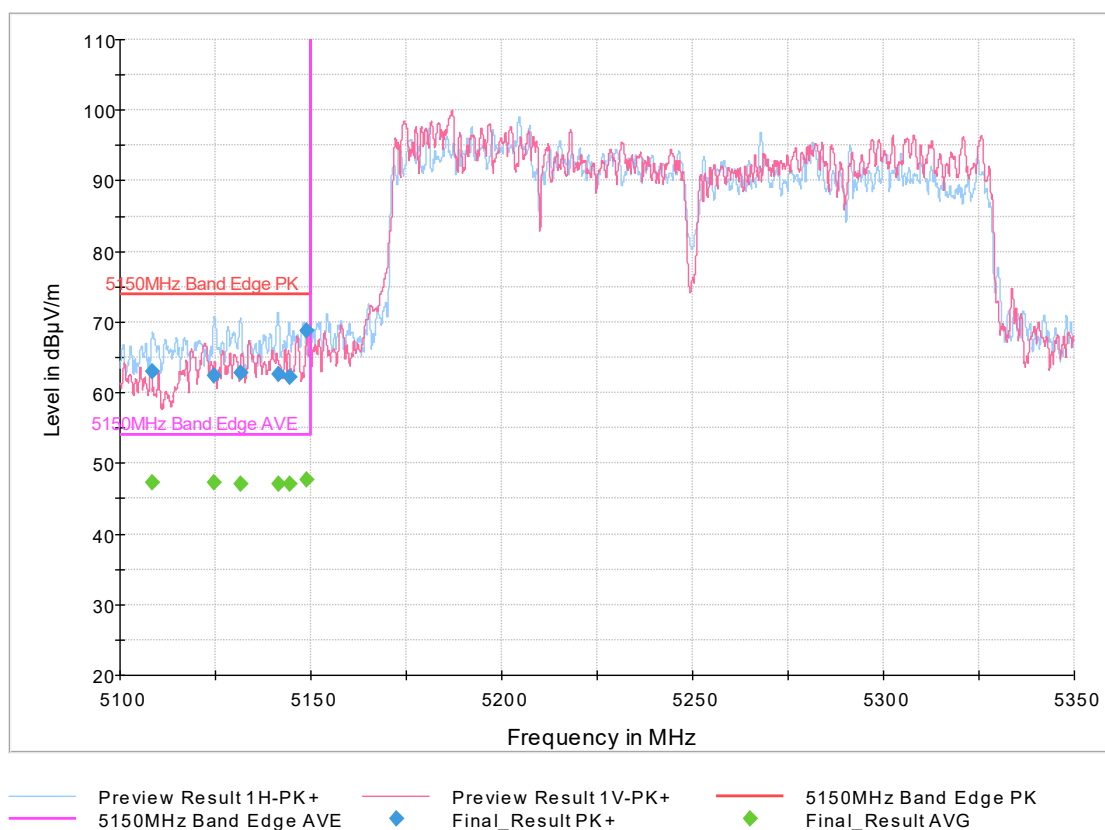


Figure 57: Low Band Edge 802.11ax Mode 160 MHz, Low Channel

4.4.2.5 UNII-3 Low Band Edge BF: Results and Plots

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5502.75	---	38.75	---	---	1000.00	104.00	H	325.00	41.90
5502.75	53.72	---	68.20	14.48	1000.00	104.00	H	325.00	41.90
5565.80	53.99	---	68.20	14.21	1000.00	200.00	H	192.00	42.00
5565.80	---	39.01	---	---	1000.00	200.00	H	192.00	42.00
5570.80	---	39.05	---	---	1000.00	204.00	V	343.00	42.00
5570.80	53.65	---	68.20	14.55	1000.00	204.00	V	343.00	42.00
5610.65	---	39.00	---	---	1000.00	150.00	H	276.00	42.00
5610.65	53.08	---	68.20	15.12	1000.00	150.00	H	276.00	42.00
5644.40	---	39.06	---	---	1000.00	100.00	V	193.00	42.00
5644.40	53.86	---	68.20	14.34	1000.00	100.00	V	193.00	42.00
5651.05	53.63	---	68.98	15.35	1000.00	103.00	V	339.00	42.00
5651.05	---	38.88	---	---	1000.00	103.00	V	339.00	42.00

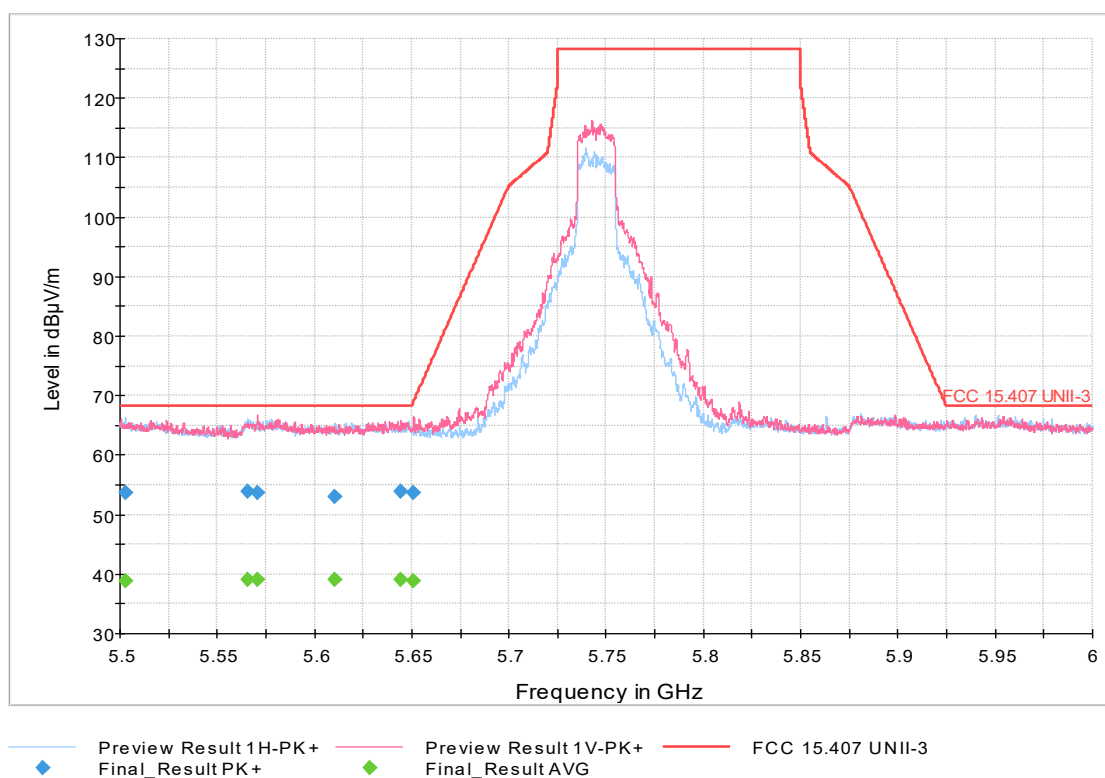


Figure 58: Low Band Edge 802.11a Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5516.40	54.07	---	68.20	14.13	1000.00	250.00	V	148.00	42.00
5516.40	---	38.92	---	---	1000.00	250.00	V	148.00	42.00
5568.50	---	39.01	---	---	1000.00	300.00	H	200.00	42.00
5568.50	53.74	---	68.20	14.46	1000.00	300.00	H	200.00	42.00
5607.95	---	38.97	---	---	1000.00	100.00	V	100.00	42.00
5607.95	53.22	---	68.20	14.98	1000.00	100.00	V	100.00	42.00
5641.45	53.19	---	68.20	15.01	1000.00	103.00	H	123.00	42.00
5641.45	---	38.81	---	---	1000.00	103.00	H	123.00	42.00
5646.35	52.95	---	68.20	15.25	1000.00	104.00	V	310.00	42.00
5646.35	---	38.69	---	---	1000.00	104.00	V	310.00	42.00
5654.15	53.08	---	71.27	18.19	1000.00	250.00	V	87.00	42.00
5654.15	---	38.70	---	---	1000.00	250.00	V	87.00	42.00

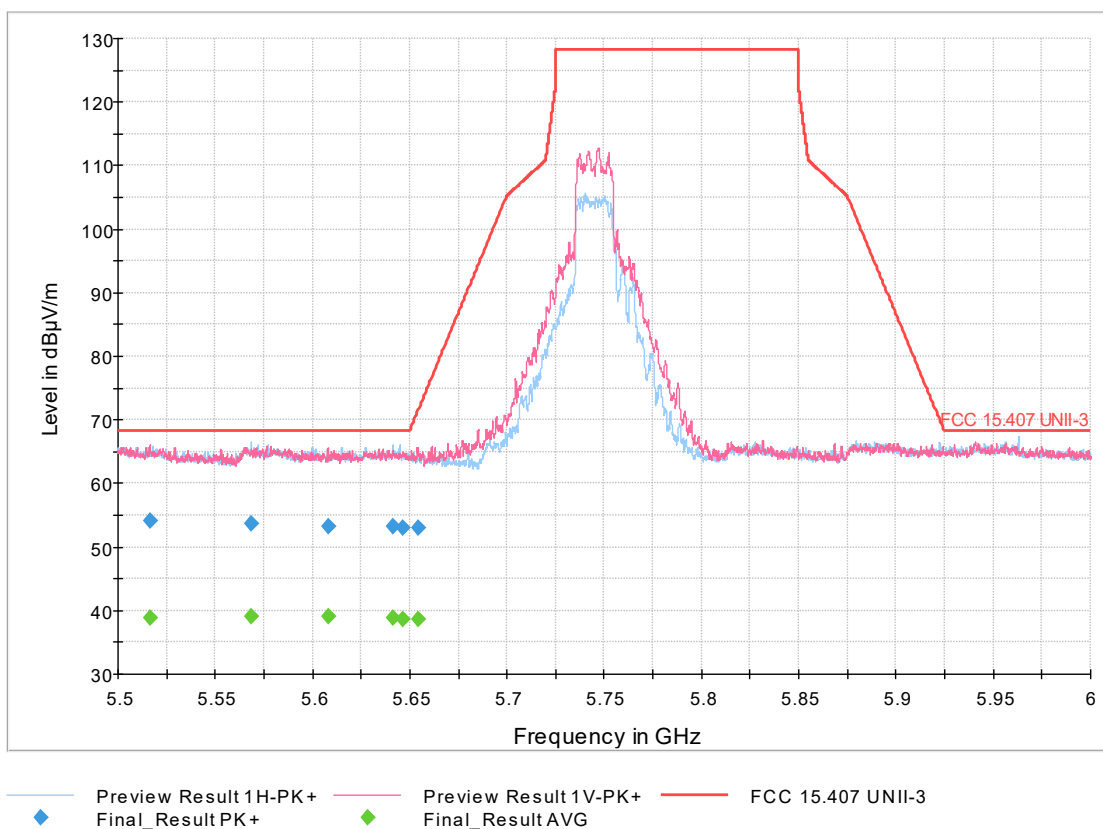


Figure 59: Low Band Edge 802.11n Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5501.00	53.20	---	68.20	15.00	1000.00	100.00	V	12.00	42.00
5501.00	---	38.69	---	---	1000.00	100.00	V	12.00	42.00
5535.50	53.48	---	68.20	14.72	1000.00	156.00	V	232.00	42.00
5535.50	---	38.92	---	---	1000.00	156.00	V	232.00	42.00
5576.95	---	38.98	---	---	1000.00	285.00	V	268.00	42.00
5576.95	53.16	---	68.20	15.04	1000.00	285.00	V	268.00	42.00
5613.70	---	38.96	---	---	1000.00	200.00	H	16.00	42.00
5613.70	53.81	---	68.20	14.39	1000.00	200.00	H	16.00	42.00
5631.20	53.93	---	68.20	14.27	1000.00	186.00	H	195.00	42.00
5631.20	---	38.91	---	---	1000.00	186.00	H	195.00	42.00
5647.60	53.23	---	68.20	14.97	1000.00	104.00	V	338.00	42.00
5647.60	---	38.60	---	---	1000.00	104.00	V	338.00	42.00

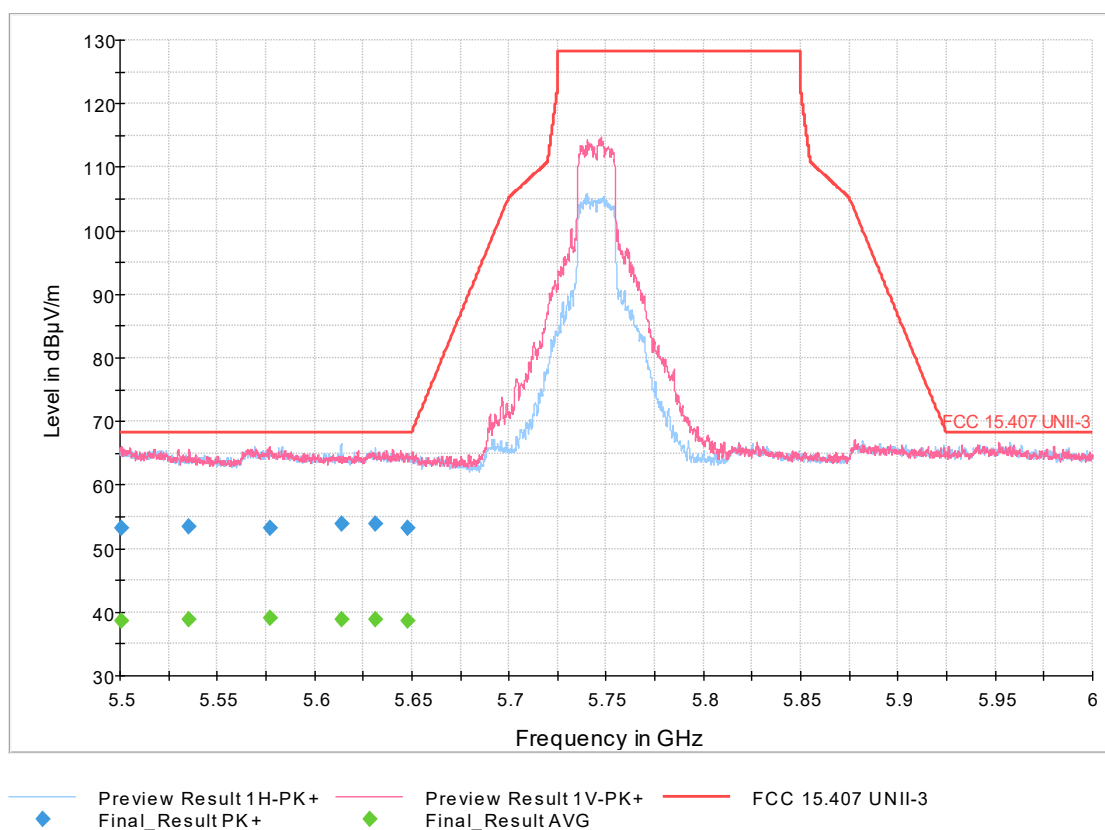


Figure 60: Low Band Edge 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5502.05	53.28	---	68.20	14.92	1000.00	300.00	H	265.00	41.90
5502.05	---	38.69	---	---	1000.00	300.00	H	265.00	41.90
5565.30	54.21	---	68.20	13.99	1000.00	204.00	V	118.00	42.00
5565.30	---	38.98	---	---	1000.00	204.00	V	118.00	42.00
5586.00	53.87	---	68.20	14.33	1000.00	300.00	V	1.00	42.00
5586.00	---	39.04	---	---	1000.00	300.00	V	1.00	42.00
5610.35	---	38.97	---	---	1000.00	150.00	H	124.00	42.00
5610.35	53.83	---	68.20	14.37	1000.00	150.00	H	124.00	42.00
5632.55	53.47	---	68.20	14.73	1000.00	300.00	H	102.00	42.00
5632.55	---	38.91	---	---	1000.00	300.00	H	102.00	42.00
5648.70	---	38.62	---	---	1000.00	200.00	V	224.00	42.00
5648.70	52.92	---	68.20	15.28	1000.00	200.00	V	224.00	42.00

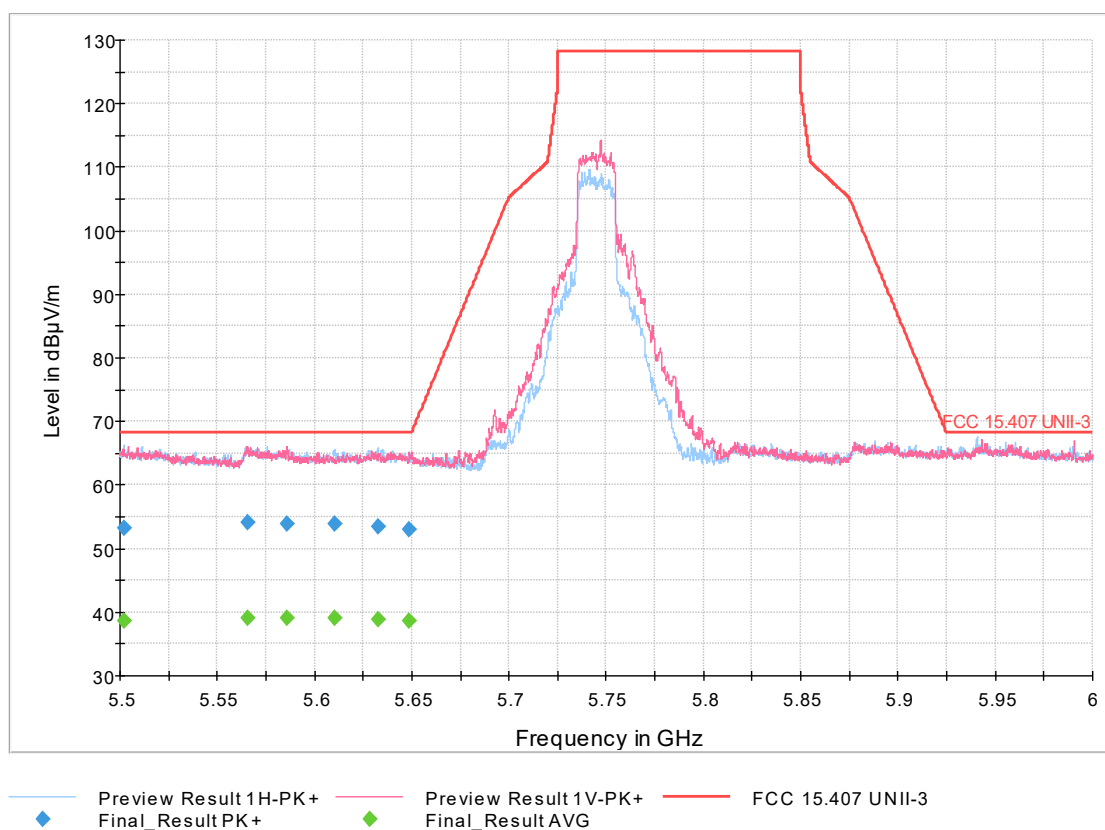
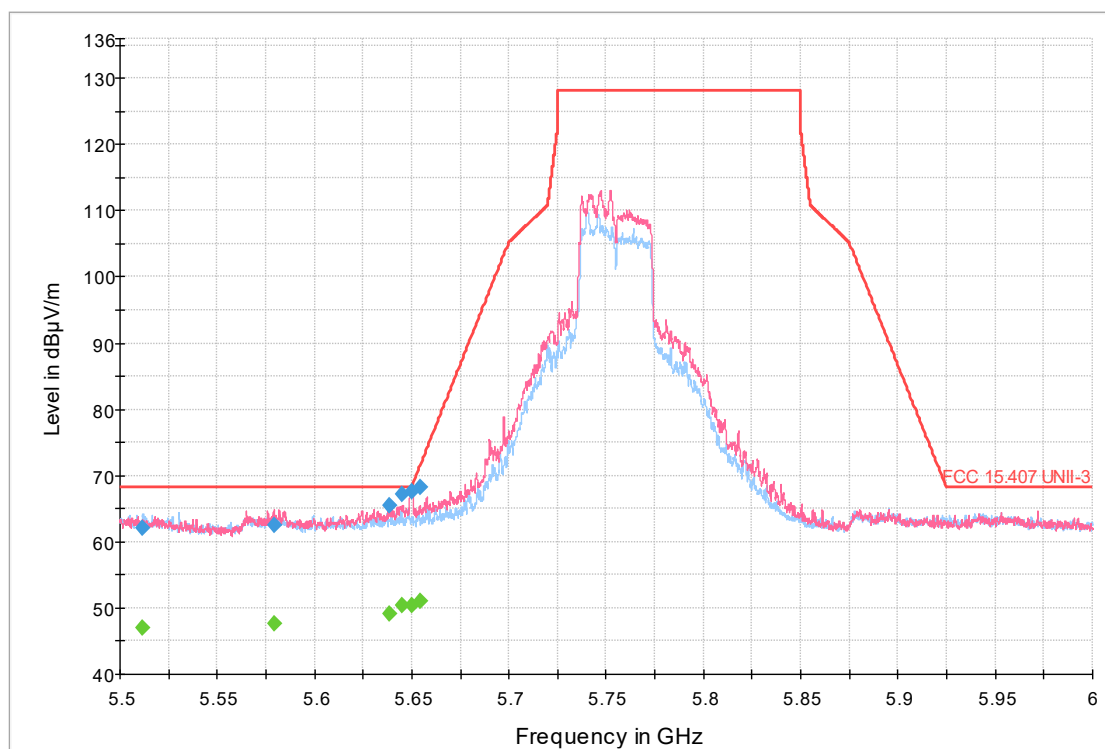


Figure 61: Low Band Edge 802.11ac HT Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5511.85	62.11	---	68.20	6.09	1000.00	200.00	H	295.00	40.10
5511.85	---	47.11	---	---	1000.00	200.00	H	295.00	40.10
5579.20	---	47.70	---	---	1000.00	150.00	V	142.00	40.10
5579.20	62.59	---	68.20	5.61	1000.00	150.00	V	142.00	40.10
5638.45	---	49.18	---	---	1000.00	200.00	V	212.00	40.10
5638.45	65.39	---	68.20	2.81	1000.00	200.00	V	212.00	40.10
5645.15	---	50.33	---	---	1000.00	103.00	V	208.00	40.10
5645.15	67.27	---	68.20	0.93	1000.00	103.00	V	208.00	40.10
5650.10	---	50.36	---	---	1000.00	100.00	V	208.00	40.10
5650.10	67.70	---	68.27	0.57	1000.00	100.00	V	208.00	40.10
5654.35	---	51.14	---	---	1000.00	150.00	V	352.00	40.10
5654.35	68.22	---	71.42	3.20	1000.00	150.00	V	352.00	40.10



◆ Preview Result 1H-PK+ ◆ Preview Result 1V-PK+ — FCC 15.407 UNII-3
◆ Final_Result PK+ ◆ Final_Result AVG

Figure 62: Low Band Edge 802.11n Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5101.35	62.36	---	74.00	11.64	10000.00	1000.00	153.00	V	60.00	39.50
5101.35	---	47.35	54.00	6.65	10000.00	1000.00	153.00	V	60.00	39.50
5115.23	62.77	---	74.00	11.23	10000.00	1000.00	250.00	H	-2.00	39.60
5115.23	---	47.32	54.00	6.68	10000.00	1000.00	250.00	H	-2.00	39.60
5124.73	62.88	---	74.00	11.12	10000.00	1000.00	250.00	H	70.00	39.60
5124.73	---	47.39	54.00	6.61	10000.00	1000.00	250.00	H	70.00	39.60
5142.68	73.19	---	74.00	0.81	10000.00	1000.00	254.00	H	85.00	39.60
5142.68	---	51.01	54.00	2.99	10000.00	1000.00	254.00	H	85.00	39.60
5146.90	71.96	---	74.00	2.04	10000.00	1000.00	153.00	V	7.00	39.60
5146.90	---	50.86	54.00	3.14	10000.00	1000.00	153.00	V	7.00	39.60
5150.00	---	50.04	54.00	3.96	10000.00	1000.00	158.00	H	107.00	39.70
5150.00	71.51	---	74.00	2.49	10000.00	1000.00	158.00	H	107.00	39.70

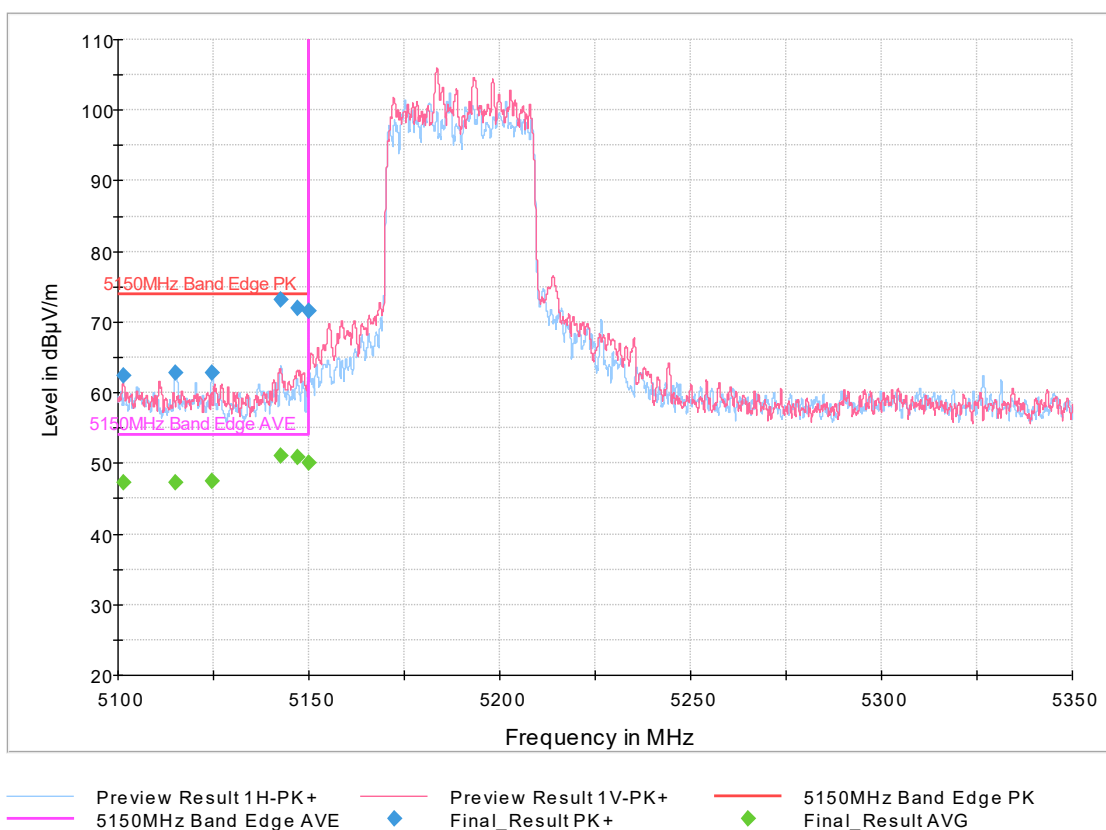


Figure 63: Low Band Edge 802.11ax Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5639.85	---	48.25	---	---	1000.00	100.00	V	94.00	40.10
5639.85	64.79	---	68.20	3.41	1000.00	100.00	V	94.00	40.10
5644.65	67.71	---	68.20	0.49	1000.00	105.00	V	109.00	40.10
5644.65	---	50.47	---	---	1000.00	105.00	V	109.00	40.10
5647.20	---	50.51	---	---	1000.00	100.00	V	106.00	40.10
5647.20	67.69	---	68.20	0.51	1000.00	100.00	V	106.00	40.10
5649.00	65.73	---	68.20	2.47	1000.00	223.00	V	31.00	40.10
5649.00	---	49.13	---	---	1000.00	223.00	V	31.00	40.10
5651.00	---	50.85	---	---	1000.00	103.00	V	106.00	40.10
5651.00	67.54	---	68.94	1.40	1000.00	103.00	V	106.00	40.10

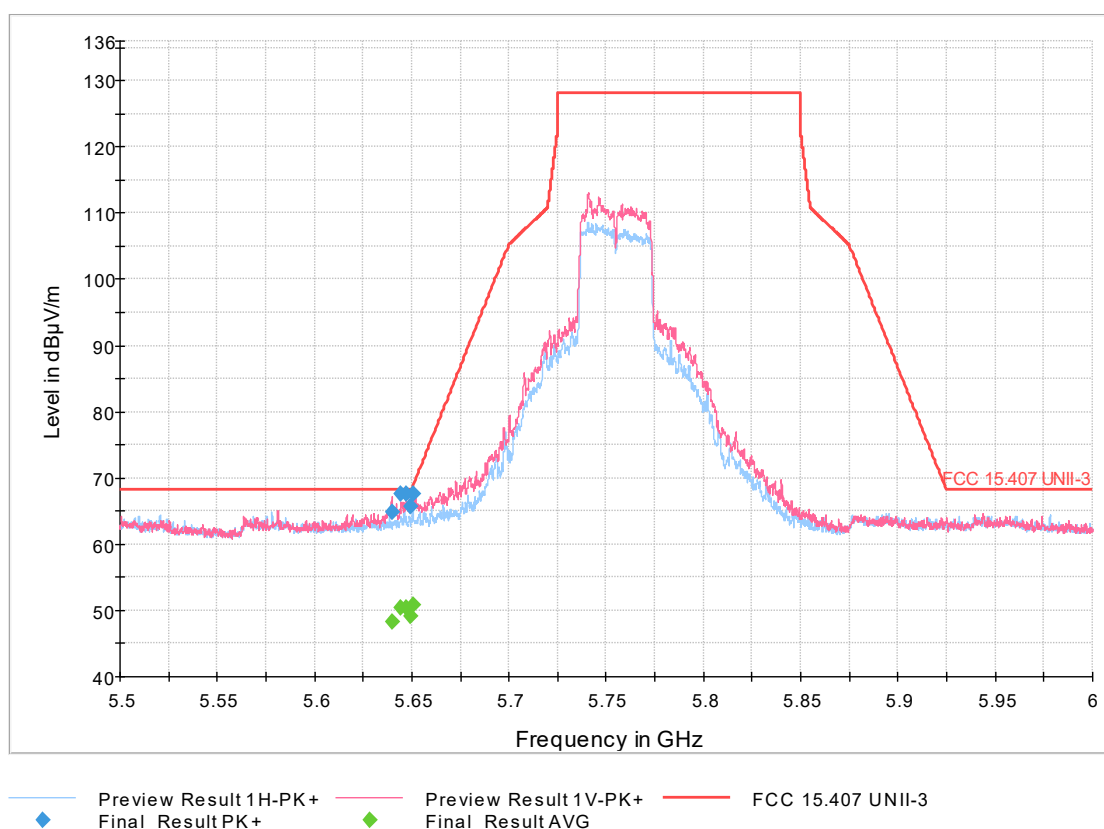
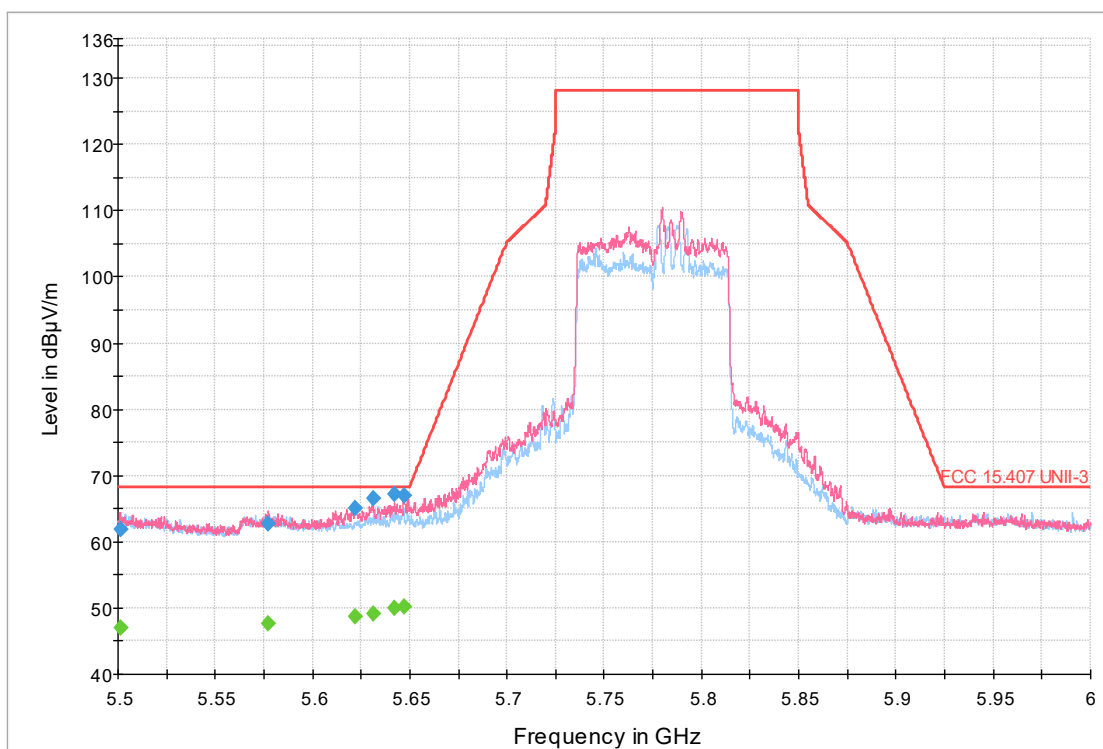


Figure 64: Low Band Edge 802.11ac Mode 40 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5501.10	61.94	---	68.20	6.26	1000.00	100.00	V	298.00	40.10
5501.10	---	46.96	---	---	1000.00	100.00	V	298.00	40.10
5577.40	---	47.69	---	---	1000.00	200.00	V	102.00	40.10
5577.40	62.63	---	68.20	5.57	1000.00	200.00	V	102.00	40.10
5622.25	---	48.75	---	---	1000.00	100.00	V	38.00	40.10
5622.25	65.07	---	68.20	3.13	1000.00	100.00	V	38.00	40.10
5631.15	66.45	---	68.20	1.75	1000.00	105.00	V	95.00	40.10
5631.15	---	49.05	---	---	1000.00	105.00	V	95.00	40.10
5642.05	---	50.03	---	---	1000.00	100.00	V	103.00	40.10
5642.05	67.13	---	68.20	1.07	1000.00	100.00	V	103.00	40.10
5646.95	---	50.12	---	---	1000.00	100.00	V	103.00	40.10
5646.95	66.98	---	68.20	1.22	1000.00	100.00	V	103.00	40.10



◆ Preview Result 1H-PK+ ◆ Preview Result 1V-PK+ — FCC 15.407 UNII-3
◆ Final_Result PK+ ◆ Final_Result AVG

Figure 65: Low Band Edge 802.11ax Mode 80 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5,500.55	---	46.90	---	---	1,000.00	185.00	V	75.00	40.10
5,500.55	62.31	---	68.20	5.89	1,000.00	185.00	V	75.00	40.10
5,566.75	---	47.12	---	---	1,000.00	200.00	V	136.00	40.10
5,566.75	62.19	---	68.20	6.01	1,000.00	200.00	V	136.00	40.10
5,628.50	---	48.46	---	---	1,000.00	284.00	V	207.00	40.10
5,628.50	66.56	---	68.20	1.64	1,000.00	284.00	V	207.00	40.10
5,632.30	---	49.65	---	---	1,000.00	104.00	V	107.00	40.10
5,632.30	67.41	---	68.20	0.79	1,000.00	104.00	V	107.00	40.10
5,637.20	---	49.57	---	---	1,000.00	200.00	V	103.00	40.10
5,637.20	66.00	---	68.20	2.20	1,000.00	200.00	V	103.00	40.10
5,641.55	66.54	---	68.20	1.66	1,000.00	188.00	V	110.00	40.10
5,641.55	---	50.22	---	---	1,000.00	188.00	V	110.00	40.10
5,647.60	66.17	---	68.20	2.03	1,000.00	103.00	V	103.00	40.10
5,647.60	---	49.47	---	---	1,000.00	103.00	V	103.00	40.10

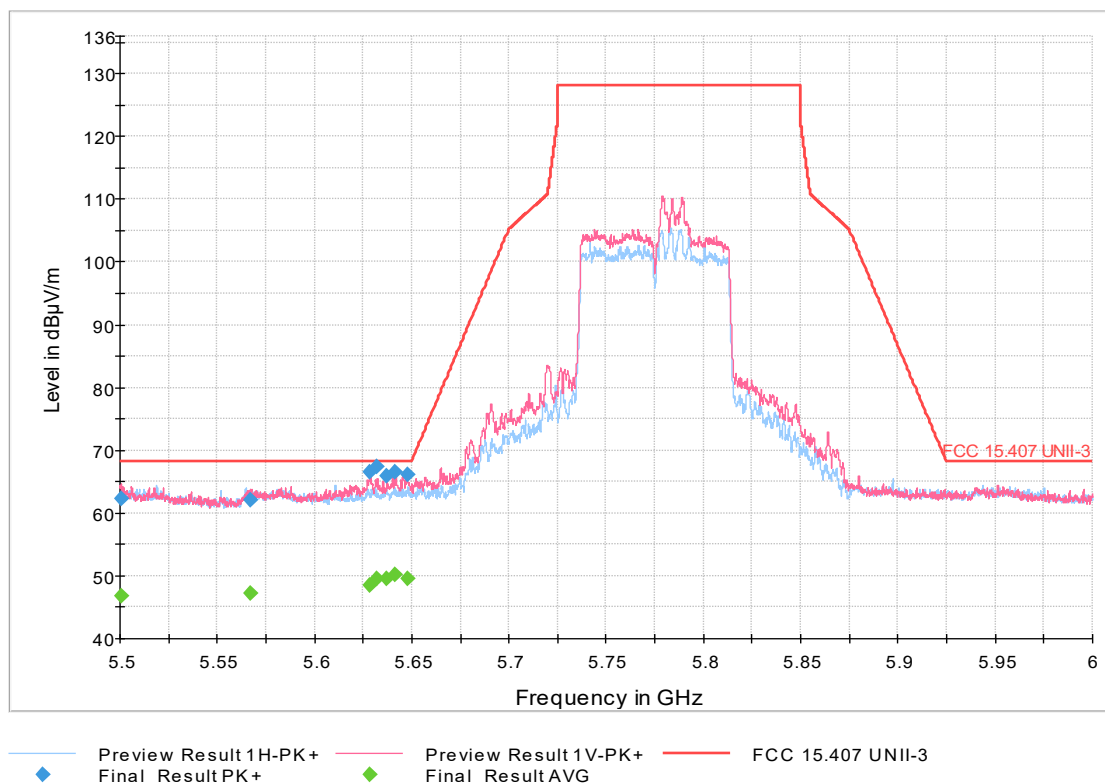


Figure 66: Low Band Edge 802.11ac Mode 80 MHz, Low Channel

4.4.2.6 UNII-3 High Band Edge BF: Results and Plots

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5920.20	---	40.10	---	---	1000.00	200.00	V	148.00	42.20
5920.20	54.13	---	71.75	17.62	1000.00	200.00	V	148.00	42.20
5924.60	---	40.13	---	---	1000.00	300.00	H	220.00	42.30
5924.60	54.46	---	68.50	14.04	1000.00	300.00	H	220.00	42.30
5929.30	53.48	---	68.20	14.72	1000.00	200.00	V	230.00	42.20
5929.30	---	40.05	---	---	1000.00	200.00	V	230.00	42.20
5943.05	---	40.01	---	---	1000.00	103.00	V	246.00	42.30
5943.05	54.58	---	68.20	13.62	1000.00	103.00	V	246.00	42.30
5951.60	---	40.04	---	---	1000.00	200.00	H	349.00	42.40
5951.60	54.41	---	68.20	13.79	1000.00	200.00	H	349.00	42.40
5970.30	54.10	---	68.20	14.10	1000.00	100.00	V	98.00	42.40
5970.30	---	40.11	---	---	1000.00	100.00	V	98.00	42.40

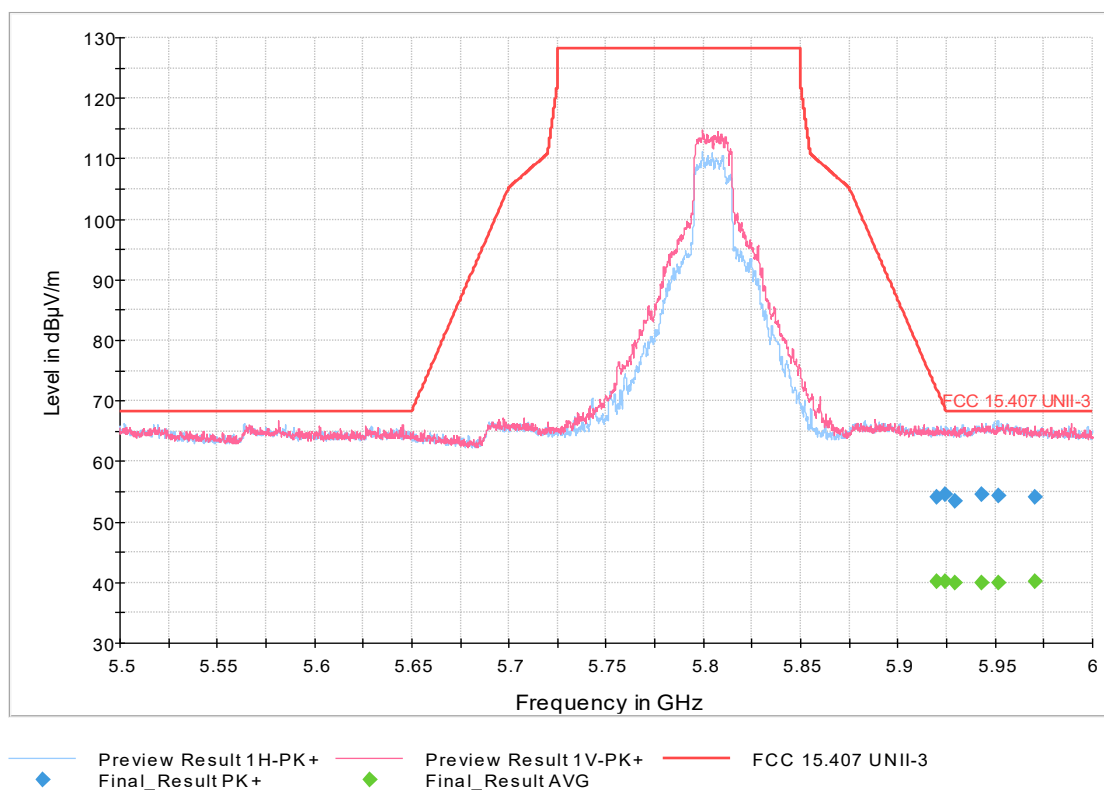


Figure 67: High Band Edge 802.11a Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5916.10	54.12	---	74.79	20.67	1000.00	185.00	V	206.00	42.20
5916.10	---	40.25	---	---	1000.00	185.00	V	206.00	42.20
5925.45	---	40.43	---	---	1000.00	100.00	V	67.00	42.20
5925.45	54.79	---	68.20	13.41	1000.00	100.00	V	67.00	42.20
5939.75	54.75	---	68.20	13.45	1000.00	205.00	V	281.00	42.30
5939.75	---	40.11	---	---	1000.00	205.00	V	281.00	42.30
5946.85	53.76	---	68.20	14.44	1000.00	100.00	V	213.00	42.30
5946.85	---	40.14	---	---	1000.00	100.00	V	213.00	42.30
5957.55	---	40.42	---	---	1000.00	200.00	H	222.00	42.40
5957.55	55.20	---	68.20	13.00	1000.00	200.00	H	222.00	42.40
5959.95	53.97	---	68.20	14.23	1000.00	103.00	V	99.00	42.40
5959.95	---	40.30	---	---	1000.00	103.00	V	99.00	42.40

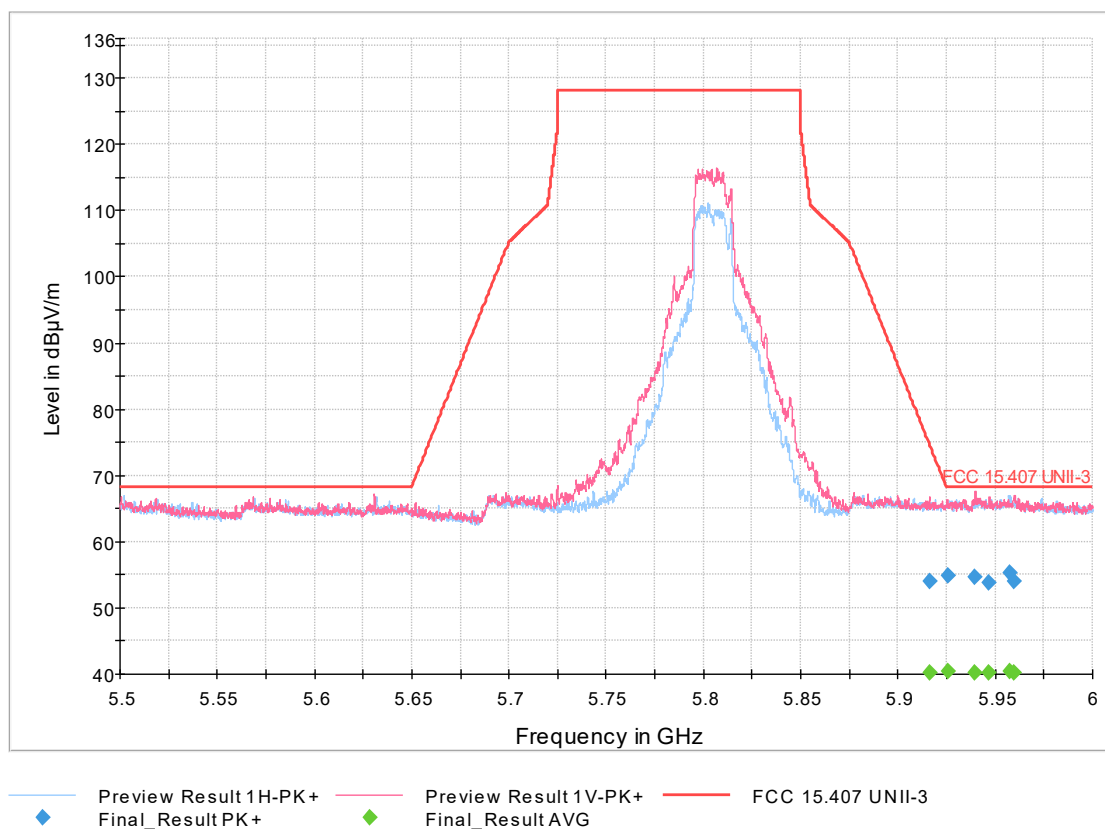


Figure 68: High Band Edge 802.11n Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5923.90	54.08	---	69.01	14.93	1000.00	200.00	V	7.00	42.20
5923.90	---	40.15	---	---	1000.00	200.00	V	7.00	42.20
5930.10	54.07	---	68.20	14.13	1000.00	154.00	V	14.00	42.20
5930.10	---	40.13	---	---	1000.00	154.00	V	14.00	42.20
5943.90	---	40.08	---	---	1000.00	235.00	V	242.00	42.30
5943.90	54.00	---	68.20	14.20	1000.00	235.00	V	242.00	42.30
5956.25	---	40.14	---	---	1000.00	150.00	H	201.00	42.40
5956.25	54.30	---	68.20	13.90	1000.00	150.00	H	201.00	42.40
5969.25	54.28	---	68.20	13.92	1000.00	100.00	V	180.00	42.40
5969.25	---	40.15	---	---	1000.00	100.00	V	180.00	42.40
5975.50	54.32	---	68.20	13.88	1000.00	205.00	H	38.00	42.50
5975.50	---	40.17	---	---	1000.00	205.00	H	38.00	42.50

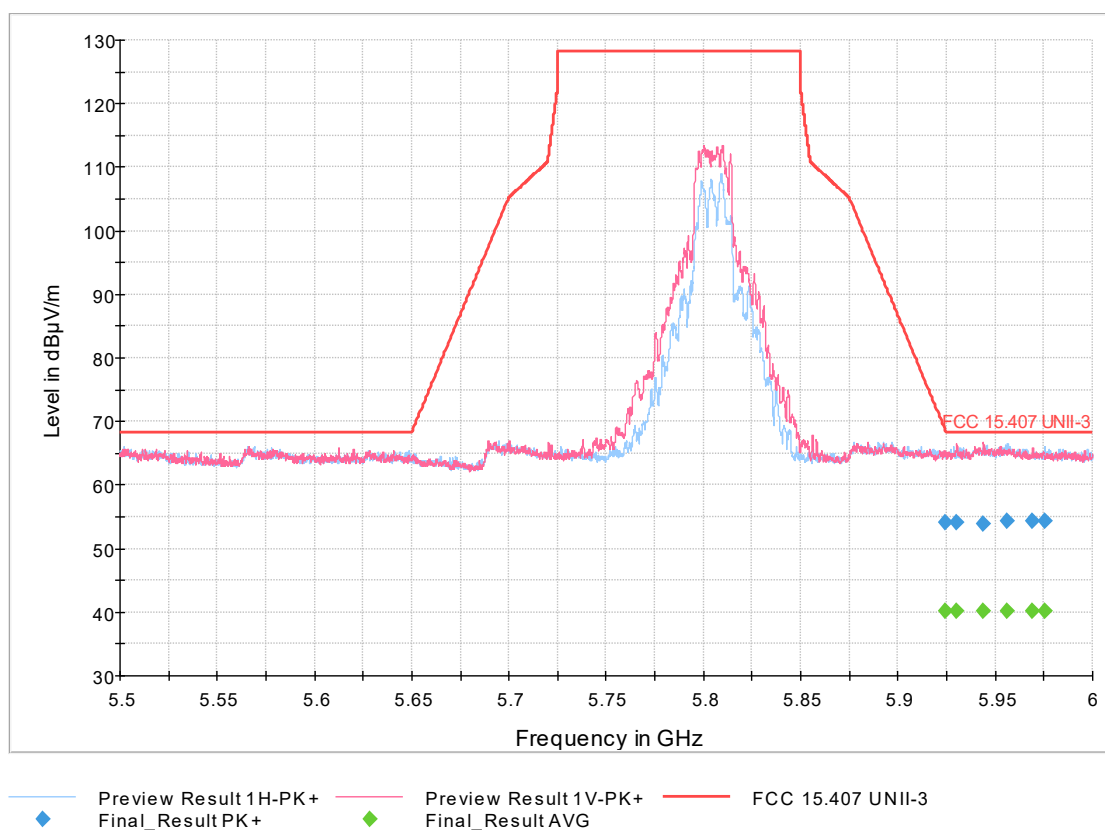


Figure 69: High Band Edge 802.11ax Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5923.40	---	40.17	---	---	1000.00	183.00	H	192.00	42.30
5923.40	54.41	---	69.38	14.97	1000.00	183.00	H	192.00	42.30
5934.15	---	40.04	---	---	1000.00	200.00	V	159.00	42.30
5934.15	53.96	---	68.20	14.24	1000.00	200.00	V	159.00	42.30
5944.95	54.60	---	68.20	13.60	1000.00	150.00	H	222.00	42.40
5944.95	---	40.07	---	---	1000.00	150.00	H	222.00	42.40
5950.10	53.92	---	68.20	14.28	1000.00	150.00	V	231.00	42.30
5950.10	---	39.98	---	---	1000.00	150.00	V	231.00	42.30
5957.90	53.75	---	68.20	14.45	1000.00	234.00	V	89.00	42.40
5957.90	---	40.04	---	---	1000.00	234.00	V	89.00	42.40
5972.65	54.57	---	68.20	13.63	1000.00	100.00	V	295.00	42.40
5972.65	---	40.12	---	---	1000.00	100.00	V	295.00	42.40

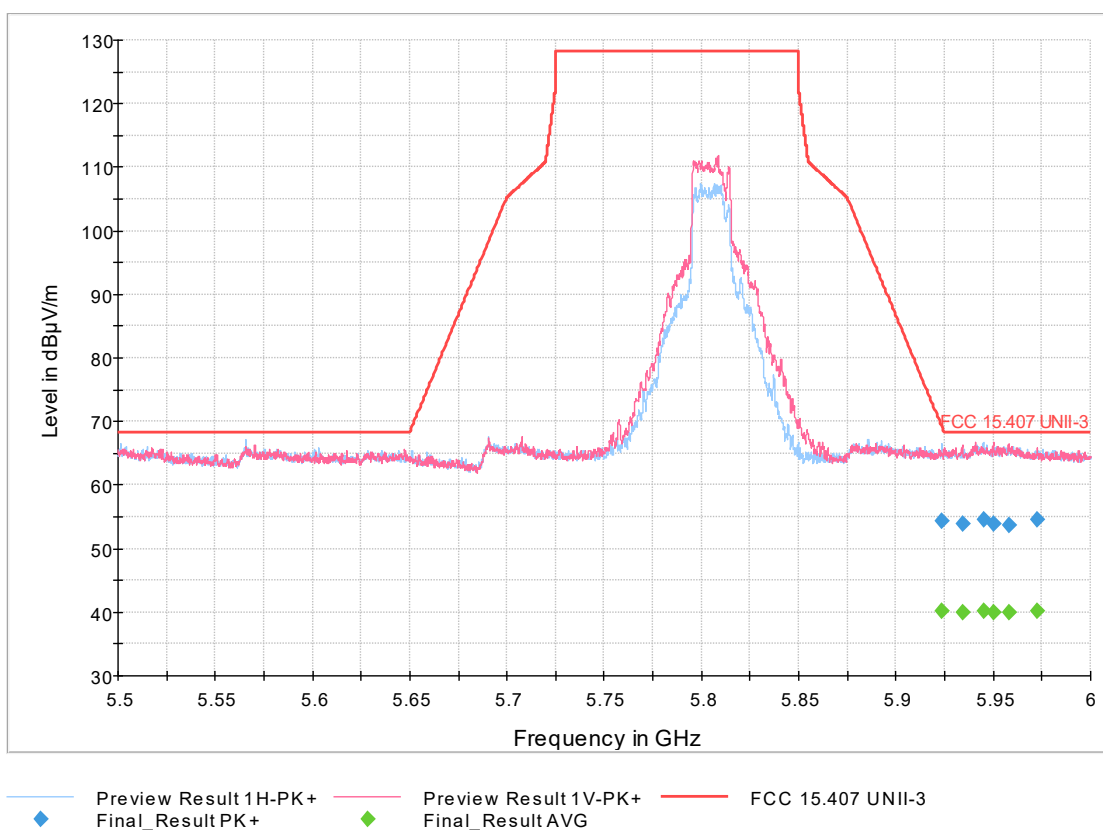
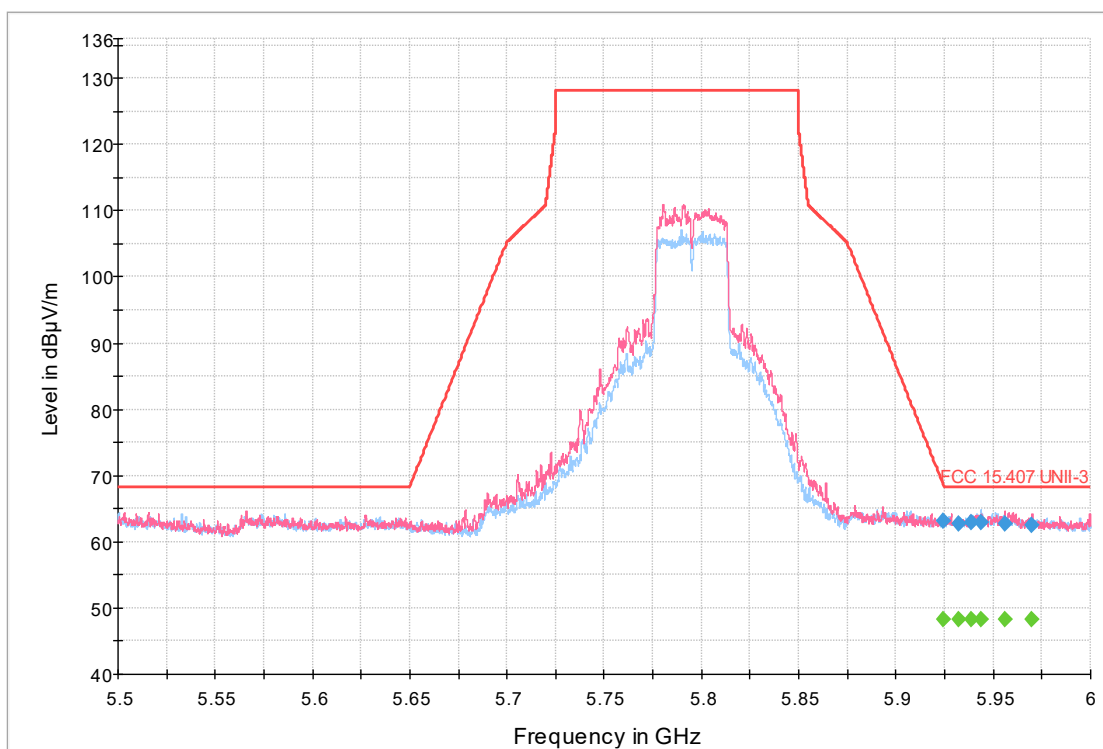


Figure 70: High Band Edge 802.11ac HT Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5924.35	---	48.25	---	---	1000.00	285.00	V	35.00	40.30
5924.35	63.25	---	68.68	5.44	1000.00	285.00	V	35.00	40.30
5932.25	---	48.23	---	---	1000.00	185.00	V	308.00	40.40
5932.25	62.71	---	68.20	5.49	1000.00	185.00	V	308.00	40.40
5938.45	62.93	---	68.20	5.27	1000.00	153.00	V	328.00	40.40
5938.45	---	48.19	---	---	1000.00	153.00	V	328.00	40.40
5943.85	---	48.22	---	---	1000.00	200.00	H	84.00	40.50
5943.85	62.95	---	68.20	5.25	1000.00	200.00	H	84.00	40.50
5955.95	62.69	---	68.20	5.51	1000.00	150.00	V	267.00	40.40
5955.95	---	48.18	---	---	1000.00	150.00	V	267.00	40.40
5970.05	---	48.25	---	---	1000.00	204.00	V	239.00	40.50
5970.05	62.50	---	68.20	5.70	1000.00	204.00	V	239.00	40.50



◆ Preview Result 1H-PK+ ◆ Preview Result 1V-PK+ — FCC 15.407 UNII-3
◆ Final_Result PK+ ◆ Final_Result AVG

Figure 71: High Band Edge 802.11n Mode 40 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5924.90	---	48.21	---	---	1000.00	200.00	V	39.00	40.30
5924.90	62.67	---	68.27	5.60	1000.00	200.00	V	39.00	40.30
5935.40	63.03	---	68.20	5.17	1000.00	200.00	H	231.00	40.40
5935.40	---	48.27	---	---	1000.00	200.00	H	231.00	40.40
5939.85	---	48.23	---	---	1000.00	300.00	H	227.00	40.40
5939.85	63.04	---	68.20	5.16	1000.00	300.00	H	227.00	40.40
5958.70	---	48.21	---	---	1000.00	200.00	H	299.00	40.50
5958.70	62.73	---	68.20	5.47	1000.00	200.00	H	299.00	40.50
5976.15	63.35	---	68.20	4.85	1000.00	204.00	H	190.00	40.50
5976.15	---	48.25	---	---	1000.00	204.00	H	190.00	40.50
5984.65	---	48.19	---	---	1000.00	300.00	V	56.00	40.60
5984.65	63.07	---	68.20	5.13	1000.00	300.00	V	56.00	40.60

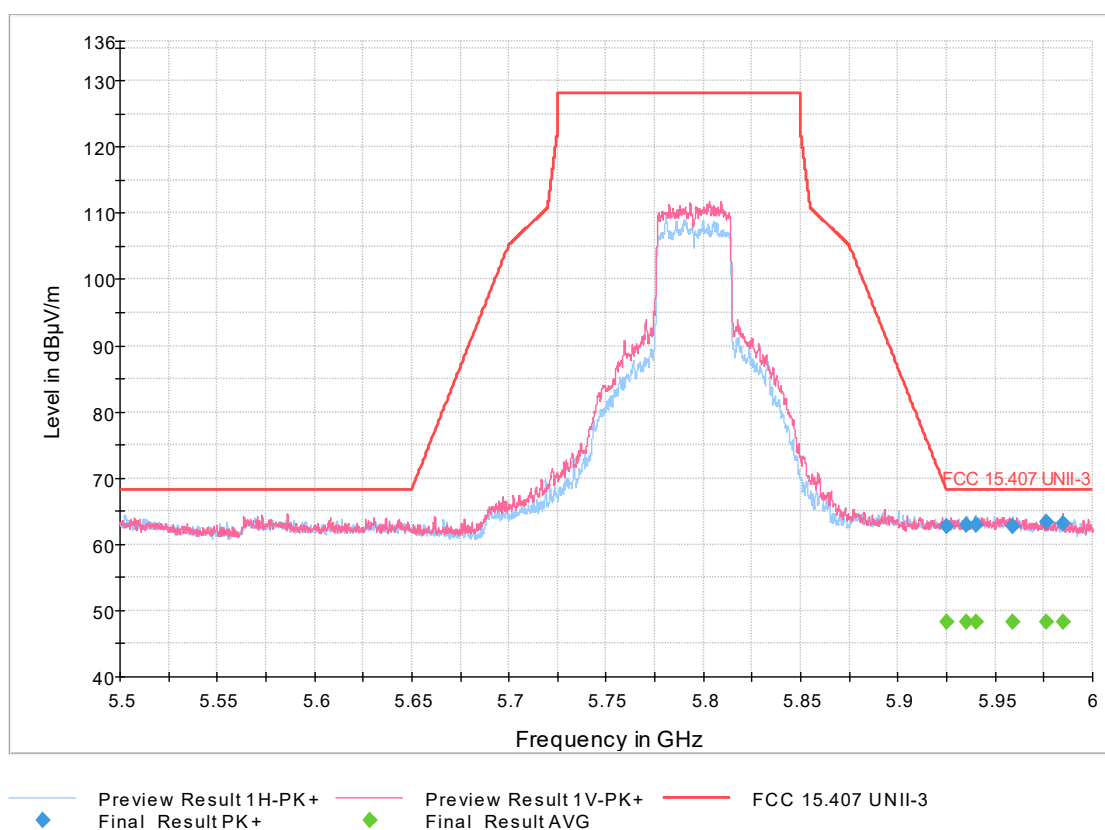


Figure 72: High Band Edge 802.11ax Mode 40 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5940.95	---	48.18	---	---	1000.00	184.00	H	140.00	40.40
5940.95	63.12	---	68.20	5.08	1000.00	184.00	H	140.00	40.40
5942.25	63.92	---	68.20	4.28	1000.00	185.00	H	336.00	40.50
5942.25	---	48.18	---	---	1000.00	185.00	H	336.00	40.50
5951.85	62.96	---	68.20	5.24	1000.00	184.00	H	194.00	40.50
5951.85	---	48.14	---	---	1000.00	184.00	H	194.00	40.50
5955.15	63.70	---	68.20	4.50	1000.00	186.00	V	139.00	40.40
5955.15	---	48.12	---	---	1000.00	186.00	V	139.00	40.40
5960.00	---	48.15	---	---	1000.00	203.00	V	26.00	40.50
5960.00	63.00	---	68.20	5.20	1000.00	203.00	V	26.00	40.50
5978.05	63.05	---	68.20	5.15	1000.00	283.00	H	306.00	40.50
5978.05	---	48.18	---	---	1000.00	283.00	H	306.00	40.50

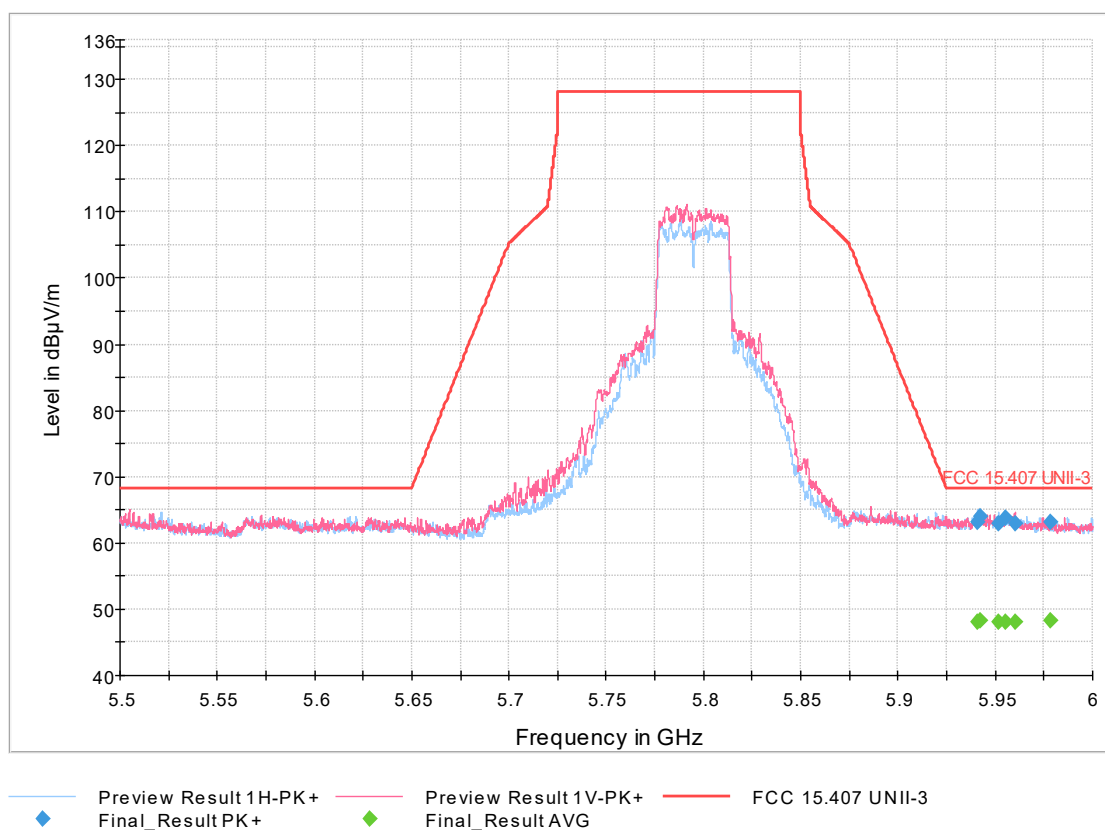


Figure 73: High Band Edge 802.11ac Mode 40 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5926.30	---	48.20	---	---	1000.00	300.00	V	-1.00	40.30
5926.30	63.03	---	68.20	5.17	1000.00	300.00	V	-1.00	40.30
5939.70	---	48.14	---	---	1000.00	184.00	V	200.00	40.40
5939.70	62.81	---	68.20	5.39	1000.00	184.00	V	200.00	40.40
5945.00	---	48.12	---	---	1000.00	106.00	V	302.00	40.40
5945.00	62.62	---	68.20	5.58	1000.00	106.00	V	302.00	40.40
5957.50	---	48.19	---	---	1000.00	200.00	H	194.00	40.50
5957.50	63.67	---	68.20	4.53	1000.00	200.00	H	194.00	40.50
5969.95	62.79	---	68.20	5.41	1000.00	200.00	H	327.00	40.50
5969.95	---	48.22	---	---	1000.00	200.00	H	327.00	40.50
5990.75	62.90	---	68.20	5.30	1000.00	300.00	H	351.00	40.50
5990.75	---	48.14	---	---	1000.00	300.00	H	351.00	40.50

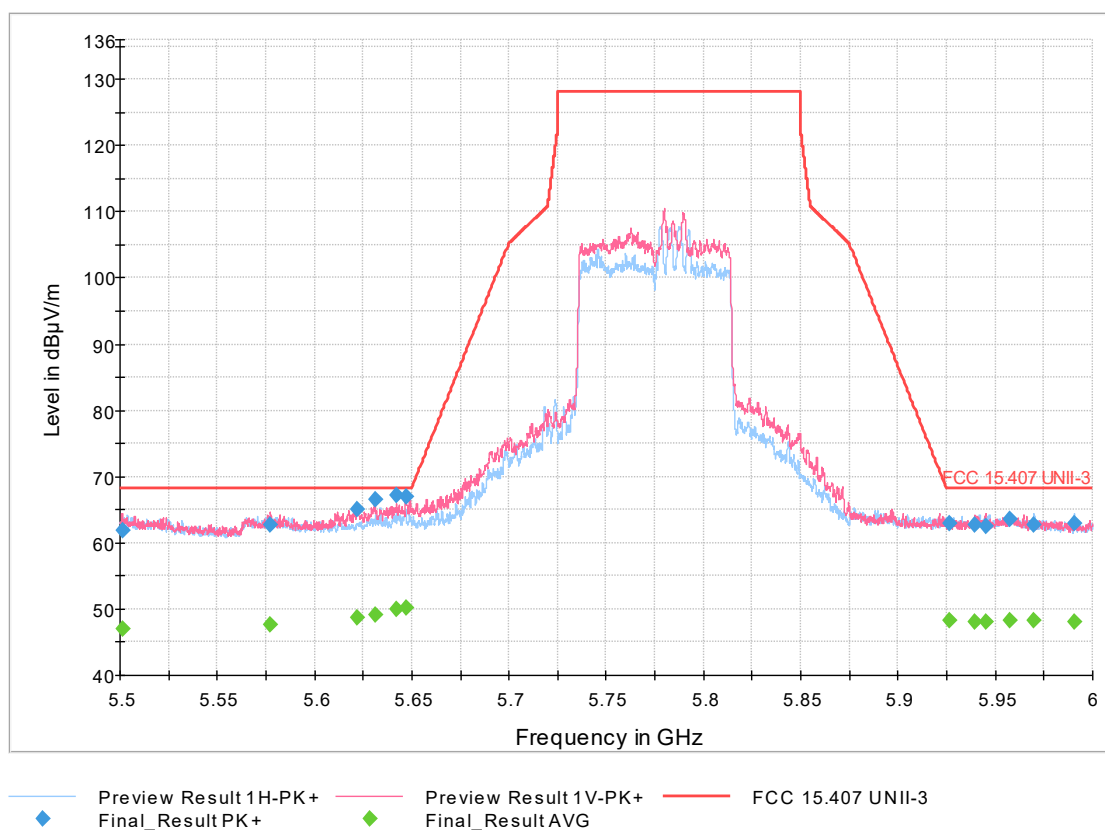


Figure 74: High Band Edge 802.11ax Mode 80 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5927.85	---	48.27	---	---	1000.00	200.00	H	35.00	40.40
5927.85	63.57	---	68.20	4.63	1000.00	200.00	H	35.00	40.40
5941.50	---	48.22	---	---	1000.00	100.00	H	268.00	40.50
5941.50	62.92	---	68.20	5.28	1000.00	100.00	H	268.00	40.50
5951.20	62.68	---	68.20	5.52	1000.00	100.00	V	63.00	40.40
5951.20	---	48.11	---	---	1000.00	100.00	V	63.00	40.40
5975.10	63.50	---	68.20	4.70	1000.00	200.00	H	292.00	40.50
5975.10	---	48.22	---	---	1000.00	200.00	H	292.00	40.50
5995.40	---	48.17	---	---	1000.00	206.00	V	293.00	40.60
5995.40	62.83	---	68.20	5.37	1000.00	206.00	V	293.00	40.60

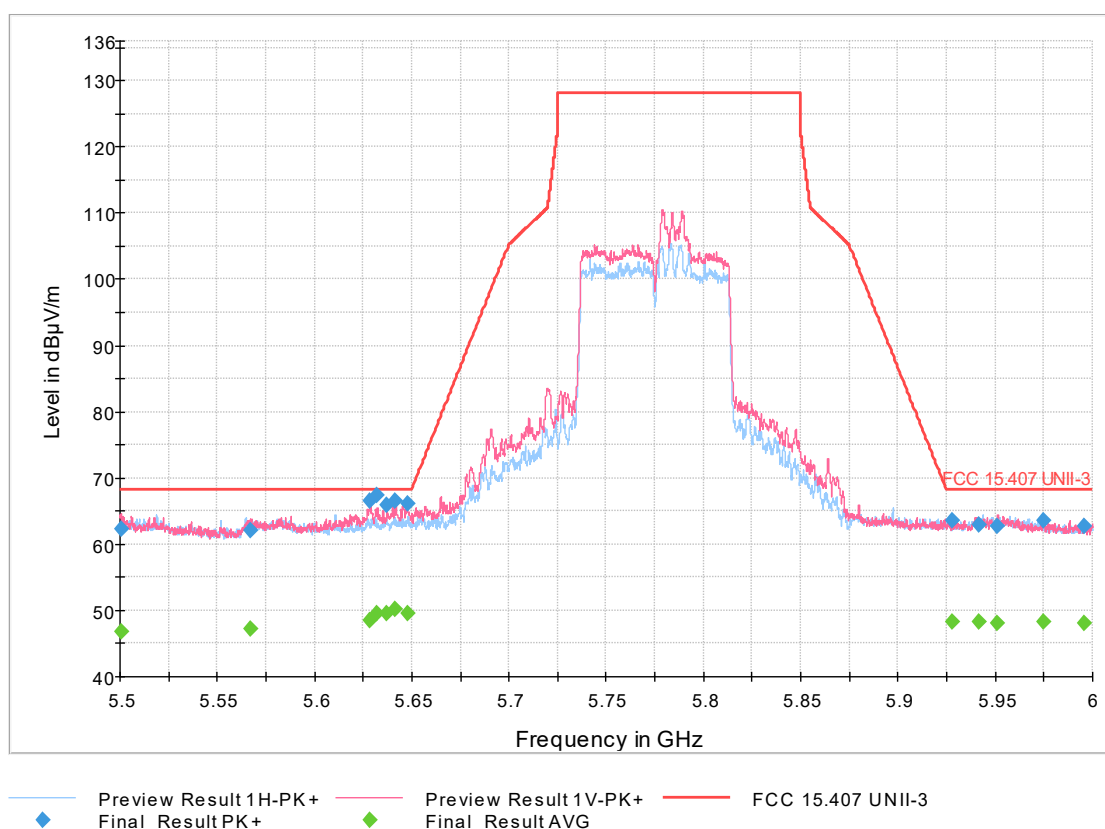


Figure 75: High Band Edge 802.11ac Mode 80 MHz, High Channel

4.5 Transmitter Spurious Emissions

Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmit mode; per requirement of CFR47 15.205:2021, 15.209:2021, 15.407(b):2021.

4.5.1 Test Methodology

4.5.1.1 Preliminary Test

A test program that controls instrumentation and data logging was used to automate the preliminary RF emission test procedure. The frequency range of interest was divided into sub-ranges to yield a frequency resolution of approximately 120 kHz and provide a reading at each frequency for no more than 12° of turntable rotation. For each frequency sub-range the turntable was rotated 360° while peak emission data was recorded and plotted over the frequency range of interest in horizontal and vertical antenna polarization's.

Preliminary emission profile testing was performed inside the anechoic chamber. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the floor. The EUT was positioned as shown in the setup photographs. The receiving antenna was placed at a distance of 3m at a fixed height of 1m. Measurement equipment was located outside of the chamber. A video camera was placed inside the chamber to view the EUT.

Pres-scans were performed to determine the worst.

4.5.1.2 Final Test

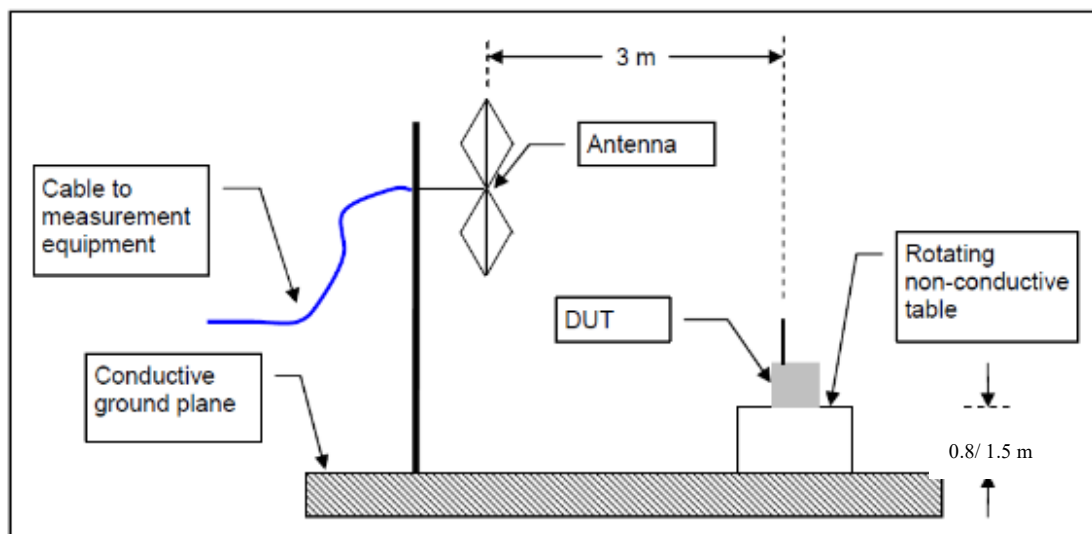
For each frequency measured, the peak emission was maximized by manipulating the receiving antenna from 1 to 4 meters above the ground plane and placing it at the position that produced the maximum signal strength reading. The turntable was then rotated through 360° while observing the peak signal and placing the EUT at the position that produced maximum radiation. The six highest emissions relative to the limit were measured unless such emissions were more than 20 dB below the limit. If less than six emissions are within 20 dB of the limit, than the noise level of the receiver is measured at frequencies where emissions are expected. Multiples of all oscillator and microprocessor frequencies were also checked.

Final testing was performed on an NSA compliant test site. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the ground plane. The placement of EUT and cables were the same as for preliminary testing and is shown in the setup photographs. RBW is set to 200 Hz and VBW is set to 1 kHz for 9 kHz-150 kHz.
RBW is set to 9 kHz and VBW is set to 30 kHz for 150 kHz-30 MHz
RBW is set to 100 kHz, VBW is set to 300 kHz for 30 MHz-1 GHz.
RBW is set to 1 MHz, VBW is set to 3 MHz for above 1 GHz.

4.5.1.3 Deviations

None.

Test Setup:



4.5.2 Transmitter Spurious Emission Limit

The spurious emissions of the transmitter shall not exceed the values in CFR47 Part 15.205, 15.209.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490.....	2400/F (kHz)	300
0.490-1.705.....	24000/F (kHz)	30
1.705-30.0.....	30	30
30-88.....	100 **	3
88-216.....	150 **	3
216-960.....	200 **	3
Above 960.....	500	3

According to CFR47 15.407 (b), all harmonics and spurious emissions which are outside the 5150 MHz - 5250 MHz, 5250 MHz - 5350 MHz, or 5470 MHz - 5725 MHz shall not exceed -27 dBm/MHz. This is equivalent to 68.2 dBuV/m at 3 meter distance.

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 note 3 applies.

4.5.3 Results

The final measurement data was taken under the worst case operating modes, configurations, and/or cable positions. It also reflects the results including any modifications and/or special accessories listed in Sections 1.4 and test plan.

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

4.5.3.1 UNII-1 Radiated Spurious Emissions Non-BF: Results and Plots

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
76.88	39.99	---	40.00	0.01	1000.00	120.00	255.00	V	115.00	-17.00
76.88	---	43.98	---	---	1000.00	120.00	255.00	V	115.00	-17.00
105.70	36.38	---	43.52	7.14	1000.00	120.00	400.00	H	350.00	-12.60
105.70	---	40.11	---	---	1000.00	120.00	400.00	H	350.00	-12.60
119.25	39.52	---	43.52	4.00	1000.00	120.00	100.00	V	174.00	-13.70
119.25	---	43.89	---	---	1000.00	120.00	100.00	V	174.00	-13.70
122.43	---	42.71	---	---	1000.00	120.00	100.00	V	174.00	-14.30
122.43	38.32	---	43.52	5.20	1000.00	120.00	100.00	V	174.00	-14.30
284.82	---	43.28	---	---	1000.00	120.00	102.00	H	-1.00	-10.90
284.82	38.66	---	46.00	7.34	1000.00	120.00	102.00	H	-1.00	-10.90
500.01	43.89	---	46.00	2.11	1000.00	120.00	153.00	H	-5.00	-6.20
500.01	---	45.23	---	---	1000.00	120.00	153.00	H	-5.00	-6.20

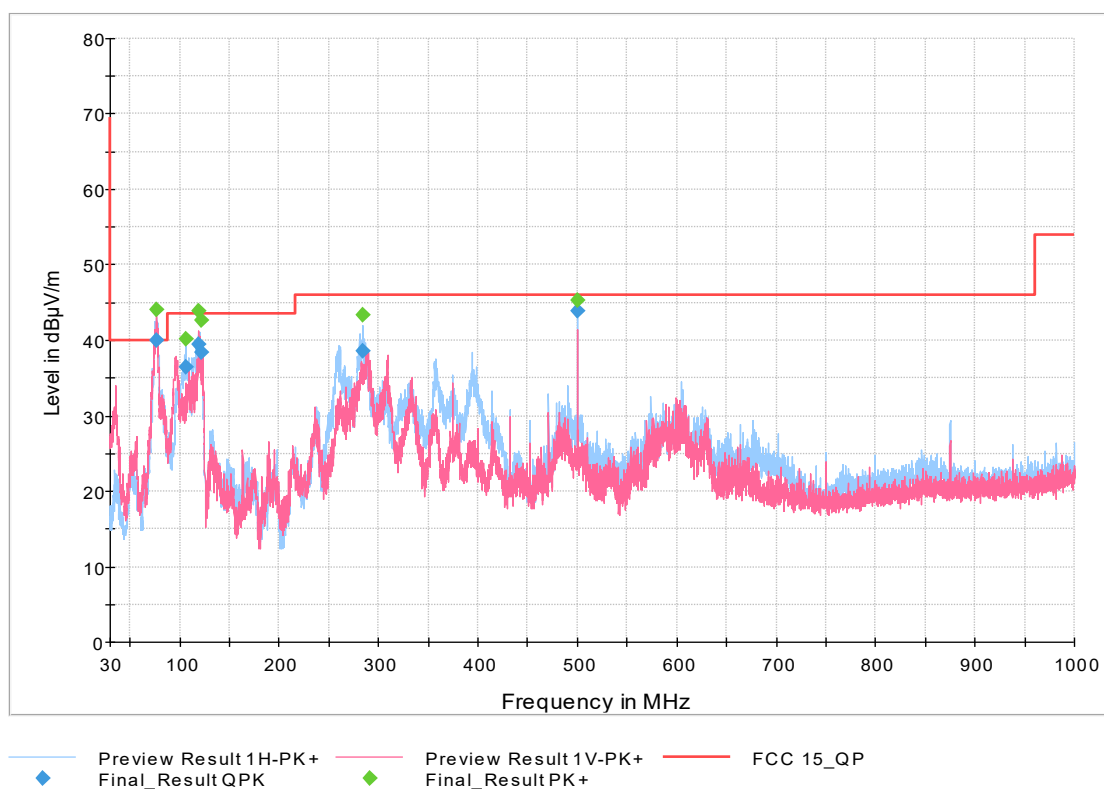


Figure 76: 30 MHz-1 GHz 802.11ax Mode 20 MHz, Mid Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.73	---	20.86	54.00	33.14	1000.00	253.00	H	29.00	-8.10
1093.73	32.93	---	74.00	41.07	1000.00	253.00	H	29.00	-8.10
7424.03	---	25.01	54.00	28.99	1000.00	250.00	H	117.00	7.80
7424.03	38.84	---	74.00	35.16	1000.00	250.00	H	117.00	7.80
8848.81	---	30.04	54.00	23.96	1000.00	256.00	H	200.00	10.40
8848.81	43.73	---	74.00	30.27	1000.00	256.00	H	200.00	10.40
10354.50	---	31.04	54.00	22.96	1000.00	250.00	H	349.00	10.60
10354.50	46.48	---	74.00	27.52	1000.00	250.00	H	349.00	10.60
14200.80	49.35	---	74.00	24.65	1000.00	150.00	V	210.00	15.90
14200.80	---	35.38	54.00	18.62	1000.00	150.00	V	210.00	15.90
17887.50	56.91	---	74.00	17.09	1000.00	105.00	V	201.00	23.10
17887.50	---	43.33	54.00	10.67	1000.00	105.00	V	201.00	23.10

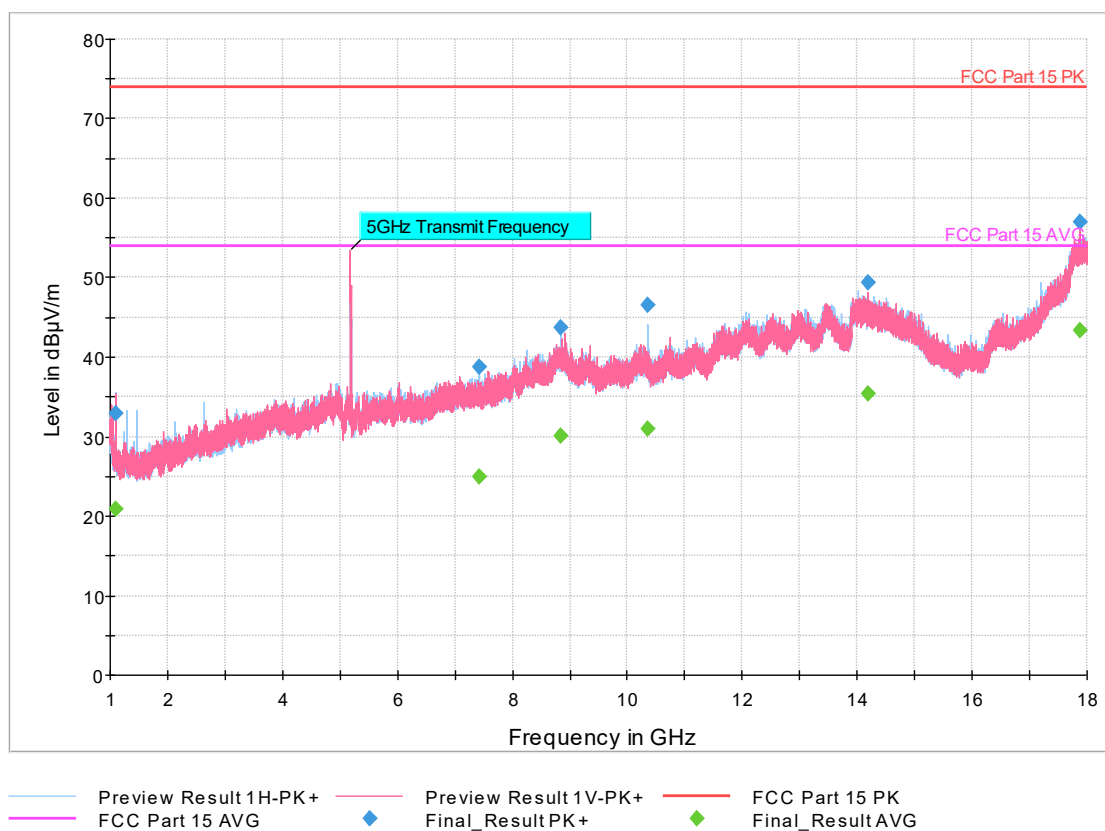


Figure 77: 1-18 GHz 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1291.24	29.87	---	74.00	44.13	1000.00	100.00	H	151.00	-7.70
1291.24	---	15.43	54.00	38.57	1000.00	100.00	H	151.00	-7.70
6876.20	---	24.24	54.00	29.76	1000.00	153.00	V	202.00	6.40
6876.20	38.42	---	74.00	35.58	1000.00	153.00	V	202.00	6.40
10434.50	---	31.38	54.00	22.62	1000.00	100.00	H	27.00	10.40
10434.50	47.18	---	74.00	26.82	1000.00	100.00	H	27.00	10.40
13433.50	---	34.82	54.00	19.18	1000.00	155.00	H	285.00	15.90
13433.50	48.19	---	74.00	25.81	1000.00	155.00	H	285.00	15.90
13986.08	48.77	---	74.00	25.23	1000.00	350.00	V	173.00	15.40
13986.08	---	35.55	54.00	18.45	1000.00	350.00	V	173.00	15.40
17970.50	---	43.72	54.00	10.28	1000.00	150.00	H	327.00	23.10
17970.50	57.60	---	74.00	16.40	1000.00	150.00	H	327.00	23.10

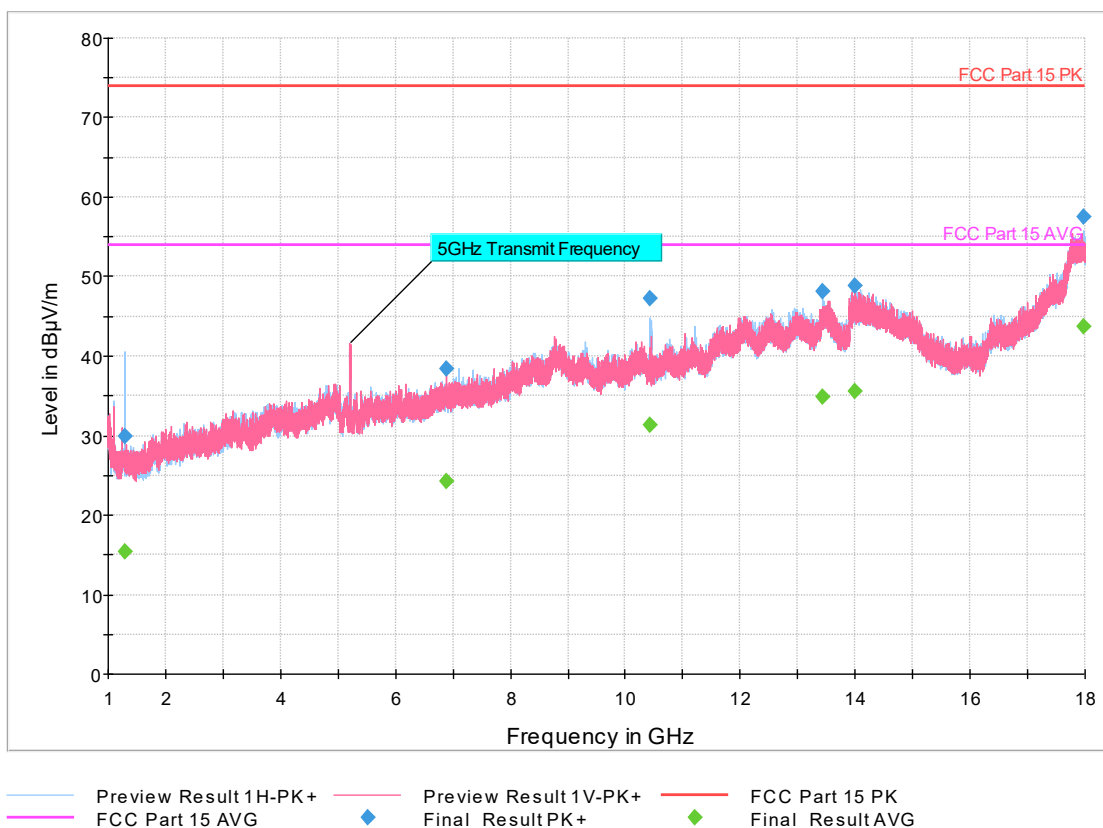


Figure 78: 1-18 GHz 802.11ax Mode 20 MHz, Mid Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1320.79	29.92	---	74.00	44.08	1000.00	100.00	V	120.00	-7.30
1320.79	---	15.21	54.00	38.79	1000.00	100.00	V	120.00	-7.30
1736.61	---	16.09	54.00	37.91	1000.00	336.00	V	149.00	-5.60
1736.61	30.42	---	74.00	43.58	1000.00	336.00	V	149.00	-5.60
3297.50	34.04	---	74.00	39.96	1000.00	104.00	V	119.00	0.00
3297.50	---	18.52	54.00	35.48	1000.00	104.00	V	119.00	0.00
10478.70	48.40	---	74.00	25.60	1000.00	350.00	H	49.00	10.60
10478.70	---	31.78	54.00	22.22	1000.00	350.00	H	49.00	10.60
14007.30	---	35.71	54.00	18.29	1000.00	350.00	H	115.00	15.60
14007.30	49.04	---	74.00	24.97	1000.00	350.00	H	115.00	15.60
17941.16	57.58	---	74.00	16.42	1000.00	353.00	H	301.00	23.20
17941.16	---	43.73	54.00	10.27	1000.00	353.00	H	301.00	23.20

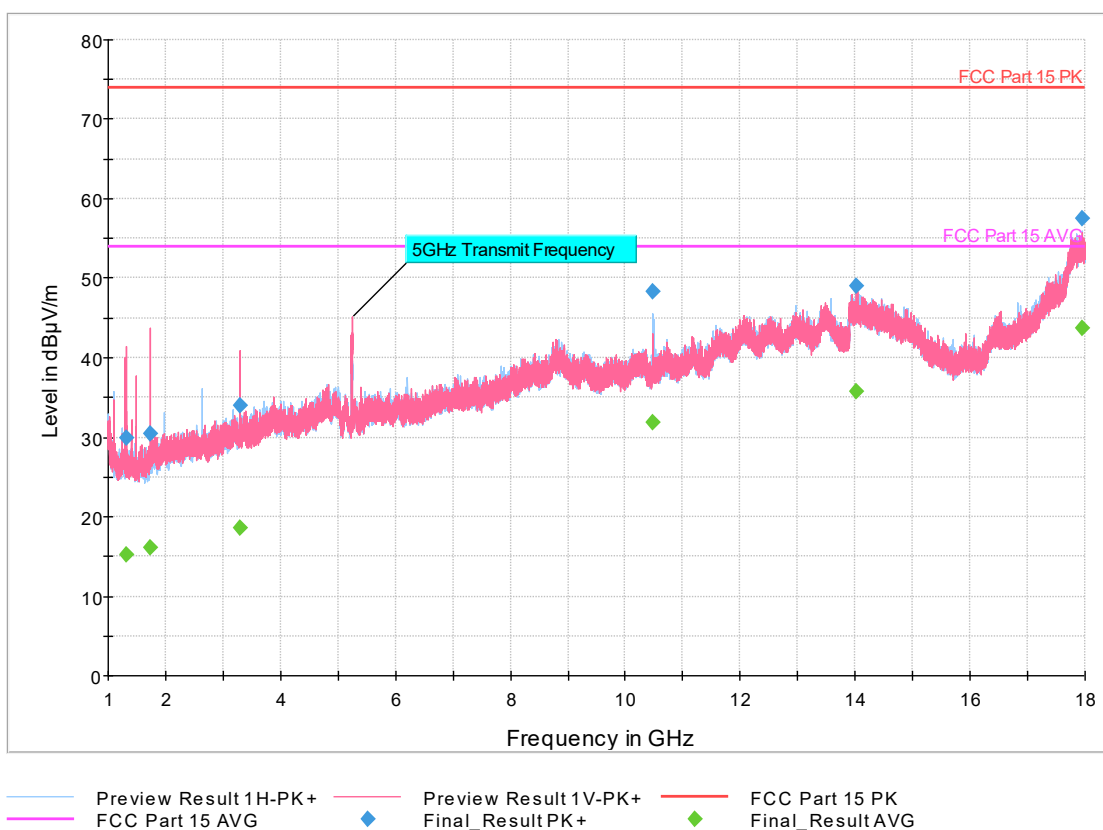


Figure 79: 1-18 GHz 802.11ax Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18619.74	49.41	---	74.00	24.59	1000.00	100.00	H	199.00	-2.20
18619.74	---	35.64	54.00	18.36	1000.00	100.00	H	199.00	-2.20
22000.99	---	35.69	54.00	18.31	1000.00	105.00	V	320.00	0.80
22000.99	49.33	---	74.00	24.67	1000.00	105.00	V	320.00	0.80
29632.97	---	36.15	54.00	17.85	1000.00	105.00	H	177.00	5.70
29632.97	49.65	---	74.00	24.36	1000.00	105.00	H	177.00	5.70
31899.32	---	36.15	54.00	17.85	1000.00	253.00	H	205.00	5.60
31899.32	49.65	---	74.00	24.35	1000.00	253.00	H	205.00	5.60
36336.85	---	37.40	54.00	16.60	1000.00	153.00	V	8.00	5.90
36336.85	51.30	---	74.00	22.70	1000.00	153.00	V	8.00	5.90
37700.22	53.17	---	74.00	20.83	1000.00	250.00	H	99.00	6.40
37700.22	---	38.98	54.00	15.02	1000.00	250.00	H	99.00	6.40

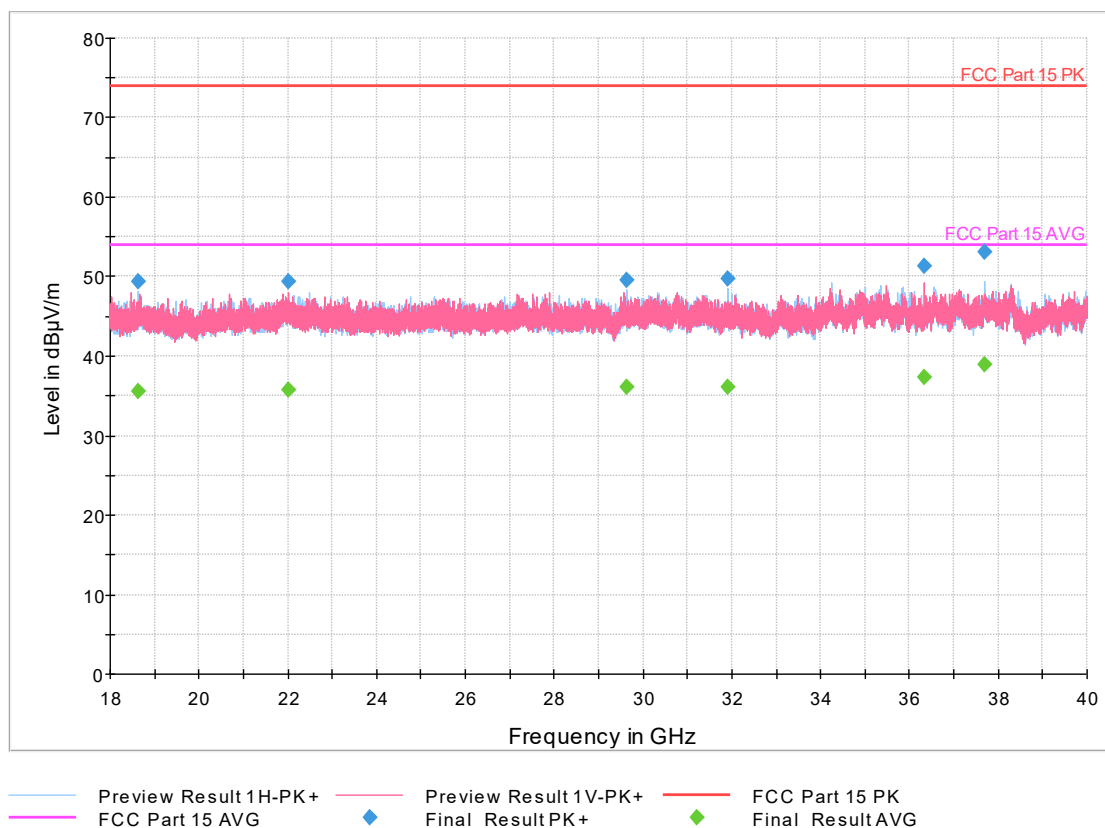


Figure 80: 18-40 GHz 802.11ax Mode 20 MHz, Mid Channel

4.5.3.2 UNII-3 Radiated Spurious Emissions Non-BF: Results and Plots

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
75.49	---	38.46	---	---	1000.00	120.00	276.00	V	60.00	-17.00
75.49	35.41	---	40.00	4.59	1000.00	120.00	276.00	V	60.00	-17.00
77.27	---	42.45	---	---	1000.00	120.00	395.00	H	189.00	-17.80
77.27	39.62	---	40.00	0.38	1000.00	120.00	395.00	H	189.00	-17.80
105.74	---	40.74	---	---	1000.00	120.00	400.00	H	190.00	-12.60
105.74	38.36	---	43.52	5.16	1000.00	120.00	400.00	H	190.00	-12.60
119.21	---	41.36	---	---	1000.00	120.00	103.00	V	173.00	-13.70
119.21	39.10	---	43.52	4.42	1000.00	120.00	103.00	V	173.00	-13.70
283.99	---	43.07	---	---	1000.00	120.00	103.00	H	174.00	-10.90
283.99	38.14	---	46.00	7.86	1000.00	120.00	103.00	H	174.00	-10.90
500.01	---	45.22	---	---	1000.00	120.00	100.00	H	163.00	-6.20
500.01	43.94	---	46.00	2.06	1000.00	120.00	100.00	H	163.00	-6.20

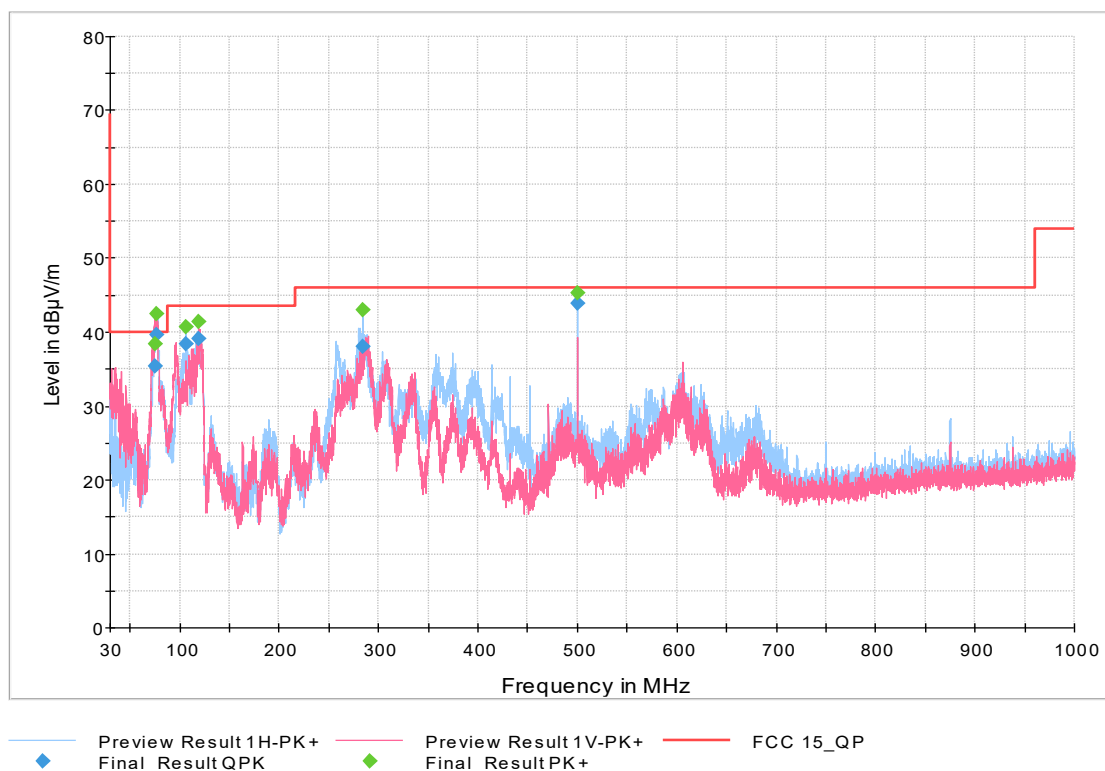


Figure 81: 30 MHz-1 GHz 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1003.63	---	17.84	54.00	36.16	1000.00	100.00	H	205.00	-8.90
1003.63	35.27	---	74.00	38.73	1000.00	100.00	H	205.00	-8.90
1093.76	---	32.09	54.00	21.91	1000.00	100.00	H	119.00	-8.10
1093.76	38.71	---	74.00	35.29	1000.00	100.00	H	119.00	-8.10
5589.00	---	35.38	54.00	18.62	1000.00	250.00	V	29.00	4.80
5589.00	57.32	---	74.00	16.68	1000.00	250.00	V	29.00	4.80
5607.00	60.69	---	74.00	13.32	1000.00	105.00	V	188.00	4.80
5607.00	---	37.12	54.00	16.88	1000.00	105.00	V	188.00	4.80
8729.50	---	29.27	54.00	24.73	1000.00	235.00	H	128.00	10.10
8729.50	42.33	---	74.00	31.67	1000.00	235.00	H	128.00	10.10
13494.02	49.82	---	74.00	24.18	1000.00	106.00	V	105.00	15.80
13494.02	---	35.03	54.00	18.97	1000.00	106.00	V	105.00	15.80
14222.91	49.05	---	74.00	24.95	1000.00	250.00	V	300.00	16.00
14222.91	---	35.48	54.00	18.52	1000.00	250.00	V	300.00	16.00
17957.00	57.71	---	74.00	16.29	1000.00	155.00	V	46.00	23.10
17957.00	---	43.88	54.00	10.12	1000.00	155.00	V	46.00	23.10

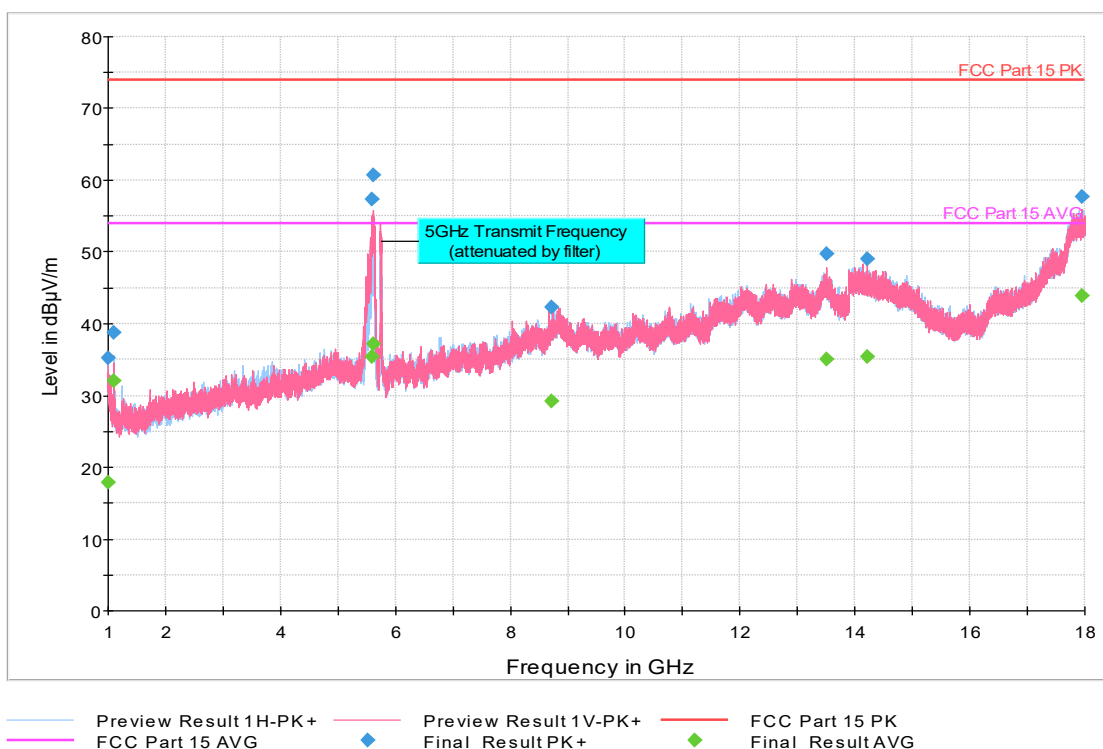


Figure 82: 1-18 GHz 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.50	---	30.04	54.00	23.96	1000.00	156.00	H	159.00	-8.10
1093.50	37.53	---	74.00	36.47	1000.00	156.00	H	159.00	-8.10
5617.63	---	32.63	54.00	21.37	1000.00	255.00	V	9.00	4.80
5617.63	55.64	---	74.00	18.36	1000.00	255.00	V	9.00	4.80
8886.64	43.63	---	74.00	30.37	1000.00	104.00	V	254.00	10.20
8886.64	---	29.69	54.00	24.31	1000.00	104.00	V	254.00	10.20
13405.47	47.77	---	74.00	26.23	1000.00	156.00	H	236.00	15.90
13405.47	---	34.26	54.00	19.74	1000.00	156.00	H	236.00	15.90
14109.50	---	35.88	54.00	18.12	1000.00	350.00	H	1.00	16.00
14109.50	49.21	---	74.00	24.79	1000.00	350.00	H	1.00	16.00
17951.16	---	43.85	54.00	10.15	1000.00	104.00	V	229.00	23.20
17951.16	57.16	---	74.00	16.84	1000.00	104.00	V	229.00	23.20

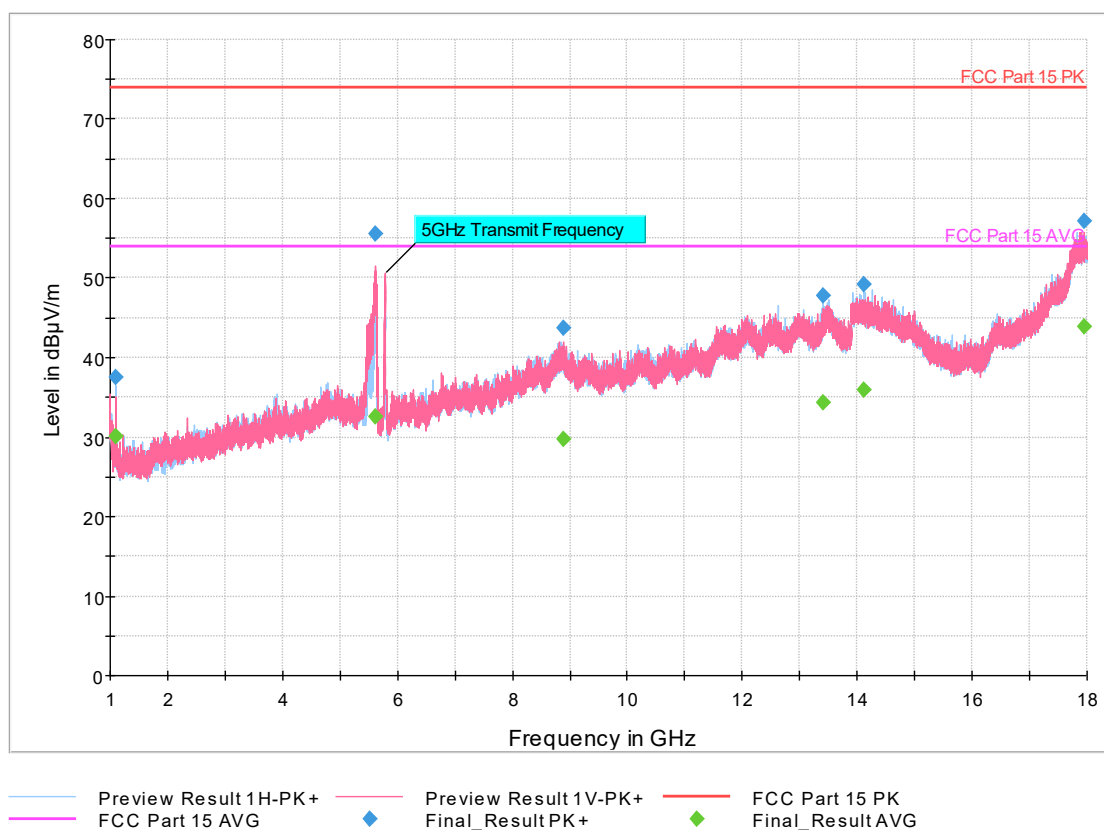


Figure 83: 1-18 GHz 802.11ax Mode 20 MHz, Mid Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1473.61	---	15.11	54.00	38.89	1000.00	354.00	V	57.00	-7.90
1473.61	29.58	---	74.00	44.42	1000.00	354.00	V	57.00	-7.90
5512.43	48.13	---	74.00	25.87	1000.00	155.00	V	23.00	4.40
5512.43	---	28.20	54.00	25.80	1000.00	155.00	V	23.00	4.40
5615.88	52.84	---	74.00	21.16	1000.00	100.00	V	-5.00	4.80
5615.88	---	30.31	54.00	23.69	1000.00	100.00	V	-5.00	4.80
8860.50	---	29.94	54.00	24.06	1000.00	100.00	V	287.00	10.30
8860.50	43.32	---	74.00	30.68	1000.00	100.00	V	287.00	10.30
14029.00	49.10	---	74.00	24.90	1000.00	100.00	V	29.00	15.60
14029.00	---	35.70	54.00	18.30	1000.00	100.00	V	29.00	15.60
17998.20	56.88	---	74.00	17.12	1000.00	100.00	V	213.00	22.80
17998.20	---	43.55	54.00	10.45	1000.00	100.00	V	213.00	22.80

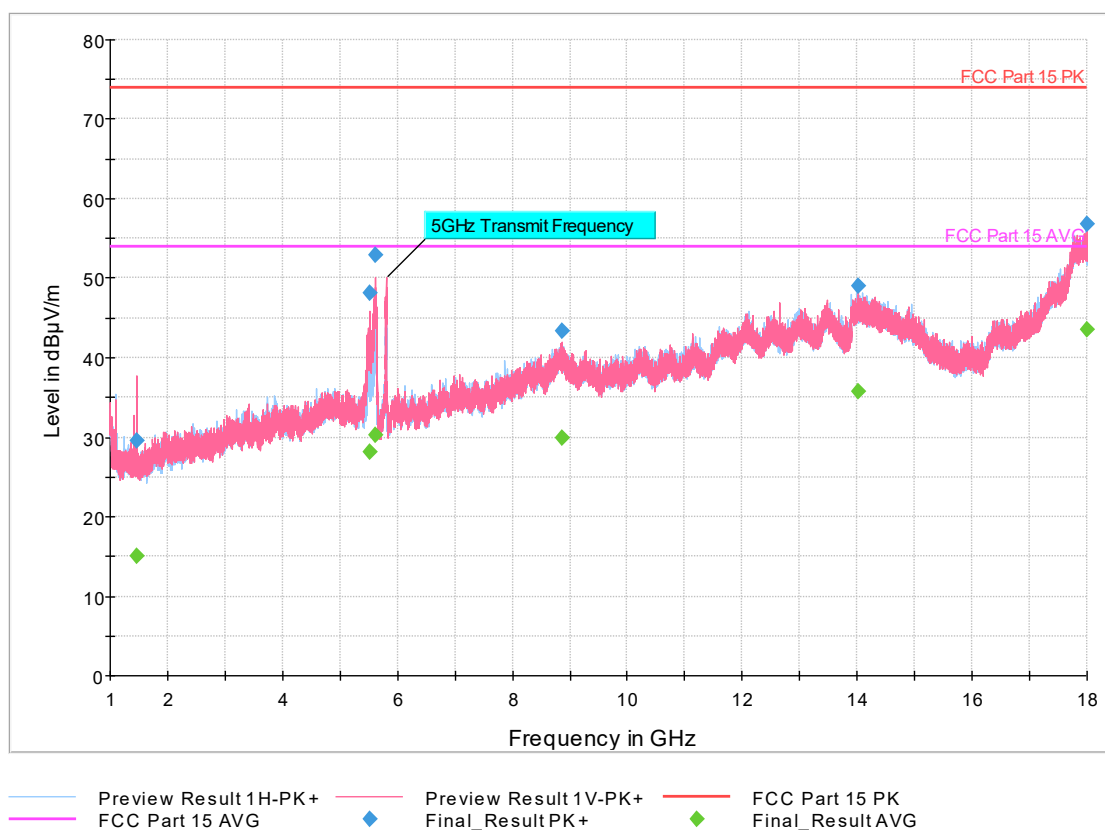


Figure 84: 1-18 GHz 802.11ax Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
22233.56	48.66	---	74.00	25.34	1000.00	150.00	V	197.00	0.80
22233.56	---	35.00	54.00	19.00	1000.00	150.00	V	197.00	0.80
27839.39	50.73	---	74.00	23.27	1000.00	100.00	V	309.00	5.30
27839.39	---	36.43	54.00	17.57	1000.00	100.00	V	309.00	5.30
30391.53	49.81	---	74.00	24.19	1000.00	250.00	V	124.00	6.20
30391.53	---	36.45	54.00	17.55	1000.00	250.00	V	124.00	6.20
33068.21	50.08	---	74.00	23.92	1000.00	150.00	H	261.00	6.40
33068.21	---	36.82	54.00	17.18	1000.00	150.00	H	261.00	6.40
34223.21	53.19	---	74.00	20.81	1000.00	105.00	H	57.00	7.80
34223.21	---	39.03	54.00	14.97	1000.00	105.00	H	57.00	7.80
39991.74	52.39	---	74.00	21.61	1000.00	253.00	H	72.00	8.10
39991.74	---	38.84	54.00	15.16	1000.00	253.00	H	72.00	8.10

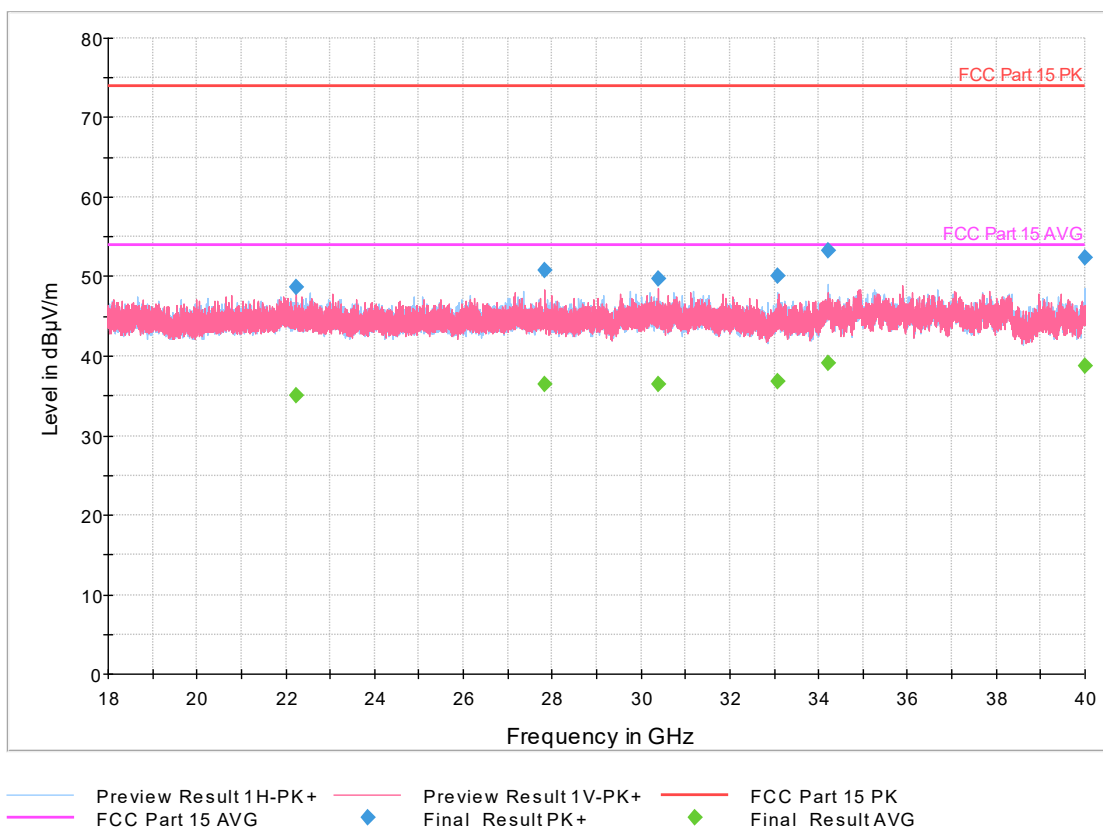


Figure 85: 18-40 GHz 802.11ax Mode 20 MHz, Low Channel

4.5.3.3 UNII-1 Radiated Spurious Emissions BF: Results and Plots

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.98	22.94	---	40.00	17.06	10000.00	120.00	100.00	V	68.00	-14.70
30.98	---	30.27	---	---	10000.00	120.00	100.00	V	68.00	-14.70
75.10	---	43.12	---	---	10000.00	120.00	105.00	V	192.00	-17.00
75.10	38.90	---	40.00	1.10	10000.00	120.00	105.00	V	192.00	-17.00
83.83	29.84	---	40.00	10.16	10000.00	120.00	100.00	V	303.00	-16.20
83.83	---	38.26	---	---	10000.00	120.00	100.00	V	303.00	-16.20
98.68	42.32	---	43.52	1.21	10000.00	120.00	100.00	V	170.00	-11.40
98.68	---	45.54	---	---	10000.00	120.00	100.00	V	170.00	-11.40
105.76	40.26	---	43.52	3.26	10000.00	120.00	100.00	V	352.00	-11.50
105.76	---	45.10	---	---	10000.00	120.00	100.00	V	352.00	-11.50
500.01	---	44.73	---	---	10000.00	120.00	155.00	H	159.00	-6.20
500.01	43.06	---	46.02	2.96	10000.00	120.00	155.00	H	159.00	-6.20

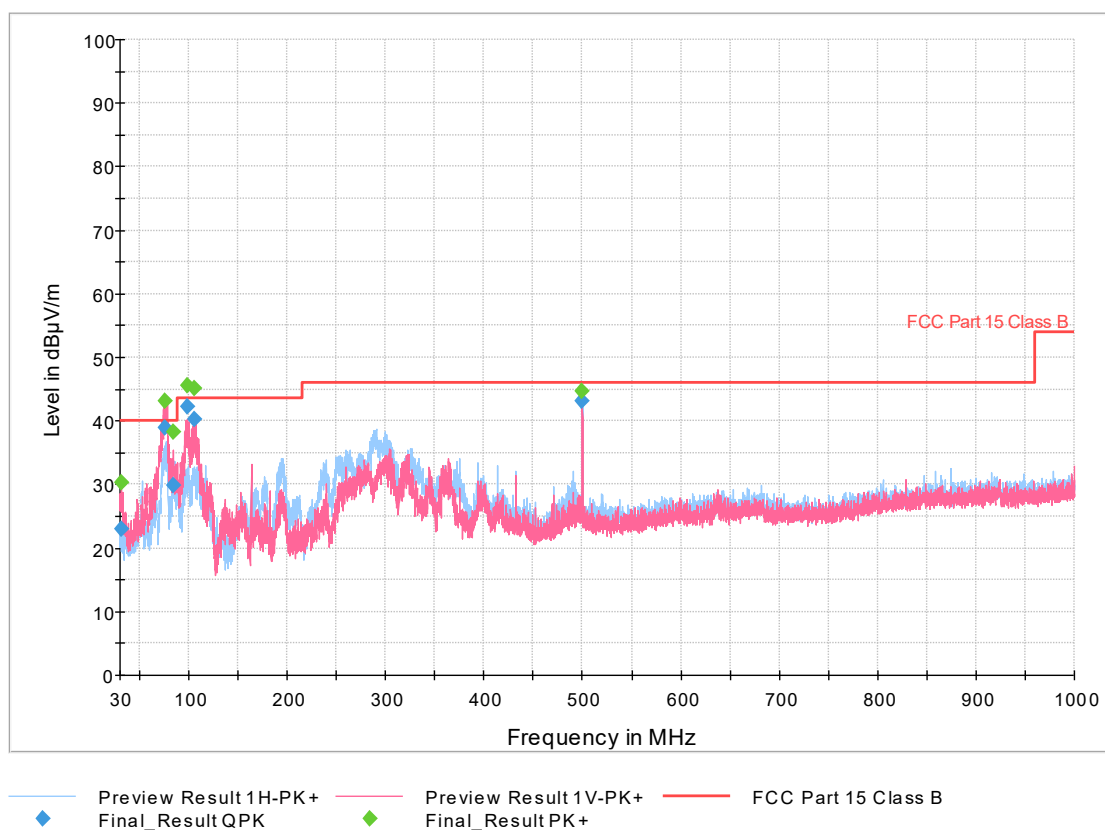


Figure 86: 30 MHz-1 GHz 802.11ax Mode 20 MHz, Mid Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.71	41.21	---	74.00	32.79	1000.00	100.00	H	226.00	-7.60
1093.71	---	34.43	54.00	19.57	1000.00	100.00	H	226.00	-7.60
2128.53	---	17.95	54.00	36.05	1000.00	340.00	H	-2.00	-3.50
2128.53	40.81	---	74.00	33.19	1000.00	340.00	H	-2.00	-3.50
5185.50	---	24.46	54.00	29.54	1000.00	100.00	H	-1.00	6.70
5185.50	52.40	---	74.00	21.60	1000.00	100.00	H	-1.00	6.70
8820.96	---	30.77	54.00	23.23	1000.00	155.00	V	-2.00	14.70
8820.96	44.20	---	74.00	29.80	1000.00	155.00	V	-2.00	14.70
14229.21	---	35.84	54.00	18.16	1000.00	330.00	H	-1.00	21.50
14229.21	49.25	---	74.00	24.75	1000.00	330.00	H	-1.00	21.50
17921.39	60.32	---	74.00	13.68	1000.00	236.00	H	-5.00	31.70
17921.39	---	46.99	54.00	7.01	1000.00	236.00	H	-5.00	31.70

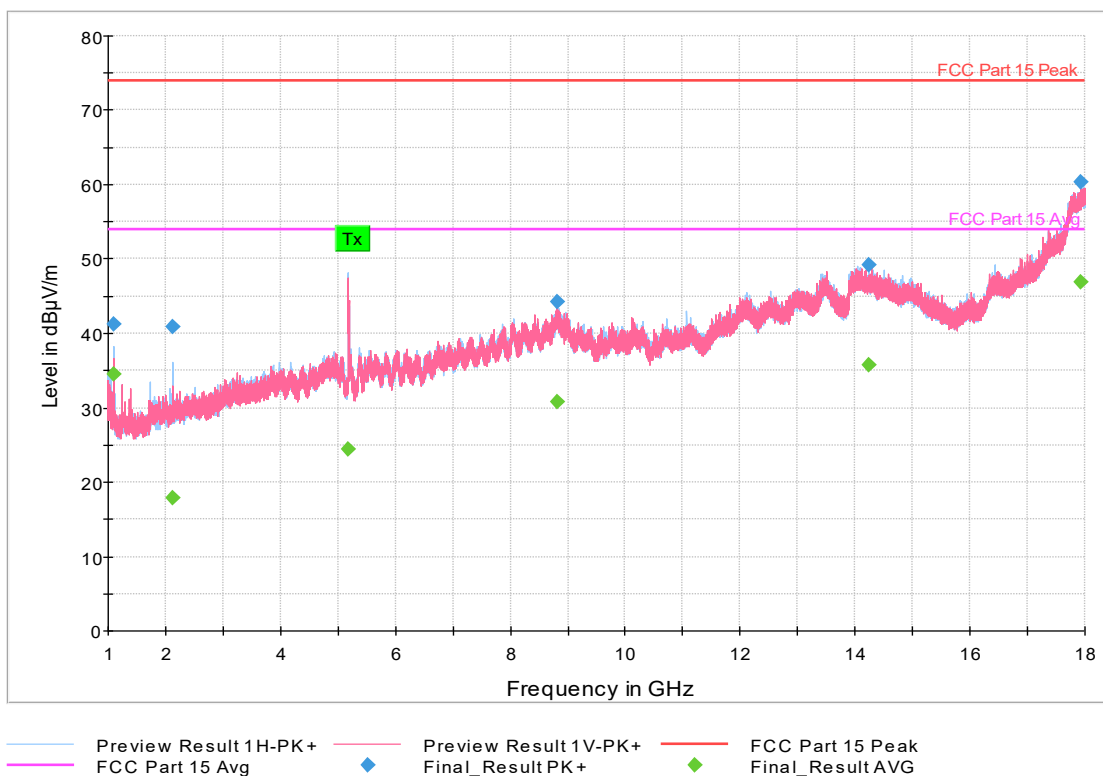


Figure 87: 1-18 GHz 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.84	37.24	---	74.00	36.76	1000.00	334.00	H	-5.00	-7.60
1093.84	---	29.41	54.00	24.59	1000.00	334.00	H	-5.00	-7.60
2123.22	---	17.94	54.00	36.06	1000.00	155.00	H	-5.00	-3.60
2123.22	39.13	---	74.00	34.87	1000.00	155.00	H	-5.00	-3.60
8736.50	---	29.86	54.00	24.14	1000.00	255.00	H	222.00	14.40
8736.50	43.79	---	74.00	30.21	1000.00	255.00	H	222.00	14.40
14228.63	49.39	---	74.00	24.61	1000.00	100.00	V	-2.00	21.40
14228.63	---	35.70	54.00	18.30	1000.00	100.00	V	-2.00	21.40
17463.00	54.75	---	74.00	19.25	1000.00	335.00	V	-2.00	27.10
17463.00	---	40.92	54.00	13.08	1000.00	335.00	V	-2.00	27.10
17954.50	61.00	---	74.00	13.00	1000.00	104.00	H	-3.00	32.00
17954.50	---	47.43	54.00	6.57	1000.00	104.00	H	-3.00	32.00

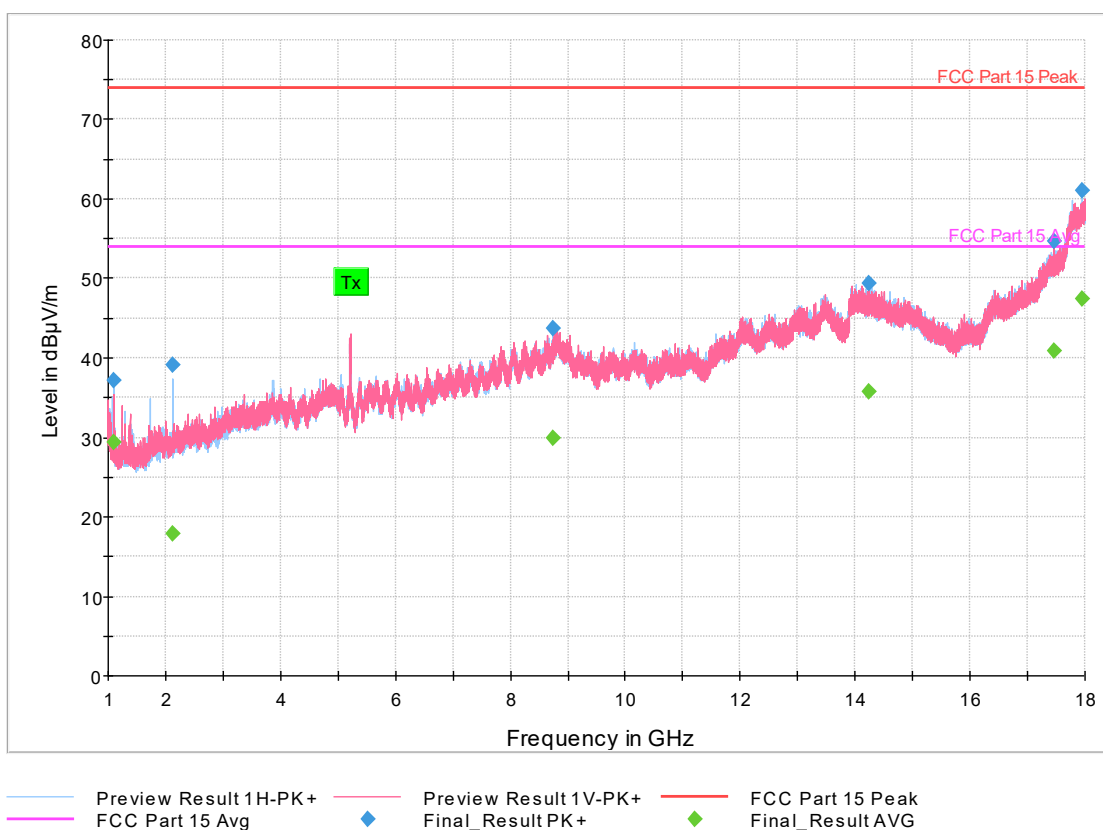


Figure 88: 1-18 GHz 802.11ax Mode 20 MHz, Mid Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.73	---	31.78	54.00	22.22	1000.00	104.00	H	-5.00	-7.60
1093.73	39.58	---	74.00	34.42	1000.00	104.00	H	-5.00	-7.60
1724.99	---	19.71	54.00	34.29	1000.00	155.00	H	-5.00	-5.10
1724.99	33.72	---	74.00	40.28	1000.00	155.00	H	-5.00	-5.10
2130.70	---	18.04	54.00	35.96	1000.00	255.00	H	347.00	-3.50
2130.70	39.78	---	74.00	34.22	1000.00	255.00	H	347.00	-3.50
8442.50	---	29.67	54.00	24.33	1000.00	330.00	V	173.00	14.10
8442.50	43.23	---	74.00	30.77	1000.00	330.00	V	173.00	14.10
14170.00	49.62	---	74.00	24.38	1000.00	100.00	H	-5.00	21.50
14170.00	---	35.96	54.00	18.04	1000.00	100.00	H	-5.00	21.50
17961.33	61.24	---	74.00	12.76	1000.00	100.00	H	-5.00	31.90
17961.33	---	47.53	54.00	6.47	1000.00	100.00	H	-5.00	31.90

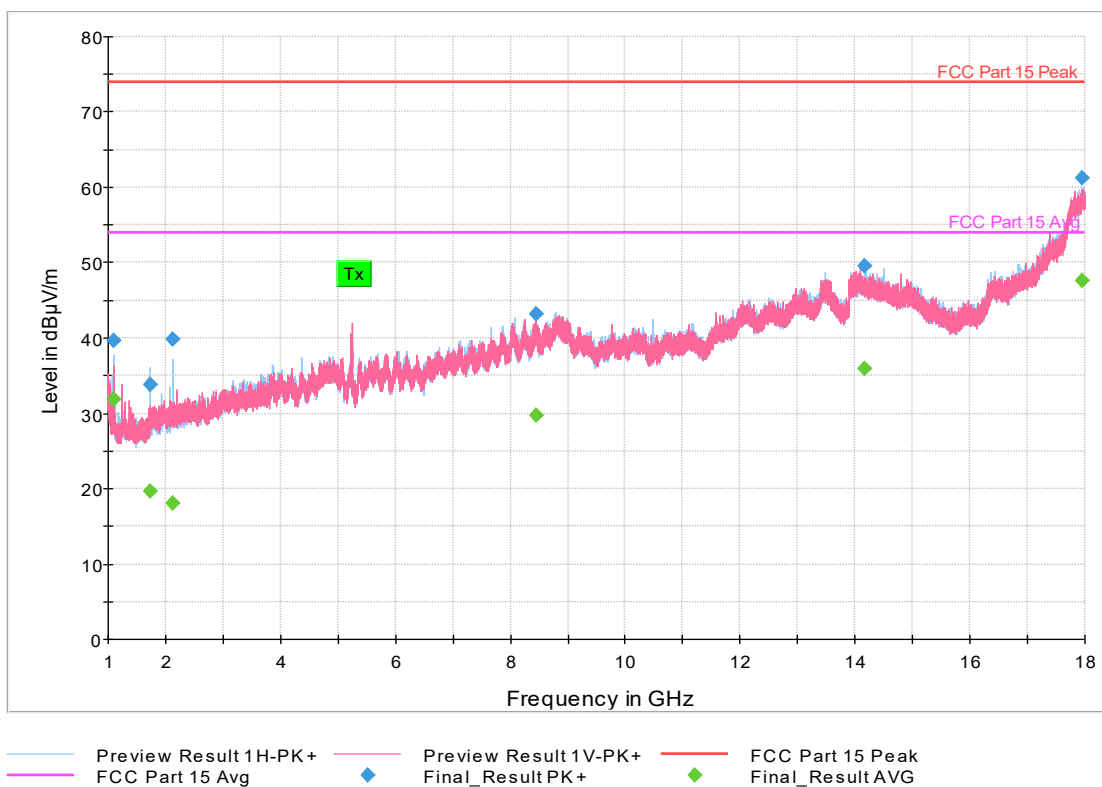


Figure 89: 1-18 GHz 802.11ax Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21975.68	---	35.69	54.00	18.31	1000.00	256.00	H	259.00	0.80
21975.68	49.19	---	74.00	24.81	1000.00	256.00	H	259.00	0.80
25758.68	49.14	---	74.00	24.86	1000.00	106.00	V	124.00	4.50
25758.68	---	35.57	54.00	18.43	1000.00	106.00	V	124.00	4.50
29723.26	50.04	---	74.00	23.96	1000.00	150.00	V	123.00	5.70
29723.26	---	36.10	54.00	17.90	1000.00	150.00	V	123.00	5.70
34915.91	---	39.83	54.00	14.17	1000.00	103.00	V	-5.00	7.60
34915.91	53.04	---	74.00	20.96	1000.00	104.00	V	-5.00	7.60
38314.00	---	38.90	54.00	15.10	1000.00	154.00	V	321.00	6.40
38314.00	52.44	---	74.00	21.56	1000.00	154.00	V	321.00	6.40

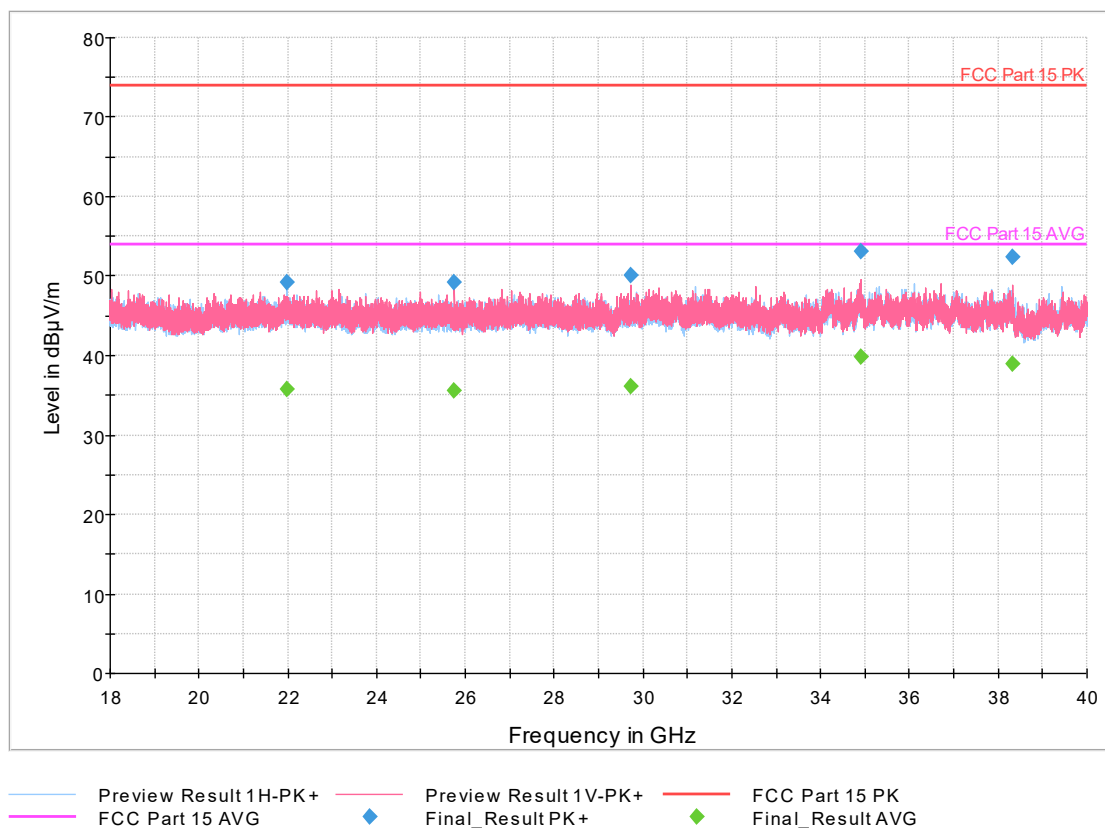


Figure 90: 18-40 GHz 802.11ax Mode 20 MHz, Mid Channel

4.5.3.4 UNII-3 Radiated Spurious Emissions BF: Results and Plots

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.50	---	34.99	---	---	10000.00	120.00	103.00	V	177.00	-16.50
71.50	30.02	---	40.00	9.98	10000.00	120.00	103.00	V	177.00	-16.50
77.82	---	40.75	---	---	10000.00	120.00	154.00	V	173.00	-17.10
77.82	38.66	---	40.00	1.34	10000.00	120.00	154.00	V	173.00	-17.10
91.97	---	40.51	---	---	10000.00	120.00	103.00	V	-5.00	-13.00
91.97	36.50	---	43.52	7.02	10000.00	120.00	103.00	V	-5.00	-13.00
97.70	---	43.32	---	---	10000.00	120.00	103.00	V	166.00	-11.50
97.70	40.21	---	43.52	3.31	10000.00	120.00	103.00	V	166.00	-11.50
288.85	---	42.22	---	---	10000.00	120.00	100.00	H	129.00	-10.80
288.85	38.24	---	46.02	7.78	10000.00	120.00	100.00	H	129.00	-10.80
500.01	---	45.05	---	---	10000.00	120.00	154.00	H	-1.00	-6.20
500.01	43.74	---	46.02	2.28	10000.00	120.00	154.00	H	-1.00	-6.20

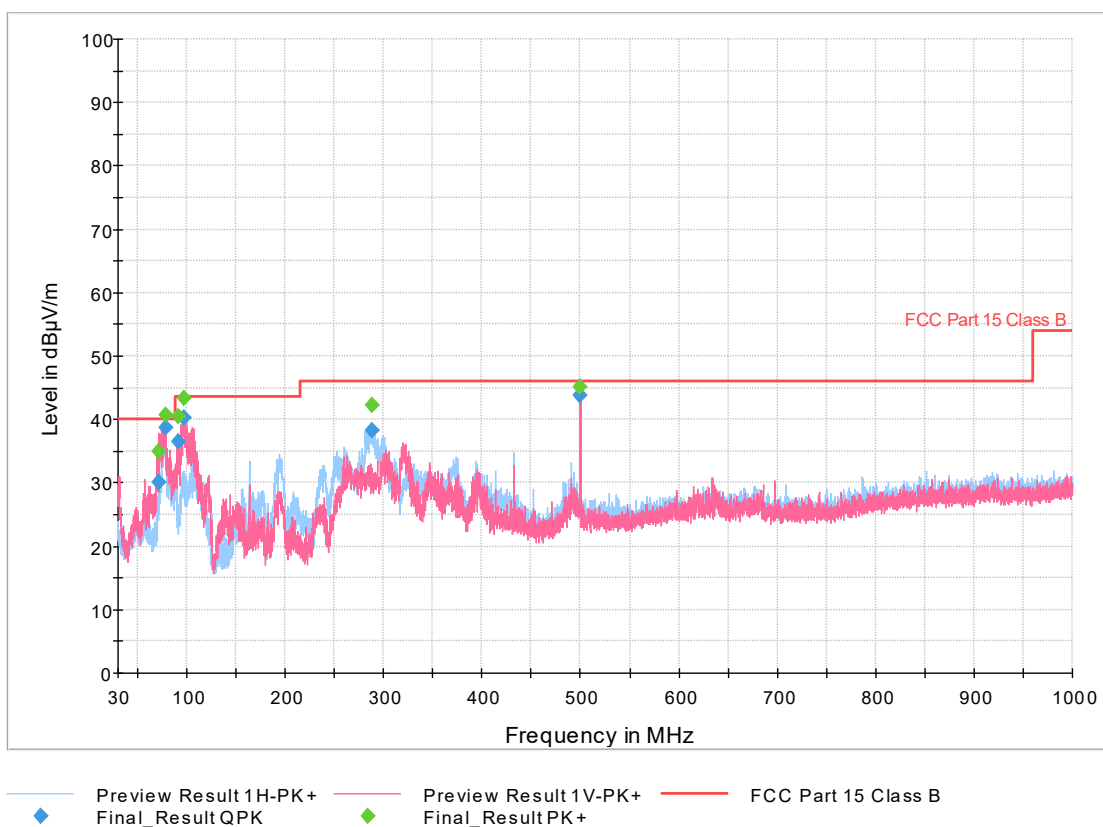


Figure 91: 30 MHz-1 GHz 802.11ax Mode 20 MHz, Low Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.72	---	31.63	54.00	22.37	1000.00	106.00	H	-5.00	-7.60
1093.72	39.45	---	74.00	34.55	1000.00	106.00	H	-5.00	-7.60
3856.73	---	33.08	54.00	20.92	1000.00	100.00	H	145.00	3.30
3856.73	40.66	---	74.00	33.34	1000.00	100.00	H	145.00	3.30
5494.77	45.85	---	74.00	28.15	1000.00	336.00	V	-1.00	7.00
5494.77	---	24.52	54.00	29.48	1000.00	336.00	V	-1.00	7.00
5589.63	53.14	---	74.00	20.86	1000.00	234.00	V	-5.00	7.30
5589.63	---	24.95	54.00	29.05	1000.00	234.00	V	-5.00	7.30
13988.22	---	35.90	54.00	18.10	1000.00	335.00	H	-1.00	20.80
13988.22	50.24	---	74.00	23.76	1000.00	335.00	H	-1.00	20.80
17951.22	---	47.50	54.00	6.50	1000.00	336.00	H	-5.00	32.00
17951.22	61.61	---	74.00	12.39	1000.00	336.00	H	-5.00	32.00

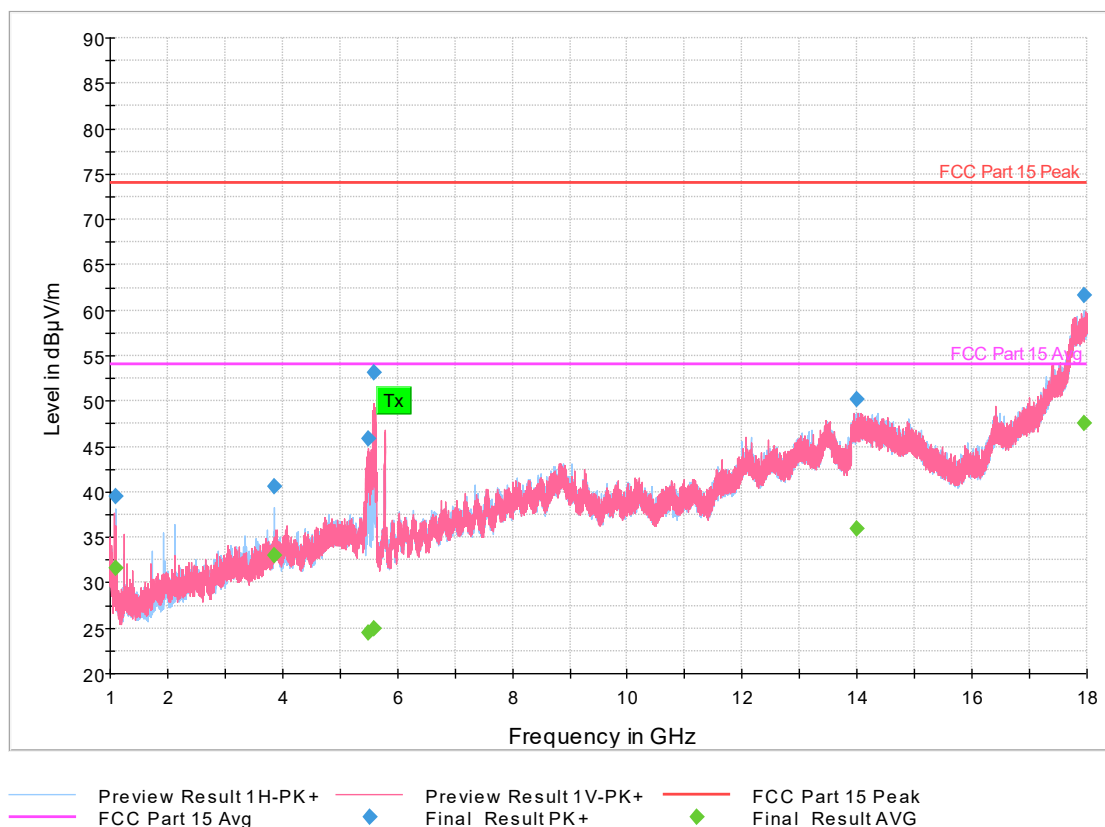


Figure 93: 1-18 GHz 802.11ax Mode 20 MHz, Mid Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.77	---	31.72	54.00	22.28	1000.00	105.00	H	-5.00	-7.60
1093.77	39.91	---	74.00	34.09	1000.00	105.00	H	-5.00	-7.60
2658.50	---	19.01	54.00	34.99	1000.00	150.00	V	-1.00	-1.90
2658.50	35.62	---	74.00	38.38	1000.00	150.00	V	-1.00	-1.90
5602.34	---	25.13	54.00	28.87	1000.00	236.00	V	-5.00	7.40
5602.34	49.15	---	74.00	24.85	1000.00	236.00	V	-5.00	7.40
8481.20	---	29.88	54.00	24.12	1000.00	336.00	V	-2.00	14.00
8481.20	43.21	---	74.00	30.79	1000.00	336.00	V	-2.00	14.00
14300.72	49.42	---	74.00	24.58	1000.00	350.00	H	-2.00	22.00
14300.72	---	35.95	54.00	18.05	1000.00	350.00	H	-2.00	22.00
17975.80	61.02	---	74.00	12.98	1000.00	105.00	V	19.00	31.90
17975.80	---	47.58	54.00	6.42	1000.00	105.00	V	19.00	31.90

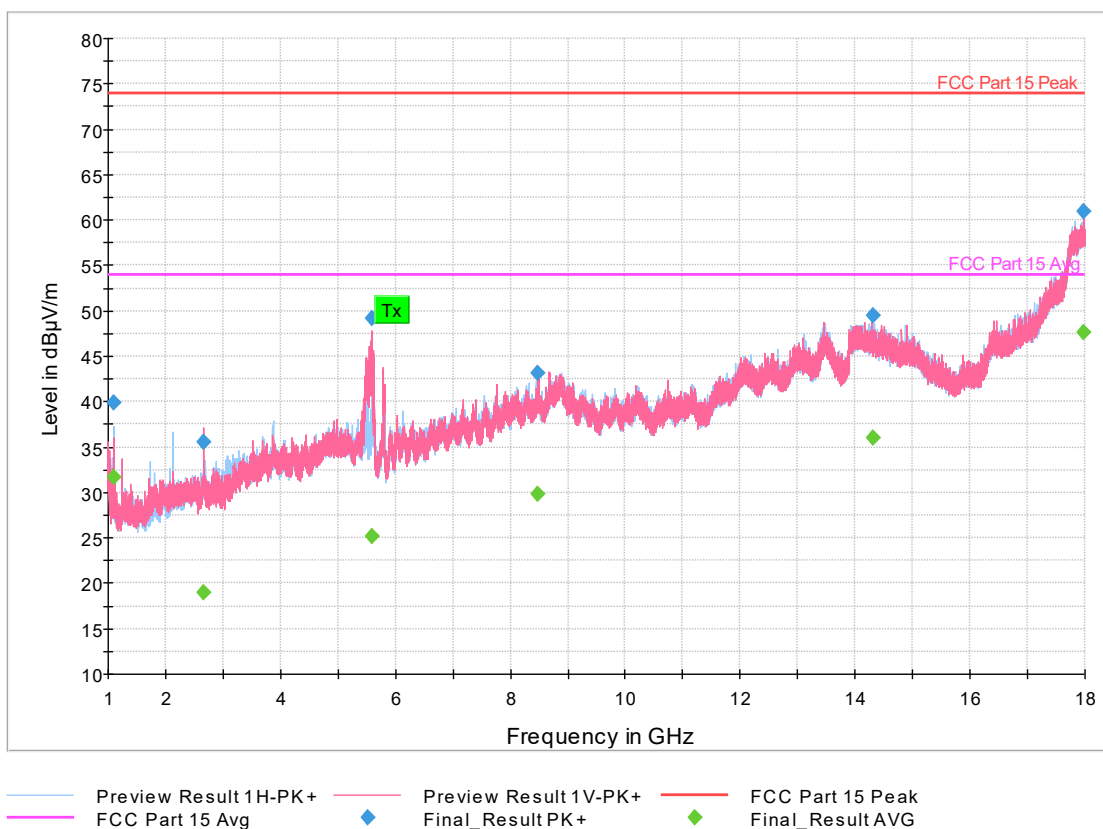


Figure 94: 1-18 GHz 802.11ax Mode 20 MHz, High Channel

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21972.13	49.39	---	74.00	24.61	1000.00	150.00	V	312.00	0.80
21972.13	---	35.67	54.00	18.33	1000.00	150.00	V	312.00	0.80
22959.21	48.29	---	74.00	25.71	1000.00	150.00	V	110.00	0.90
22959.21	---	34.86	54.00	19.14	1000.00	150.00	V	110.00	0.90
26045.03	49.71	---	74.00	24.29	1000.00	109.00	H	140.00	4.70
26045.03	---	35.89	54.00	18.11	1000.00	109.00	H	140.00	4.70
30796.02	51.13	---	74.00	22.87	1000.00	103.00	H	57.00	5.70
30796.02	---	36.84	54.00	17.16	1000.00	103.00	H	57.00	5.70
34941.60	---	39.77	54.00	14.23	1000.00	150.00	H	72.00	7.60
34941.60	53.32	---	74.00	20.68	1000.00	150.00	H	72.00	7.60
38282.56	---	39.15	54.00	14.85	1000.00	150.00	V	101.00	6.60
38282.56	52.66	---	74.00	21.34	1000.00	150.00	V	101.00	6.60

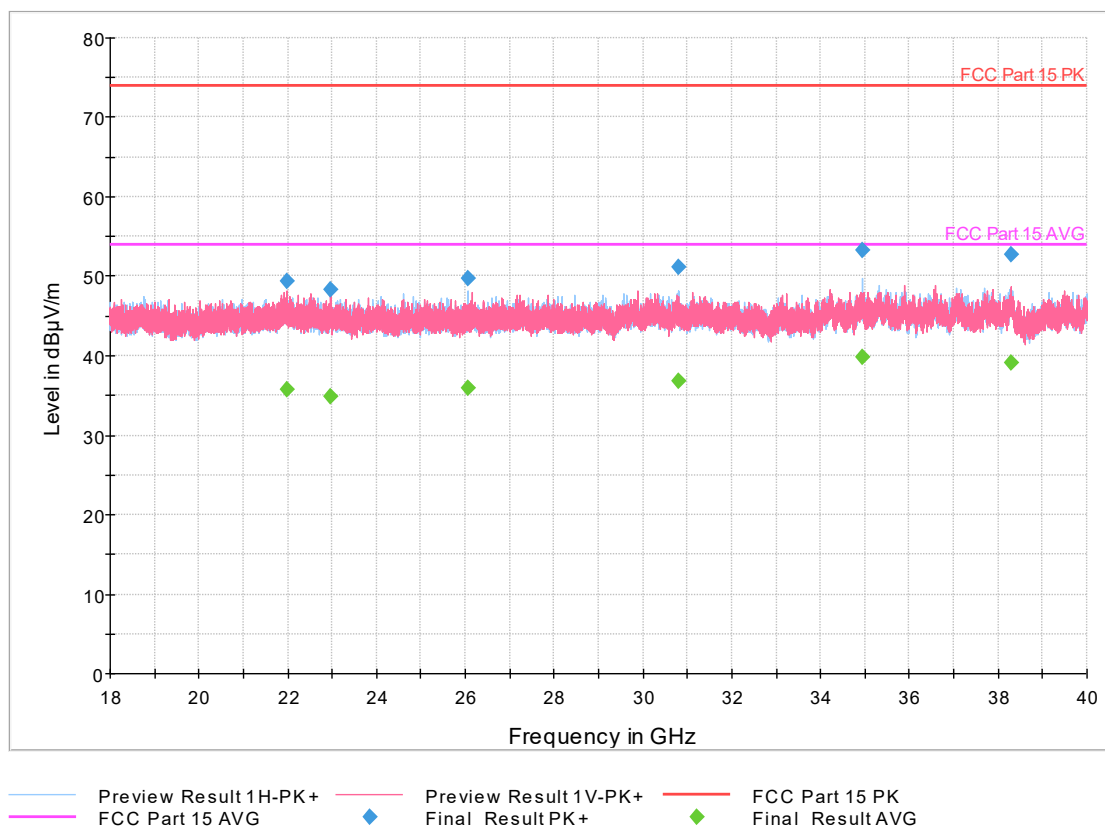


Figure 95: 18-40 GHz 802.11ax Mode 20 MHz, Low Channel

4.6 AC Conducted Emissions

Testing was performed in accordance with ANSI C63.4: 2014. These test methods are listed under the laboratory's A2LA Scope of Accreditation.

This test measures the levels emanating from the EUT's AC input port, thus evaluating the potential for the EUT to cause radio frequency interference to other electronic devices.

The AC conducted emissions of equipment under test shall not exceed the values in CFR47 Part 15.207: 2021.

4.6.1 Test Methodology

A test program that controls instrumentation and data logging was used to automate the AC Power Line Conducted emission test procedure. The frequency range of interest was divided into sub-ranges such as to yield a frequency resolution of 9 kHz. Each phase and neutral of the AC power line were measured with respect to ground. Measurements were performed using a set of 50 μ H / 50 Ω LISNs.

The vertical ground plane used in the semi-anechoic chamber is a 2m x 2m solid aluminum frame and panel, and it is bonded to the horizontal ground plane.

In the case of tabletop equipment, the EUT is placed on a 1.0m x 1.5m non-conductive table 80cm above the ground plane and 40cm from a vertical ground reference plane. The rear of the EUT was positioned flush with the backside of the table and directly over the LISNs. The power and I/O cables were routed over the edge of the table and bundled approximately 40cm from the ground plane. Support equipment was powered from a separate LISN.

4.6.1.1 Deviations

There were no deviations from this test methodology.

4.6.2 Test Results

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Line	PE	Corr. (dB)
0.15	---	36.40	55.87	19.47	10000.00	N	GND	10.10
0.15	49.63	---	65.87	16.24	10000.00	N	GND	10.10
0.19	---	31.22	54.01	22.79	10000.00	N	GND	10.10
0.19	45.68	---	64.01	18.33	10000.00	N	GND	10.10
4.92	---	16.18	46.00	29.82	10000.00	N	GND	10.10
4.92	36.37	---	56.00	19.63	10000.00	N	GND	10.10
7.97	---	28.11	50.00	21.89	10000.00	N	GND	10.10
7.97	39.33	---	60.00	20.67	10000.00	N	GND	10.10
8.51	---	28.08	50.00	21.92	10000.00	N	GND	10.20
8.51	41.20	---	60.00	18.80	10000.00	N	GND	10.20
10.47	---	27.42	50.00	22.58	10000.00	N	GND	10.20
10.47	43.59	---	60.00	16.41	10000.00	N	GND	10.20
11.00	---	25.76	50.00	24.24	10000.00	N	GND	10.20
11.00	42.22	---	60.00	17.78	10000.00	N	GND	10.20
29.72	---	21.98	50.00	28.02	10000.00	N	GND	10.40
29.72	37.11	---	60.00	22.89	10000.00	N	GND	10.40

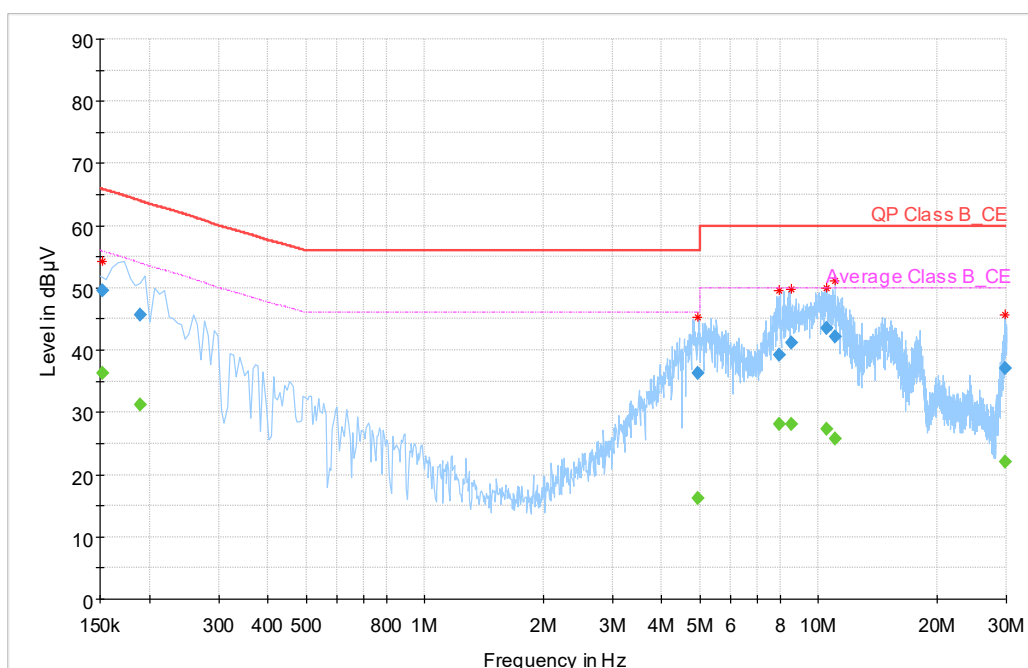


Figure 96: AC Conducted Emissions, 120VAC 60 Hz, Neutral Line

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Line	PE	Corr. (dB)
0.15	50.95	---	66.00	15.05	10000.00	L1	GND	10.10
0.15	---	38.61	56.00	17.39	10000.00	L1	GND	10.10
0.15	50.66	---	65.98	15.31	10000.00	L1	GND	10.10
0.15	---	38.31	55.98	17.67	10000.00	L1	GND	10.10
0.21	---	26.66	53.04	26.38	10000.00	L1	GND	10.00
0.21	42.43	---	63.04	20.61	10000.00	L1	GND	10.00
4.72	---	15.48	46.00	30.52	10000.00	L1	GND	10.00
4.72	35.57	---	56.00	20.43	10000.00	L1	GND	10.00
5.25	---	17.13	50.00	32.87	10000.00	L1	GND	10.00
5.25	36.82	---	60.00	23.18	10000.00	L1	GND	10.00
8.13	---	28.79	50.00	21.21	10000.00	L1	GND	10.10
8.13	40.54	---	60.00	19.46	10000.00	L1	GND	10.10
10.72	---	26.44	50.00	23.56	10000.00	L1	GND	10.10
10.72	43.04	---	60.00	16.96	10000.00	L1	GND	10.10
12.14	---	20.42	50.00	29.58	10000.00	L1	GND	10.10
12.14	37.88	---	60.00	22.12	10000.00	L1	GND	10.10
29.86	---	23.35	50.00	26.65	10000.00	L1	GND	10.00
29.86	38.24	---	60.00	21.76	10000.00	L1	GND	10.00

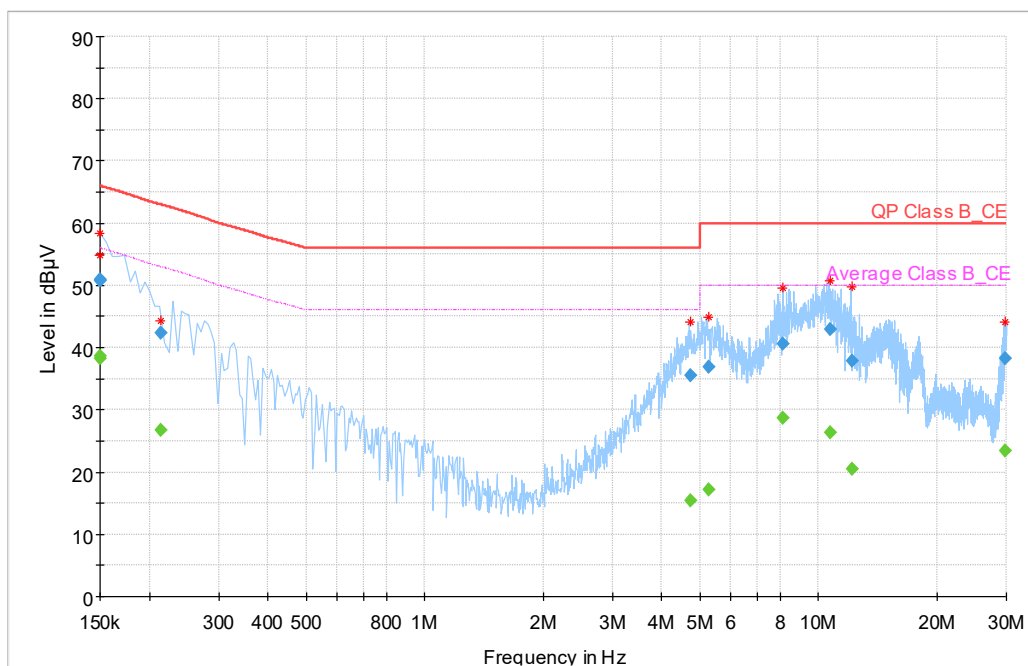


Figure 97: AC Conducted Emissions, 120VAC 60 Hz, Live Line

5 Test Equipment List

5.1 Equipment List

Inventory number	Equipment	Type	Manufacturer	Last calibration	Calibration due date
9046757	Bilog; Attenuator	VULB 9163	Schwarzbeck Mess Elektronik	06/07/2022	06/07/2024
9017943	Broadband Trilog Antenna, 30 MHz - 7 GHz	VULB 9162	Maturo	03-24-2023	03-24-2025
9017639	Preamplifier, 30 MHz - 8 GHz	TS-PR8	Rohde & Schwarz	02/22/2024	02/22/2025
G1700070	Horn Antenna 1 – 18 GHz	3115	EMCO	03/30/2023	03/30/2025
9018047	Pre-amp 1 – 18 GHz	TS-PR18	Rohde & Schwarz	02/27/2024	02/27/2025
9041786	Horn Antenna 18- 40 GHz	180-442-KF	L3 Narda	06/20/2022	06/20/2024
9018046	Pre-amp 18- 40 GHz	TS-PR1840	Rohde & Schwarz	02-27-2024	02-27-2025
9018108	ESW44 EMI Test Receiver 2 Hz to 44 GHz	ESW44	Rohde & Schwarz	02/21/2024	02/21/2025
9043170	FSV Signal Analyzer	FSV	Rohde & Schwarz	02/22/2024	02/22/2025
G1701026	Transient Limiter	11947A	Agilent	02/22/2024	02/22/2025
G1700882	EMI Test Receiver	ESI	Rohde & Schwarz	02/21/2024	02/21/2025
9042125	Line Impedance Stabilization Network	L1-220C	Com-Power Corp	02/22/2024	02/22/2025
BRC50703	5150 – 5350 MHz Notch Filter	BRC50703	Micro-Tronics	N/A (See Note)	
BRC50704	5470 – 5725 MHz Notch Filter	BRC50704	Micro-Tronics	N/A (See Note)	
BRC50705	5725 – 5875 MHz Notch Filter	BRC50705	Micro-Tronics	N/A (See Note)	
BRM50702	2.4 GHz Notch Filter	BRM50702	Micro-Tronics	N/A (See Note)	
9041270	Power Meter	NRX	Rohde & Schwarz	02/26/2024	02/26/2025
9041273	Power Sensor	NRP6A	Rohde & Schwarz	02/26/2024	02/26/2025
9041274	Power Sensor	NRP6A	Rohde & Schwarz	02/26/2024	02/26/2025

Note: Equipment is characterized before use.

* Calibration of equipment past due for re-calibration will be performed expeditiously. If any equipment is found to be out of tolerance at that time, affected customers will be notified accordingly.

VBU = Verify Before Use.

6 EMC Test Plan

6.1 Introduction

This section provides a description of the Equipment Under Test (EUT), configurations, operating conditions, and performance acceptance criteria. It is an overview of information provided by the manufacturer so that the test laboratory may perform the requested testing.

6.2 Customer

Table 5: Customer Information

Company Name	Omnifi Inc.
Address	6801 Koll Center Pkwy. Ste. 145
City, State, Zip	Pleasanton, CA 94566
Country	U.S.A.
Phone	(925) 237-1185

Table 6: Technical Contact Information

Name	John Schmit
E-mail	john@omnifi.io
Phone	(925) 237-1185

6.3 Equipment Under Test (EUT)

Table 7: EUT Specifications *

EUT Specifications	
DC Input	12 VDC-60 VDC: 1.25 A at 12V, 250 mA at 60 V, 15 W
Environment (Indoor / Outdoor)	Indoor
Operating Temperature Range:	0 – 65 °C
Multiple Feeds:	☒ Yes and how many 2 ☐ No Note: 5GHz Low 5150 – 5350 MHz with 2 multiple RF ports, 5GHz High: 5470 – 5850 MHz with 2 multiple RF ports.
Product Marketing Name (PMN)	Omnifi Wi-Fi Node
Model No.	OWI2GB-55
Hardware Version Identification Number (HVIN)	2023
Firmware Version Identification Number (FVIN)	6.5.3ga
Operating Modes	802.11a (20 MHz Bandwidth) 802.11n HT20 (20 MHz Bandwidth) 802.11ax HE20 (20 MHz Bandwidth) 802.11ac VHT20 (20 MHz Bandwidth) 802.11n HT40 (40 MHz Bandwidth) 802.11ax HE40 (40 MHz Bandwidth) 802.11ac VHT40 (40 MHz Bandwidth) 802.11ax HE80 (80 MHz Bandwidth) 802.11ac VHT80 (80 MHz Bandwidth) 802.11ax HE160 (160 MHz Bandwidth) 802.11ac VHT160 (160 MHz Bandwidth)
Transmitter Frequency Band	5.15-5.25 GHz, U-NII-1 Band 5.725-5.85 GHz, U-NII-3 Band
Power Settings	See Table 8
Antenna Type	Molex 208482-0150 2.4/5GHz Omnidirectional, U-NII-1 Band Molex 208482-0100 2.4/5GHz Omnidirectional, U-NII-3 Band Molex 208482-0200 2.4/5GHz Omnidirectional, U-NII-1 Band
Antenna Gain (dBi)	5.7 dBi, U-NII-1 Band 5.9 dBi, U-NII-3 Band 5.4 dBi, U-NII-1 Band
Modulation Type	☐ BLE ☒ DSSS ☒ OFDM ☐ Other describe:
Directional Gain Type	☒ Correlated ☒ Uncorrelated ☐ Other describe:
Type of Equipment	☒ Table Top ☐ Wall-mount ☐ Floor standing cabinet ☐ Other:
*All EUT specifications are provided by the manufacturer or the TUV direct customer. Note: Information supplied by the customer and can affect the validity of results.	

Table 8: EUT Channel Power Specifications

FCC											
Freq. (MHz)	802.11a 20	802.11n HT20	802.11ax HE20	802.11ac HE20	802.11n HT40	802.11ax HE40	802.11ac VHT40	802.11ax HE80	802.11ac VHT80	802.11ax HE160	802.11ac VHT160
Power Setting: Uncorrelated mode											
5180	94	91	96	105							
5220	94	91	96	105							
5240	94	91	96	105							
5190					86	85	84				
5230					86	85	84				
5210								84	83		
5250										72	78
5745	112	112	112	112							
5785	112	112	112	112							
5805	112	112	112	112							
5755					97	99	98				
5795					97	99	98				
5775								94	94		
Freq. (MHz)	802.11a 20	802.11n HT20	802.11ax HE20	802.11ac HE20	802.11n HT40	802.11ax HE40	802.11ac VHT40	802.11ax HE80	802.11ac VHT80	802.11ax HE160	802.11ac VHT160
Power Setting: Beamforming mode											
5180	91	92	91	92							
5220	91	92	91	92							
5240	91	92	91	92							
5190					89	89	88				
5230					89	89	88				
5210								90	87		
5250										75	75
5745	95	96	95	95							
5785	95	96	95	95							
5805	95	96	95	95							
5755					90	87	88				
5795					90	87	88				
5775								74	75		

Table 9: Antenna Information

Number	Antenna Type	Max Gain (dBi)	
		5150-5250 MHz	5725-5850 MHz
Molex 208482-0150	Omni	5.7	-
Molex 208482-0100	Omni	-	5.9

Table 10: Interface Specifications

Interface Type	Cabled with what type of cable?	Is the cable shielded?	Maximum potential length of the cable?	Metallic (M), Coax (C), Fiber (F), or Not Applicable?
Ethernet Upstream	Terminated to laptop	☒ Yes	☒ Metric: >3m	☒ N/A
Ethernet Downstream	Terminated to laptop	☒ Yes	☒ Metric: >3m	☒ N/A

Table 11: Supported Equipment

Equipment	Manufacturer	Model	Serial	Used for
Laptop	Lenovo	X1	-	Set test mode
AC/DC Power Supply	CUI Inc	SDI65-24-U	SDI65-24-U-P6	Conducted Emissions

Table 12: Description of Sample used for Testing

Device	Serial Number	Configuration	Used For
OWI2GB-55	0M0003	Radiated Sample	Radiated Emissions, Conducted Emissions
OWI2GB-55	0M0011	Conducted Sample	Output Power, Occupied Bandwidth, Peak Power Spectral Density
Note: None			

Table 13: Description of Test Configuration used for Radiated Measurement.

Device	Antenna	Mode	Setup Description
OWI2GB-55	External	Transmit	positioned tabletop.
Note: This is the final setup configuration used for testing on its normal positioned.			

6.4 Test Specifications

Table 14: Test Specifications

Emissions	
Regulation Rules / Standards	Requirement
CFR 47 Part 15.407	All

END OF REPORT