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 15.205:2020, 15.209:2020, 15.407(b):2020, RSS 247 Sect. 6:2017, RSS GEN Sect.8.9 and 8.10:2019

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, data rate / chains for 802.11a, 802.11n (HT20 and HT40) and 802.11ac (VHT80).

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.

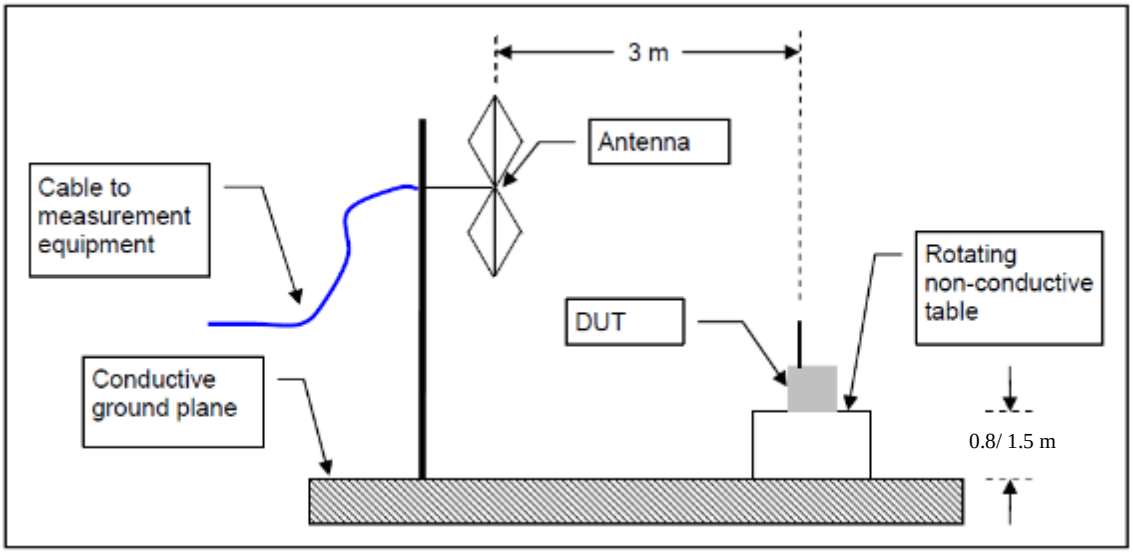
Final results are:

> 802.11a at 6 Mbps and 802.11n (HT20 and HT40) at MCS0 and 802.11ac (VHT20, VHT40, and VHT80) at MCS0.

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, RSS 247 Sect. 6, RSS GEN Sect. 8.9 and 8.10

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) and RSS 247 Sect. 6.2, 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.

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). No spurious emissions were detected below 30MHz or above 18GHz.

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5318.630000	---	100.55	160.00	59.45	10000.0	1000.000	154.0	V	251.0
5318.630000	111.48	---	160.00	48.52	10000.0	1000.000	154.0	V	251.0
5350.010000	---	53.30	54.00	0.70	10000.0	1000.000	153.0	V	254.0
5350.010000	73.30	---	74.00	0.70	10000.0	1000.000	153.0	V	254.0
5360.285000	---	43.11	54.00	10.89	10000.0	1000.000	250.0	V	260.0
5360.285000	64.32	---	74.00	9.68	10000.0	1000.000	250.0	V	260.0
5371.040000	---	37.26	54.00	16.74	10000.0	1000.000	250.0	V	260.0
5371.040000	54.98	---	74.00	19.02	10000.0	1000.000	250.0	V	260.0
5432.570000	---	28.73	54.00	25.27	10000.0	1000.000	253.0	V	-2.0
5432.570000	42.95	---	74.00	31.05	10000.0	1000.000	253.0	V	-2.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

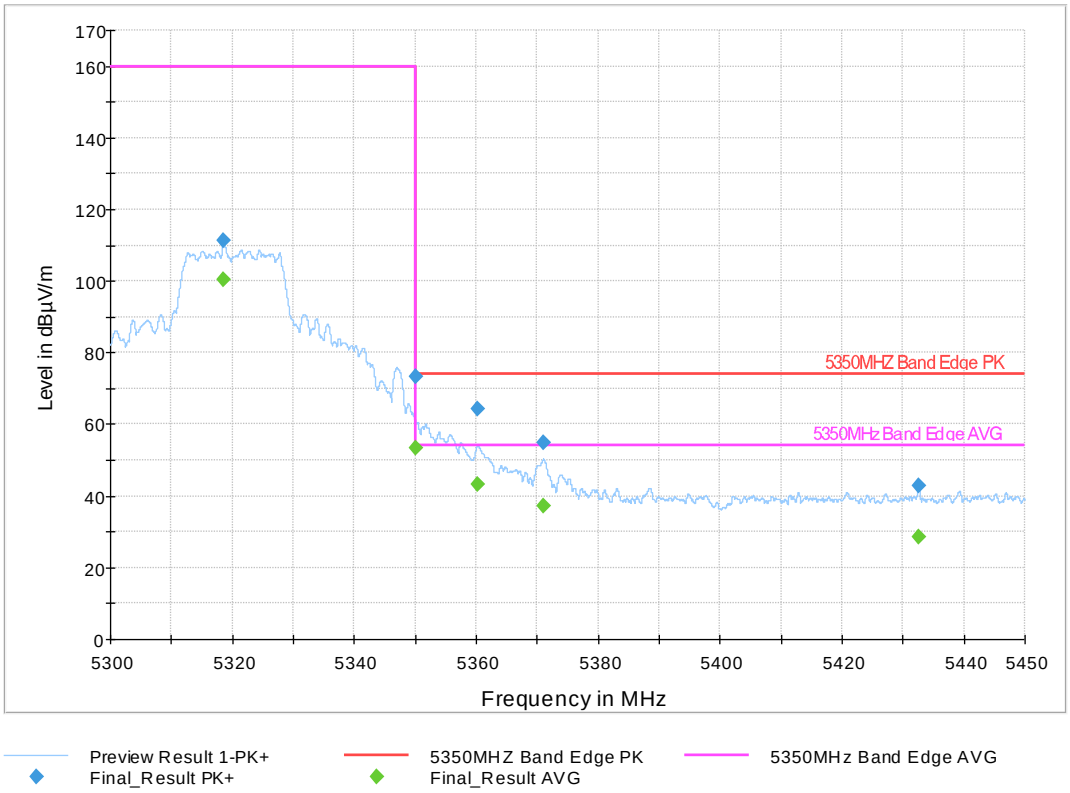


Figure 65: Radiated Band Edge – 802.11a UNII-2A High Channel 5320MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5326.880000	---	98.86	160.00	61.14	10000.0	1000.000	154.0	V	253.0
5326.880000	110.49	---	160.00	49.51	10000.0	1000.000	154.0	V	253.0
5350.010000	---	46.14	54.00	7.86	10000.0	1000.000	154.0	V	256.0
5350.010000	72.13	---	74.00	1.87	10000.0	1000.000	154.0	V	256.0
5353.700000	---	42.28	54.00	11.72	10000.0	1000.000	150.0	V	262.0
5353.700000	67.22	---	74.00	6.78	10000.0	1000.000	150.0	V	262.0
5361.695000	---	36.71	54.00	17.29	10000.0	1000.000	154.0	V	251.0
5361.695000	58.72	---	74.00	15.28	10000.0	1000.000	154.0	V	251.0
5416.085000	---	28.95	54.00	25.05	10000.0	1000.000	250.0	V	146.0
5416.085000	43.92	---	74.00	30.08	10000.0	1000.000	250.0	V	146.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

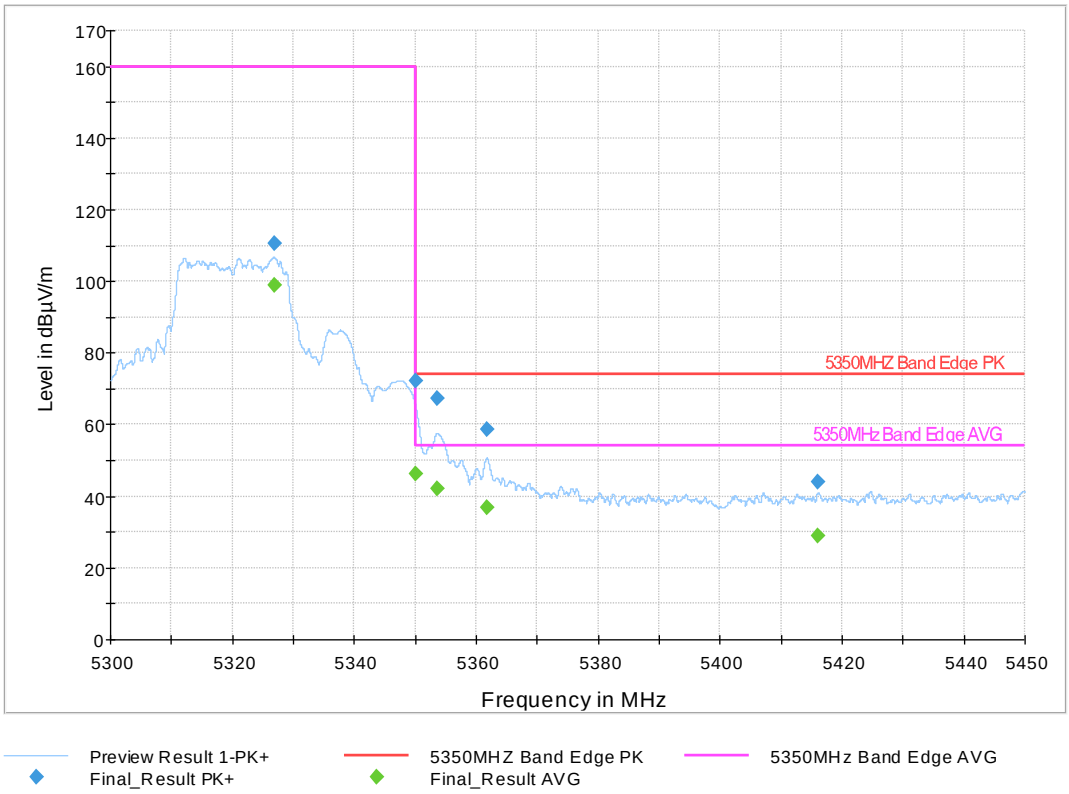


Figure 66: Radiated Band Edge – 802.11n HT20 UNII-2A High Channel 5320MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5328.155000	---	99.73	160.00	60.27	10000.0	1000.000	154.0	V	250.0
5328.155000	110.76	---	160.00	49.24	10000.0	1000.000	154.0	V	250.0
5350.010000	---	49.90	54.00	4.10	10000.0	1000.000	154.0	V	249.0
5350.010000	73.26	---	74.00	0.74	10000.0	1000.000	154.0	V	249.0
5352.425000	---	47.65	54.00	6.35	10000.0	1000.000	154.0	V	249.0
5352.425000	71.59	---	74.00	2.41	10000.0	1000.000	154.0	V	249.0
5354.930000	---	44.91	54.00	9.09	10000.0	1000.000	153.0	V	252.0
5354.930000	70.25	---	74.00	3.75	10000.0	1000.000	153.0	V	252.0
5362.475000	---	38.87	54.00	15.13	10000.0	1000.000	154.0	V	253.0
5362.475000	61.40	---	74.00	12.60	10000.0	1000.000	154.0	V	253.0
5413.010000	---	28.50	54.00	25.50	10000.0	1000.000	153.0	H	72.0
5413.010000	42.89	---	74.00	31.11	10000.0	1000.000	153.0	H	72.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

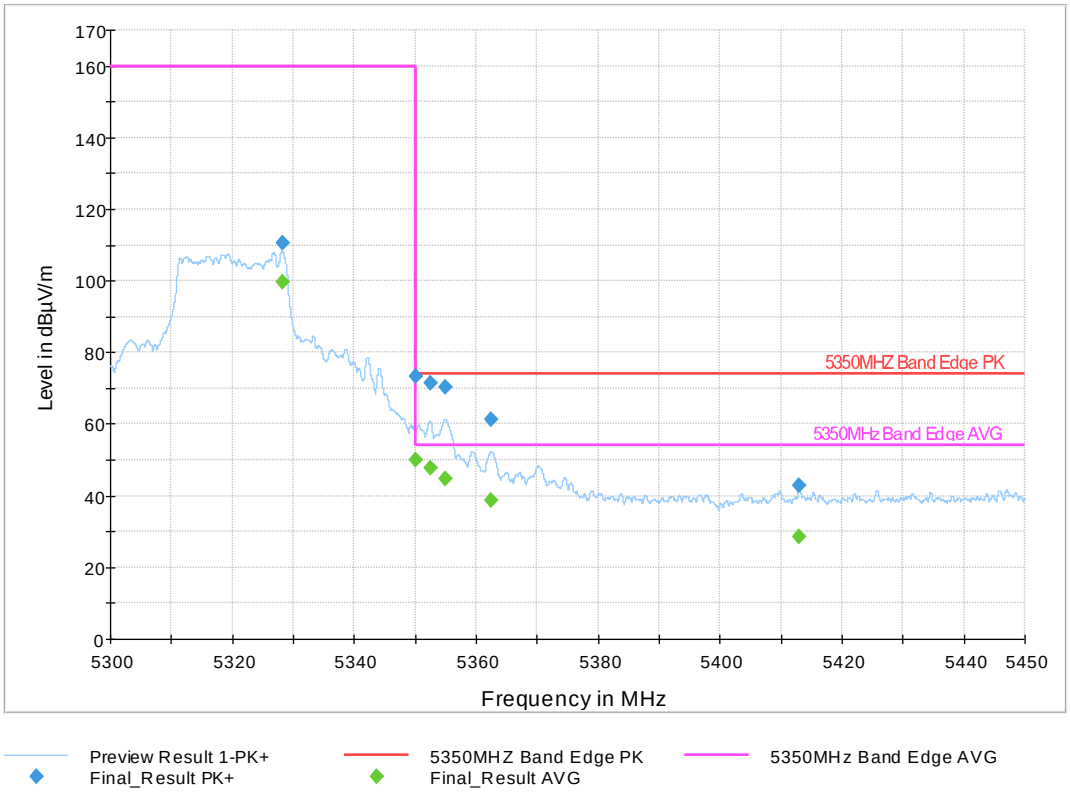


Figure 67: Radiated Band Edge – 802.11ac VHT20 UNII-2A High Channel 5320MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5304.770000	---	99.21	160.00	60.79	10000.0	1000.000	153.0	V	255.0
5304.770000	111.26	---	160.00	48.74	10000.0	1000.000	153.0	V	255.0
5350.010000	---	50.32	54.00	3.68	10000.0	1000.000	153.0	V	249.0
5350.010000	73.12	---	74.00	0.88	10000.0	1000.000	153.0	V	249.0
5355.230000	---	44.53	54.00	9.47	10000.0	1000.000	154.0	V	291.0
5355.230000	68.04	---	74.00	5.96	10000.0	1000.000	154.0	V	291.0
5360.300000	---	41.03	54.00	12.97	10000.0	1000.000	154.0	V	246.0
5360.300000	66.01	---	74.00	7.99	10000.0	1000.000	154.0	V	246.0
5384.420000	---	33.06	54.00	20.94	10000.0	1000.000	153.0	V	249.0
5384.420000	53.05	---	74.00	20.95	10000.0	1000.000	153.0	V	249.0
5420.240000	---	28.50	54.00	25.50	10000.0	1000.000	100.0	H	249.0
5420.240000	43.52	---	74.00	30.48	10000.0	1000.000	100.0	H	249.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

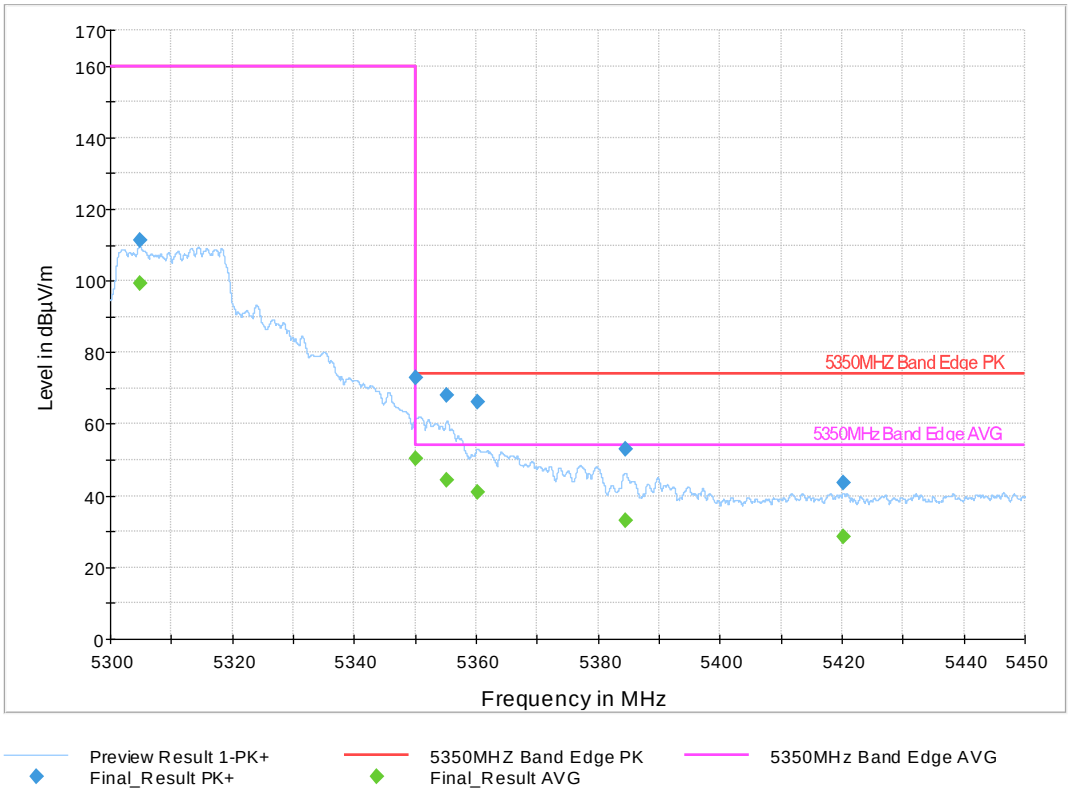


Figure 68: Radiated Band Edge – 802.11n HT40 UNII-2A High Channel 5310MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5304.320000	---	100.60	160.00	59.40	10000.0	1000.000	155.0	V	247.0
5304.320000	112.14	---	160.00	47.86	10000.0	1000.000	155.0	V	247.0
5350.010000	---	51.20	54.00	2.80	10000.0	1000.000	153.0	V	293.0
5350.010000	73.75	---	74.00	0.25	10000.0	1000.000	153.0	V	293.0
5352.485000	---	48.11	54.00	5.89	10000.0	1000.000	155.0	H	184.0
5352.485000	72.01	---	74.00	1.99	10000.0	1000.000	155.0	H	184.0
5356.385000	---	49.68	54.00	4.32	10000.0	1000.000	181.0	V	264.0
5356.385000	72.93	---	74.00	1.07	10000.0	1000.000	181.0	V	264.0
5405.630000	---	29.75	54.00	24.25	10000.0	1000.000	155.0	V	289.0
5405.630000	45.73	---	74.00	28.27	10000.0	1000.000	155.0	V	289.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

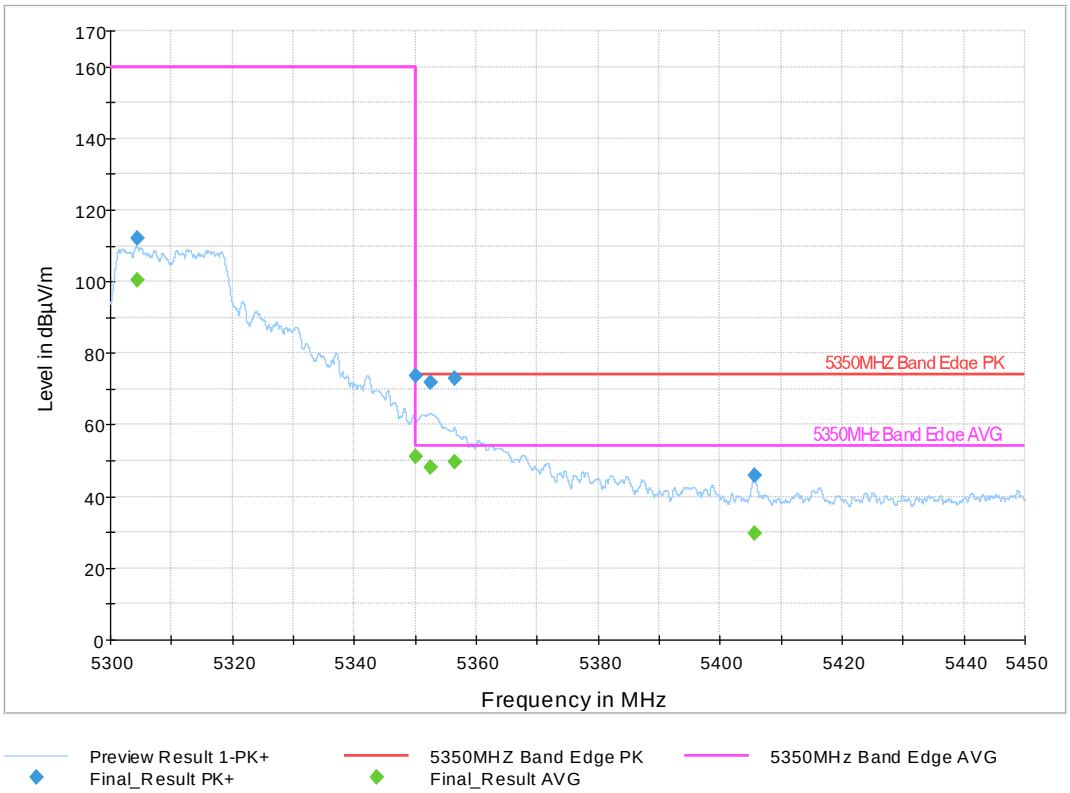


Figure 69: Radiated Band Edge – 802.11ac VHT40 UNII-2A High Channel 5310MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5300.000000	---	79.01	160.00	80.99	10000.0	1000.000	155.0	V	116.0
5300.000000	97.20	---	160.00	62.80	10000.0	1000.000	155.0	V	116.0
5350.010000	---	41.13	54.00	12.87	10000.0	1000.000	154.0	H	176.0
5350.010000	65.41	---	74.00	8.59	10000.0	1000.000	154.0	H	176.0
5351.960000	---	42.95	54.00	11.05	10000.0	1000.000	155.0	V	263.0
5351.960000	67.83	---	74.00	6.17	10000.0	1000.000	155.0	V	263.0
5358.350000	---	35.68	54.00	18.32	10000.0	1000.000	155.0	H	186.0
5358.350000	55.33	---	74.00	18.67	10000.0	1000.000	155.0	H	186.0
5414.435000	---	28.37	54.00	25.63	10000.0	1000.000	356.0	H	211.0
5414.435000	42.81	---	74.00	31.19	10000.0	1000.000	356.0	H	211.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

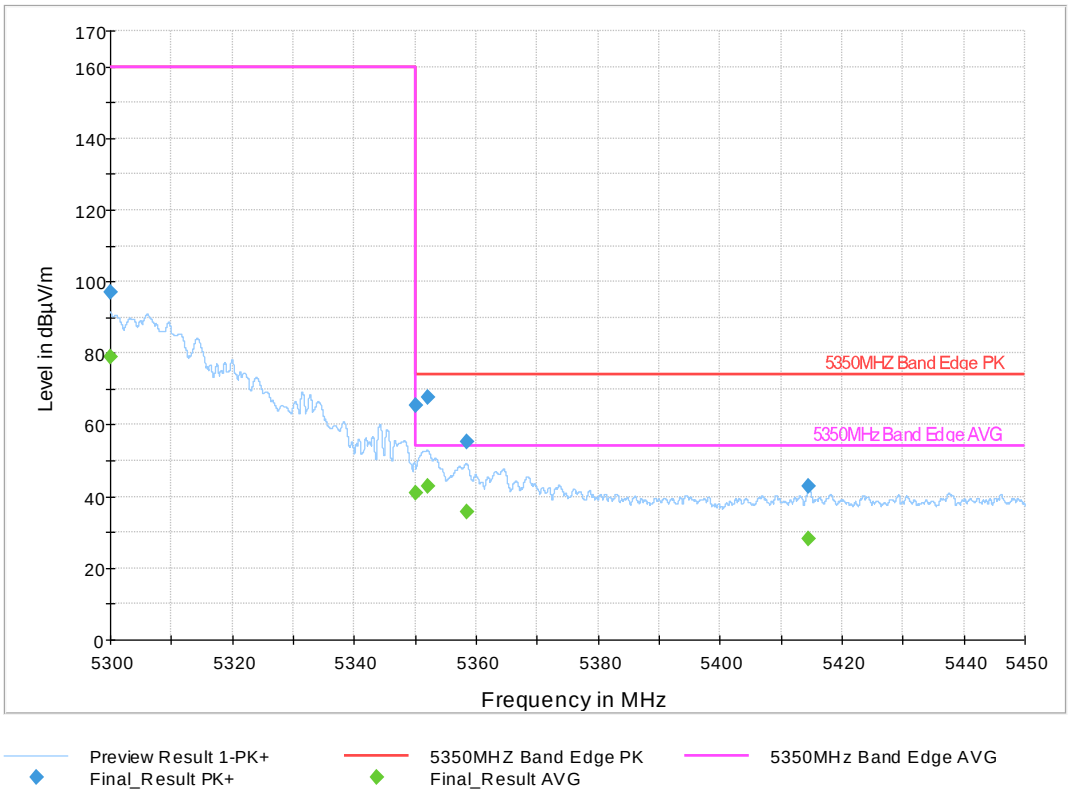


Figure 70: Radiated Band Edge – 802.11ac VHT80 UNII-2A Mid Channel 5290MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5435.684000	---	34.40	54.00	19.60	10000.0	1000.000	256.0	V	0.0
5435.684000	49.56	---	74.00	24.44	10000.0	1000.000	256.0	V	0.0
5459.994000	---	39.47	54.00	14.53	10000.0	1000.000	155.0	H	88.0
5459.994000	58.44	---	74.00	15.56	10000.0	1000.000	155.0	H	88.0
5469.993000	---	57.27	68.16	10.89	10000.0	1000.000	150.0	H	293.0
5469.993000	77.82	---	160.00	82.18	10000.0	1000.000	150.0	H	293.0
5502.509000	112.79	---	160.00	47.21	10000.0	1000.000	155.0	V	27.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

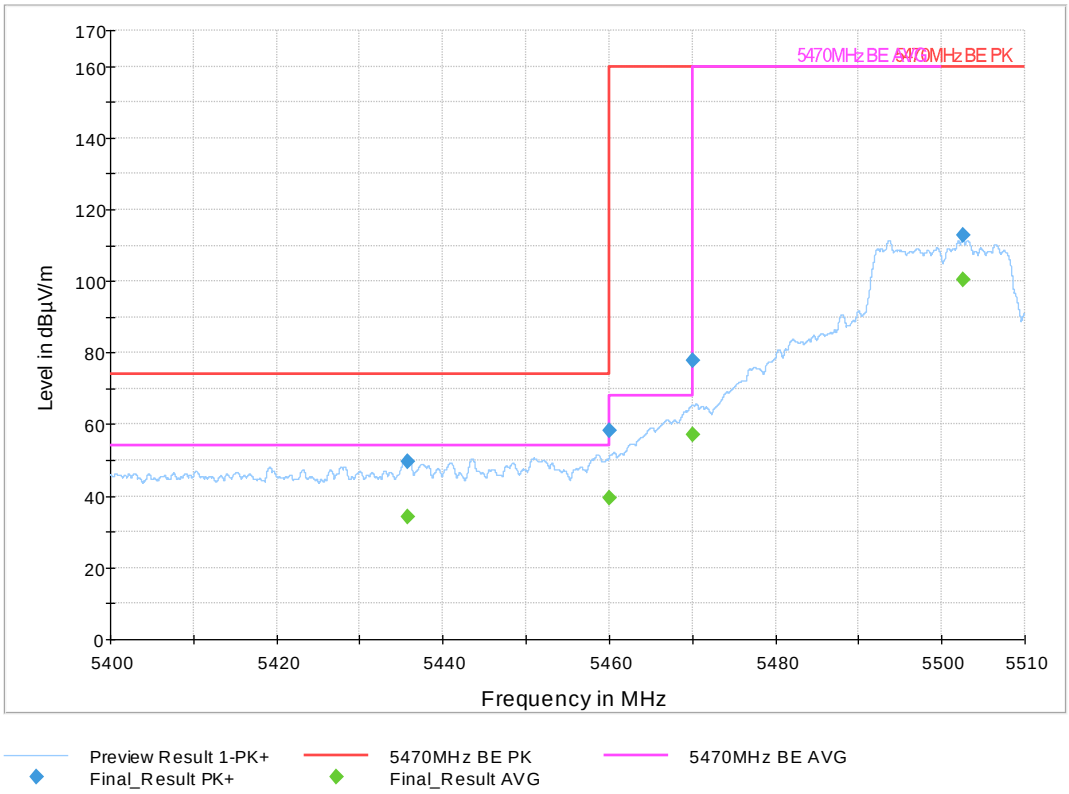


Figure 71: Radiated Band Edge – 802.11a UNII-2C Low Channel 5500MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5451.183000	---	37.65	54.00	16.35	10000.0	1000.000	155.0	H	95.0
5451.183000	58.34	---	74.00	15.66	10000.0	1000.000	155.0	H	95.0
5457.013000	---	40.83	54.00	13.17	10000.0	1000.000	105.0	H	102.0
5457.013000	62.94	---	74.00	11.06	10000.0	1000.000	105.0	H	102.0
5459.994000	---	43.81	54.00	10.19	10000.0	1000.000	106.0	H	103.0
5459.994000	70.91	---	74.00	3.09	10000.0	1000.000	106.0	H	103.0
5467.606000	---	48.18	68.16	19.98	10000.0	1000.000	155.0	H	271.0
5467.606000	73.27	---	160.00	86.73	10000.0	1000.000	155.0	H	271.0
5469.993000	---	56.51	68.16	11.65	10000.0	1000.000	155.0	H	105.0
5469.993000	78.61	---	160.00	81.39	10000.0	1000.000	155.0	H	105.0
5501.783000	110.54	---	160.00	49.46	10000.0	1000.000	154.0	H	76.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

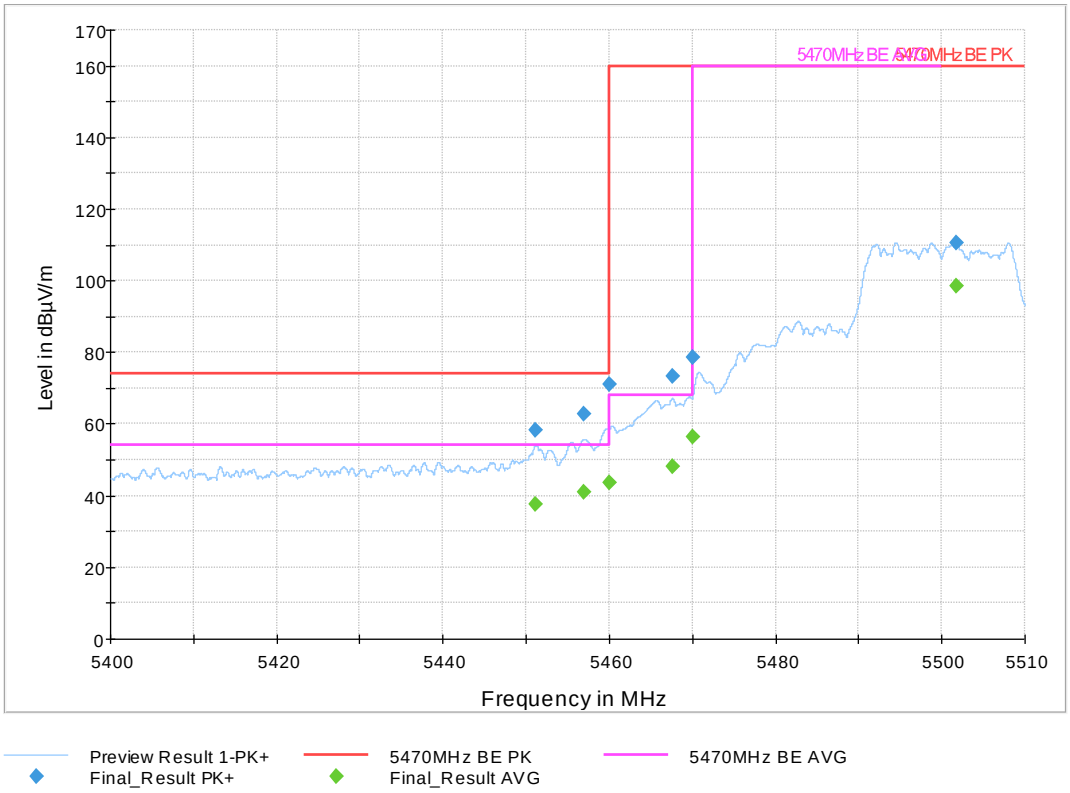


Figure 72: Radiated Band Edge – 802.11n HT20 UNII-2C Low Channel 5500MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5456.859000	---	43.01	54.00	10.99	10000.0	1000.000	155.0	H	104.0
5456.859000	66.35	---	74.00	7.65	10000.0	1000.000	155.0	H	104.0
5458.553000	---	45.87	54.00	8.13	10000.0	1000.000	150.0	H	104.0
5458.553000	71.11	---	74.00	2.89	10000.0	1000.000	150.0	H	104.0
5459.994000	---	41.34	54.00	12.66	10000.0	1000.000	155.0	H	91.0
5459.994000	69.26	---	74.00	4.74	10000.0	1000.000	155.0	H	91.0
5469.168000	---	48.86	68.16	19.30	10000.0	1000.000	154.0	V	42.0
5469.168000	74.27	---	160.00	85.73	10000.0	1000.000	154.0	V	42.0
5469.993000	---	49.02	68.16	19.14	10000.0	1000.000	154.0	V	42.0
5469.993000	74.94	---	160.00	85.06	10000.0	1000.000	154.0	V	42.0
5501.090000	111.92	---	160.00	48.08	10000.0	1000.000	154.0	H	303.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

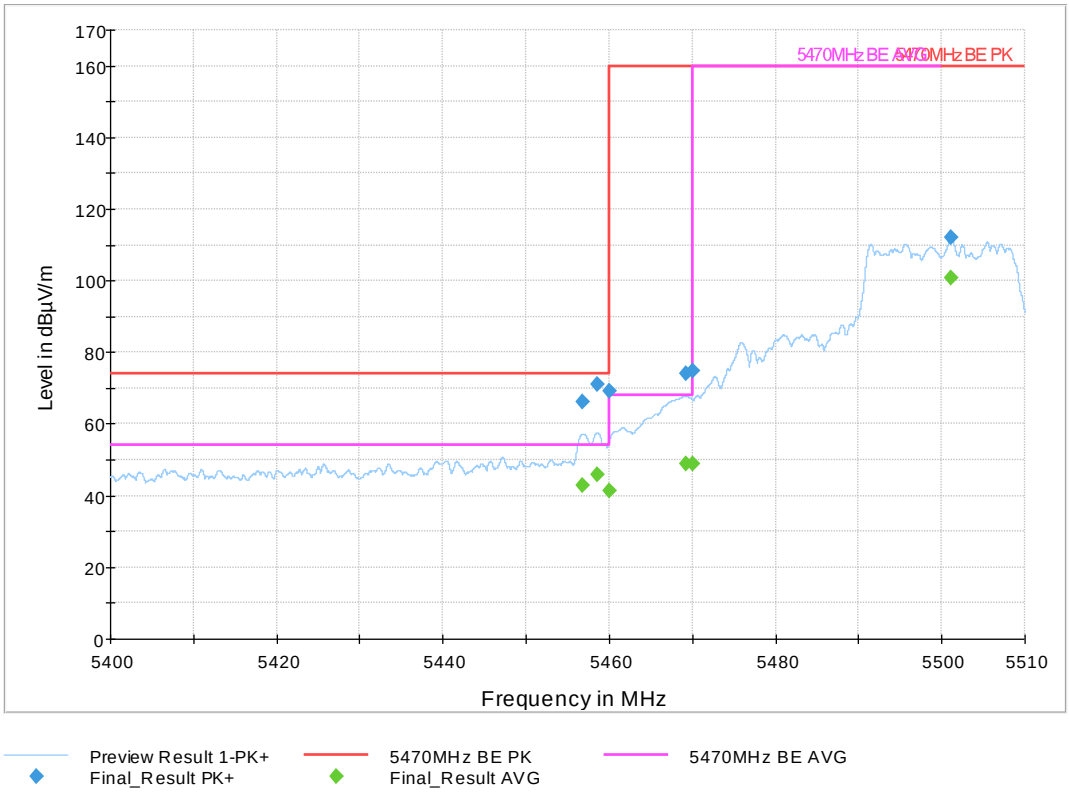


Figure 73: Radiated Band Edge – 802.11ac VHT20 UNII-2C Low Channel 5500MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5447.575000	---	45.27	54.00	8.73	10000.0	1000.000	153.0	H	120.0
5447.575000	68.03	---	74.00	5.97	10000.0	1000.000	153.0	H	120.0
5449.874000	---	46.70	54.00	7.30	10000.0	1000.000	153.0	H	120.0
5449.874000	69.83	---	74.00	4.17	10000.0	1000.000	153.0	H	120.0
5459.994000	70.60	---	74.00	3.40	10000.0	1000.000	153.0	H	114.0
5459.994000	---	52.34	54.00	1.66	10000.0	1000.000	153.0	H	114.0
5466.187000	---	60.70	68.16	7.46	10000.0	1000.000	153.0	H	286.0
5466.187000	80.31	---	160.00	79.69	10000.0	1000.000	153.0	H	286.0
5469.993000	---	63.03	68.16	5.13	10000.0	1000.000	154.0	H	70.0
5469.993000	79.32	---	160.00	80.68	10000.0	1000.000	154.0	H	70.0
5494.237000	109.07	---	160.00	50.93	10000.0	1000.000	153.0	H	282.0
5494.237000	---	98.23	160.00	61.77	10000.0	1000.000	153.0	H	282.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

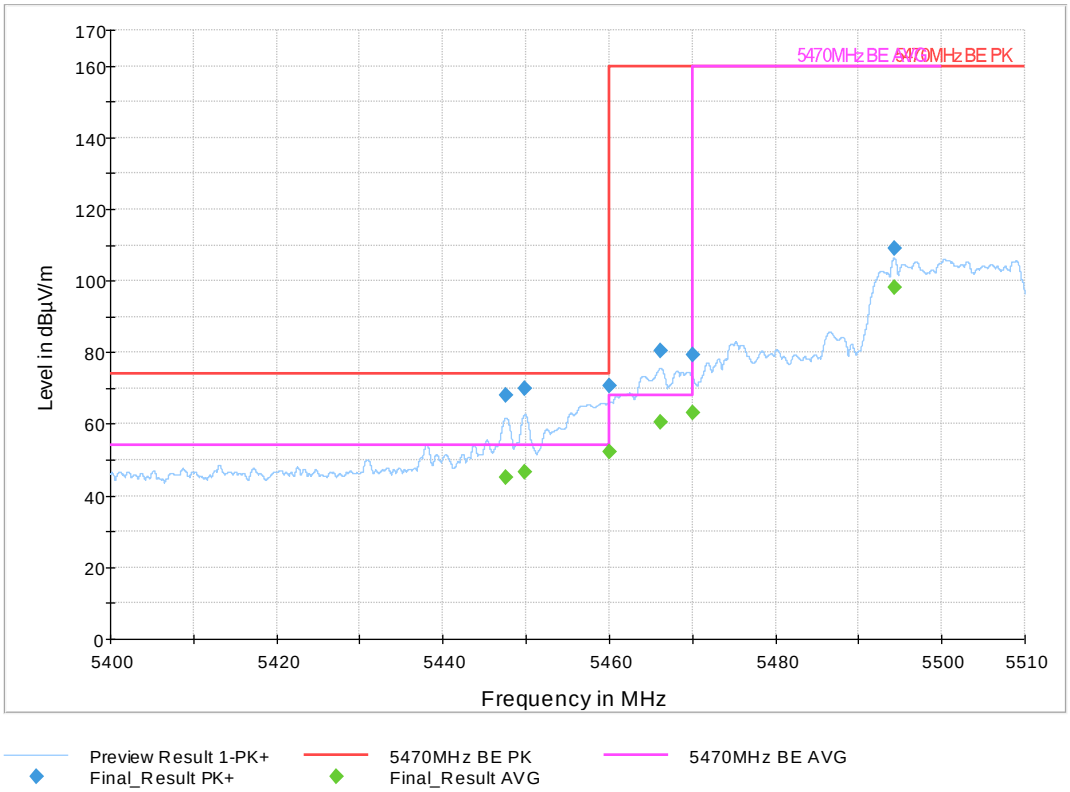


Figure 74: Radiated Band Edge – 802.11n HT40 UNII-2C Low Channel 5510MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5452.184000	66.61	---	74.00	7.39	10000.0	1000.000	154.0	H	298.0
5452.184000	---	46.75	54.00	7.25	10000.0	1000.000	154.0	H	298.0
5459.642000	---	53.26	54.00	0.74	10000.0	1000.000	154.0	H	78.0
5459.642000	72.05	---	74.00	1.95	10000.0	1000.000	154.0	H	78.0
5467.826000	---	63.28	68.16	4.88	10000.0	1000.000	153.0	H	109.0
5467.826000	81.20	---	160.00	78.80	10000.0	1000.000	153.0	H	109.0
5469.993000	85.68	---	160.00	74.32	10000.0	1000.000	154.0	H	102.0
5469.993000	---	66.33	68.16	1.83	10000.0	1000.000	154.0	H	102.0
5506.370000	109.19	---	160.00	50.81	10000.0	1000.000	154.0	H	66.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

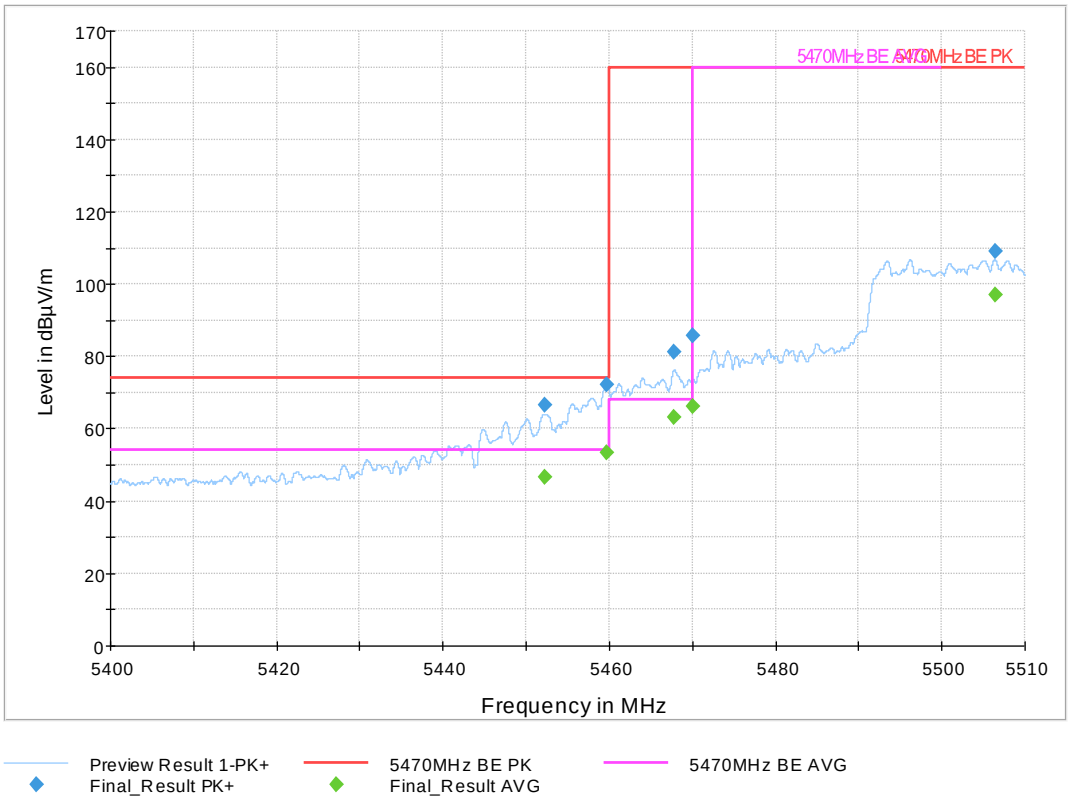


Figure 75: Radiated Band Edge – 802.11ac VHT40 UNII-2C Low Channel 5510MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5433.759000	67.98	---	74.00	6.02	10000.0	1000.000	154.0	H	69.0
5433.759000	---	48.00	54.00	6.00	10000.0	1000.000	154.0	H	69.0
5452.382000	69.17	---	74.00	4.83	10000.0	1000.000	153.0	H	65.0
5452.382000	---	51.81	54.00	2.19	10000.0	1000.000	153.0	H	65.0
5459.994000	69.83	---	74.00	4.17	10000.0	1000.000	153.0	H	110.0
5459.994000	---	52.33	54.00	1.67	10000.0	1000.000	153.0	H	110.0
5465.131000	75.48	---	160.00	84.52	10000.0	1000.000	255.0	V	-5.0
5465.131000	---	57.99	68.16	10.17	10000.0	1000.000	255.0	V	-5.0
5469.993000	71.87	---	160.00	88.13	10000.0	1000.000	105.0	H	294.0
5469.993000	---	55.13	68.16	13.03	10000.0	1000.000	105.0	H	294.0
5506.304000	99.66	---	160.00	60.34	10000.0	1000.000	105.0	H	291.0

*RBW=1MHz, VBW=3MHz, Sweep Time=10s

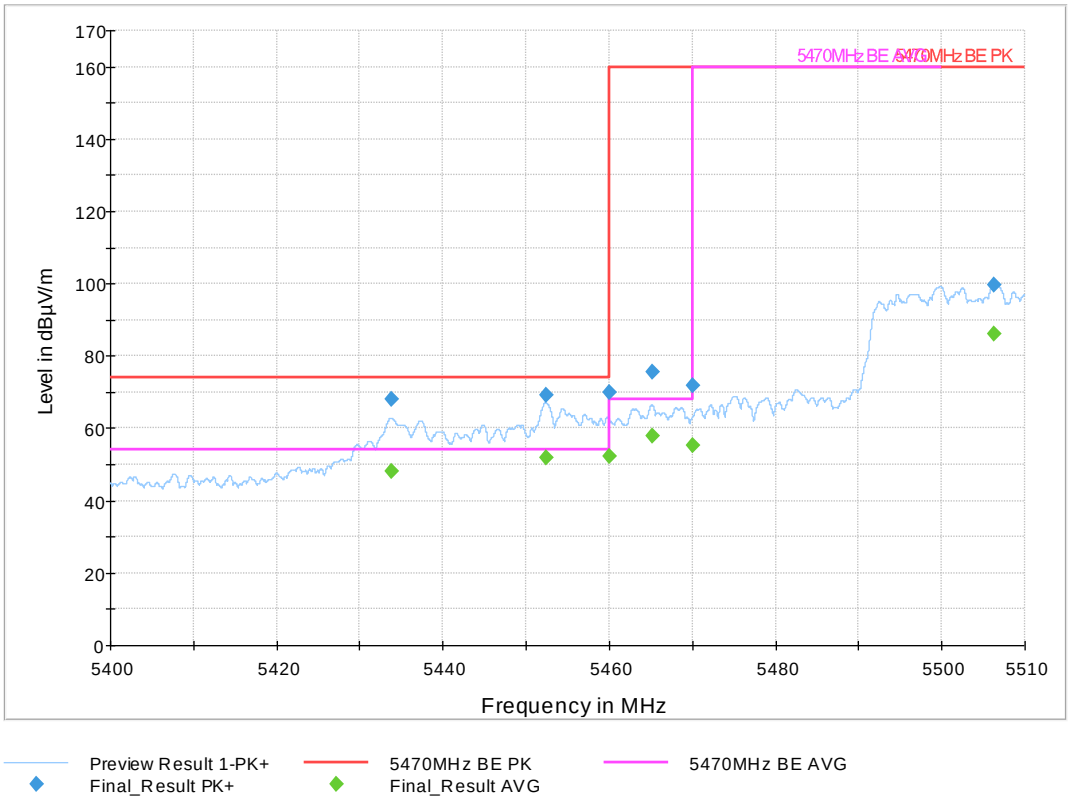


Figure 76: Radiated Band Edge – 802.11ac VHT80 UNII-2C Low Channel 5530MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
42.707000	32.55	40.00	7.45	10.0	120.000	100.0	V	5.0
67.442000	36.99	40.00	3.01	10.0	120.000	100.0	V	254.0
124.963000	28.18	43.52	15.34	10.0	120.000	100.0	V	336.0
135.827000	25.88	43.52	17.64	10.0	120.000	394.0	H	72.0
167.255000	28.83	43.52	14.69	10.0	120.000	100.0	V	181.0
205.182000	26.24	43.52	17.28	10.0	120.000	118.0	H	240.0
249.996000	24.89	46.02	21.13	10.0	120.000	100.0	H	255.0
352.331000	18.04	46.02	27.98	10.0	120.000	105.0	V	357.0
486.385000	23.38	46.02	22.64	10.0	120.000	100.0	H	318.0
576.013000	28.88	46.02	17.14	10.0	120.000	207.0	H	198.0
843.345000	19.42	46.02	26.60	10.0	120.000	369.0	H	337.0
999.903000	25.80	53.98	28.18	10.0	120.000	100.0	H	213.0

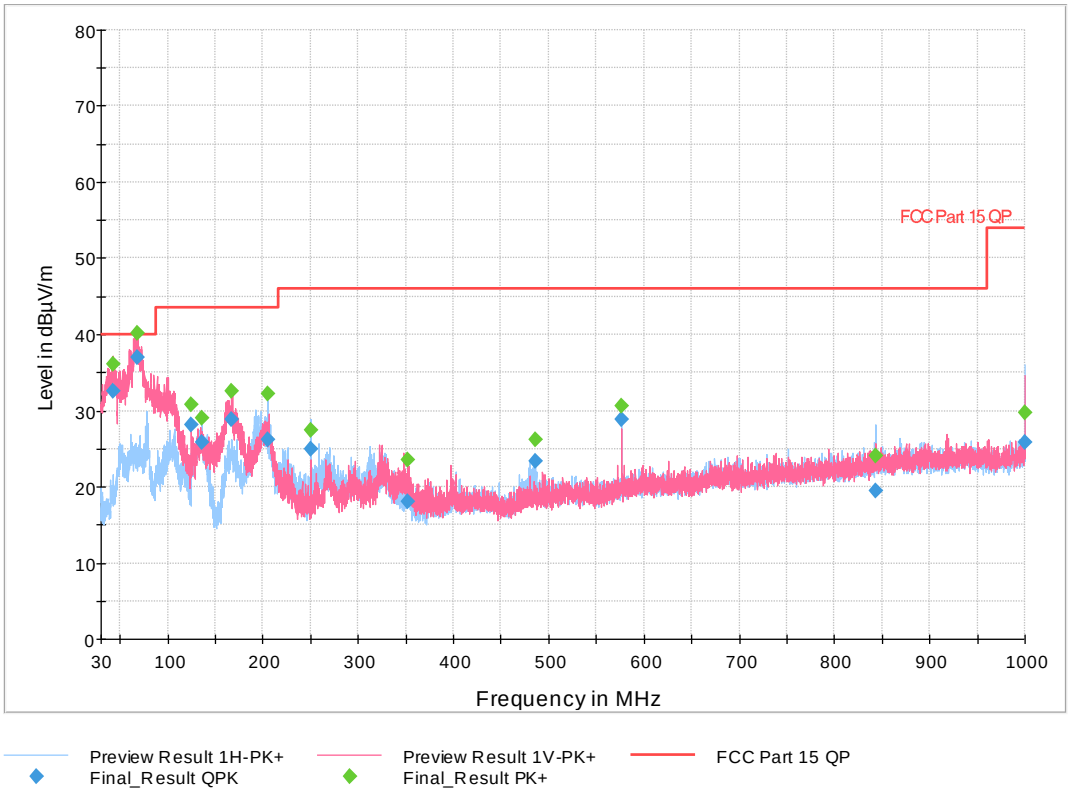


Figure 77: Radiated Emissions 30-1000MHz (Worst Case) – UNII-2A 802.11a High Channel 5320MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
41.252000	32.09	40.00	7.91	10.0	120.000	100.0	V	94.0
67.054000	36.38	40.00	3.62	10.0	120.000	100.0	V	143.0
124.963000	26.56	43.52	16.96	10.0	120.000	100.0	V	348.0
164.539000	29.28	43.52	14.24	10.0	120.000	100.0	V	215.0
201.690000	25.88	43.52	17.64	10.0	120.000	209.0	V	21.0
249.996000	27.81	46.02	18.21	10.0	120.000	100.0	H	279.0
313.628000	20.50	46.02	25.52	10.0	120.000	100.0	H	244.0
486.385000	23.07	46.02	22.95	10.0	120.000	100.0	H	300.0
576.013000	29.43	46.02	16.59	10.0	120.000	150.0	H	144.0
842.181000	18.31	46.02	27.71	10.0	120.000	317.0	V	51.0
999.903000	21.77	53.98	32.21	10.0	120.000	254.0	H	-5.0

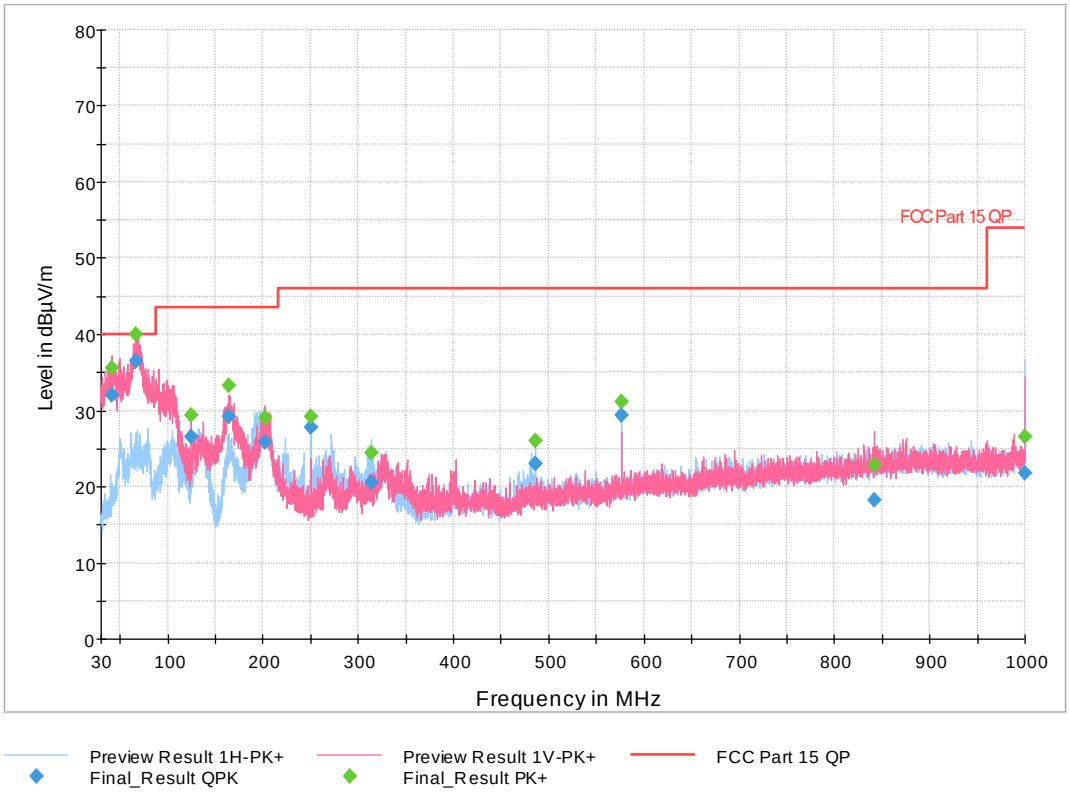


Figure 78: Radiated Emissions 30-1000MHz (Worst Case) – UNII-2C 802.11a High Channel 5700MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
13542.999029	55.16	---	74.00	18.84	1000.000	100.0	V	71.0	15.7
13542.999029	---	41.71	54.00	12.29	1000.000	100.0	V	71.0	15.7
14840.500000	---	41.92	54.00	12.08	1000.000	253.0	H	25.0	17.6
14840.500000	55.44	---	74.00	18.56	1000.000	253.0	H	25.0	17.6
16443.000971	56.68	---	74.00	17.32	1000.000	350.0	H	255.0	18.8
16443.000971	---	43.47	54.00	10.53	1000.000	350.0	H	255.0	18.8
16877.500971	---	43.70	54.00	10.30	1000.000	150.0	H	93.0	19.5
16877.500971	57.08	---	74.00	16.92	1000.000	150.0	H	93.0	19.5
17417.362000	58.08	---	74.00	15.92	1000.000	100.0	V	313.0	20.8
17417.362000	---	44.77	54.00	9.23	1000.000	100.0	V	313.0	20.8
17493.868029	---	44.55	54.00	9.45	1000.000	250.0	H	40.0	20.5
17493.868029	58.14	---	74.00	15.86	1000.000	250.0	H	40.0	20.5
17980.425971	60.33	---	74.00	13.67	1000.000	100.0	V	19.0	21.2
17980.425971	---	45.03	54.00	8.97	1000.000	100.0	V	19.0	21.2

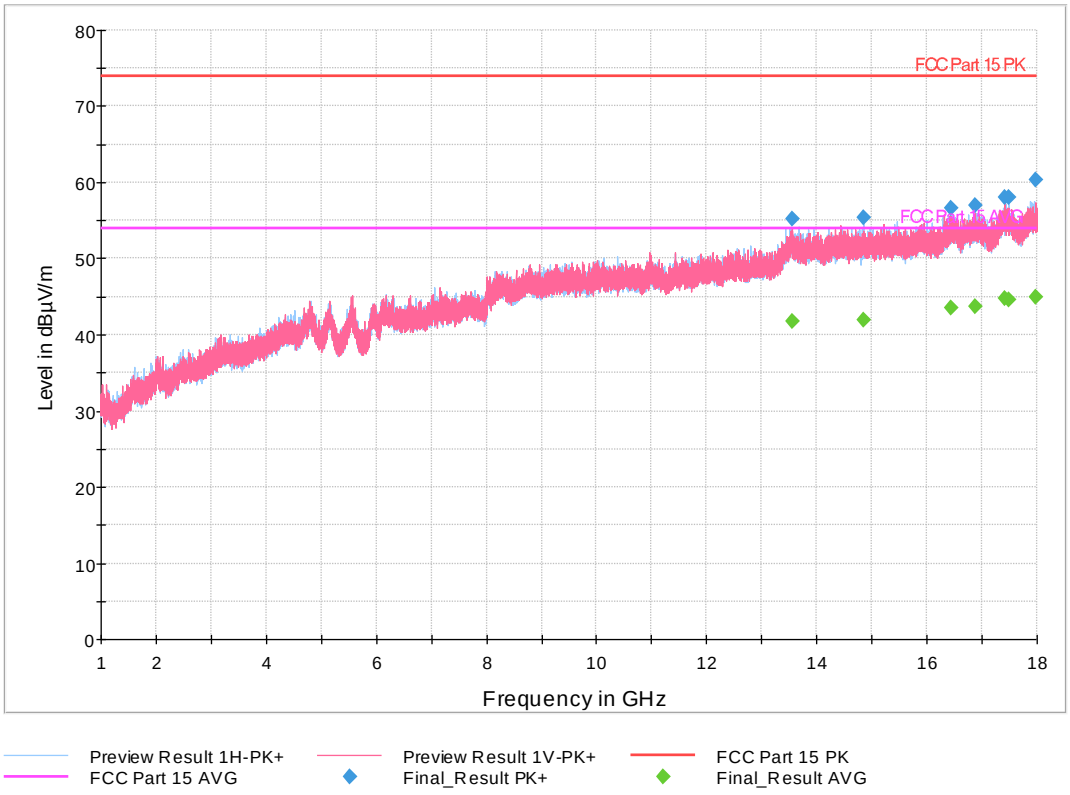


Figure 79: Radiated Emissions 1-18GHz – UNII-2A 802.11a Low Channel 5260MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
13507.499029	---	42.05	54.00	11.95	1000.000	254.0	V	269.0	15.9
13507.499029	55.69	---	74.00	18.31	1000.000	254.0	V	269.0	15.9
14294.925000	---	41.74	54.00	12.26	1000.000	154.0	V	25.0	17.4
14294.925000	54.91	---	74.00	19.09	1000.000	154.0	V	25.0	17.4
16465.035971	57.45	---	74.00	16.55	1000.000	353.0	H	135.0	18.9
16465.035971	---	43.49	54.00	10.51	1000.000	353.0	H	135.0	18.9
16884.777971	57.09	---	74.00	16.91	1000.000	350.0	V	101.0	19.5
16884.777971	---	43.54	54.00	10.46	1000.000	350.0	V	101.0	19.5
17354.332971	58.16	---	74.00	15.84	1000.000	150.0	V	273.0	20.7
17354.332971	---	44.38	54.00	9.62	1000.000	150.0	V	273.0	20.7
17866.500000	58.63	---	74.00	15.37	1000.000	156.0	V	203.0	21.2
17866.500000	---	44.92	54.00	9.08	1000.000	156.0	V	203.0	21.2

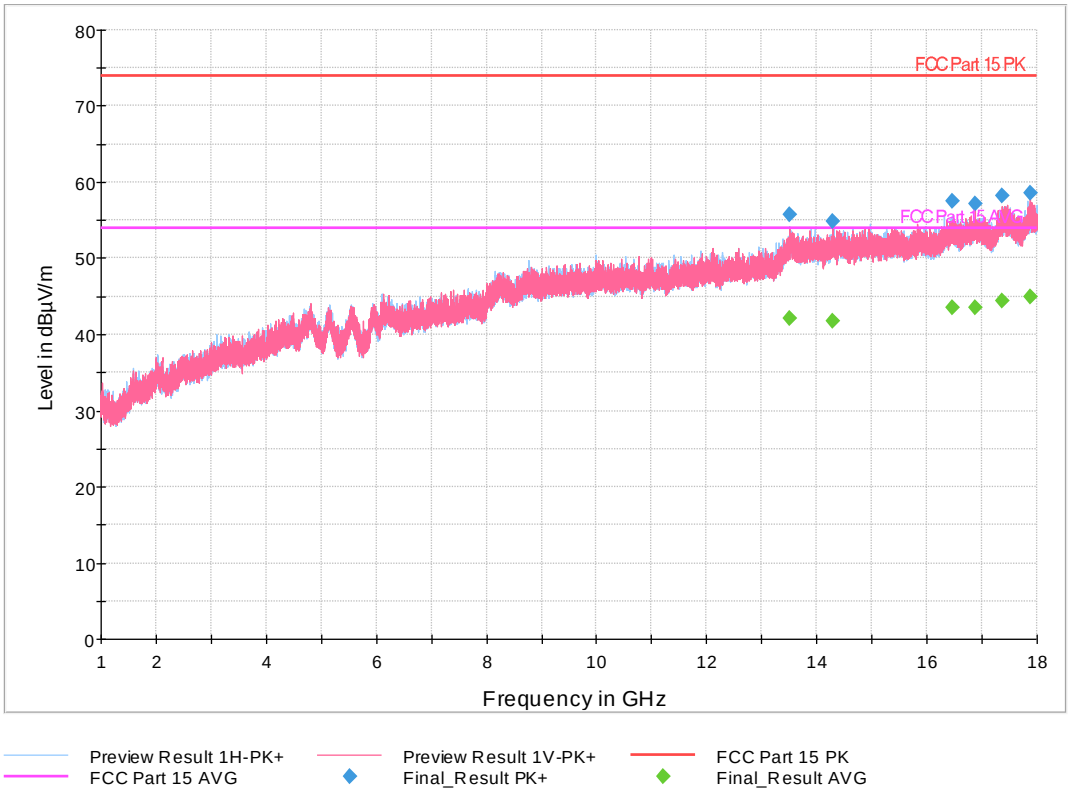


Figure 80: Radiated Emissions 1-18GHz – UNII-2A 802.11a Mid Channel 5300MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	29.73	54.00	24.27	1000.000	100.0	H	211.0	-7.6
1000.000985	36.88	---	74.00	37.12	1000.000	100.0	H	211.0	-7.6
4784.585000	44.31	---	74.00	29.69	1000.000	354.0	V	108.0	7.1
4784.585000	---	30.29	54.00	23.71	1000.000	354.0	V	108.0	7.1
5322.197000	59.66	---	N/A*	N/A*	1000.000	154.0	V	247.0	7.4
5322.197000	---	48.41	N/A*	N/A*	1000.000	154.0	V	247.0	7.4
10639.073029	59.16	---	74.00	14.84	1000.000	100.0	V	353.0	12.3
10639.073029	---	46.03	54.00	7.97	1000.000	100.0	V	353.0	12.3
13535.566000	54.27	---	74.00	19.73	1000.000	150.0	V	35.0	15.8
13535.566000	---	40.19	54.00	13.81	1000.000	150.0	V	35.0	15.8
14309.286029	53.34	---	74.00	20.66	1000.000	355.0	H	157.0	17.4
14309.286029	---	40.00	54.00	14.00	1000.000	355.0	H	157.0	17.4
16428.953000	---	41.43	54.00	12.57	1000.000	150.0	H	75.0	18.7
16428.953000	54.70	---	74.00	19.30	1000.000	150.0	H	75.0	18.7
16833.110000	---	41.36	54.00	12.64	1000.000	255.0	V	178.0	19.2
16833.110000	55.64	---	74.00	18.36	1000.000	255.0	V	178.0	19.2
17967.640000	56.31	---	74.00	17.69	1000.000	100.0	V	6.0	21.2
17967.640000	---	41.93	54.00	12.07	1000.000	100.0	V	6.0	21.2

*Fundamental transmission is excluded from spurious emission limits

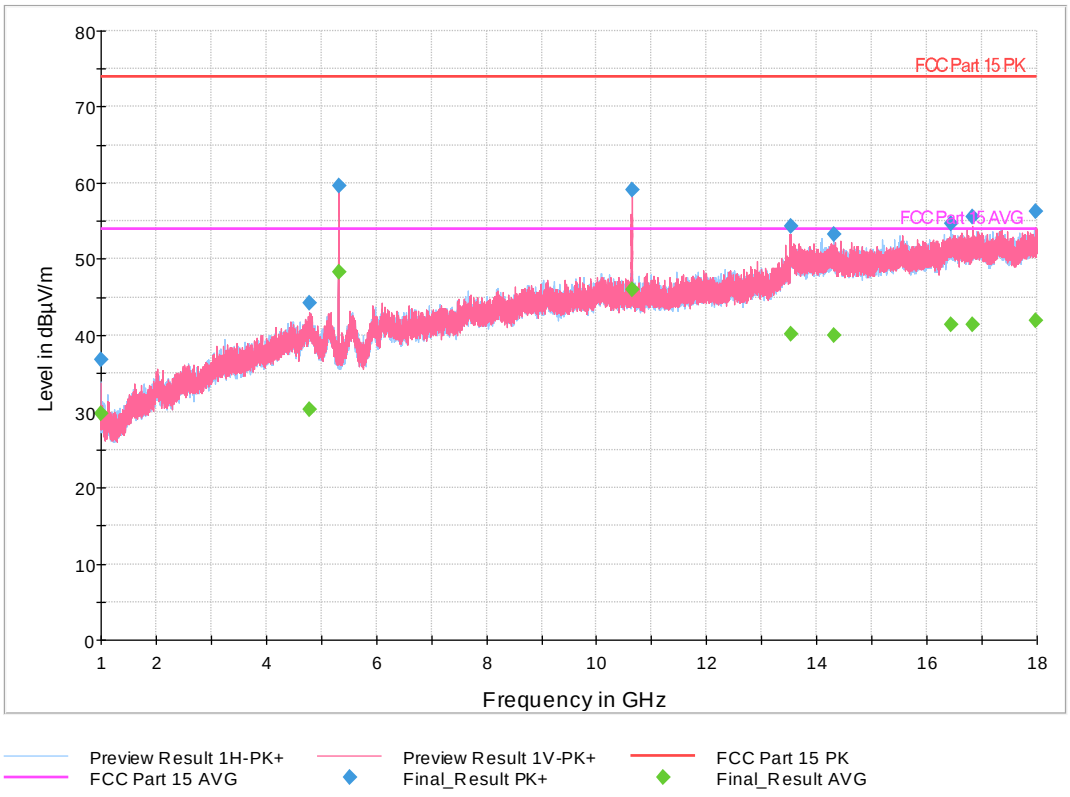


Figure 81: Radiated Emissions 1-18GHz – UNII-2A 802.11a High Channel 5320MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5286.000971	63.67	---	74.00	10.33	1000.000	155.0	V	259.0	7.3
5286.000971	---	53.00	54.00	1.00	1000.000	155.0	V	259.0	7.3
10585.915000	65.66	---	74.00	8.34	1000.000	100.0	V	346.0	12.4
10585.915000	---	53.35	54.00	0.65	1000.000	100.0	V	346.0	12.4
14849.562971	---	42.01	54.00	11.99	1000.000	100.0	V	205.0	17.7
14849.562971	55.85	---	74.00	18.15	1000.000	100.0	V	205.0	17.7
15866.500000	---	48.76	54.00	5.24	1000.000	100.0	V	309.0	18.1
15866.500000	63.60	---	74.00	10.40	1000.000	100.0	V	309.0	18.1
16433.549000	57.20	---	74.00	16.80	1000.000	150.0	V	58.0	18.7
16433.549000	---	43.58	54.00	10.42	1000.000	150.0	V	58.0	18.7
17468.999029	---	44.58	54.00	9.42	1000.000	350.0	H	16.0	20.5
17468.999029	58.44	---	74.00	15.56	1000.000	350.0	H	16.0	20.5
17958.000000	58.58	---	74.00	15.42	1000.000	354.0	H	310.0	21.2
17958.000000	---	44.84	54.00	9.16	1000.000	354.0	H	310.0	21.2

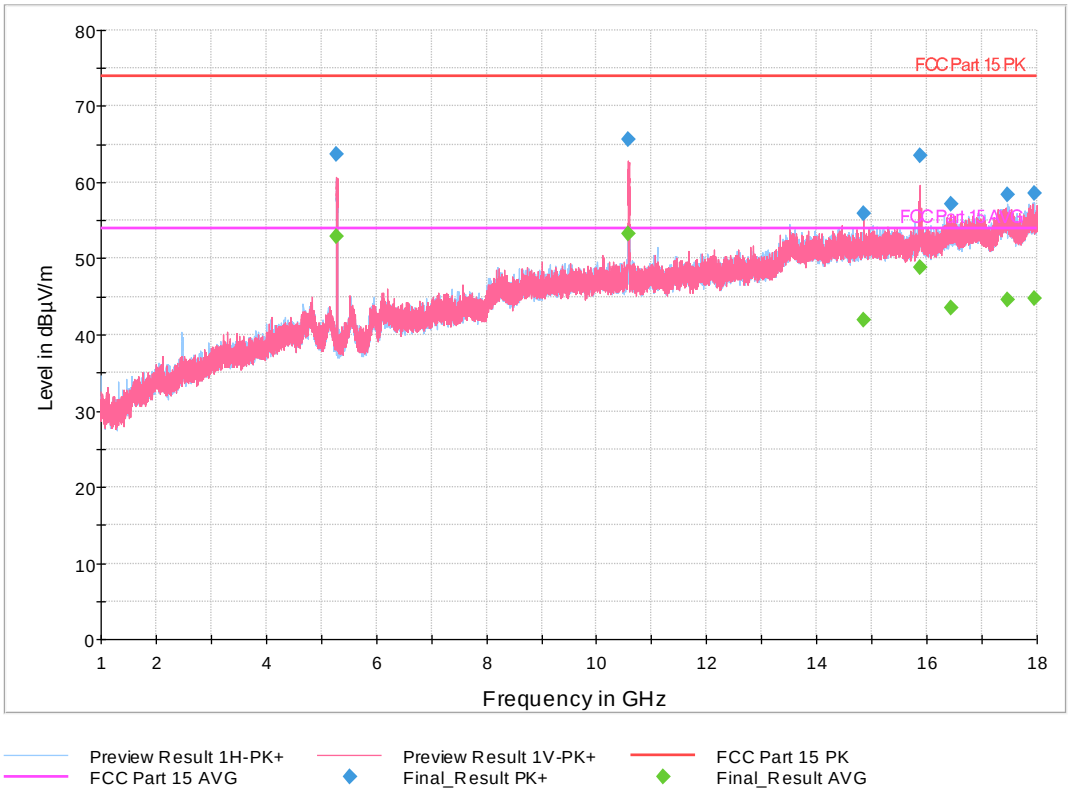


Figure 82: Radiated Emissions 1-18GHz – UNII-2C 802.11a Low Channel 5500MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5297.000971	62.07	---	74.00	11.93	1000.000	153.0	V	256.0	7.3
5297.000971	---	52.39	54.00	1.61	1000.000	153.0	V	256.0	7.3
10574.824000	---	51.48	54.00	2.52	1000.000	100.0	V	356.0	12.5
10574.824000	63.91	---	74.00	10.09	1000.000	100.0	V	356.0	12.5
13403.000000	---	40.94	54.00	13.06	1000.000	354.0	V	327.0	16.1
13403.000000	54.36	---	74.00	19.64	1000.000	354.0	V	327.0	16.1
15873.500000	61.97	---	74.00	12.03	1000.000	155.0	V	-2.0	18.2
15873.500000	---	47.45	54.00	6.55	1000.000	155.0	V	-2.0	18.2
16766.000000	56.68	---	74.00	17.32	1000.000	350.0	H	36.0	18.9
16766.000000	---	43.27	54.00	10.73	1000.000	350.0	H	36.0	18.9
17471.848029	---	44.60	54.00	9.40	1000.000	250.0	V	320.0	20.5
17471.848029	58.37	---	74.00	15.63	1000.000	250.0	V	320.0	20.5
17897.430971	58.44	---	74.00	15.56	1000.000	154.0	V	78.0	21.4
17897.430971	---	44.90	54.00	9.10	1000.000	154.0	V	78.0	21.4

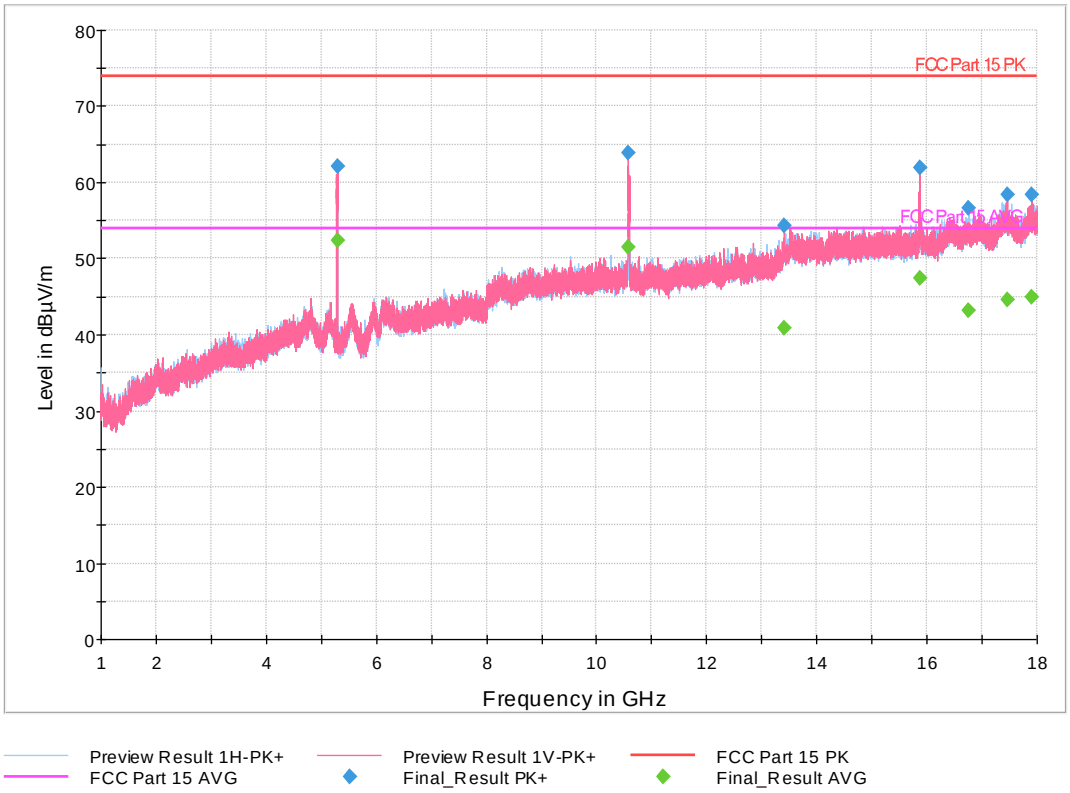


Figure 83: Radiated Emissions 1-18GHz – UNII-2C 802.11a Mid Channel 5600MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5286.000000	---	52.16	54.00	1.84	1000.000	153.0	V	257.0	7.3
5286.000000	62.97	---	74.00	11.03	1000.000	153.0	V	257.0	7.3
10577.781000	65.81	---	74.00	8.19	1000.000	100.0	V	1.0	12.4
10577.781000	---	53.84	54.00	0.16	1000.000	100.0	V	1.0	12.4
13699.615000	54.75	---	74.00	19.25	1000.000	356.0	V	324.0	15.6
13699.615000	---	41.05	54.00	12.95	1000.000	356.0	V	324.0	15.6
15875.897000	---	47.92	54.00	6.08	1000.000	152.0	V	0.0	18.2
15875.897000	62.63	---	74.00	11.37	1000.000	152.0	V	0.0	18.2
16484.500971	57.59	---	74.00	16.41	1000.000	156.0	V	343.0	18.9
16484.500971	---	43.54	54.00	10.46	1000.000	156.0	V	343.0	18.9
17408.678029	---	44.81	54.00	9.19	1000.000	100.0	H	4.0	20.9
17408.678029	58.48	---	74.00	15.52	1000.000	100.0	H	4.0	20.9
17915.999029	57.96	---	74.00	16.04	1000.000	150.0	H	-2.0	21.3
17915.999029	---	44.84	54.00	9.16	1000.000	150.0	H	-2.0	21.3

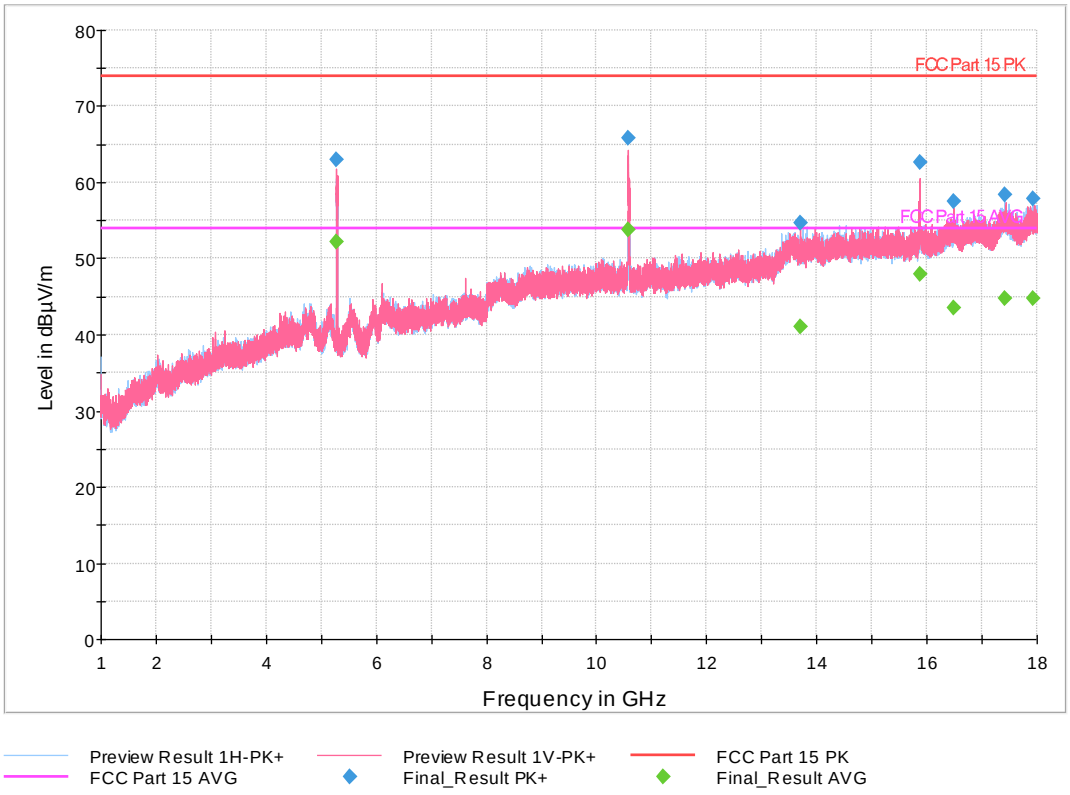


Figure 84: Radiated Emissions 1-18GHz – UNII-2C 802.11a High Channel 5700MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
13524.484000	---	41.85	54.00	12.15	1000.000	250.0	H	46.0	15.8
13524.484000	55.60	---	74.00	18.40	1000.000	250.0	H	46.0	15.8
14634.901971	---	41.85	54.00	12.15	1000.000	100.0	V	134.0	17.4
14634.901971	55.58	---	74.00	18.42	1000.000	100.0	V	134.0	17.4
15932.024029	---	42.06	54.00	11.94	1000.000	155.0	H	1.0	18.0
15932.024029	55.43	---	74.00	18.57	1000.000	155.0	H	1.0	18.0
16945.934000	---	43.70	54.00	10.30	1000.000	250.0	V	139.0	19.9
16945.934000	57.53	---	74.00	16.47	1000.000	250.0	V	139.0	19.9
17453.500000	57.91	---	74.00	16.09	1000.000	150.0	H	90.0	20.6
17453.500000	---	44.50	54.00	9.50	1000.000	150.0	H	90.0	20.6
17575.607029	---	43.92	54.00	10.08	1000.000	150.0	V	271.0	20.2
17575.607029	57.31	---	74.00	16.69	1000.000	150.0	V	271.0	20.2
17865.014971	58.25	---	74.00	15.75	1000.000	154.0	V	35.0	21.2
17865.014971	---	44.88	54.00	9.12	1000.000	154.0	V	35.0	21.2

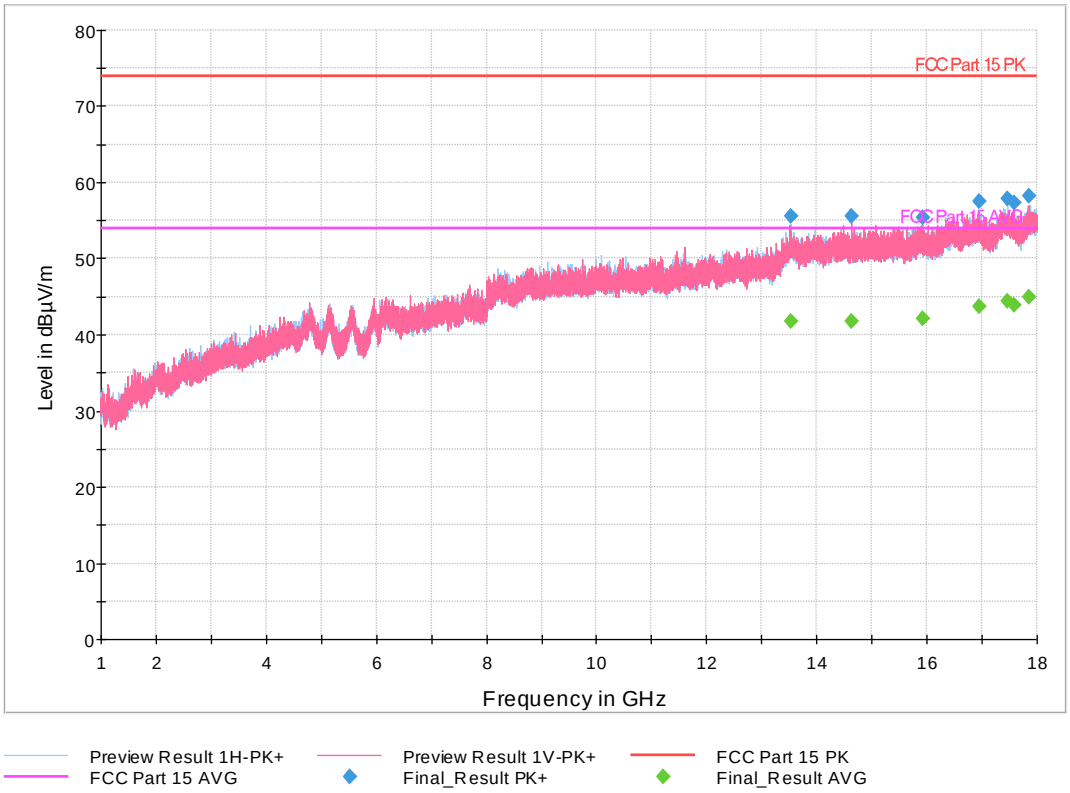


Figure 85: Radiated Emissions 1-18GHz – UNII-2A 802.11n HT20 Low Channel 5260MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
15110.336000	55.93	---	74.00	18.07	1000.000	100.0	V	115.0	17.5
15110.336000	---	41.96	54.00	12.04	1000.000	100.0	V	115.0	17.5
16456.065000	---	43.57	54.00	10.43	1000.000	255.0	V	299.0	18.8
16456.065000	57.58	---	74.00	16.42	1000.000	255.0	V	299.0	18.8
16709.000000	---	43.13	54.00	10.87	1000.000	350.0	H	92.0	19.0
16709.000000	56.62	---	74.00	17.38	1000.000	350.0	H	92.0	19.0
16883.010000	56.85	---	74.00	17.15	1000.000	350.0	H	270.0	19.5
16883.010000	---	43.45	54.00	10.55	1000.000	350.0	H	270.0	19.5
17163.500971	55.90	---	74.00	18.10	1000.000	256.0	V	-1.0	19.3
17163.500971	---	42.64	54.00	11.36	1000.000	256.0	V	-1.0	19.3
17440.602000	58.35	---	74.00	15.65	1000.000	154.0	V	216.0	20.7
17440.602000	---	44.56	54.00	9.44	1000.000	154.0	V	216.0	20.7
17865.000971	---	44.85	54.00	9.15	1000.000	150.0	H	163.0	21.2
17865.000971	59.06	---	74.00	14.94	1000.000	150.0	H	163.0	21.2

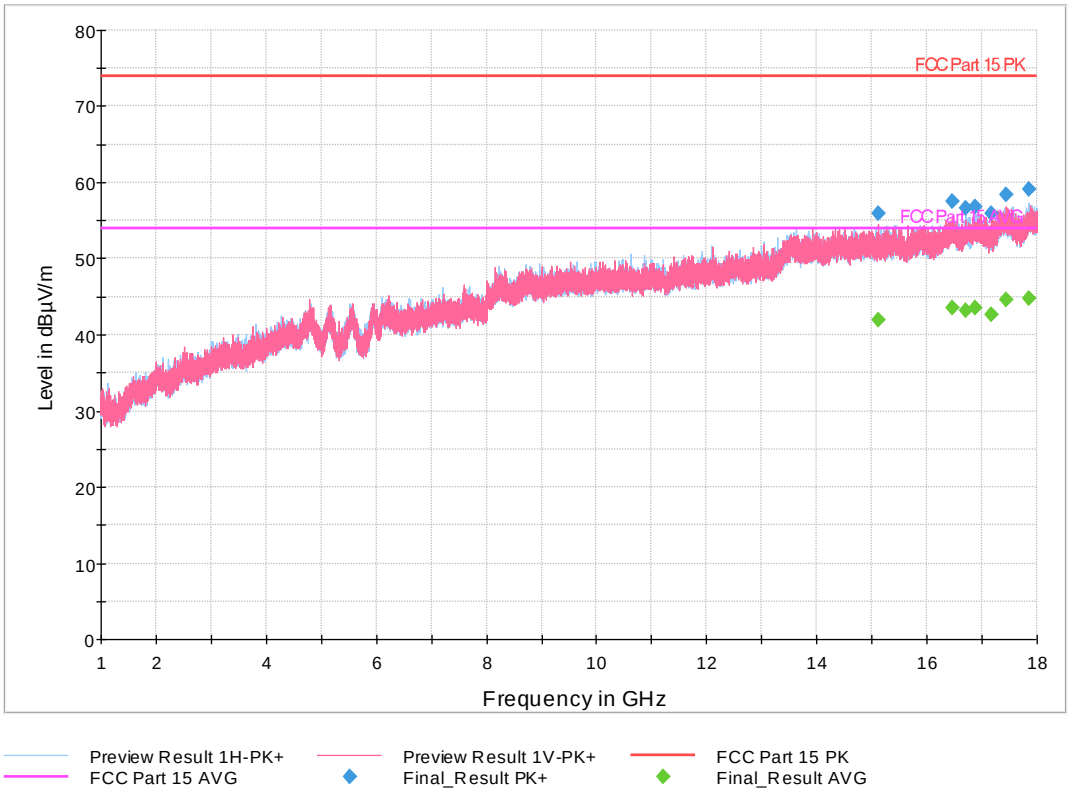


Figure 86: Radiated Emissions 1-18GHz – UNII-2A 802.11n HT20 Mid Channel 5300MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.021985	36.17	---	74.00	37.83	1000.000	100.0	V	287.0	-7.6
1000.021985	---	29.23	54.00	24.77	1000.000	100.0	V	287.0	-7.6
4814.531971	44.38	---	74.00	29.62	1000.000	100.0	V	35.0	7.2
4814.531971	---	30.77	54.00	23.23	1000.000	100.0	V	35.0	7.2
5313.780000	---	44.99	54.00	9.01	1000.000	156.0	V	255.0	7.4
5313.780000	57.95	---	74.00	16.05	1000.000	156.0	V	255.0	7.4
10638.000000	56.09	---	74.00	17.91	1000.000	100.0	V	-5.0	12.3
10638.000000	---	42.42	54.00	11.58	1000.000	100.0	V	-5.0	12.3
13520.610000	53.97	---	74.00	20.03	1000.000	100.0	H	337.0	15.8
13520.610000	---	40.13	54.00	13.87	1000.000	100.0	H	337.0	15.8
16434.000000	55.41	---	74.00	18.59	1000.000	350.0	V	6.0	18.7
16434.000000	---	41.43	54.00	12.57	1000.000	350.0	V	6.0	18.7
17384.607000	55.39	---	74.00	18.61	1000.000	356.0	V	175.0	20.9
17384.607000	---	41.69	54.00	12.31	1000.000	356.0	V	175.0	20.9
17972.000000	---	42.04	54.00	11.96	1000.000	250.0	H	137.0	21.2
17972.000000	55.34	---	74.00	18.66	1000.000	250.0	H	137.0	21.2

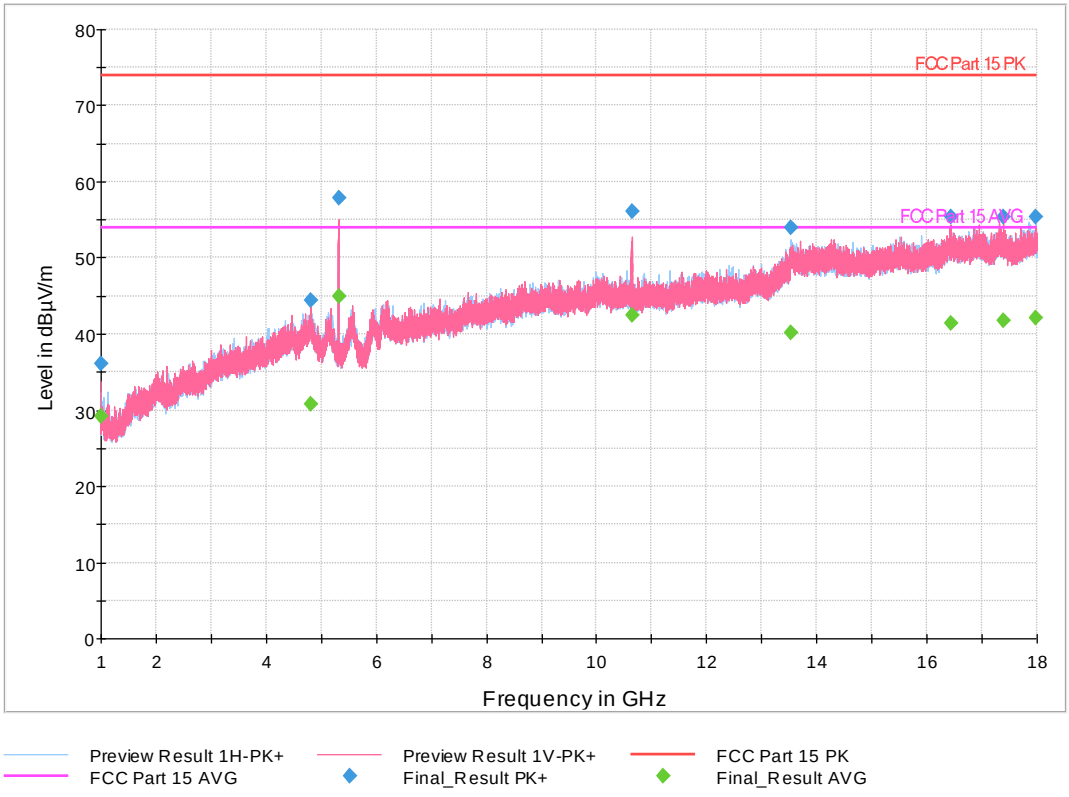


Figure 87: Radiated Emissions 1-18GHz – UNII-2A 802.11n HT20 High Channel 5320MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	36.34	---	74.00	37.66	1000.000	100.0	V	339.0	-7.6
1000.000985	---	29.42	54.00	24.58	1000.000	100.0	V	339.0	-7.6
4711.313000	44.26	---	74.00	29.74	1000.000	153.0	V	324.0	7.9
4711.313000	---	29.50	54.00	24.50	1000.000	153.0	V	324.0	7.9
5500.999029	63.68	---	N/A*	N/A*	1000.000	154.0	H	81.0	7.9
5500.999029	---	51.67	N/A*	N/A*	1000.000	154.0	H	81.0	7.9
10999.000000	---	40.45	54.00	13.55	1000.000	156.0	V	246.0	12.9
10999.000000	53.81	---	74.00	20.19	1000.000	156.0	V	246.0	12.9
13521.903029	---	40.17	54.00	13.83	1000.000	105.0	V	110.0	15.8
13521.903029	53.67	---	74.00	20.33	1000.000	105.0	V	110.0	15.8
16453.405971	---	41.39	54.00	12.61	1000.000	150.0	H	266.0	18.8
16453.405971	54.85	---	74.00	19.15	1000.000	150.0	H	266.0	18.8
16502.433029	---	45.10	54.00	8.90	1000.000	150.0	V	82.0	18.9
16502.433029	61.75	---	74.00	12.25	1000.000	150.0	V	82.0	18.9
16884.043971	55.00	---	74.00	19.00	1000.000	350.0	H	29.0	19.5
16884.043971	---	41.35	54.00	12.65	1000.000	350.0	H	29.0	19.5
17976.864000	---	42.01	54.00	11.99	1000.000	154.0	H	310.0	21.2
17976.864000	55.38	---	74.00	18.62	1000.000	154.0	H	310.0	21.2

*Fundamental transmission is excluded from spurious emission limits

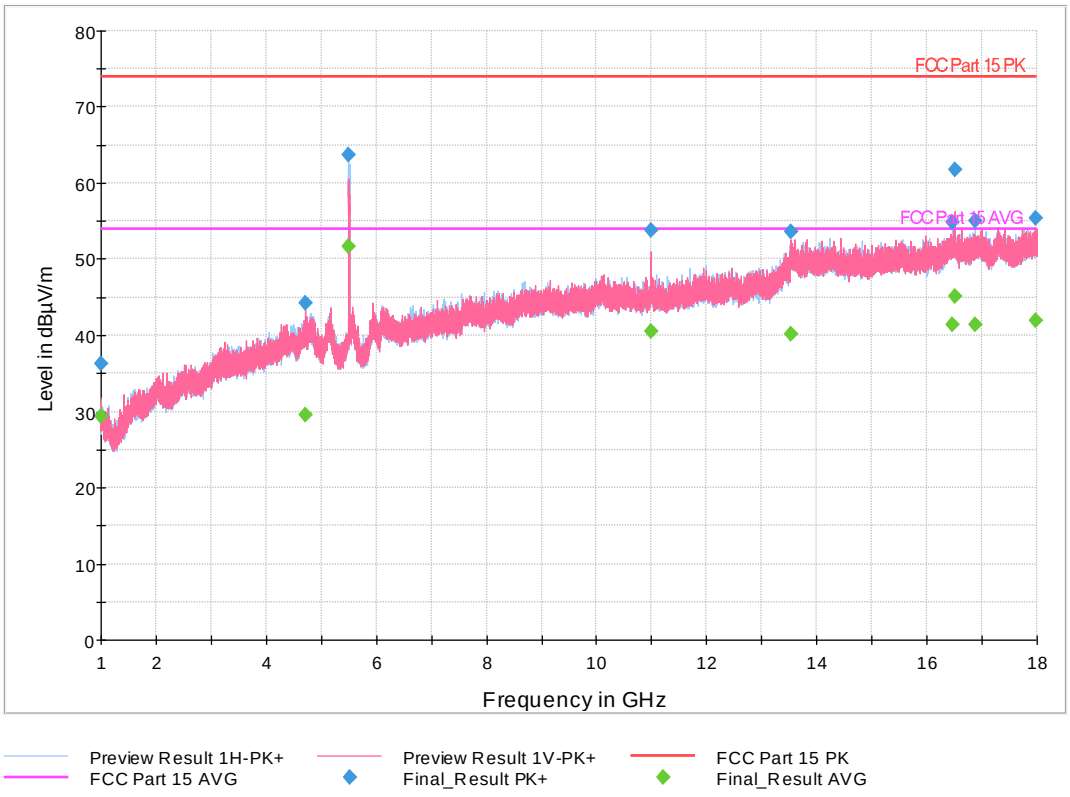


Figure 88: Radiated Emissions 1-18GHz – UNII-2C 802.11n HT20 Low Channel 5500MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5296.630971	63.63	---	74.00	10.37	1000.000	155.0	V	259.0	7.3
5296.630971	---	52.12	54.00	1.88	1000.000	155.0	V	259.0	7.3
10588.000000	---	52.37	54.00	1.63	1000.000	100.0	V	345.0	12.4
10588.000000	66.92	---	74.00	7.08	1000.000	100.0	V	345.0	12.4
13505.000000	55.98	---	74.00	18.02	1000.000	155.0	H	-5.0	15.9
13505.000000	---	42.08	54.00	11.92	1000.000	155.0	H	-5.0	15.9
15875.347971	63.67	---	74.00	10.33	1000.000	153.0	V	0.0	18.2
15875.347971	---	47.93	54.00	6.07	1000.000	153.0	V	0.0	18.2
16963.999029	57.79	---	74.00	16.21	1000.000	100.0	V	75.0	19.9
16963.999029	---	43.81	54.00	10.19	1000.000	100.0	V	75.0	19.9
17409.602029	59.28	---	74.00	14.72	1000.000	100.0	V	177.0	20.9
17409.602029	---	44.86	54.00	9.14	1000.000	100.0	V	177.0	20.9
17941.373029	58.04	---	74.00	15.96	1000.000	100.0	H	66.0	21.2
17941.373029	---	44.91	54.00	9.09	1000.000	100.0	H	66.0	21.2

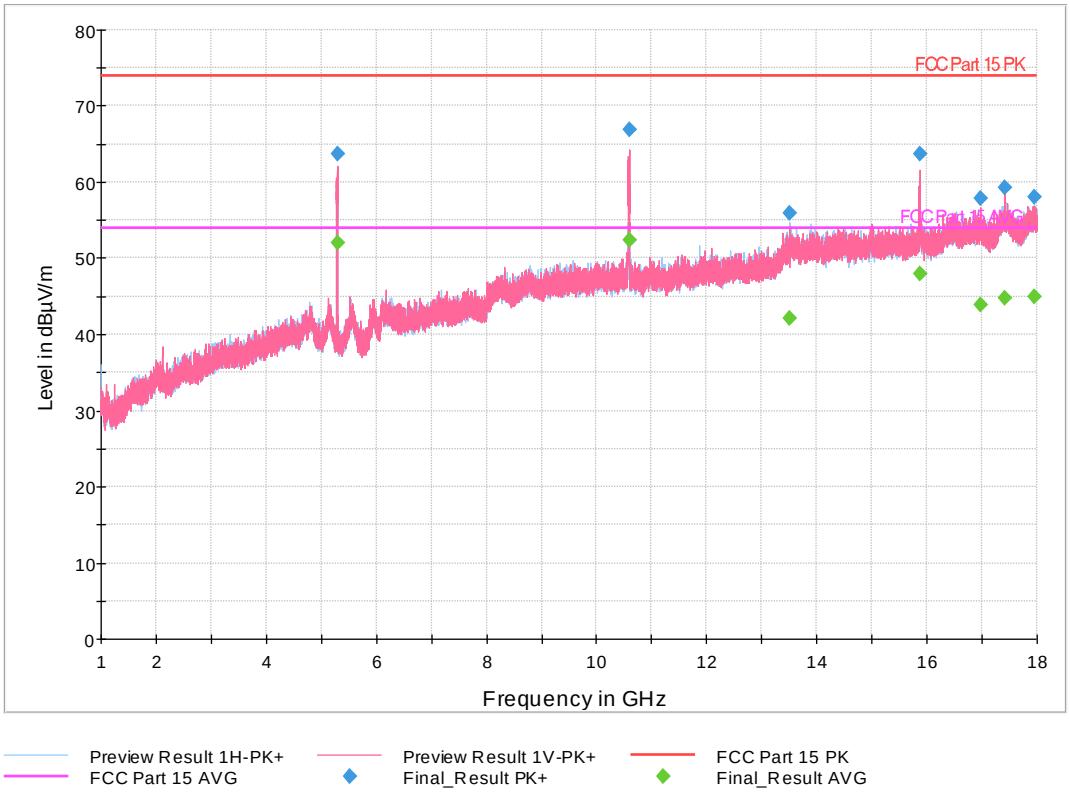


Figure 89: Radiated Emissions 1-18GHz – UNII-2C 802.11n HT20 Mid Channel 5600MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2034.606029	38.19	---	74.00	35.81	1000.000	354.0	H	138.0	-1.3
2034.606029	---	24.63	54.00	29.37	1000.000	354.0	H	138.0	-1.3
3720.594971	---	27.66	54.00	26.34	1000.000	150.0	V	298.0	3.5
3720.594971	41.37	---	74.00	32.63	1000.000	150.0	V	298.0	3.5
5699.000000	76.04	---	N/A*	N/A*	1000.000	153.0	H	117.0	7.6
5699.000000	---	64.96	N/A*	N/A*	1000.000	153.0	H	117.0	7.6
11398.578000	57.85	---	74.00	16.15	1000.000	100.0	V	99.0	12.7
11398.578000	---	44.41	54.00	9.59	1000.000	100.0	V	99.0	12.7
13973.712000	55.18	---	74.00	18.82	1000.000	253.0	H	50.0	16.8
13973.712000	---	41.48	54.00	12.52	1000.000	253.0	H	50.0	16.8
15387.500971	55.19	---	74.00	18.81	1000.000	355.0	V	178.0	17.7
15387.500971	---	41.87	54.00	12.13	1000.000	355.0	V	178.0	17.7
16689.740000	57.55	---	74.00	16.45	1000.000	100.0	H	308.0	18.9
16689.740000	---	43.31	54.00	10.69	1000.000	100.0	H	308.0	18.9
17093.820029	---	43.66	54.00	10.34	1000.000	104.0	V	47.0	19.5
17093.820029	57.35	---	74.00	16.65	1000.000	104.0	V	47.0	19.5
17397.743000	58.36	---	74.00	15.64	1000.000	154.0	V	219.0	20.9
17397.743000	---	44.92	54.00	9.08	1000.000	154.0	V	219.0	20.9
17825.500000	58.47	---	74.00	15.53	1000.000	256.0	H	96.0	20.9
17825.500000	---	44.65	54.00	9.35	1000.000	256.0	H	96.0	20.9

*Fundamental transmission is excluded from spurious emission limits

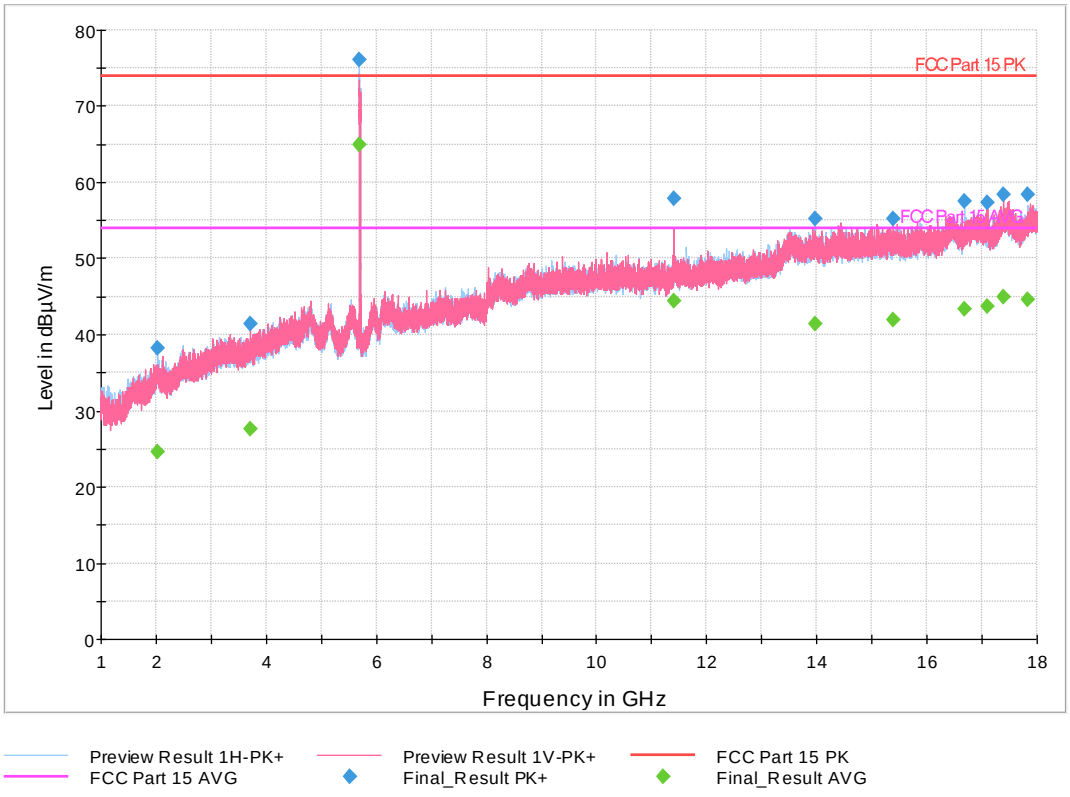


Figure 90: Radiated Emissions 1-18GHz – UNII-2C 802.11n HT20 High Channel 5700MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
14518.500000	55.37	---	74.00	18.63	1000.000	100.0	V	227.0	17.5
14518.500000	---	41.91	54.00	12.09	1000.000	100.0	V	227.0	17.5
15983.569000	55.65	---	74.00	18.35	1000.000	250.0	V	241.0	18.1
15983.569000	---	42.15	54.00	11.85	1000.000	250.0	V	241.0	18.1
16476.209000	---	43.51	54.00	10.49	1000.000	155.0	H	138.0	18.9
16476.209000	57.11	---	74.00	16.89	1000.000	155.0	H	138.0	18.9
16698.222000	---	43.24	54.00	10.76	1000.000	358.0	V	131.0	19.0
16698.222000	56.38	---	74.00	17.62	1000.000	358.0	V	131.0	19.0
16952.500000	---	43.76	54.00	10.24	1000.000	250.0	H	99.0	19.9
16952.500000	57.23	---	74.00	16.77	1000.000	250.0	H	99.0	19.9
17407.555029	58.31	---	74.00	15.69	1000.000	354.0	H	24.0	20.9
17407.555029	---	44.77	54.00	9.23	1000.000	354.0	H	24.0	20.9
17853.000971	58.27	---	74.00	15.73	1000.000	154.0	V	99.0	21.2
17853.000971	---	44.94	54.00	9.06	1000.000	154.0	V	99.0	21.2

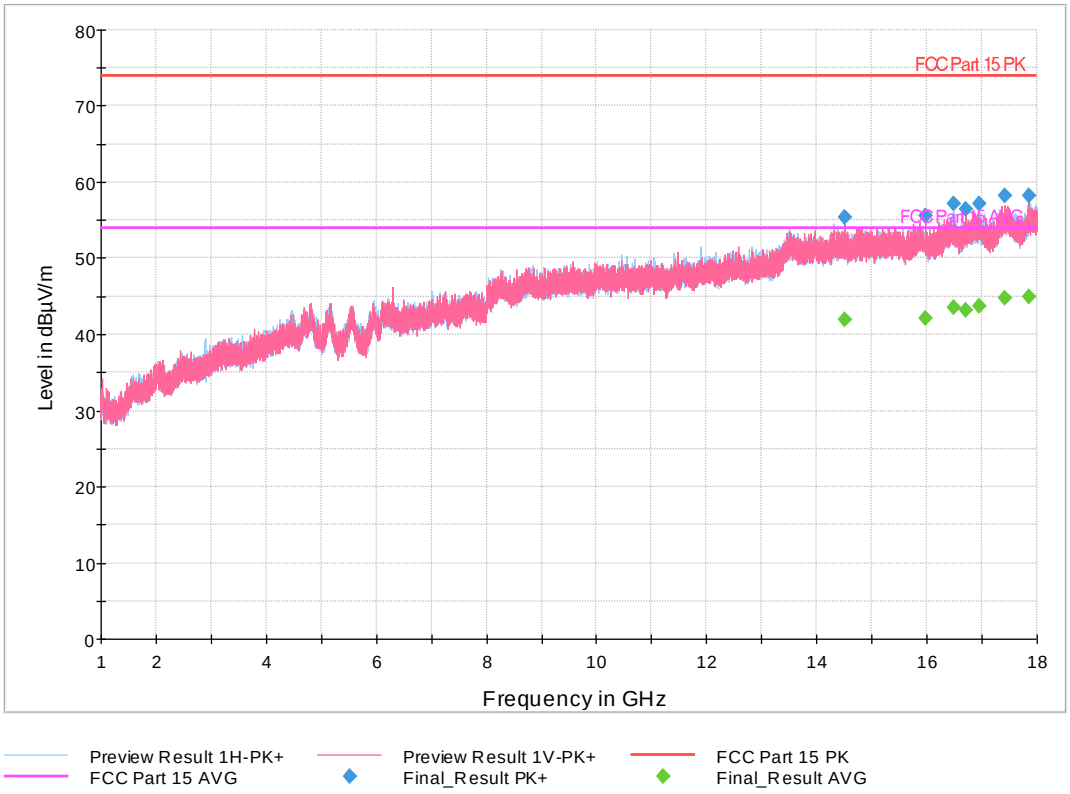


Figure 91: Radiated Emissions 1-18GHz – UNII-2A 802.11ac VHT20 Low Channel 5260MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5303.500000	63.23	---	N/A*	N/A*	1000.000	154.0	V	254.0	7.4
5303.500000	---	51.24	N/A*	N/A*	1000.000	154.0	V	254.0	7.4
10592.064029	63.32	---	74.00	10.68	1000.000	155.0	V	-5.0	12.4
10592.064029	---	48.92	54.00	5.08	1000.000	155.0	V	-5.0	12.4
13510.187000	55.67	---	74.00	18.33	1000.000	150.0	H	147.0	15.9
13510.187000	---	41.97	54.00	12.03	1000.000	150.0	H	147.0	15.9
15891.000971	61.91	---	74.00	12.09	1000.000	153.0	V	323.0	18.2
15891.000971	---	46.21	54.00	7.79	1000.000	153.0	V	323.0	18.2
16972.583000	---	43.78	54.00	10.22	1000.000	104.0	V	184.0	19.9
16972.583000	57.67	---	74.00	16.33	1000.000	104.0	V	184.0	19.9
17390.302000	58.39	---	74.00	15.61	1000.000	354.0	V	109.0	20.9
17390.302000	---	44.77	54.00	9.23	1000.000	354.0	V	109.0	20.9
17850.335971	58.23	---	74.00	15.77	1000.000	250.0	V	138.0	21.2
17850.335971	---	44.97	54.00	9.03	1000.000	250.0	V	138.0	21.2

*Fundamental transmission is excluded from spurious emission limits

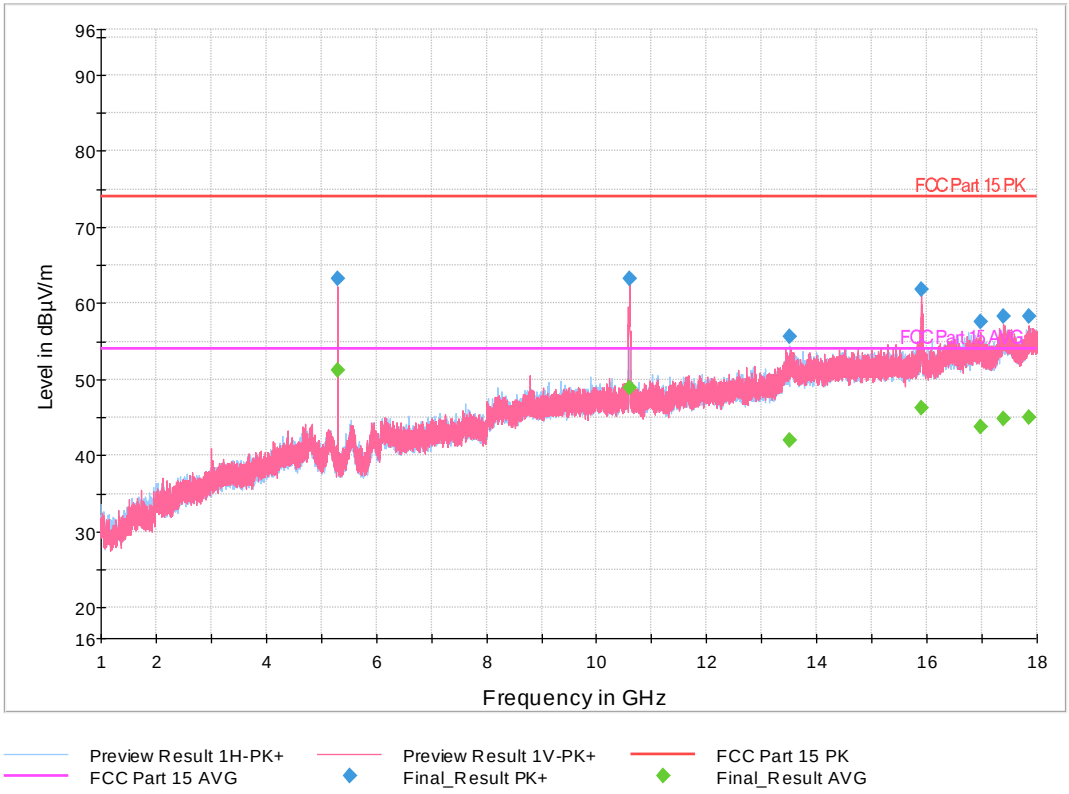


Figure 92: Radiated Emissions 1-18GHz – UNII-2A 802.11ac VHT20 Mid Channel 5300MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	23.50	54.00	30.50	1000.000	256.0	V	277.0	-7.6
1000.000985	34.64	---	74.00	39.36	1000.000	256.0	V	277.0	-7.6
1911.000000	---	19.84	54.00	34.16	1000.000	354.0	H	124.0	-2.9
1911.000000	33.90	---	74.00	40.10	1000.000	354.0	H	124.0	-2.9
4044.512971	---	27.24	54.00	26.76	1000.000	254.0	V	19.0	4.7
4044.512971	41.07	---	74.00	32.93	1000.000	254.0	V	19.0	4.7
5312.873971	---	47.35	N/A*	N/A*	1000.000	155.0	V	250.0	7.4
5312.873971	59.60	---	N/A*	N/A*	1000.000	155.0	V	250.0	7.4
9311.500971	---	34.24	54.00	19.76	1000.000	150.0	V	337.0	11.0
9311.500971	47.72	---	74.00	26.28	1000.000	150.0	V	337.0	11.0
10638.586029	---	44.19	54.00	9.81	1000.000	100.0	V	354.0	12.3
10638.586029	57.98	---	74.00	16.02	1000.000	100.0	V	354.0	12.3
14267.714971	---	40.04	54.00	13.96	1000.000	100.0	V	172.0	17.3
14267.714971	53.70	---	74.00	20.30	1000.000	100.0	V	172.0	17.3
16098.500000	---	40.62	54.00	13.38	1000.000	100.0	H	326.0	18.4
16098.500000	54.33	---	74.00	19.67	1000.000	100.0	H	326.0	18.4
17408.499029	55.23	---	74.00	18.77	1000.000	104.0	V	339.0	20.9
17408.499029	---	41.64	54.00	12.36	1000.000	104.0	V	339.0	20.9
17904.999029	56.48	---	74.00	17.52	1000.000	105.0	V	275.0	21.3
17904.999029	---	41.90	54.00	12.10	1000.000	105.0	V	275.0	21.3

*Fundamental transmission is excluded from spurious emission limits

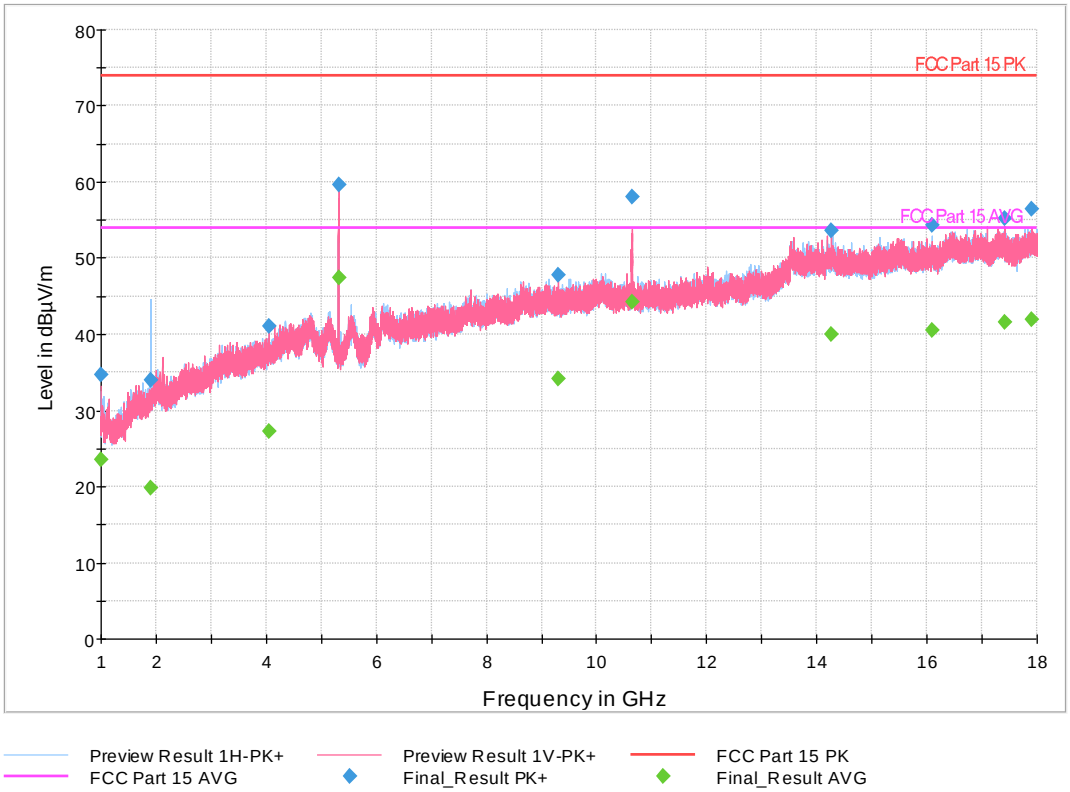


Figure 93: Radiated Emissions 1-18GHz – UNII-2A 802.11ac VHT20 High Channel 5320MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	29.18	54.00	24.82	1000.000	103.0	V	335.0	-7.6
1000.000985	35.89	---	74.00	38.11	1000.000	103.0	V	335.0	-7.6
3821.945971	41.10	---	74.00	32.90	1000.000	100.0	H	22.0	3.7
3821.945971	---	26.65	54.00	27.35	1000.000	100.0	H	22.0	3.7
5491.900000	---	52.53	N/A*	N/A*	1000.000	154.0	H	65.0	7.8
5491.900000	63.59	---	N/A*	N/A*	1000.000	154.0	H	65.0	7.8
10996.858971	---	40.53	54.00	13.47	1000.000	150.0	H	77.0	12.9
10996.858971	54.57	---	74.00	19.43	1000.000	150.0	H	77.0	12.9
13552.318029	---	40.09	54.00	13.91	1000.000	100.0	H	179.0	15.7
13552.318029	53.81	---	74.00	20.19	1000.000	100.0	H	179.0	15.7
16502.999029	---	44.69	54.00	9.31	1000.000	103.0	V	96.0	18.9
16502.999029	62.52	---	74.00	11.48	1000.000	103.0	V	96.0	18.9
17981.529971	56.18	---	74.00	17.82	1000.000	150.0	H	117.0	21.2
17981.529971	---	41.99	54.00	12.01	1000.000	150.0	H	117.0	21.2

*Fundamental transmission is excluded from spurious emission limits

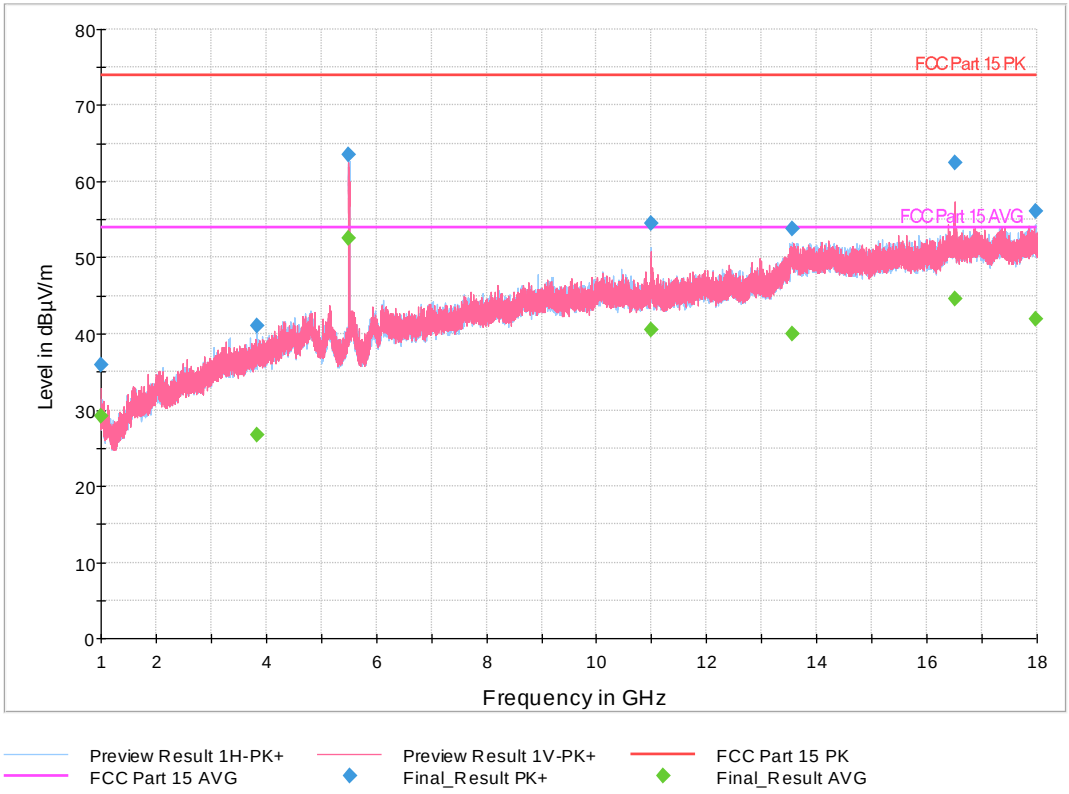


Figure 94: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT20 Low Channel 5500MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2198.500000	43.04	---	74.00	30.96	1000.000	150.0	V	12.0	-3.2
2198.500000	---	23.74	54.00	30.26	1000.000	150.0	V	12.0	-3.2
5594.606029	70.77	---	N/A*	N/A*	1000.000	154.0	H	107.0	7.7
5594.606029	---	59.08	N/A*	N/A*	1000.000	154.0	H	107.0	7.7
11199.720000	60.99	---	74.00	13.01	1000.000	154.0	H	84.0	12.6
11199.720000	---	47.11	54.00	6.89	1000.000	154.0	H	84.0	12.6
13528.968000	---	41.91	54.00	12.09	1000.000	355.0	H	309.0	15.8
13528.968000	55.01	---	74.00	18.99	1000.000	355.0	H	309.0	15.8
14847.500971	55.85	---	74.00	18.15	1000.000	153.0	V	12.0	17.6
14847.500971	---	42.03	54.00	11.97	1000.000	153.0	V	12.0	17.6
15835.500971	---	42.09	54.00	11.91	1000.000	255.0	V	27.0	18.0
15835.500971	55.75	---	74.00	18.25	1000.000	255.0	V	27.0	18.0
16802.500971	---	44.82	54.00	9.18	1000.000	155.0	V	70.0	18.9
16802.500971	59.85	---	74.00	14.15	1000.000	155.0	V	70.0	18.9
17461.520000	58.85	---	74.00	15.15	1000.000	105.0	V	226.0	20.6
17461.520000	---	44.67	54.00	9.33	1000.000	105.0	V	226.0	20.6
17992.437971	58.54	---	74.00	15.46	1000.000	100.0	H	341.0	21.2
17992.437971	---	44.96	54.00	9.04	1000.000	100.0	H	341.0	21.2

* Fundamental transmission is excluded from spurious emission limits

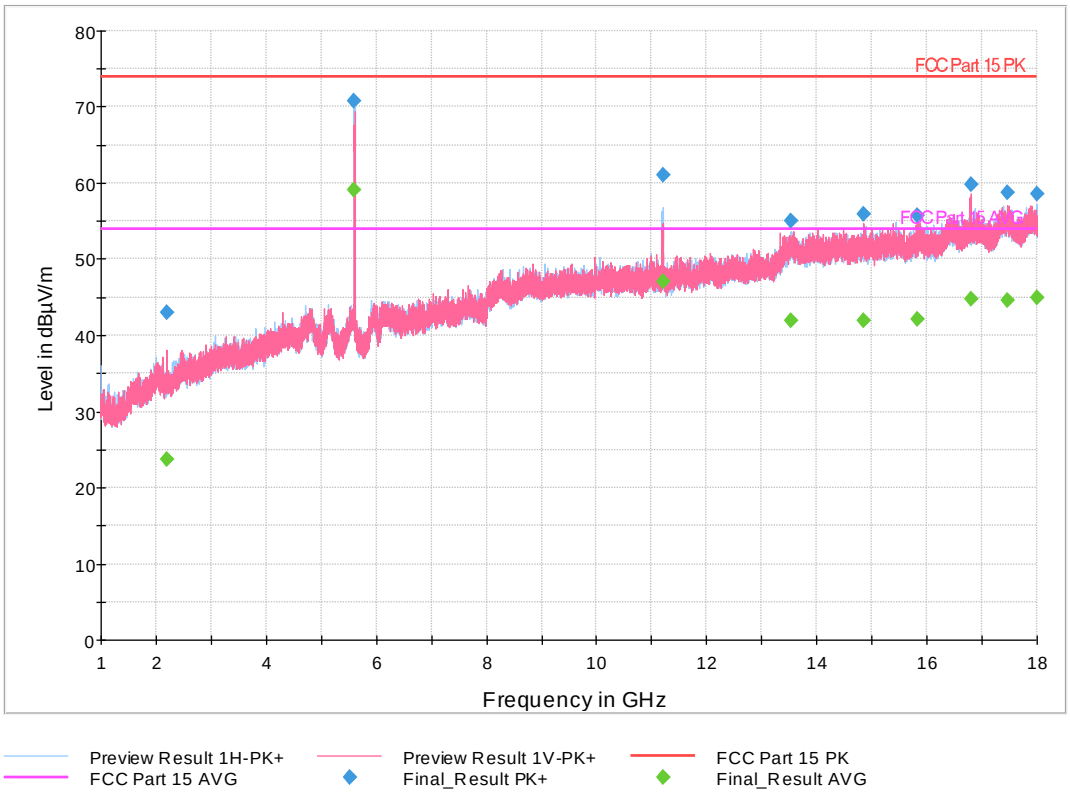


Figure 95: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT20 Mid Channel 5600MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.099985	---	30.96	54.00	23.04	1000.000	100.0	H	253.0	-7.6
1000.099985	37.65	---	74.00	36.35	1000.000	100.0	H	253.0	-7.6
5704.793029	75.14	---	N/A*	N/A*	1000.000	155.0	H	288.0	7.6
5704.793029	---	63.48	N/A*	N/A*	1000.000	155.0	H	288.0	7.6
11398.999029	---	41.75	54.00	12.25	1000.000	103.0	V	325.0	12.7
11398.999029	55.04	---	74.00	18.96	1000.000	103.0	V	325.0	12.7
13525.664000	---	40.13	54.00	13.87	1000.000	255.0	V	79.0	15.8
13525.664000	54.08	---	74.00	19.92	1000.000	255.0	V	79.0	15.8
15623.500971	---	40.10	54.00	13.90	1000.000	354.0	V	335.0	17.6
15623.500971	53.60	---	74.00	20.40	1000.000	354.0	V	335.0	17.6
17099.500000	59.35	---	74.00	14.65	1000.000	154.0	V	95.0	19.5
17099.500000	---	42.76	54.00	11.24	1000.000	154.0	V	95.0	19.5
17818.352000	---	41.87	54.00	12.13	1000.000	155.0	H	140.0	20.8
17818.352000	55.18	---	74.00	18.82	1000.000	155.0	H	140.0	20.8

*Fundamental transmission is excluded from spurious emission limits

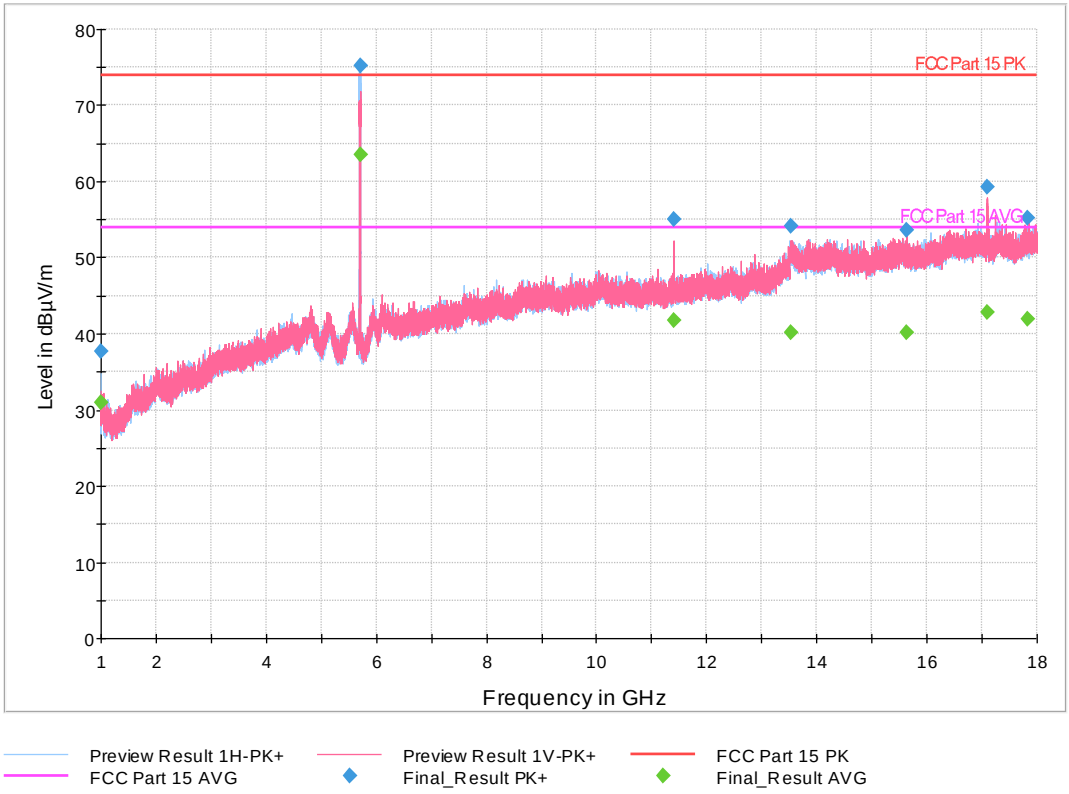


Figure 96: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT20 High Channel 5700MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5275.811000	64.17	---	N/A*	N/A*	1000.000	154.0	V	266.0	7.3
5275.811000	---	52.38	N/A*	N/A*	1000.000	154.0	V	266.0	7.3
10537.391000	64.83	---	74.00	9.17	1000.000	100.0	V	345.0	12.7
10537.391000	---	51.33	54.00	2.67	1000.000	100.0	V	345.0	12.7
13505.611029	55.49	---	74.00	18.51	1000.000	105.0	H	207.0	15.9
13505.611029	---	42.01	54.00	11.99	1000.000	105.0	H	207.0	15.9
15803.627971	67.25	---	74.00	6.75	1000.000	100.0	V	338.0	17.8
15803.627971	---	50.32	54.00	3.68	1000.000	100.0	V	338.0	17.8
16815.653971	56.71	---	74.00	17.29	1000.000	104.0	V	322.0	19.0
16815.653971	---	43.28	54.00	10.72	1000.000	104.0	V	322.0	19.0
17074.365029	---	43.47	54.00	10.53	1000.000	350.0	V	283.0	19.6
17074.365029	56.71	---	74.00	17.29	1000.000	350.0	V	283.0	19.6
17491.463000	57.97	---	74.00	16.03	1000.000	157.0	V	32.0	20.5
17491.463000	---	44.58	54.00	9.42	1000.000	157.0	V	32.0	20.5

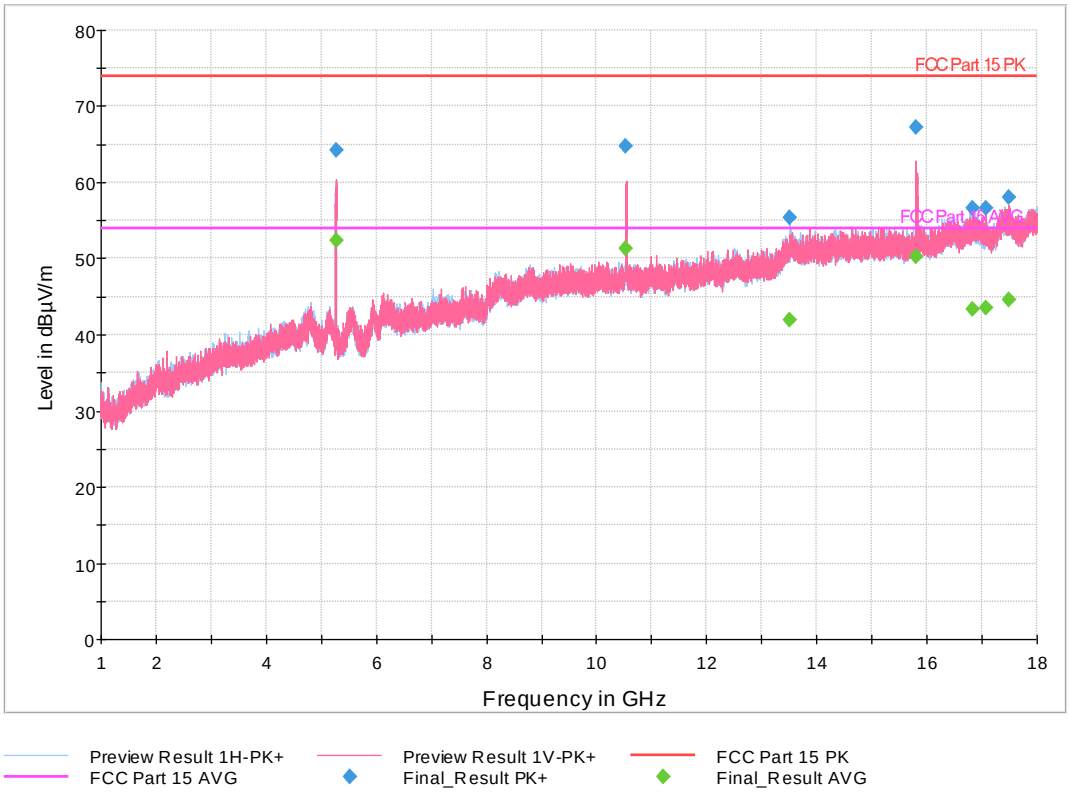


Figure 97: Radiated Emissions 1-18GHz – UNII-2A 802.11n HT40 Low Channel 5270MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	25.84	54.00	28.16	1000.000	104.0	H	133.0	-7.6
1000.000985	34.88	---	74.00	39.12	1000.000	104.0	H	133.0	-7.6
3140.053971	39.34	---	74.00	34.66	1000.000	356.0	H	13.0	1.4
3140.053971	---	25.29	54.00	28.71	1000.000	356.0	H	13.0	1.4
5318.000000	---	50.88	N/A*	N/A*	1000.000	155.0	V	0.0	7.4
5318.000000	62.99	---	N/A*	N/A*	1000.000	155.0	V	0.0	7.4
8591.500000	47.37	---	74.00	26.63	1000.000	153.0	V	-5.0	11.7
8591.500000	---	33.93	54.00	20.07	1000.000	153.0	V	-5.0	11.7
9145.686000	---	34.41	54.00	19.59	1000.000	250.0	H	150.0	12.0
9145.686000	47.93	---	74.00	26.07	1000.000	250.0	H	150.0	12.0
10618.407000	---	48.65	54.00	5.35	1000.000	100.0	V	328.0	12.3
10618.407000	62.11	---	74.00	11.89	1000.000	100.0	V	328.0	12.3
13529.499029	---	40.15	54.00	13.85	1000.000	353.0	V	337.0	15.8
13529.499029	54.06	---	74.00	19.94	1000.000	353.0	V	337.0	15.8
15919.972000	61.24	---	74.00	12.76	1000.000	100.0	V	328.0	18.1
15919.972000	---	43.84	54.00	10.16	1000.000	100.0	V	328.0	18.1
16545.499029	54.95	---	74.00	19.05	1000.000	153.0	V	7.0	18.8
16545.499029	---	41.18	54.00	12.82	1000.000	153.0	V	7.0	18.8
17722.613971	54.79	---	74.00	19.21	1000.000	353.0	V	290.0	20.2
17722.613971	---	41.43	54.00	12.57	1000.000	353.0	V	290.0	20.2
17859.015971	---	41.88	54.00	12.12	1000.000	250.0	V	152.0	21.2
17859.015971	55.77	---	74.00	18.23	1000.000	250.0	V	152.0	21.2
17918.954000	56.17	---	74.00	17.83	1000.000	250.0	V	167.0	21.3
17918.954000	---	41.96	54.00	12.04	1000.000	250.0	V	167.0	21.3

*Fundamental transmission is excluded from spurious emission limits

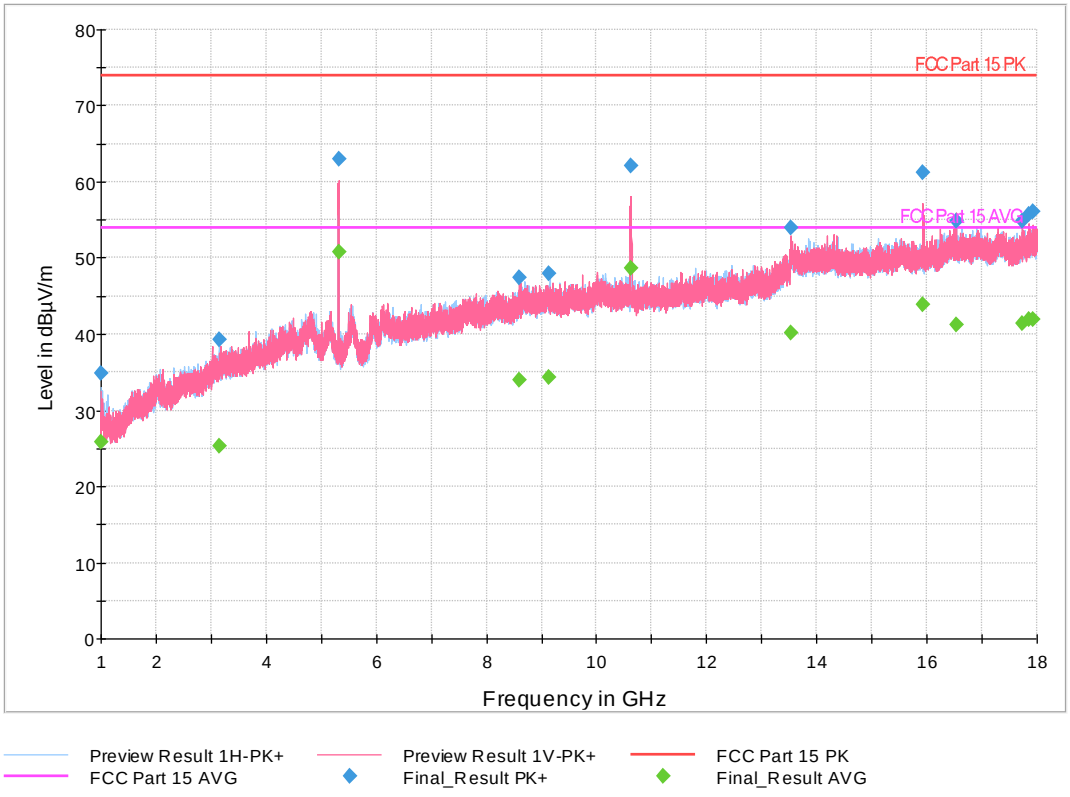


Figure 98: Radiated Emissions 1-18GHz – UNII-2A 802.11n HT40 High Channel 5310MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	21.68	54.00	32.32	1000.000	154.0	V	263.0	-7.6
1000.000985	33.48	---	74.00	40.52	1000.000	154.0	V	263.0	-7.6
1952.065000	35.61	---	74.00	38.39	1000.000	154.0	H	79.0	-2.1
1952.065000	---	21.46	54.00	32.54	1000.000	154.0	H	79.0	-2.1
3164.500971	39.22	---	74.00	34.78	1000.000	150.0	V	310.0	1.6
3164.500971	---	25.38	54.00	28.62	1000.000	150.0	V	310.0	1.6
5493.620000	60.77	---	N/A*	N/A*	1000.000	152.0	H	292.0	7.8
5493.620000	---	48.97	N/A*	N/A*	1000.000	152.0	H	292.0	7.8
10216.886000	48.88	---	74.00	25.12	1000.000	350.0	H	194.0	11.9
10216.886000	---	35.14	54.00	18.86	1000.000	350.0	H	194.0	11.9
13524.000000	---	40.09	54.00	13.91	1000.000	150.0	V	163.0	15.8
13524.000000	53.50	---	74.00	20.50	1000.000	150.0	V	163.0	15.8
14643.000971	53.01	---	74.00	20.99	1000.000	150.0	V	83.0	17.4
14643.000971	---	39.32	54.00	14.68	1000.000	150.0	V	83.0	17.4
16954.500000	55.44	---	74.00	18.56	1000.000	250.0	V	184.0	19.9
16954.500000	---	41.66	54.00	12.34	1000.000	250.0	V	184.0	19.9
17338.018029	---	41.76	54.00	12.24	1000.000	355.0	H	220.0	20.7
17338.018029	55.26	---	74.00	18.74	1000.000	355.0	H	220.0	20.7

*Fundamental transmission is excluded from spurious emission limits

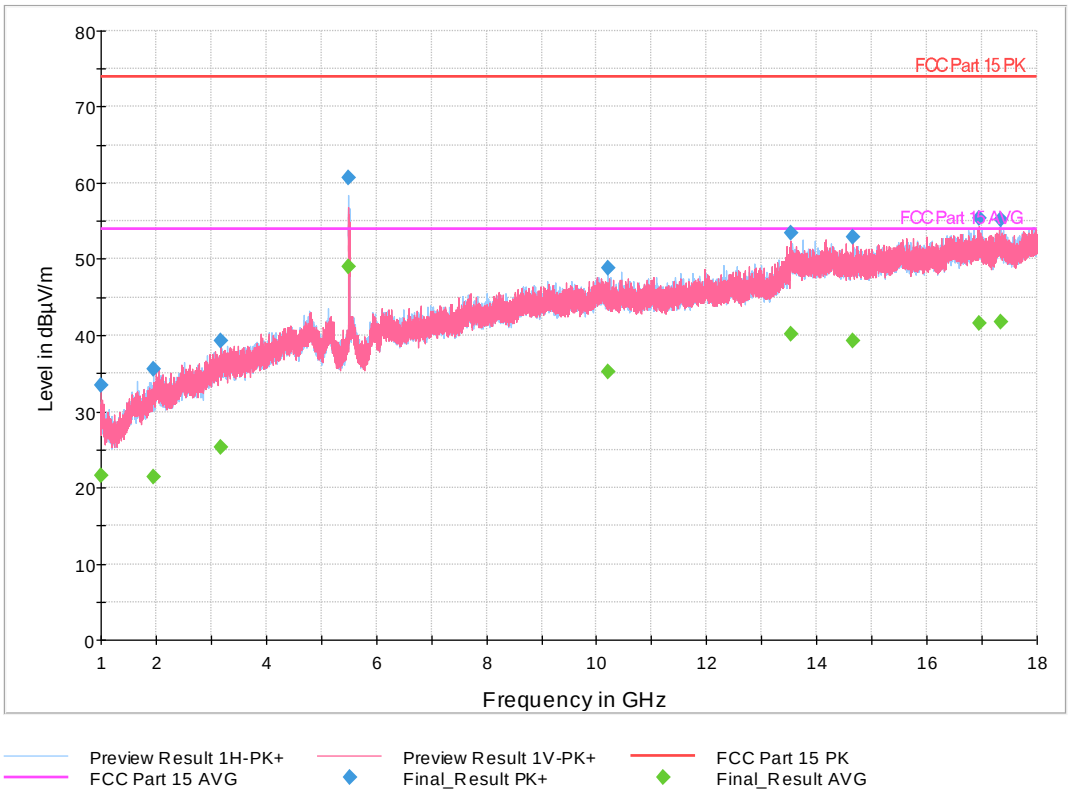


Figure 99: Radiated Emissions 1-18GHz – UNII-2C 802.11n HT40 Low Channel 5510MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	31.39	54.00	22.61	1000.000	100.0	H	79.0	-7.6
1000.000985	38.10	---	74.00	35.90	1000.000	100.0	H	79.0	-7.6
2487.715029	37.01	---	74.00	36.99	1000.000	150.0	H	27.0	-0.1
2487.715029	---	23.13	54.00	30.87	1000.000	150.0	H	27.0	-0.1
5597.025029	70.01	---	N/A*	N/A*	1000.000	155.0	H	305.0	7.7
5597.025029	---	58.97	N/A*	N/A*	1000.000	155.0	H	305.0	7.7
9922.000971	---	34.60	54.00	19.40	1000.000	350.0	V	143.0	12.6
9922.000971	48.13	---	74.00	25.87	1000.000	350.0	V	143.0	12.6
11189.000000	---	41.55	54.00	12.45	1000.000	150.0	H	279.0	12.6
11189.000000	58.49	---	74.00	15.51	1000.000	150.0	H	279.0	12.6
13606.188000	53.42	---	74.00	20.58	1000.000	100.0	H	283.0	15.4
13606.188000	---	39.52	54.00	14.48	1000.000	100.0	H	283.0	15.4
15561.388029	---	40.18	54.00	13.82	1000.000	103.0	V	1.0	18.0
15561.388029	54.23	---	74.00	19.77	1000.000	103.0	V	1.0	18.0
16508.431000	54.49	---	74.00	19.51	1000.000	100.0	H	128.0	18.9
16508.431000	---	41.22	54.00	12.78	1000.000	100.0	H	128.0	18.9
17920.516000	---	41.98	54.00	12.02	1000.000	357.0	V	325.0	21.3
17920.516000	55.79	---	74.00	18.21	1000.000	357.0	V	325.0	21.3

*Fundamental transmission is excluded from spurious emission limits

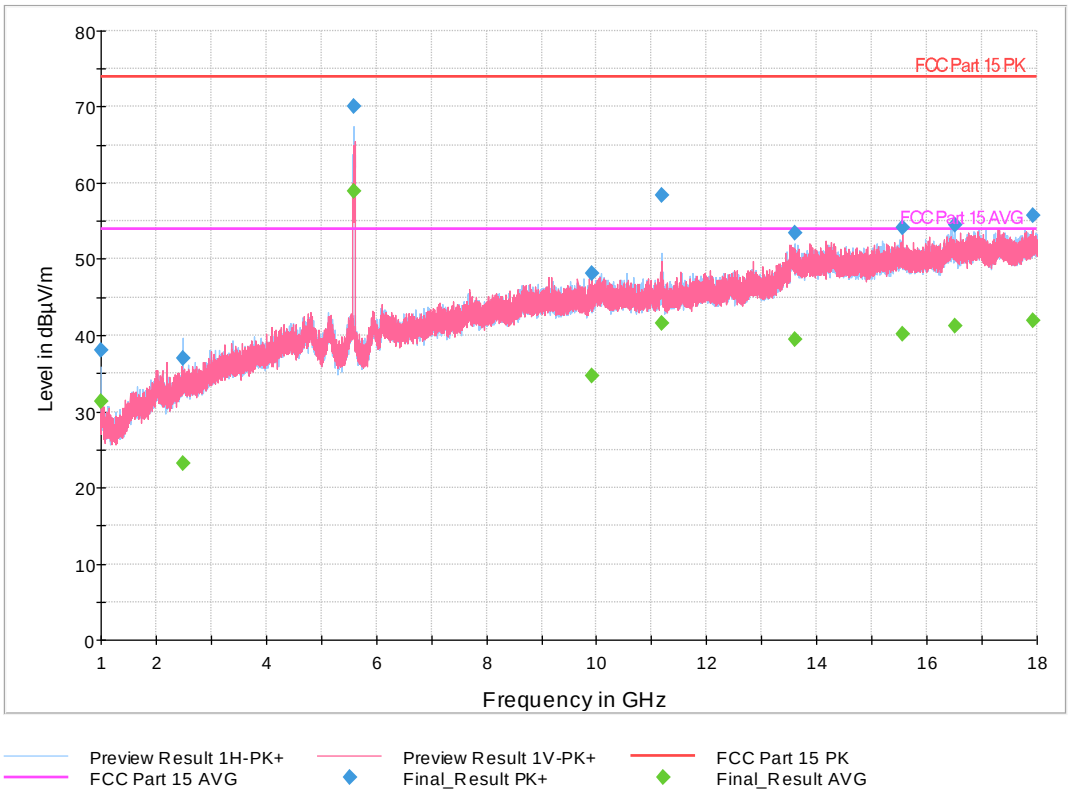


Figure 100: Radiated Emissions 1-18GHz – UNII-2C 802.11n HT40 Mid Channel 5590MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.010985	38.01	---	74.00	35.99	1000.000	100.0	H	242.0	-7.6
1000.010985	---	31.92	54.00	22.09	1000.000	100.0	H	242.0	-7.6
1998.638000	---	22.20	54.00	31.80	1000.000	253.0	H	283.0	-1.3
1998.638000	36.55	---	74.00	37.45	1000.000	253.0	H	283.0	-1.3
5663.500000	---	59.21	N/A*	N/A*	1000.000	155.0	H	119.0	7.6
5663.500000	71.00	---	N/A*	N/A*	1000.000	155.0	H	119.0	7.6
13598.861000	53.12	---	74.00	20.88	1000.000	350.0	H	121.0	15.4
13598.861000	---	39.53	54.00	14.47	1000.000	350.0	H	121.0	15.4
15529.499029	---	40.39	54.00	13.61	1000.000	106.0	H	-5.0	18.2
15529.499029	54.02	---	74.00	19.98	1000.000	106.0	H	-5.0	18.2
16981.850029	---	41.64	54.00	12.36	1000.000	155.0	V	260.0	19.9
16981.850029	55.10	---	74.00	18.90	1000.000	155.0	V	260.0	19.9
17987.872000	---	41.99	54.00	12.01	1000.000	355.0	V	28.0	21.2
17987.872000	55.59	---	74.00	18.41	1000.000	355.0	V	28.0	21.2

*Fundamental transmission is excluded from spurious emission limits

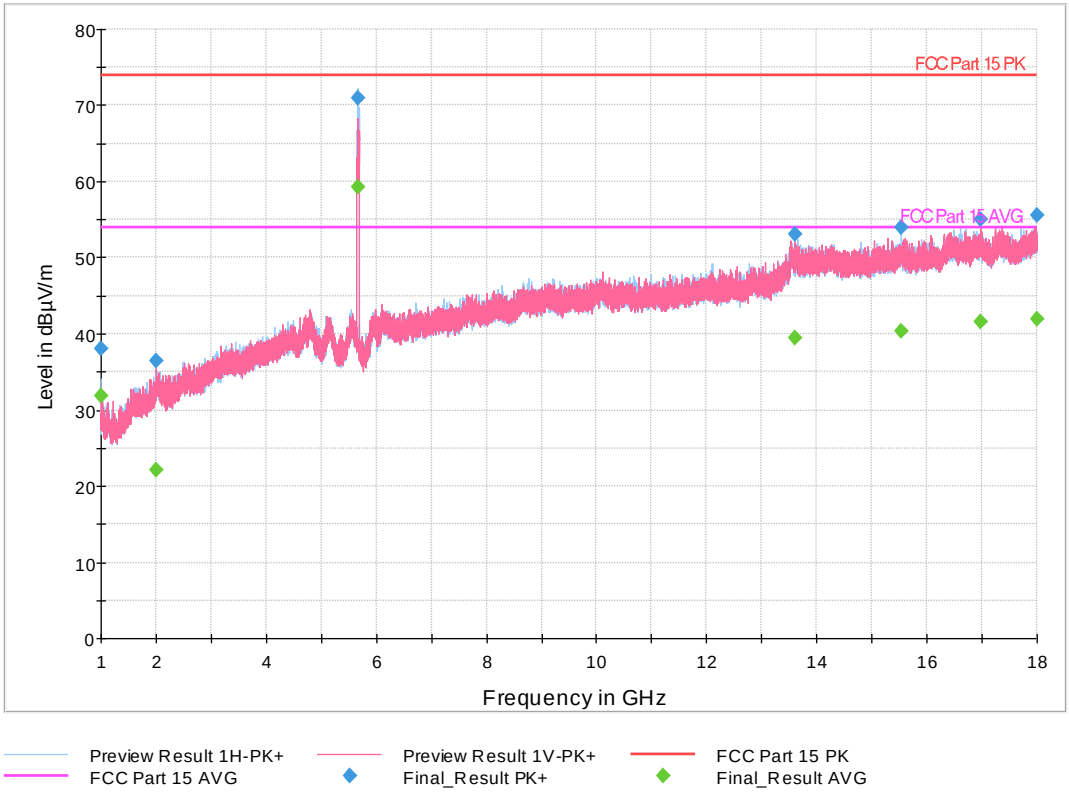


Figure 101: Radiated Emissions 1-18GHz – UNII-2C 802.11n HT40 High Channel 5670MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5276.500971	63.06	---	N/A*	N/A*	1000.000	150.0	V	2.0	7.3
5276.500971	---	51.88	N/A*	N/A*	1000.000	150.0	V	2.0	7.3
10538.230029	64.37	---	74.00	9.63	1000.000	100.0	V	340.0	12.7
10538.230029	---	51.10	54.00	2.90	1000.000	100.0	V	340.0	12.7
15467.000971	---	41.78	54.00	12.22	1000.000	250.0	V	232.0	18.1
15467.000971	55.08	---	74.00	18.92	1000.000	250.0	V	232.0	18.1
15819.000971	65.37	---	74.00	8.63	1000.000	100.0	V	330.0	17.9
15819.000971	---	48.65	54.00	5.35	1000.000	100.0	V	330.0	17.9
16480.236971	57.08	---	74.00	16.92	1000.000	150.0	V	30.0	18.9
16480.236971	---	43.58	54.00	10.42	1000.000	150.0	V	30.0	18.9
17402.895029	---	44.89	54.00	9.11	1000.000	153.0	H	241.0	20.9
17402.895029	58.14	---	74.00	15.86	1000.000	153.0	H	241.0	20.9
17526.201000	---	44.43	54.00	9.57	1000.000	350.0	H	312.0	20.4
17526.201000	58.42	---	74.00	15.58	1000.000	350.0	H	312.0	20.4

*Fundamental transmission is excluded from spurious emission limits

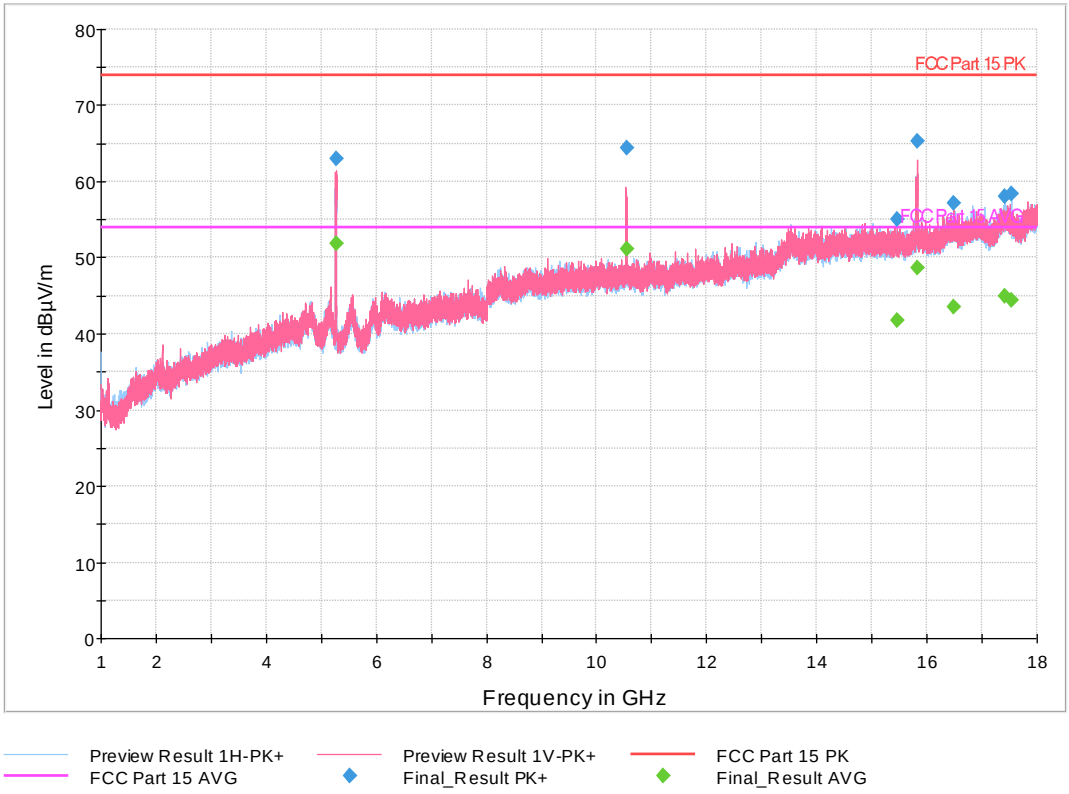


Figure 102: Radiated Emissions 1-18GHz – UNII-2A 802.11ac VHT40 Low Channel 5270MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5309.306000	---	51.10	N/A*	N/A*	1000.000	150.0	H	161.0	7.4
5309.306000	62.65	---	N/A*	N/A*	1000.000	150.0	H	161.0	7.4
10610.999029	---	50.61	54.00	3.39	1000.000	100.0	V	342.0	12.3
10610.999029	64.63	---	74.00	9.37	1000.000	100.0	V	342.0	12.3
14511.499029	---	41.91	54.00	12.09	1000.000	253.0	V	221.0	17.6
14511.499029	55.08	---	74.00	18.92	1000.000	253.0	V	221.0	17.6
15924.499029	---	48.48	54.00	5.52	1000.000	100.0	V	332.0	18.1
15924.499029	63.68	---	74.00	10.32	1000.000	100.0	V	332.0	18.1
17356.442000	58.07	---	74.00	15.93	1000.000	250.0	V	198.0	20.8
17356.442000	---	44.42	54.00	9.58	1000.000	250.0	V	198.0	20.8
17428.500000	---	44.79	54.00	9.21	1000.000	100.0	V	182.0	20.7
17428.500000	58.15	---	74.00	15.85	1000.000	100.0	V	182.0	20.7
17899.084000	58.26	---	74.00	15.74	1000.000	250.0	H	323.0	21.4
17899.084000	---	44.95	54.00	9.05	1000.000	250.0	H	323.0	21.4

*Fundamental transmission is excluded from spurious emission limits

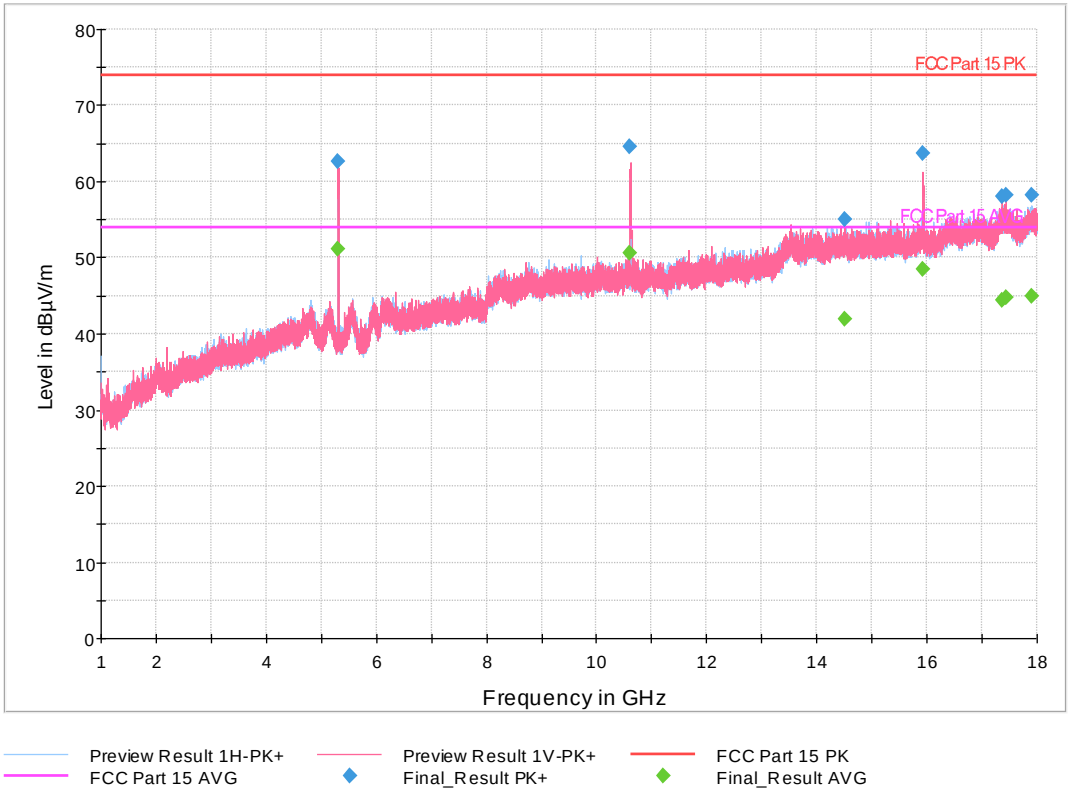


Figure 103: Radiated Emissions 1-18GHz – UNII-2A 802.11ac VHT40 High Channel 5310MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.086985	33.05	---	74.00	40.95	1000.000	255.0	H	274.0	-7.6
1000.086985	---	22.01	54.00	31.99	1000.000	255.0	H	274.0	-7.6
2201.220029	41.56	---	74.00	32.44	1000.000	100.0	V	-5.0	-3.2
2201.220029	---	21.53	54.00	32.47	1000.000	100.0	V	-5.0	-3.2
2476.877971	---	22.95	54.00	31.05	1000.000	154.0	V	188.0	-0.1
2476.877971	37.18	---	74.00	36.82	1000.000	154.0	V	188.0	-0.1
3488.499029	---	25.67	54.00	28.33	1000.000	255.0	H	155.0	2.6
3488.499029	39.48	---	74.00	34.52	1000.000	255.0	H	155.0	2.6
5508.252000	---	47.72	N/A*	N/A*	1000.000	104.0	H	63.0	7.9
5508.252000	59.23	---	N/A*	N/A*	1000.000	104.0	H	63.0	7.9
8999.500000	47.94	---	74.00	26.06	1000.000	355.0	H	238.0	11.6
8999.500000	---	34.30	54.00	19.70	1000.000	355.0	H	238.0	11.6
13397.909000	51.78	---	74.00	22.22	1000.000	350.0	H	49.0	16.0
13397.909000	---	38.27	54.00	15.73	1000.000	350.0	H	49.0	16.0
15476.509000	---	40.05	54.00	13.95	1000.000	255.0	V	-5.0	18.1
15476.509000	53.94	---	74.00	20.06	1000.000	255.0	V	-5.0	18.1
17305.499029	---	41.97	54.00	12.03	1000.000	350.0	V	117.0	20.8
17305.499029	55.27	---	74.00	18.73	1000.000	350.0	V	117.0	20.8
17961.991971	---	41.94	54.00	12.06	1000.000	350.0	V	206.0	21.2
17961.991971	55.57	---	74.00	18.43	1000.000	350.0	V	206.0	21.2

*Fundamental transmission is excluded from spurious emission limits

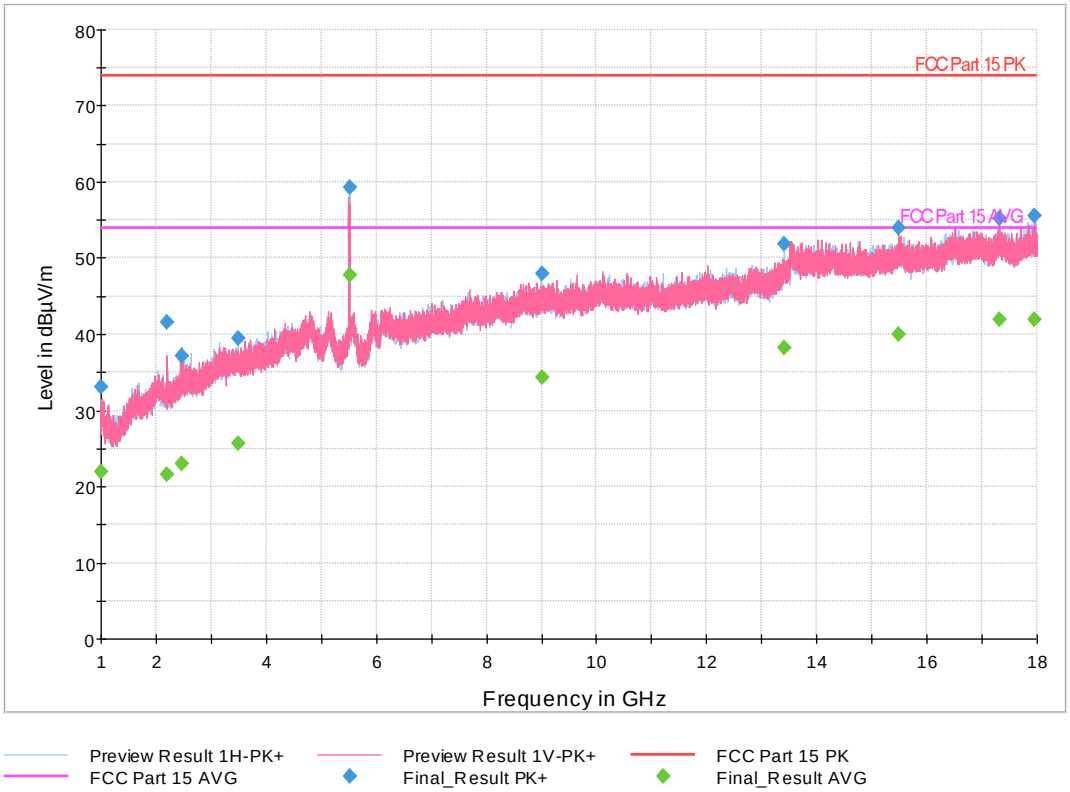


Figure 104: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT40 Low Channel 5510MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.017985	---	30.80	54.00	23.20	1000.000	100.0	H	87.0	-7.6
1000.017985	37.49	---	74.00	36.51	1000.000	100.0	H	87.0	-7.6
2460.111971	---	23.00	54.00	31.00	1000.000	350.0	H	125.0	-0.3
2460.111971	37.03	---	74.00	36.97	1000.000	350.0	H	125.0	-0.3
3852.499029	---	26.78	54.00	27.22	1000.000	255.0	V	93.0	3.8
3852.499029	41.43	---	74.00	32.57	1000.000	255.0	V	93.0	3.8
5596.999029	---	58.32	N/A*	N/A*	1000.000	155.0	H	304.0	7.7
5596.999029	69.65	---	N/A*	N/A*	1000.000	155.0	H	304.0	7.7
11181.596971	53.48	---	74.00	20.52	1000.000	154.0	V	327.0	12.6
11181.596971	---	39.16	54.00	14.84	1000.000	154.0	V	327.0	12.6
13549.233000	---	40.07	54.00	13.93	1000.000	150.0	H	207.0	15.7
13549.233000	53.94	---	74.00	20.06	1000.000	150.0	H	207.0	15.7
16762.709029	54.55	---	74.00	19.45	1000.000	155.0	H	39.0	18.9
16762.709029	---	41.28	54.00	12.72	1000.000	155.0	H	39.0	18.9
17832.157000	---	41.83	54.00	12.17	1000.000	350.0	V	50.0	21.0
17832.157000	55.51	---	74.00	18.49	1000.000	350.0	V	50.0	21.0

*Fundamental transmission is excluded from spurious emission limits

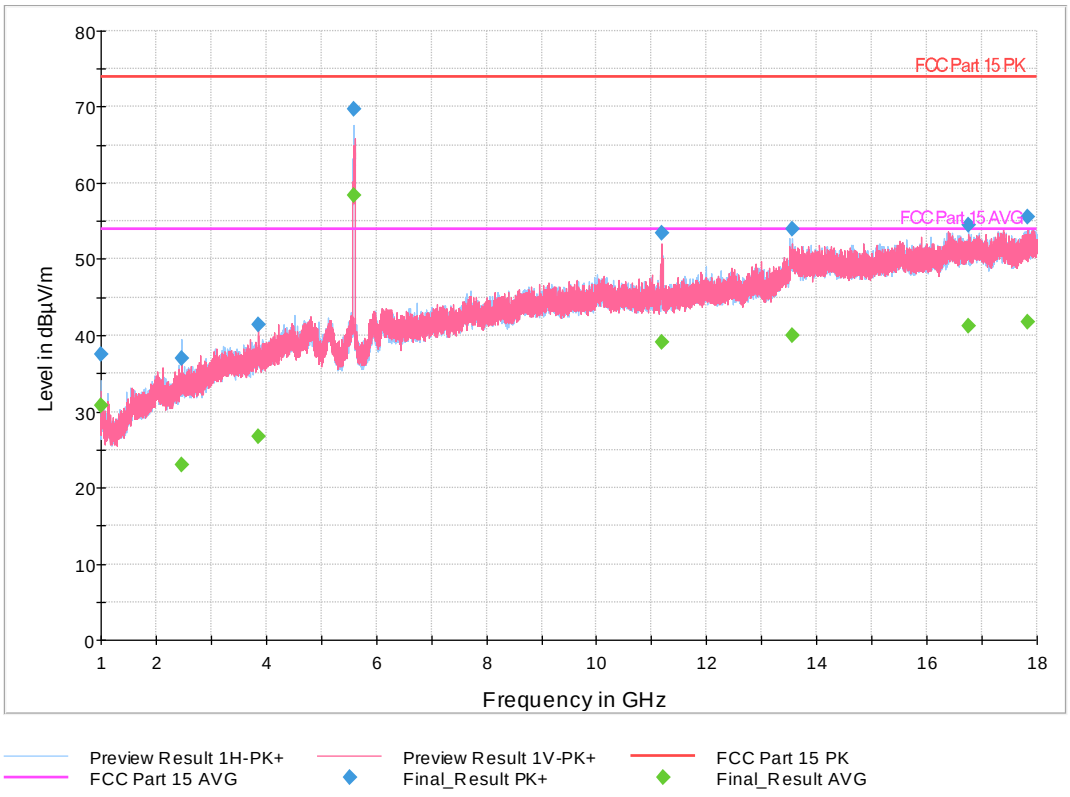


Figure 105: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT40 Mid Channel 5590MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	31.44	54.00	22.56	1000.000	100.0	H	74.0	-7.6
1000.000985	37.87	---	74.00	36.13	1000.000	100.0	H	74.0	-7.6
1999.930971	---	27.10	54.00	26.90	1000.000	154.0	V	163.0	-1.3
1999.930971	38.91	---	74.00	35.09	1000.000	154.0	V	163.0	-1.3
5673.500000	---	61.63	N/A*	N/A*	1000.000	154.0	H	295.0	7.6
5673.500000	73.82	---	N/A*	N/A*	1000.000	154.0	H	295.0	7.6
7348.500000	---	31.59	54.00	22.41	1000.000	250.0	V	178.0	9.2
7348.500000	45.07	---	74.00	28.93	1000.000	250.0	V	178.0	9.2
10105.241029	---	35.67	54.00	18.33	1000.000	250.0	H	118.0	12.8
10105.241029	49.61	---	74.00	24.39	1000.000	250.0	H	118.0	12.8
13670.266971	---	39.20	54.00	14.80	1000.000	250.0	V	231.0	15.6
13670.266971	52.68	---	74.00	21.32	1000.000	250.0	V	231.0	15.6
16493.595000	54.99	---	74.00	19.01	1000.000	250.0	H	188.0	18.9
16493.595000	---	41.33	54.00	12.67	1000.000	250.0	H	188.0	18.9
17310.471029	55.63	---	74.00	18.37	1000.000	106.0	H	229.0	20.8
17310.471029	---	41.95	54.00	12.05	1000.000	106.0	H	229.0	20.8
17921.006000	---	42.00	54.00	12.00	1000.000	250.0	H	46.0	21.3
17921.006000	55.59	---	74.00	18.41	1000.000	250.0	H	46.0	21.3

*Fundamental transmission is excluded from spurious emission limits

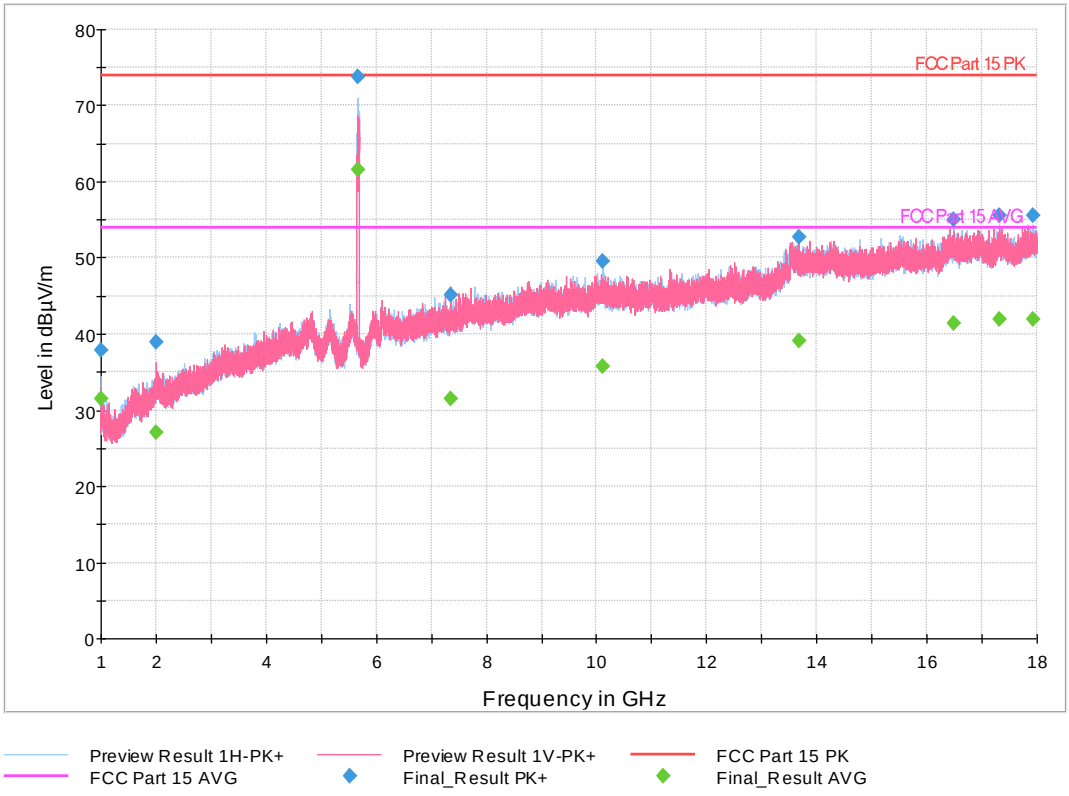


Figure 106: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT40 High Channel 5670MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5297.746000	---	51.22	N/A*	N/A*	1000.000	105.0	V	281.0	7.3
5297.746000	63.08	---	N/A*	N/A*	1000.000	105.0	V	281.0	7.3
10577.901029	---	52.78	54.00	1.22	1000.000	100.0	V	334.0	12.4
10577.901029	66.14	---	74.00	7.86	1000.000	100.0	V	334.0	12.4
15414.016000	55.24	---	74.00	18.76	1000.000	104.0	V	49.0	17.8
15414.016000	---	41.95	54.00	12.05	1000.000	104.0	V	49.0	17.8
15873.712971	62.89	---	74.00	11.11	1000.000	100.0	V	8.0	18.2
15873.712971	---	47.37	54.00	6.63	1000.000	100.0	V	8.0	18.2
16665.834971	---	42.90	54.00	11.10	1000.000	250.0	H	295.0	18.8
16665.834971	56.24	---	74.00	17.76	1000.000	250.0	H	295.0	18.8
16856.155971	---	43.65	54.00	10.35	1000.000	253.0	H	320.0	19.4
16856.155971	56.85	---	74.00	17.15	1000.000	253.0	H	320.0	19.4
17395.500971	---	44.90	54.00	9.10	1000.000	253.0	V	171.0	20.9
17395.500971	59.04	---	74.00	14.96	1000.000	253.0	V	171.0	20.9

*Fundamental transmission is excluded from spurious emission limits

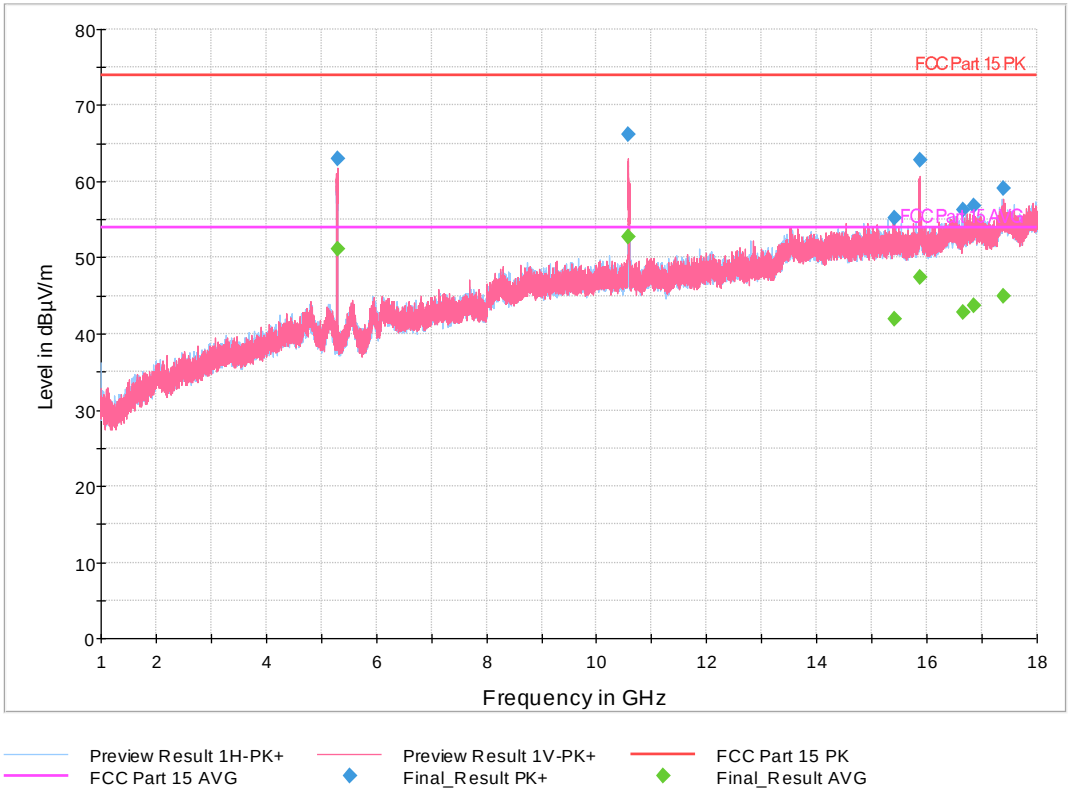


Figure 107: Radiated Emissions 1-18GHz – UNII-2A 802.11ac VHT80 Mid Channel 5290MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2111.890029	37.18	---	74.00	36.82	1000.000	250.0	H	234.0	-2.4
2111.890029	---	24.62	54.00	29.38	1000.000	250.0	H	234.0	-2.4
3189.340971	40.09	---	74.00	33.91	1000.000	150.0	H	330.0	1.9
3189.340971	---	25.19	54.00	28.81	1000.000	150.0	H	330.0	1.9
5566.000000	54.06	---	74.00	19.94	1000.000	154.0	H	298.0	7.8
5566.000000	---	41.66	54.00	12.34	1000.000	154.0	H	298.0	7.8
9090.380971	48.02	---	74.00	25.98	1000.000	350.0	V	356.0	12.1
9090.380971	---	34.70	54.00	19.30	1000.000	350.0	V	356.0	12.1
13502.679029	---	40.11	54.00	13.89	1000.000	354.0	H	306.0	15.9
13502.679029	53.67	---	74.00	20.34	1000.000	354.0	H	306.0	15.9
16611.524971	54.61	---	74.00	19.39	1000.000	350.0	V	256.0	18.7
16611.524971	---	41.25	54.00	12.75	1000.000	350.0	V	256.0	18.7
17341.665000	55.24	---	74.00	18.76	1000.000	253.0	V	143.0	20.7
17341.665000	---	41.78	54.00	12.22	1000.000	253.0	V	143.0	20.7
17874.000000	---	41.94	54.00	12.06	1000.000	100.0	H	-1.0	21.3
17874.000000	55.30	---	74.00	18.70	1000.000	100.0	H	-1.0	21.3

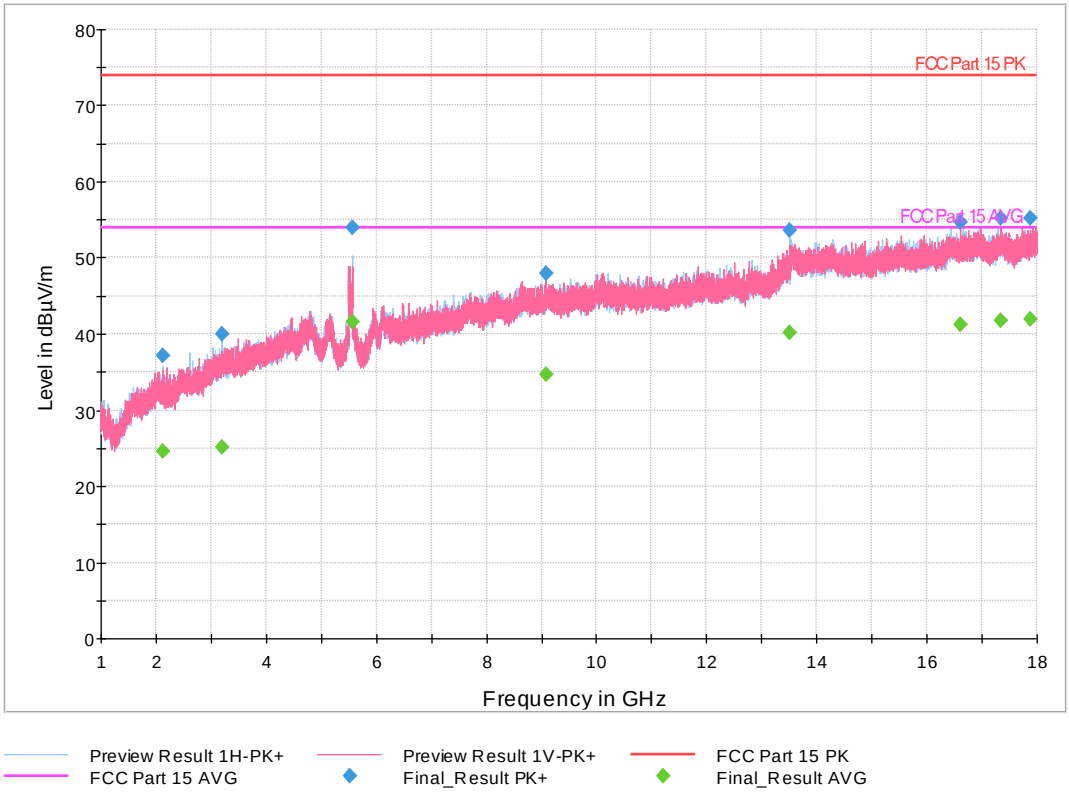


Figure 108: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT80 Low Channel 5530MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000985	---	30.53	54.00	23.47	1000.000	100.0	H	91.0	-7.6
1000.000985	37.36	---	74.00	36.64	1000.000	100.0	H	91.0	-7.6
2200.500000	---	21.20	54.00	32.80	1000.000	156.0	V	22.0	-3.2
2200.500000	40.55	---	74.00	33.45	1000.000	156.0	V	22.0	-3.2
5617.269029	68.04	---	N/A*	N/A*	1000.000	154.0	H	303.0	7.6
5617.269029	---	56.04	N/A*	N/A*	1000.000	154.0	H	303.0	7.6
9106.800029	48.25	---	74.00	25.75	1000.000	150.0	V	230.0	12.2
9106.800029	---	34.77	54.00	19.23	1000.000	150.0	V	230.0	12.2
13537.365029	---	40.15	54.00	13.85	1000.000	350.0	V	267.0	15.8
13537.365029	54.17	---	74.00	19.83	1000.000	350.0	V	267.0	15.8
15675.000000	53.41	---	74.00	20.59	1000.000	100.0	V	108.0	17.7
15675.000000	---	39.72	54.00	14.28	1000.000	100.0	V	108.0	17.7
16871.813971	---	41.49	54.00	12.51	1000.000	354.0	V	189.0	19.4
16871.813971	55.11	---	74.00	18.89	1000.000	354.0	V	189.0	19.4
17844.679000	55.22	---	74.00	18.78	1000.000	254.0	H	56.0	21.1
17844.679000	---	41.76	54.00	12.24	1000.000	254.0	H	56.0	21.1

*Fundamental transmission is excluded from spurious emission limits

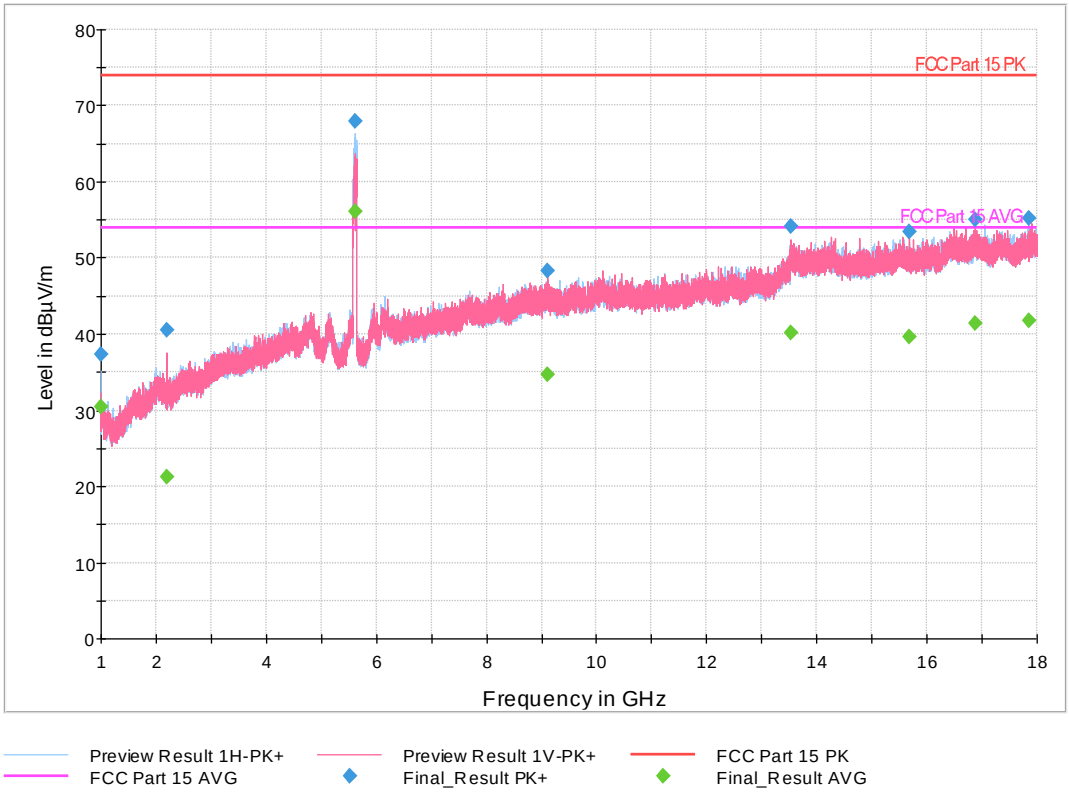


Figure 109: Radiated Emissions 1-18GHz – UNII-2C 802.11ac VHT80 High Channel 5610MHz

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: 2020 and RSS GEN: 2019.

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 50μH / 50Ω LISNs.

Testing is performed in Lab 5. The setup photographs clearly identify which site was used. 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

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

Table 21: AC Conducted Emissions – Test Results

Test Conditions: Conducted Measurement at Normal Conditions only	Date: March 9, 2021
Antenna Type: FPCB	**Power Level:** See Test Plan
AC Power: 120 Vac/60 Hz	**Configuration:** Tabletop
Ambient Temperature: 22° C	**Relative Humidity:** 35% RH

Configuration	Frequency Range	Test Result
Line 1 (Hot)	0.15 to 30 MHz	Pass
Line 2 (Neutral)	0.15 to 30 MHz	Pass

SOP 2 Conducted Emissions

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EUT Name	eero 6 Pro	**Date**	March 9, 2021
EUT Model	K010001	**Temp / Hum in**	22° C / 35% rh
EUT Serial	KA58-0400-4W00-00CG	**Temp / Hum out**	N/A
EUT Config.	TX mode: 802.11a 6Mbps, 5700 MHz	**Line AC / Freq**	120 Vac / 60 Hz
Standard	CFR47 Part 15.207 and RSS Gen	**RBW / VBW**	9 kHz / 30 kHz
Lab/LISN	Lab #5 /Com-Power, Line 1	**Performed by**	Alexander Sowinski

Frequency	Raw	Cable Loss	Factors	Level	Detector	Line	Limit	Margin	Result
MHz	dBuV	dB	dB	dBuV			dBuV	dB	
0.200	42.52	10.22	0.07	52.81	QP	Live	63.59	-10.78	Pass
0.200	23.57	10.22	0.07	33.86	Av	Live	53.59	-19.73	Pass
0.205	39.36	10.22	0.07	49.64	QP	Live	63.41	-13.76	Pass
0.205	24.92	10.22	0.07	35.20	Av	Live	53.41	-18.20	Pass
0.259	36.13	10.16	0.05	46.34	QP	Live	61.47	-15.12	Pass
0.259	24.25	10.16	0.05	34.46	Av	Live	51.47	-17.01	Pass
0.281	22.26	10.14	0.05	32.46	Av	Live	50.80	-18.34	Pass
0.281	46.22	10.14	0.05	56.41	QP	Live	60.80	-4.38	Pass
0.345	40.64	10.11	0.04	50.79	QP	Live	59.08	-8.29	Pass
0.345	19.05	10.11	0.04	29.20	Av	Live	49.08	-19.88	Pass
0.509	37.59	10.11	0.04	47.74	QP	Live	56.00	-8.26	Pass
0.509	23.66	10.11	0.04	33.81	Av	Live	46.00	-12.19	Pass
0.646	18.17	10.12	0.03	28.32	Av	Live	46.00	-17.68	Pass
0.646	25.70	10.12	0.03	35.85	QP	Live	56.00	-20.15	Pass
0.937	25.36	10.12	0.03	35.52	QP	Live	56.00	-20.48	Pass
0.937	11.98	10.12	0.03	22.14	Av	Live	46.00	-23.86	Pass
5.033	2.76	10.24	0.03	13.03	Av	Live	50.00	-36.97	Pass
14.982	4.01	10.43	-0.06	14.38	Av	Live	50.00	-35.62	Pass
15.113	2.76	10.43	-0.06	13.13	Av	Live	50.00	-36.87	Pass

Spec Margin = QP./Ave. - Limit, ± Uncertainty

Combined Standard Uncertainty $u_c(y)$ = ± 1.2 dB Expanded Uncertainty $U = ku_c(y)$ k = 2 for 95% confidence

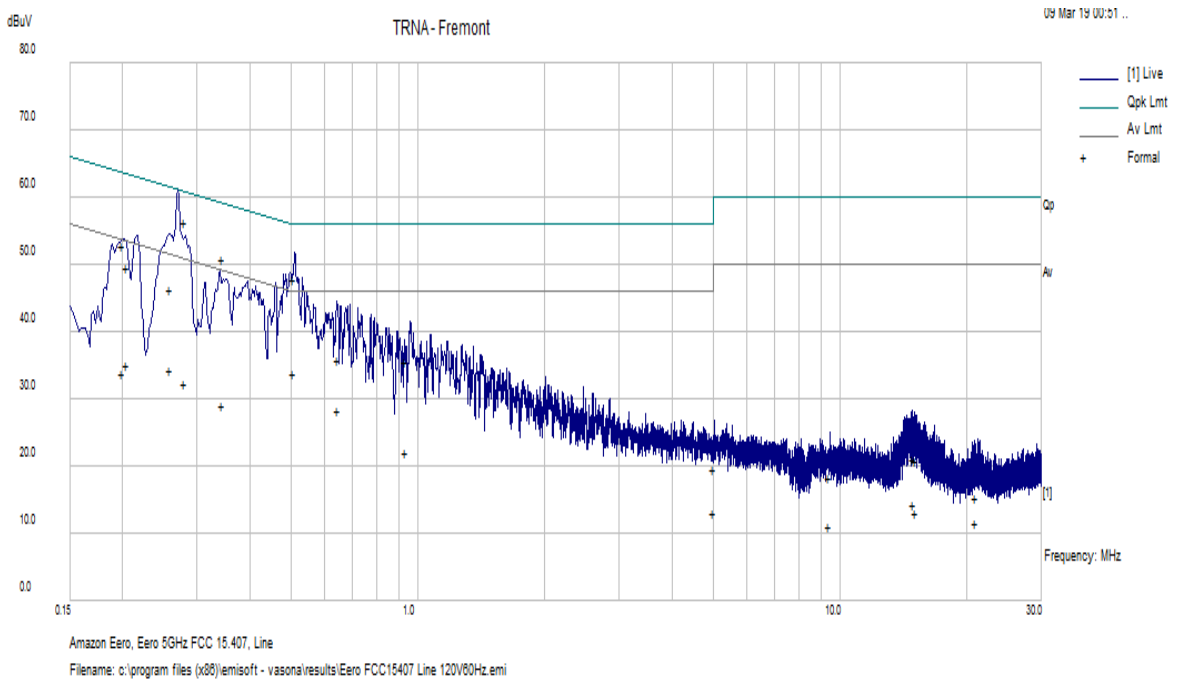
Notes: EUT was setup as table top equipment and transmitted at 5700 MHz in 802.11a at 6Mbps.
Pre-Scan test on 5500 MHz and 5700 MHz, found 5700 MHz as worse case.

SOP 2 Conducted Emissions

Tracking # 32195354.001 Page 2 of 4

EUT Name	eero 6 Pro	**Date**	March 9, 2021
EUT Model	K010001	**Temp / Hum in**	22° C / 35% rh
EUT Serial	KA58-0400-4W00-00CG	**Temp / Hum out**	N/A
EUT Config.	TX mode: 802.11a 6Mbps, 5700 MHz	**Line AC**	120 Vac / 60 Hz
Standard	CFR47 Part 15.207 and RSS Gen	**RBW / VBW**	9 kHz / 30 kHz
Lab/LISN	Lab #5 /Com-Power, Line 1	**Performed by**	Alexander Sowinski

150 kHz to 30 MHz Plot for Line 1 (Live)



Note: Met FCC Class B limit.

SOP 2 Conducted Emissions

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EUT Name	eero 6 Pro	**Date**	March 9, 2021
EUT Model	K010001	**Temp / Hum in**	22° C / 35% rh
EUT Serial	KA58-0400-4W00-00CG	**Temp / Hum out**	N/A
EUT Config.	TX mode: 802.11a 6Mbps, 5700 MHz	**Line AC**	120 Vac / 60 Hz
Standard	CFR47 Part 15.207 and RSS Gen	**RBW / VBW**	9 kHz / 30 kHz
Lab/LISN	Lab #5 /Com-Power, Neutral	**Performed by**	Alexander Sowinski

Frequency	Raw	Cable Loss	Factors	Level	Detector	Line	Limit	Margin	Result
MHz	dBuV	dB	dB	dBuV			dBuV	dB	
0.211	40.11	10.21	0.07	50.39	QP	Neutral	63.15	-12.76	Pass
0.211	22.26	10.21	0.07	32.54	Av	Neutral	53.15	-20.62	Pass
0.264	10.27	10.16	0.05	20.48	Av	Neutral	51.31	-30.83	Pass
0.264	29.66	10.16	0.05	39.87	QP	Neutral	61.31	-21.44	Pass
0.435	35.35	10.10	0.04	45.49	QP	Neutral	57.16	-11.67	Pass
0.435	16.94	10.10	0.04	27.08	Av	Neutral	47.16	-20.08	Pass
0.551	15.30	10.11	0.03	25.44	Av	Neutral	46.00	-20.56	Pass
0.551	30.86	10.11	0.03	41.00	QP	Neutral	56.00	-15.00	Pass
0.767	8.29	10.12	0.03	18.44	Av	Neutral	46.00	-27.56	Pass
0.767	24.85	10.12	0.03	35.00	QP	Neutral	56.00	-21.00	Pass
1.132	9.13	10.13	0.03	19.28	Av	Neutral	46.00	-26.72	Pass
1.132	23.20	10.13	0.03	33.36	QP	Neutral	56.00	-22.64	Pass
1.514	16.94	10.14	0.03	27.11	QP	Neutral	56.00	-28.89	Pass
1.514	4.57	10.14	0.03	14.74	Av	Neutral	46.00	-31.26	Pass
1.764	4.29	10.14	0.03	14.46	Av	Neutral	46.00	-31.54	Pass
1.764	11.96	10.14	0.03	22.14	QP	Neutral	56.00	-33.86	Pass
5.622	3.40	10.25	0.03	13.68	Av	Neutral	50.00	-36.32	Pass
12.341	2.37	10.37	-0.02	12.73	Av	Neutral	50.00	-37.27	Pass
15.282	2.76	10.43	-0.06	13.13	Av	Neutral	50.00	-36.87	Pass

Spec Margin = QP./Ave. - Limit, ± Uncertainty

Combined Standard Uncertainty $u_c(y)$ = ± 1.2 dB Expanded Uncertainty $U = ku_c(y)$ k = 2 for 95% confidence

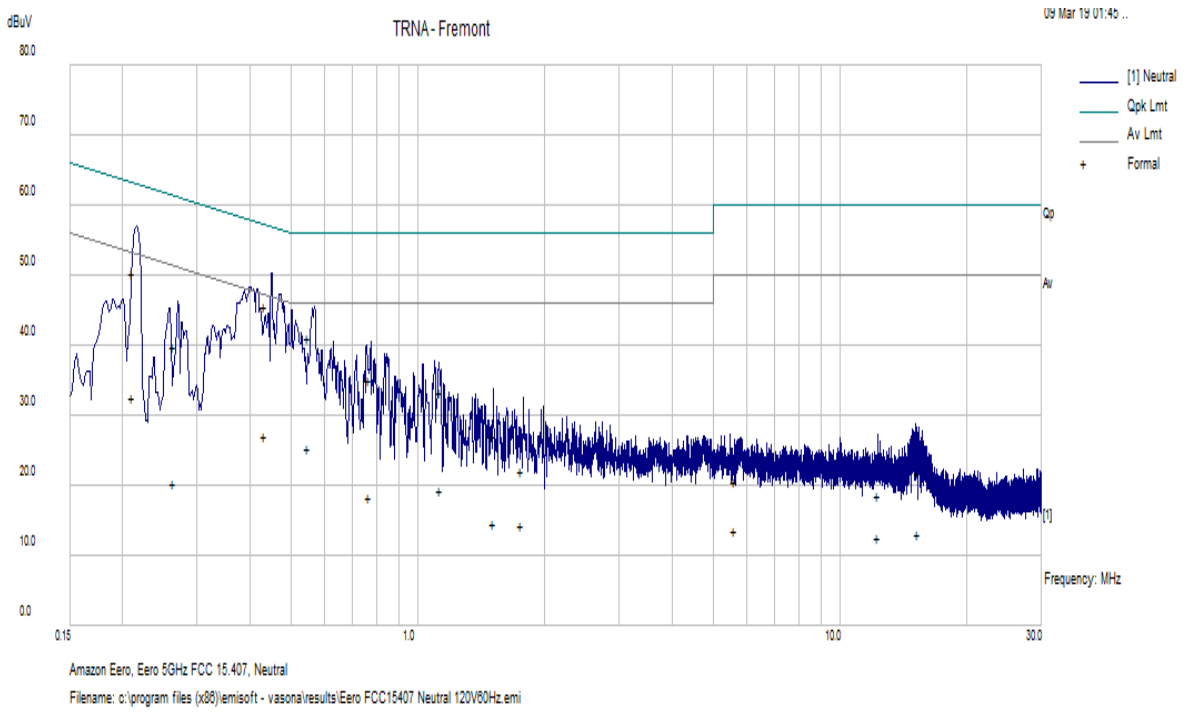
Notes: EUT was setup as table top equipment and transmitted at 5700 MHz in 802.11a at 6Mbps.
Pre-Scan test on 5500 MHz and 5700 MHz, found 5700 MHz as worse case.

SOP 2 Conducted Emissions

Tracking # 32195354.001 Page 4 of 4

EUT Name	eero 6 Pro	**Date**	March 9, 2021
EUT Model	K010001	**Temp / Hum in**	22° C / 35% rh
EUT Serial	KA58-0400-4W00-00CG	**Temp / Hum out**	N/A
EUT Config.	TX mode: 802.11a 6Mbps, 5700 MHz	**Line AC**	120 Vac / 60 Hz
Standard	CFR47 Part 15.207 and RSS Gen	**RBW / VBW**	9 kHz / 30 kHz
Lab/LISN	Lab #5 /Com-Power, Neutral	**Performed by**	Alexander Sowinski

150 kHz to 30 MHz Plot for Line 2 (Neutral)



Note: Met FCC Class B Limit.

4.7 Frequency Stability

In accordance with 47 CFR Part 15.407(g) and RSS GEN Sect. 8.8 the frequency stability of U-NII devices must be such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. The Manufacturer calls out operating temperature ranges of +0º to +35º C.

The frequency stability of the reference oscillator sets the frequency stability of the RF transceiver signals. Therefore all of the RF signal should have ±20 ppm stability.

This stability accounts for room temp tolerance of the crystal oscillator circuit, frequency variation across temperature, and crystal ageing.

4.7.1 Test Methodology

The manufacturer of the equipment is responsible for ensuring that the frequency stability is such that emissions are always maintained within the band of operation under all conditions. This test performs according to ANSI C63.10-2013 Section 6.8.

4.7.2 Limit

CFR47 Part 15.407(g) and RSS GEN Sect. 6.11 - Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

4.7.3 Manufacturer Declaration

Eero LLC declares that the K010001 WiFi Module is compliant to CFR47 Part 15.31(e), 15.407(g) and RSS GEN Sect. 6.11 requirements. The K010001 maintains the fundamental emission within the bands of operation under all conditions of normal operation as specified in the user's manual.

5 Test Equipment List

5.1 Equipment List

Equipment	Manufacturer	Model #	Serial/Inst #	Last Cal mm/dd/yy	Next Cal mm/dd/yy	Test
EMI Receiver	Rohde & Schwarz	ESW, 2Hz-44GHz	5000-2455-0027	2/28/2021	2/28/2022	RE
Preamplifier, 30 MHz – 8 GHz	Rohde & Schwarz	TS-PR8	102353	2/26/2021	2/26/2022	RE
Trilog Antenna	Rohde & Schwarz	VULB 9162	A102606	2/27/2021	2/27/2022	RE
Preamplifier, 1-18GHz	Rohde & Schwarz	SFUNIT-RX	102143	3/23/2021	3/23/2022	RE
Preamplifier, 1-18GHz	Rohde & Schwarz	TS-PR18	101649	3/23/2021	3/23/2022	RE
Horn, 1-18GHz	Rohde & Schwarz	HF907	20-817094-C	7/10/2019	7/10/2021	RE
Preamplifier, 18-40GHz	Rohde & Schwarz	TS-PR1840	100067	2/26/2020	2/26/2021	RE
Horn, 18-40GHz	Rohde & Schwarz	180-442-KF	132596-01	4/17/2020	4/13/2021	RE
Signal Generator	Rohde & Schwarz	SMB100B	5000-02455-0019	2/27/2021	5/16/2022	RI
Power Meter	Rohde & Schwarz	NRX Power Meter	5000-02455-0024	2/28/2021	2/28/2022	RI
Wide Band Amplifier System,<1GHz	Rohde & Schwarz	BBA150	102531	NCR	NCR	RI
Wide Band Amplifier System, >1GHz	Rohde & Schwarz	BBA150	101840	NCR	NCR	RI
VHF/UHF EMS-Ant, < 1 GHz	Rohde & Schwarz	HL046E VHF/UHF EMS-Ant	100323	NCR	NCR	RI
Stacked Double Log >1GHz	Rohde & Schwarz	STLP 9149	00685	NCR	NCR	RI

* 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 22: Customer Information

Company Name	eero LLC
Address	660 3rd Street
City, State, Zip	San Francisco, CA 94107
Country	U.S.A.
Phone	+1 415-738-7972

Table 23: Technical Contact Information

Name	eero LLC
E-mail	cliff@eero.com
Phone	+1 415-738-7972

6.3 Equipment Under Test (EUT)

Table 24: EUT Specifications

EUT Specifications	
AC Input	100-240V AC, 50 – 60 Hz, 0.65A
DC Input	9 VDC, 3 A, 27.0W
Environment	Indoor
Operating Temperature Range:	0 to 35 degrees C
Multiple Feeds:	☐ Yes and how many ☒ No
Product Marketing Name (PMN)	Eero 6 Pro
Hardware Version Identification Number (HVIN)	K010001
Firmware Version Identification Number (FVIN)	eeroOS 6.0.0
802.11-radio modules	
Operating Mode	802.11a, 802.11b, 802.11g, 802.11n (HT20 & HT40), 802.11ac (VHT20, VHT40 & VHT80)
Transmitter Frequency Band	2.4 – 2.4835 GHz, 5.15– 5.25 GHz, 5.25– 5.35 GHz, 5.47– 5.72 GHz, and 5.725– 5.85 GHz
Total Rated Power Output	25.18 dBm
Power Setting @ Operating Channel	See Table 21: EUT Channel Power Specifications.
Antenna Type	Refer to Section 3.4.1
Max. Peak Antenna Gain	Refer to Section 3.4.1
Modulation Type	☒ Thread (Zigbee) ☒ BLE ☒ DSSS ☒ OFDM ☐ Other describe:
Data Rate	802.11a: 1 Spatial Stream: 6, 9,12, 18, 24, 36, 48, 54 Mbps 802.11n HT20: 2 Spatial Streams: 13, 26, 39, 52, 78, 104, 117, 130 Mbps 802.11n HT40: 2 Spatial Streams: 27, 54, 81, 108, 162, 216, 243, 270 Mbps 802.11ac VHT20: 2 Spatial Streams: 13, 26, 39, 52, 78, 104, 117, 130, 156 Mbps 802.11ac VHT40: 2 Spatial Streams: 27, 54, 81, 108, 240, 270, 300, 360, 400 Mbps 802.11ac VHT80: 2 Spatial Streams: 58.5, 117, 175.5, 234, 351, 468, 526.5, 585, 702, 780 Mbps

EUT Specifications	
TX/RX Chain (s)	UNII-2A: MIMO (2x2) UNII-2C: MIMO (4x4)
Directional Gain Type	☒ Correlated ☐ Beam-Forming ☐ Other describe:
Type of Equipment	☒ Table Top ☐ Wall-mount ☐ Floor standing cabinet ☐ Other:
Note: 1. All chains will be on / transmitted at all time. 2. EUT software: eero test image 9829eabd40+r49254; Fri Jan 8 17:11:07 UTC 2021.	

Table 25: EUT Channel Power Specifications

UNII-2A				UNII-2C			
Mode	**Channel**	**Freq**	**Pwr Setting**	**Mode**	**Channel**	**Freq**	**Pwr Setting**
a	52	5260	21.5	a	100	5500	19
a	60	5300	22	a	120	5600	18.5
a	64	5320	19*	a	140	5700	19.5
n20	52	5260	22	n20	100	5500	18.2*
n20	60	5300	22	n20	120	5600	18.5
n20	64	5320	15*	n20	140	5700	19
ac20	52	5260	22	ac20	100	5500	18.1*
ac20	60	5300	22	ac20	120	5600	18.5
ac20	64	5320	16.5*	ac20	140	5700	19
n40	54	5270	22	n40	102	5510	16*
				n40	118	5590	18.5
n40	62	5310	21*	n40	134	5670	19
ac40	54	5270	22	ac40	102	5510	17*
				ac40	118	5590	18.5
ac40	62	5310	22	ac40	134	5670	19
				ac80	106	5530	12.3*
ac80	58	5290	22	ac80	122	5610	19

*Power tuned down per Band-edge tests

Table 26: 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?
RJ45	Terminated to Host Ethernet Port	☒ No	☒ Metric:2m	☒ N/A

Table 27: Supported Equipment

Equipment	Manufacturer	Model	Serial	Used for
Laptop	DELL	Latitude 5420	GBGHMQ1	Set test mode

Table 28: Description of Sample used for Testing

Device	Serial Number	Configuration	Used For
K010001	KA58-0400-4W00-00CG	Radiated Sample	Radiated Emissions. Conducted Emission.
K010001	KA9G-OWVN-9RBE-8BXY	Conducted Sample	Output Power, Occupied Bandwidth, Conducted Spurious Emissions, Peak Power Spectral Density.
Note: None			

Table 29: Description of Test Configuration used for Radiated Measurement.

Device	Antenna	Mode	Setup Description
KA58-0400-4W00-00CG	Integrated	Transmit & Receive	positioned tabletop.
Note: This is the final setup configuration used for testing on its normal positioned.			

6.4 Test Specifications

Table 30: Test Specifications

Emissions	
Regulation Rules / Standards	**Requirement**
CFR 47 Part 15.407: 2021	All
RSS 247 Issue 2, 2017	All

END OF REPORT