
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.

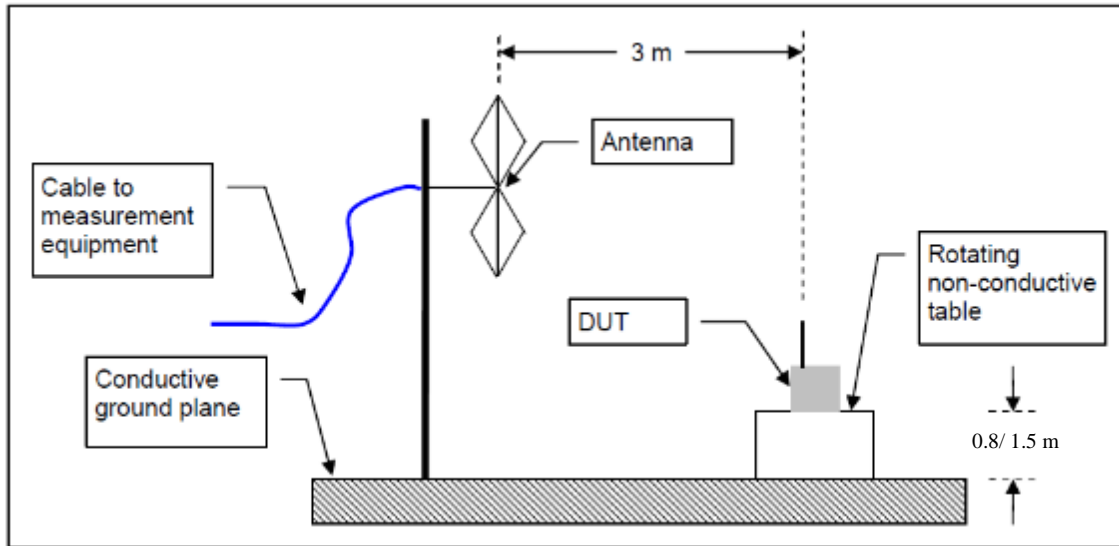
Final results are:

802.11a at 6 Mbps and 802.11n (HT20 and HT40) at MCS0 and 802.11ac (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).

Table 18: Transmit Spurious Emissions at Band-Edge Requirements

Date: June 19, 2020				Tested By: Kerwinn Corpuz				
Test Method: Radiated Measurements				Power Setting: See test plan.				
Antenna Type: FPCB				Max Antenna Gain: 2.37 dBi				
Operating Mode: Uncorrelated				Signal State: Modulated at 92.3% (11a), 93.2% (HT20), 95.7% (HT40 & VHT80)				
Ambient Temp.: 20 °C				Relative Humidity: 35%				
Band-Edge Results for 5350 MHz								
Freq. (MHz)	Level (dBUV/m)	Pol. (H/V)	Limit (dBUV/m)	Margin (dB)	Det.	Table Deg.	Tower (cm)	Note
5351.36	65.23	V	74.00	-8.77	Pk	184	121	5320MHz-11a-6Mbps-TP41-Ch0 & 1
5350.00	51.28	V	54.00	-2.72	Ave	184	121	5320MHz-11a-6Mbps-TP41-Ch0 & 1
5350.48	66.49	H	74.00	-7.51	Pk	155	169	5320MHz-11a-6Mbps-TP41-Ch0 & 1
5350.00	52.56	H	54.00	-1.44	Ave	155	169	5320MHz-11a-6Mbps-TP41-Ch0 & 1
5353.09	65.32	V	74.00	-8.68	Pk	187	118	5320MHz-HT20-MCS0-TP41-Ch0 & 1
5350.00	51.30	V	54.00	-2.70	Ave	187	118	5320MHz-HT20-MCS0-TP41-Ch0 & 1
5351.04	65.96	H	74.00	-8.04	Pk	161	179	5320MHz-HT20-MCS0-TP41-Ch0 & 1
5350.00	52.43	H	54.00	-1.57	Ave	161	179	5320MHz-HT20-MCS0-TP41-Ch0 & 1
5350.20	65.67	V	74.00	-8.33	Pk	204	112	5310MHz-HT40-MCS0-TP38-Ch0 & 1
5350.00	52.15	V	54.00	-1.85	Ave	204	112	5310MHz-HT40-MCS0-TP38-Ch0 & 1
5351.30	67.12	H	74.00	-6.88	Pk	149	165	5310MHz-HT40-MCS0-TP38-Ch0 & 1
5352.61	53.00	H	54.00	-1.00	Ave	149	165	5310MHz-HT40-MCS0-TP38-Ch0 & 1
5351.54	67.76	V	74.00	-6.24	Pk	220	103	5290MHz-VHT80-MCS0-TP37-Ch0 & 1
5350.00	53.46	V	54.00	-0.54	Ave	220	103	5290MHz-VHT80-MCS0-TP37-Ch0 & 1
5351.02	67.97	H	74.00	-6.03	Pk	163	174	5290MHz-VHT80-MCS0-TP37-Ch0 & 1
5351.30	53.94	H	54.00	-0.06	Ave	163	174	5290MHz-VHT80-MCS0-TP37-Ch0 & 1
<p>Note: 1. Band-edge frequencies were evaluated at 5350 MHz since 5150-5250 MHz is not a restricted band. 2. All of the band-edge measurements met the restricted band requirements of CFR47 15.205. 3. Since the band-edge measurements have margins in the presence of in-band leakage, the band-edge plots were captured with the spectrum analyzer's span wider than 2 MHz. 4. The Duty Cycle Factor is added into the test equipment reference level offset accordingly. 5. Refer to Figure 122 – 137 for above configuration plots.</p>								

Table 19: Transmit Spurious Emissions at Band-Edge Requirements Continued

Date: June 22, 2020				Tested By: Kerwinn Corpuz				
Test Method: Radiated Measurements				Power Setting: See test plan.				
Antenna Type: FPCB				Max Antenna Gain: 3.57 dBi				
Operating Mode: Uncorrelated				Signal State: Modulated at 92.3% (11a), 93.2% (HT20), 95.7% (HT40 & VHT80)				
Ambient Temp.: 20 °C				Relative Humidity: 36%				
Band-Edge Results for 5470 MHz to 5725 MHz								
Freq. (MHz)	Level (dBuV/m)	Pol. (H/V)	Limit (dBuV/m)	Margin (dB)	Det.	Table Deg.	Tower (cm)	Note
5468.72	66.65	V	74.00	-7.35	Pk	65	146	5500MHz-11a-6Mbps-TP43-Ch0 & 1
5470.00	53.40	V	54.00	-0.60	Ave	65	146	5500MHz-11a-6Mbps-TP43-Ch0 & 1
5470.00	67.13	H	74.00	-6.87	Pk	171	156	5500MHz-11a-6Mbps-TP43-Ch0 & 1
5470.00	53.91	H	54.00	-0.09	Ave	171	156	5500MHz-11a-6Mbps-TP43-Ch0 & 1
5725.42	66.56	V	74.00	-7.44	Pk	202	116	5700MHz-11a-6Mbps-TP42-Ch0 & 1
5725.00	52.52	V	54.00	-1.48	Ave	202	116	5700MHz-11a-6Mbps-TP42-Ch0 & 1
5725.00	68.33	H	74.00	-5.67	Pk	177	158	5700MHz-11a-6Mbps-TP42-Ch0 & 1
5725.00	53.20	H	54.00	-0.80	Ave	177	158	5700MHz-11a-6Mbps-TP42-Ch0 & 1
5468.16	67.26	V	74.00	-6.74	Pk	66	140	5500MHz-HT20-MCS0-TP43-Ch0 & 1
5468.16	52.70	V	54.00	-1.30	Ave	66	140	5500MHz-HT20-MCS0-TP43-Ch0 & 1
5469.44	66.97	H	74.00	-7.03	Pk	170	161	5500MHz-HT20-MCS0-TP43-Ch0 & 1
5470.00	53.45	H	54.00	-0.55	Ave	170	161	5500MHz-HT20-MCS0-TP43-Ch0 & 1
5725.00	65.68	V	74.00	-8.32	Pk	187	114	5700MHz-HT20-MCS0-TP42-Ch0 & 1
5725.00	52.59	V	54.00	-1.41	Ave	187	114	5700MHz-HT20-MCS0-TP42-Ch0 & 1
5725.91	69.20	H	74.00	-4.80	Pk	175	157	5700MHz-HT20-MCS0-TP42-Ch0 & 1
5725.00	53.70	H	54.00	-0.30	Ave	175	157	5700MHz-HT20-MCS0-TP42-Ch0 & 1
5467.60	67.67	V	74.00	-6.33	Pk	73	146	5510MHz-HT40-MCS0-TP39-Ch0 & 1
5467.39	53.51	V	54.00	-0.49	Ave	73	146	5510MHz-HT40-MCS0-TP39-Ch0 & 1
5468.70	66.83	H	74.00	-7.17	Pk	159	158	5510MHz-HT40-MCS0-TP39-Ch0 & 1
5470.00	53.61	H	54.00	-0.39	Ave	159	158	5510MHz-HT40-MCS0-TP39-Ch0 & 1
5725.00	68.37	V	74.00	-5.63	Pk	204	113	5670MHz-HT40-MCS0-TP41-Ch0 & 1
5725.00	53.80	V	54.00	-0.20	Ave	204	113	5670MHz-HT40-MCS0-TP41-Ch0 & 1
5728.39	71.18	H	74.00	-2.82	Pk	186	159	5670MHz-HT40-MCS0-TP41-Ch0 & 1
5725.00	53.40	H	54.00	-0.60	Ave	186	159	5670MHz-HT40-MCS0-TP41-Ch0 & 1
5469.16	66.66	V	74.00	-7.34	Pk	73	148	5530MHz-VHT80-MCS0-TP36-Ch0 & 1
5470.00	53.21	V	54.00	-0.79	Ave	73	148	5530MHz-VHT80-MCS0-TP36-Ch0 & 1
5466.77	67.56	H	74.00	-6.44	Pk	163	167	5530MHz-VHT80-MCS0-TP36-Ch0 & 1
5465.51	53.80	H	54.00	-0.20	Ave	163	167	5530MHz-VHT80-MCS0-TP36-Ch0 & 1

5727.76	65.77	V	74.00	-8.23	Pk	203	113	5610MHz-VHT80-MCS0-TP40-Ch0 & 1
5725.00	52.27	V	54.00	-1.73	Ave	203	113	5610MHz-VHT80-MCS0-TP40-Ch0 & 1
5726.00	67.70	H	74.00	-6.30	Pk	190	160	5610MHz-VHT80-MCS0-TP40-Ch0 & 1
5725.00	53.01	H	54.00	-0.99	Ave	190	160	5610MHz-VHT80-MCS0-TP40-Ch0 & 1

Note: 1. Band-edge frequencies was evaluated for the lowest and highest operating channels.
 2. All of the band-edge measurements met the restricted band requirements of CFR47 15.205.
 3. Since the band-edge measurements have margins in the presence of in-band leakage, the band-edge plots were captured with the spectrum analyzer's span wider than 2 MHz.
 4. The Duty Cycle Factor is added into the test equipment reference level offset accordingly.
 5. Figures 138 to 169 show the full spectrum mask for the above configurations.

Table 20: Transmit Spurious Emissions at Band-Edge Requirements Continued

Date: June 22, 2020	Tested By: Kerwinn Corpuz
Test Method: Radiated Measurements	Power Setting: See test plan.
Antenna Type: FPCB	Max Antenna Gain: 3.57 dBi
Operating Mode: Uncorrelated	Signal State: Modulated at 92.3% (11a), 93.2% (HT20), 95.7% (HT40 & VHT80)
Ambient Temp.: 20 °C	Relative Humidity: 36%

Band-Edge Results for 5850 MHz (Straddle Channels)

Freq. (MHz)	Level (dBuV/m)	Pol. (H/V)	Limit (dBuV/m)	Margin (dB)	Det.	Table Deg.	Tower (cm)	Note
5929.61	66.89	V	68.23	-1.34	Pk	189	107	5720MHz-11a-6Mbps-TP44-Ch0 & 1
5937.02	66.34	H	68.23	-1.89	Pk	183	172	5720MHz-11a-6Mbps-TP44-Ch0 & 1
5933.76	66.36	V	68.23	-1.87	Pk	188	108	5720MHz-HT20-MCS0-TP44-Ch0 & 1
5925.48	66.82	H	68.23	-1.41	Pk	182	172	5720MHz-HT20-MCS0-TP44-Ch0 & 1
5937.02	65.95	V	68.23	-2.28	Pk	190	107	5710MHz-HT40-MCS0-TP44-Ch0 & 1
5946.16	66.95	H	68.23	-1.28	Pk	178	175	5710MHz-HT40-MCS0-TP44-Ch0 & 1
5927.08	65.99	V	68.23	-2.24	Pk	189	109	5690MHz-VHT80-MCS0-TP44-Ch0 & 1
5928.65	66.87	H	68.23	-1.36	Pk	189	175	5690MHz-VHT80-MCS0-TP44-Ch0 & 1

Note: 1. Straddle channels band-edge frequencies were evaluated at 5850 MHz.
 2. All of the band-edge measurements met the undesired emission limit, where -27dBm eirp is 68.2 dBuV/m at 3m.
 3. Since the band-edge measurements have margins in the presence of in-band leakage, the band-edge plots were captured with the spectrum analyzer's span wider than 2 MHz.
 4. The Duty Cycle Factor is added into the test equipment reference level offset accordingly.
 5. Refer to Figure 170 – 177 for above configuration plots.

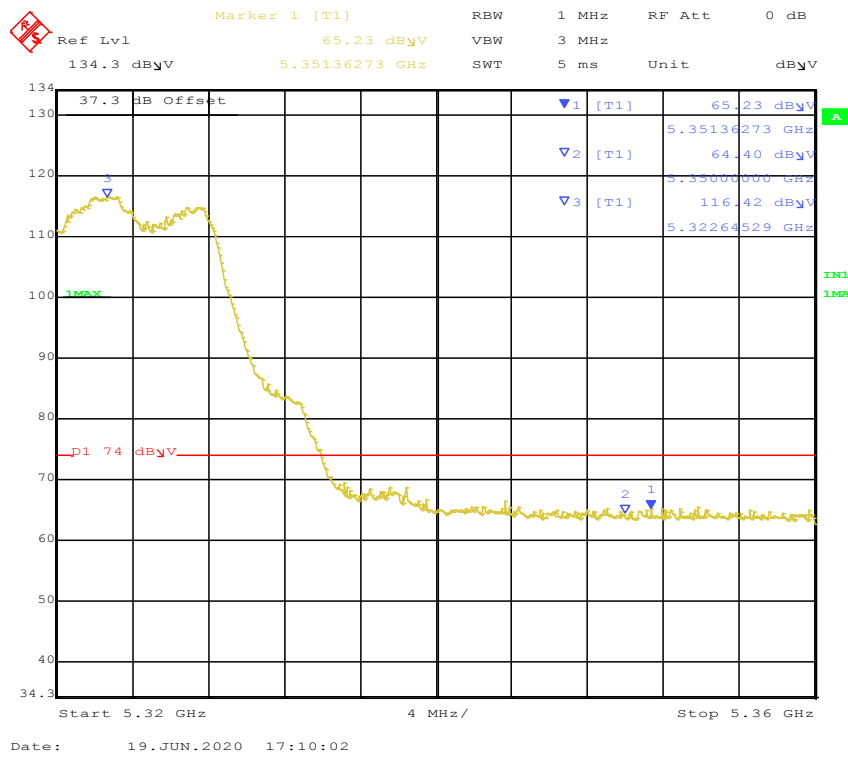


Figure 122: Radiated Emission 5350 MHz Edge for 802.11a 5320 MHz – Vert. (Pk)

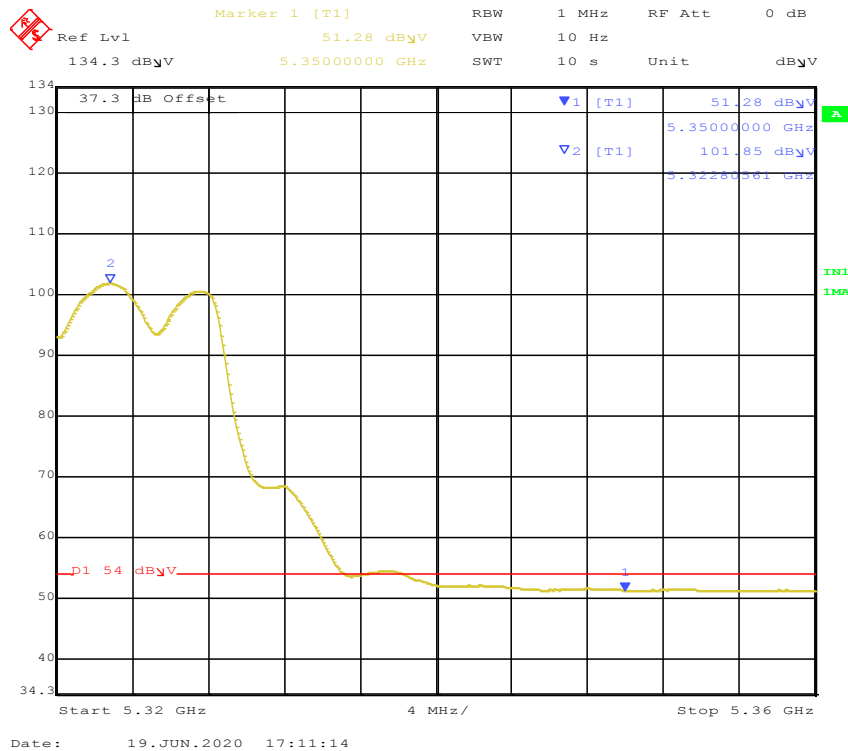


Figure 123: Radiated Emission 5350 MHz Edge for 802.11a 5320 MHz – Vert. (Ave)

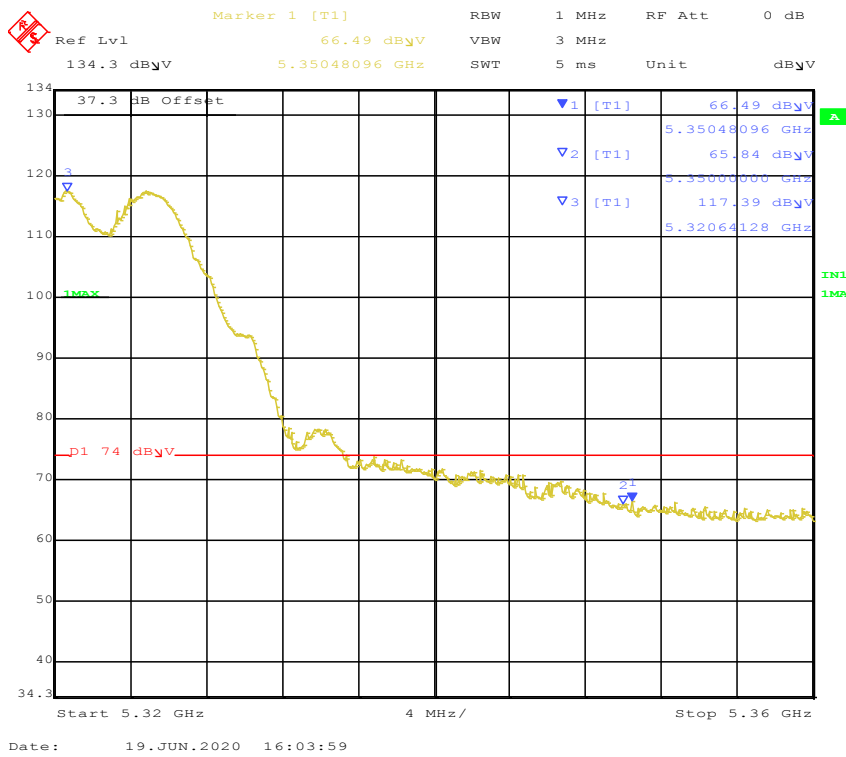


Figure 124: Radiated Emission 5350 MHz Edge for 802.11a 5320 MHz – Horiz. (Pk)

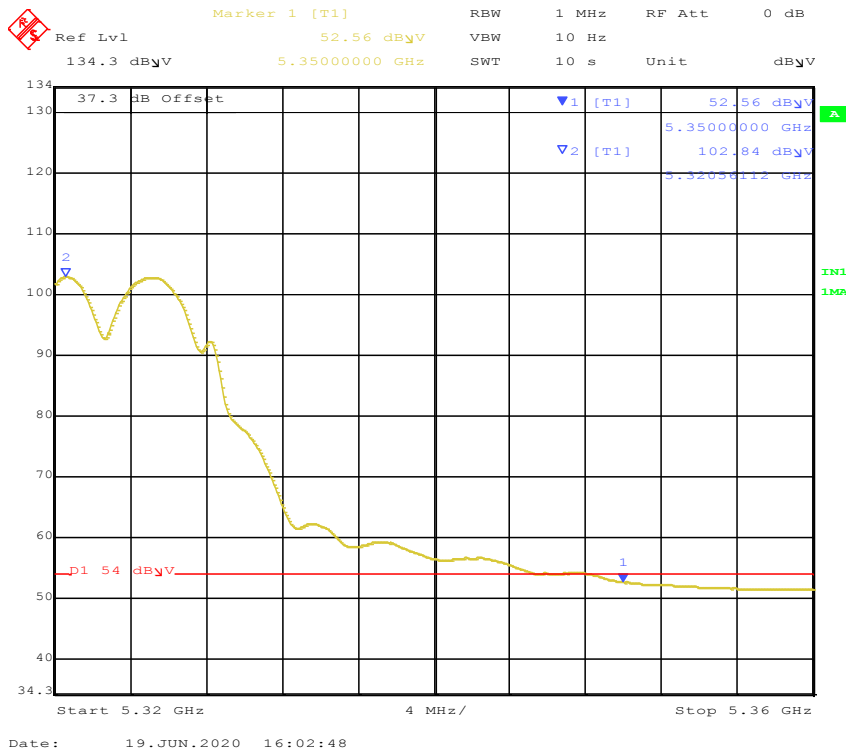


Figure 125: Radiated Emission 5350 MHz Edge for 802.11a 5320 MHz – Horiz. (Ave)

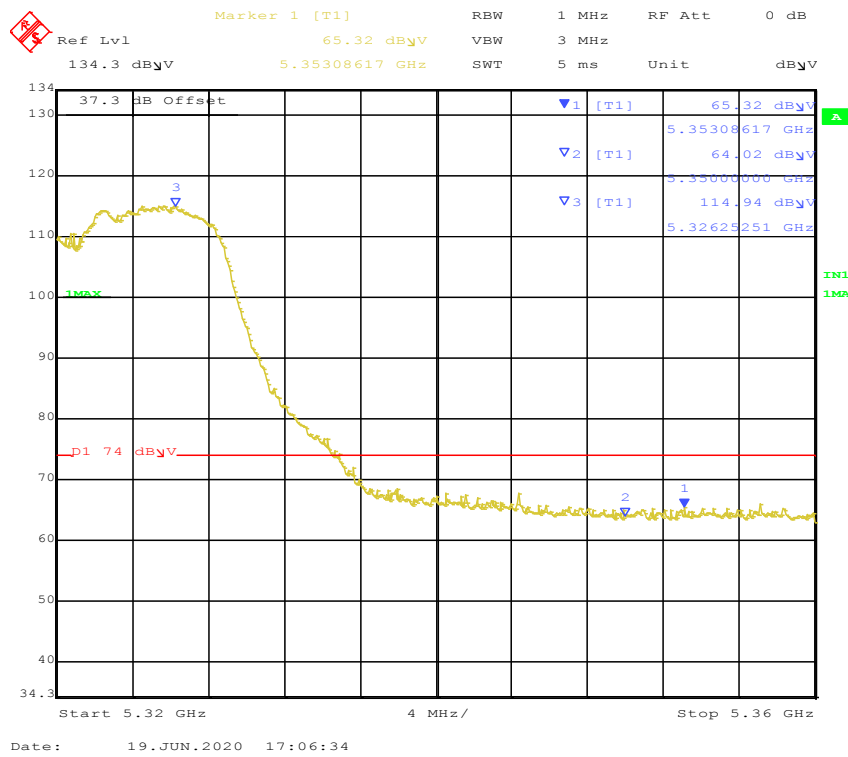


Figure 126: Radiated Emission 5350 MHz Edge for 802.11n HT20 5320 MHz – Vert. (Pk)

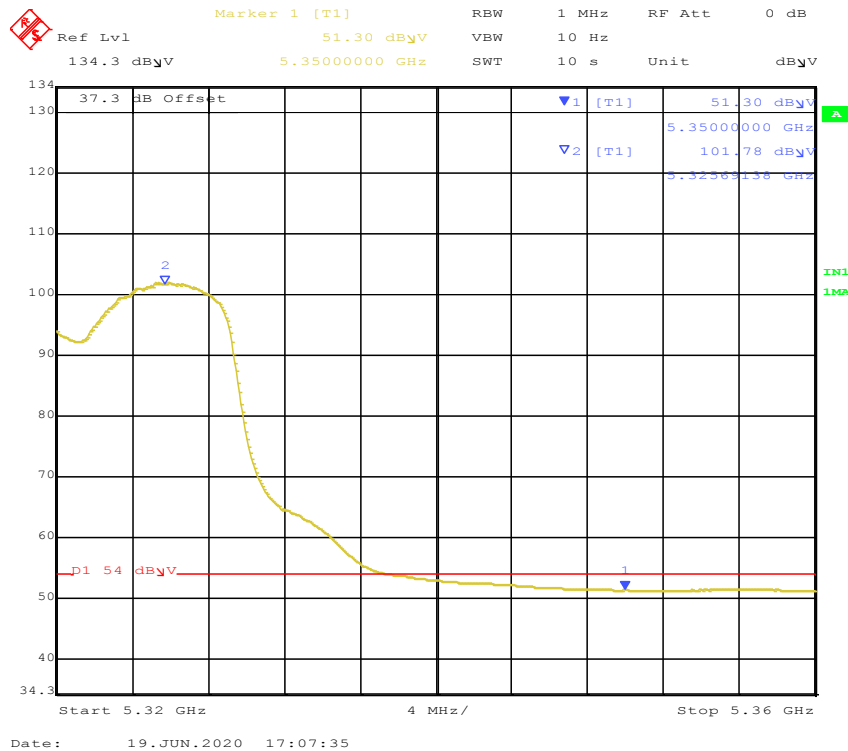


Figure 127: Radiated Emission 5350 MHz Edge for 802.11n HT20 5320 MHz – Vert. (Ave)

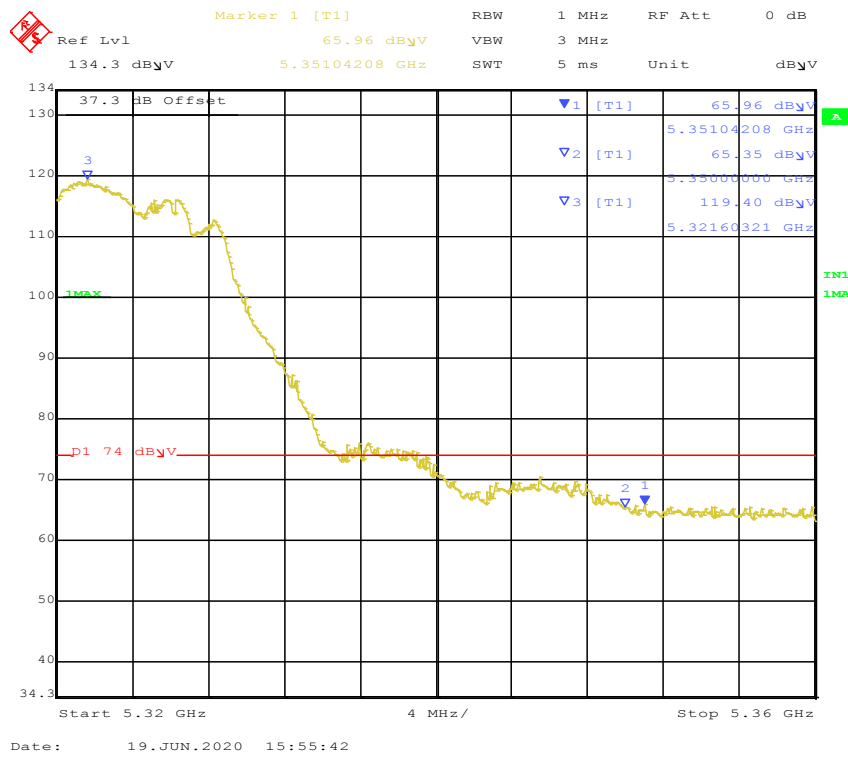


Figure 128: Radiated Emission 5350 MHz Edge for 802.11n HT20 5320 MHz – Horz. (Pk)

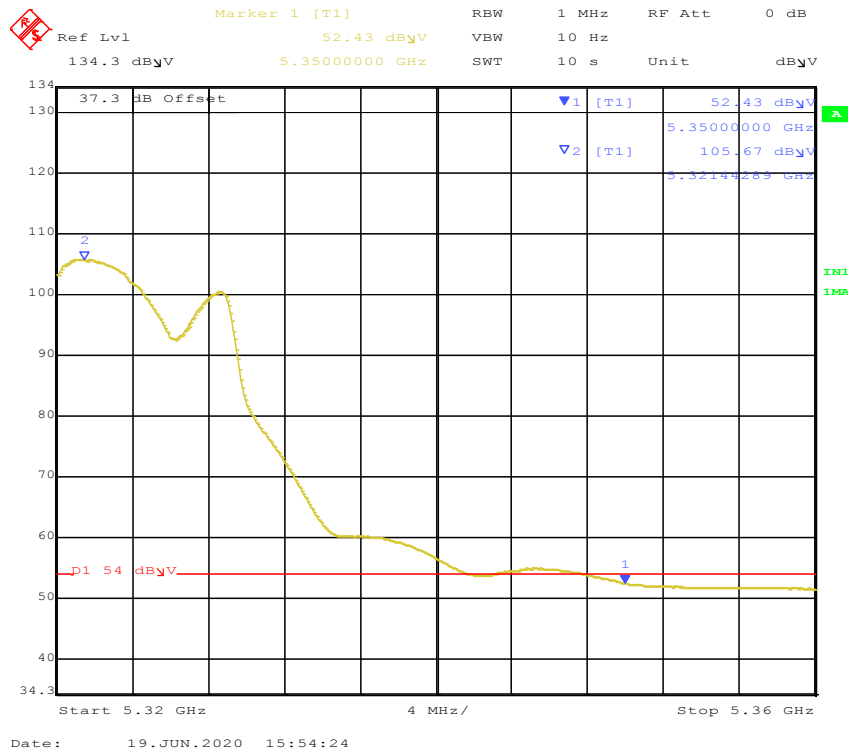


Figure 129: Radiated Emission 5350 MHz Edge for 802.11n HT20 5320 MHz – Horz. (Ave)

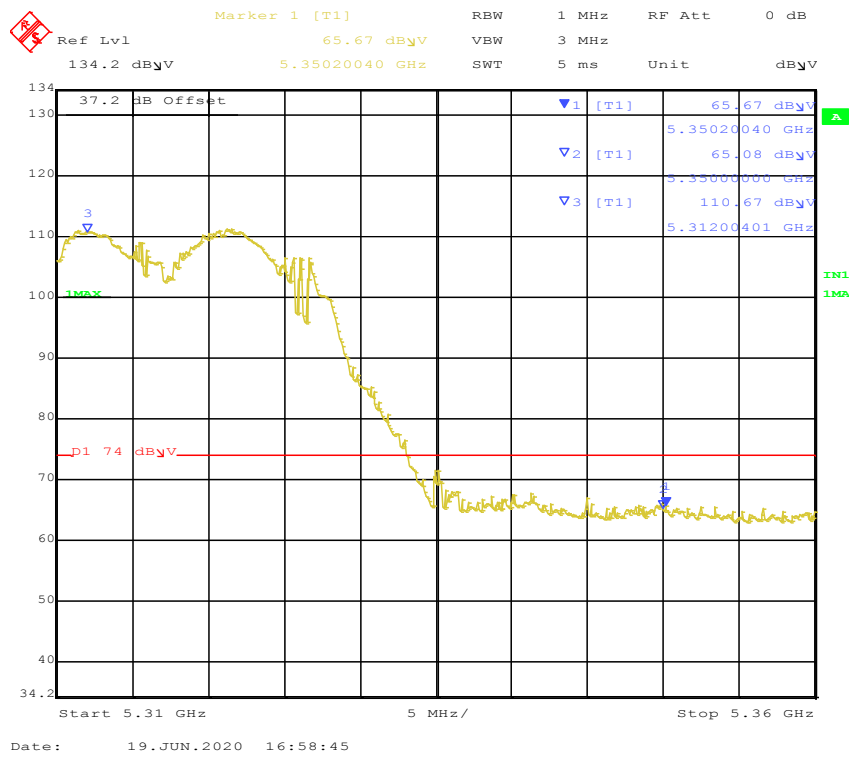


Figure 130: Radiated Emission 5350 MHz Edge for 802.11n HT40 5310 MHz – Vert. (Pk)

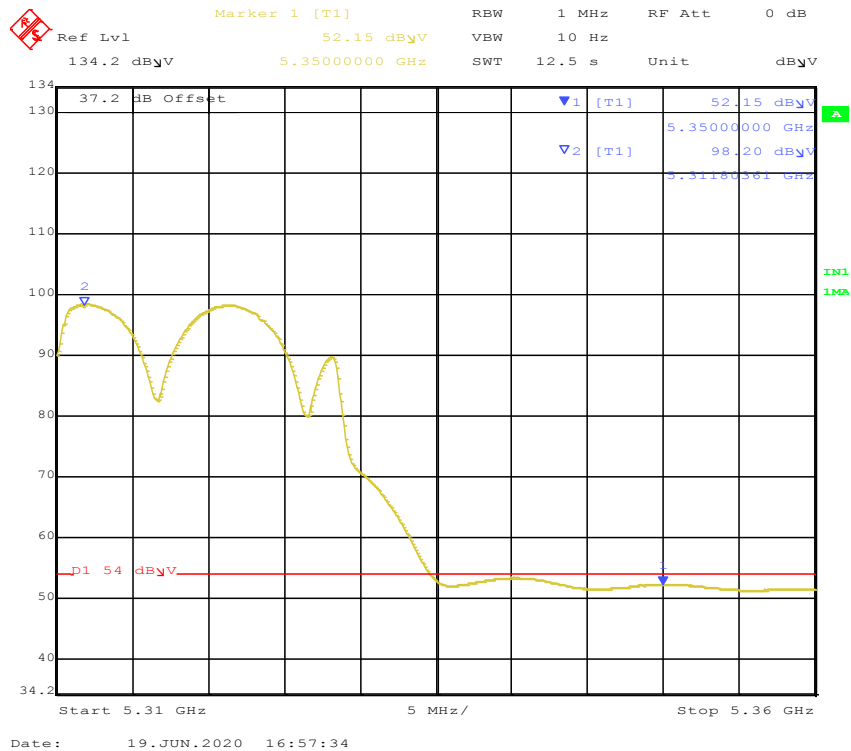


Figure 131: Radiated Emission 5350 MHz Edge for 802.11n HT40 5310 MHz – Vert. (Ave)

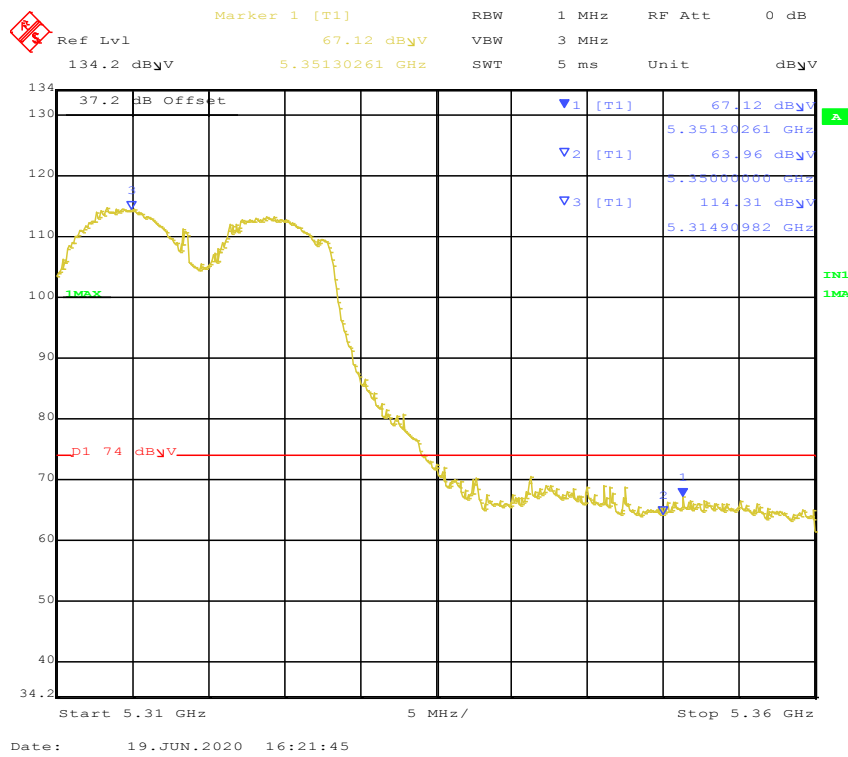


Figure 132: Radiated Emission 5350 MHz Edge for 802.11n HT40 5310 MHz – Horz. (Pk)

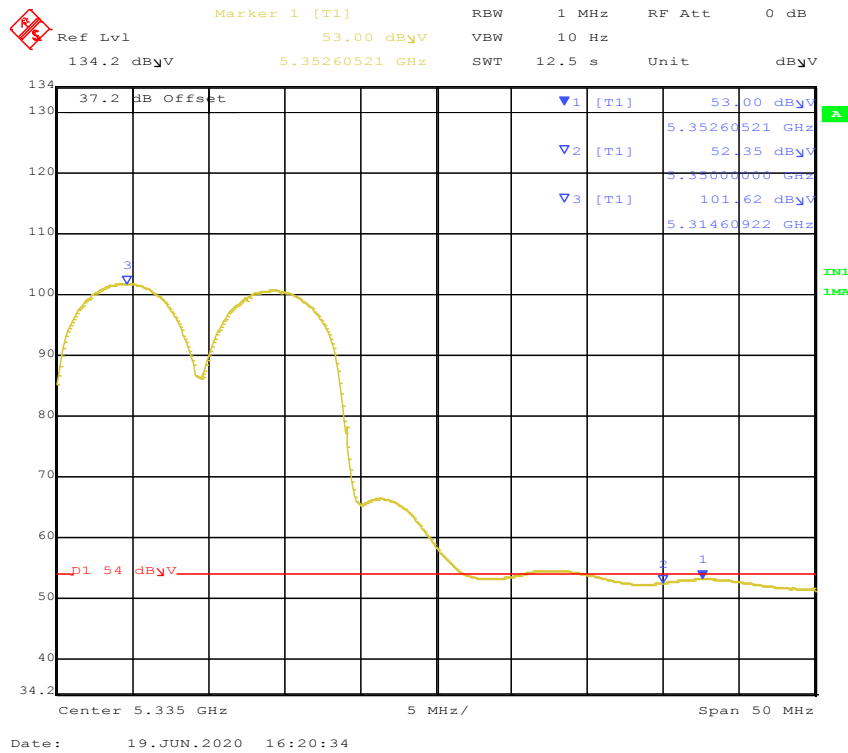


Figure 133: Radiated Emission 5350 MHz Edge for 802.11n HT40 5310 MHz – Horz. (Ave)

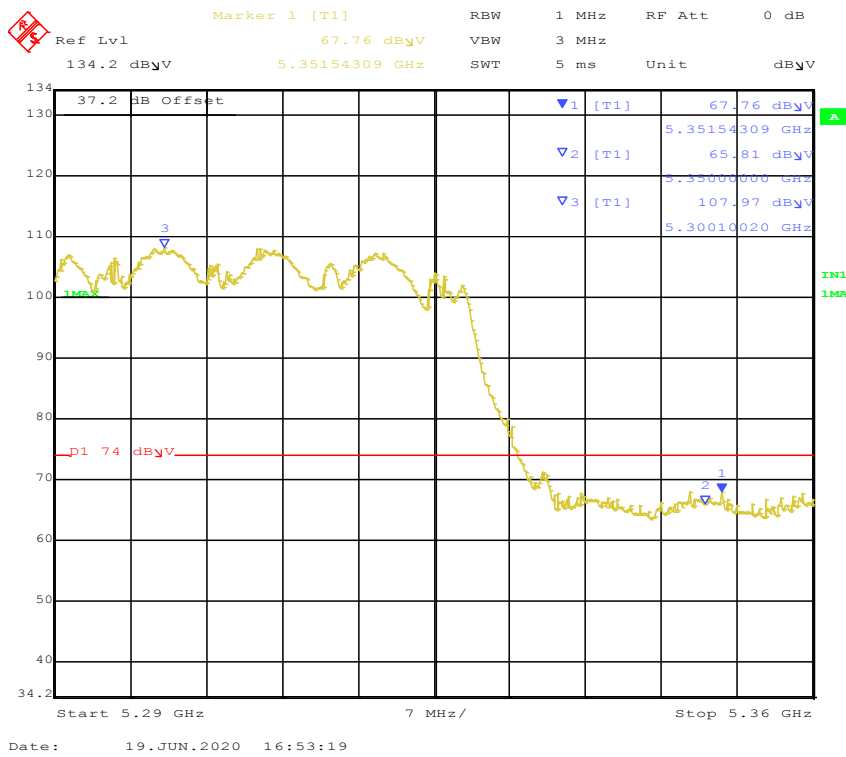


Figure 134: Radiated Emission 5350 MHz Edge for 802.11ac VHT80 5290 MHz – Vert. (Pk)

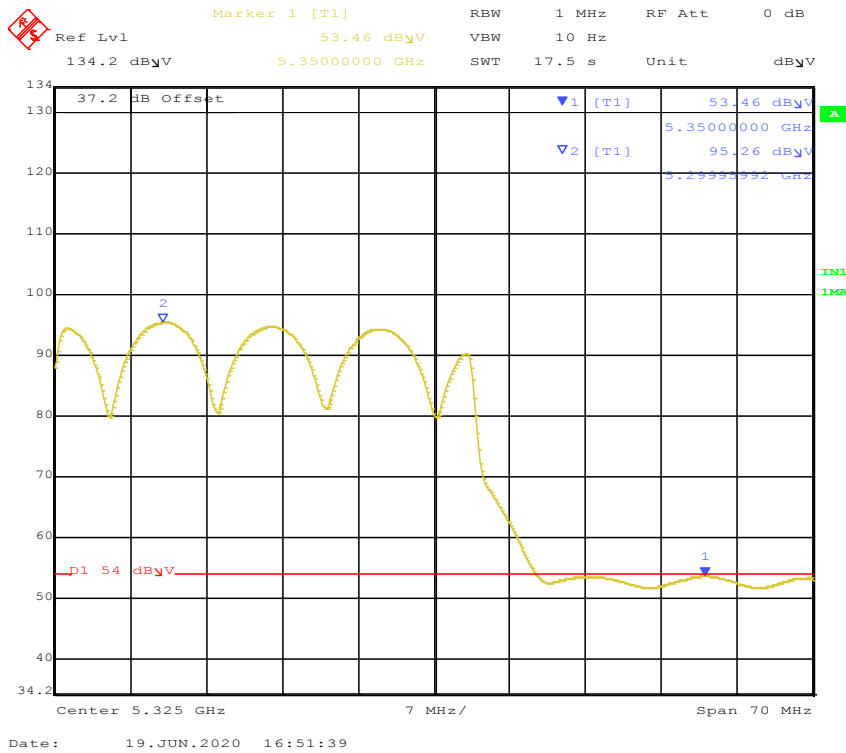


Figure 135: Radiated Emission 5350 MHz Edge for 802.11ac VHT80 5290 MHz – Vert. (Ave)

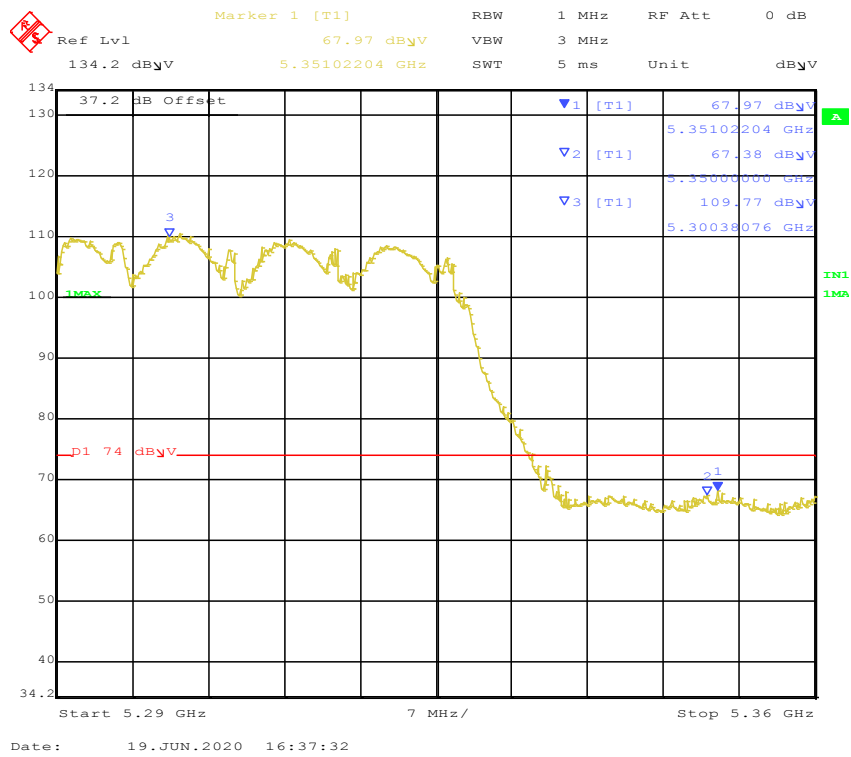


Figure 136: Radiated Emission 5350 MHz Edge for 802.11ac VHT80 5290 MHz – Horz. (Pk)

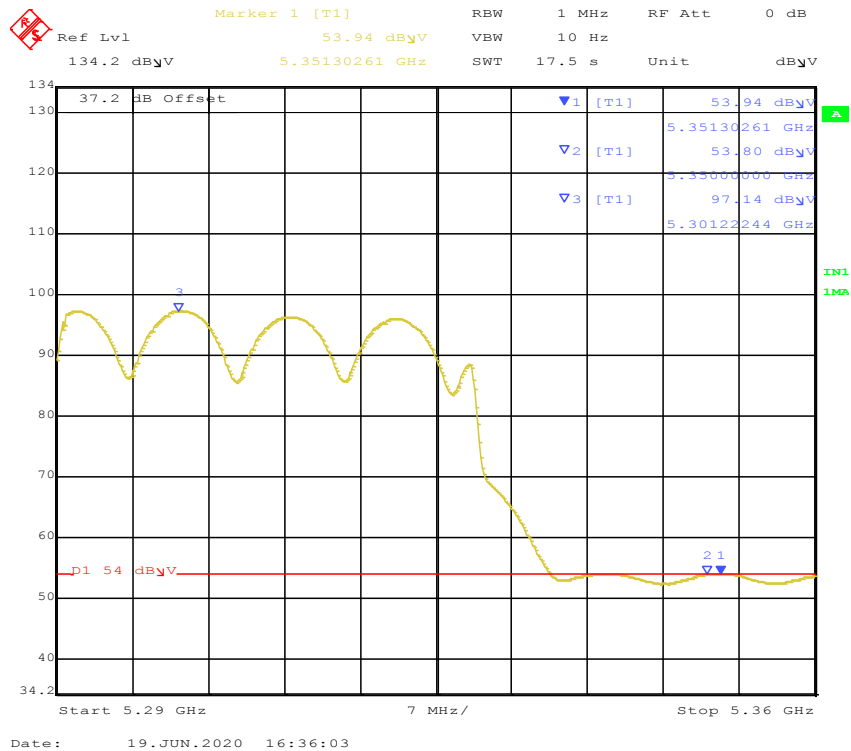


Figure 137: Radiated Emission 5350 MHz Edge for 802.11ac VHT80 5290 MHz – Horz. (Ave)

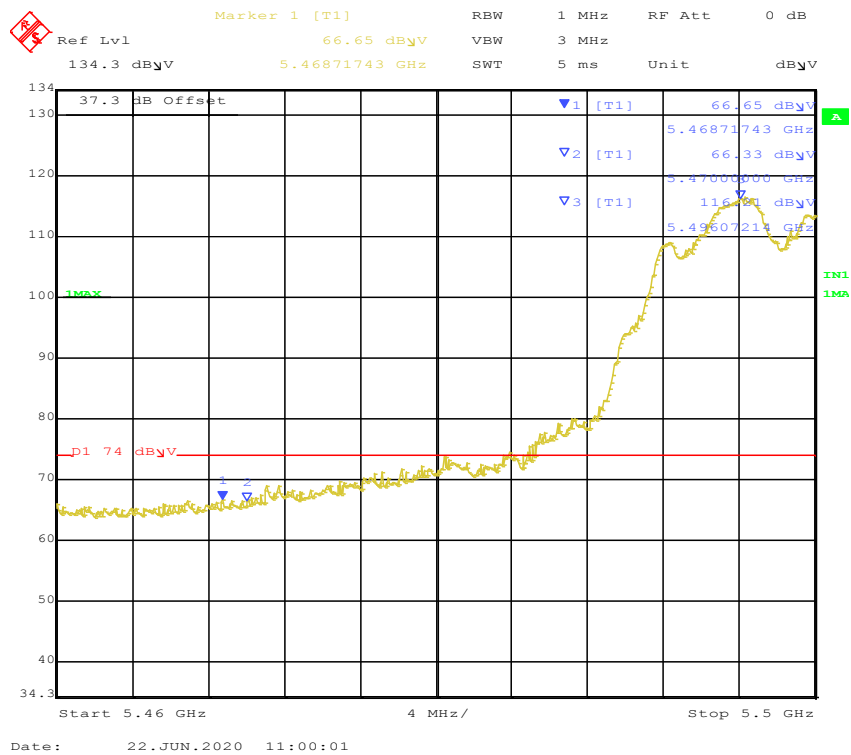


Figure 138: Radiated Emission 5470 MHz Edge for 802.11a 5500 MHz – Vert. (Pk)

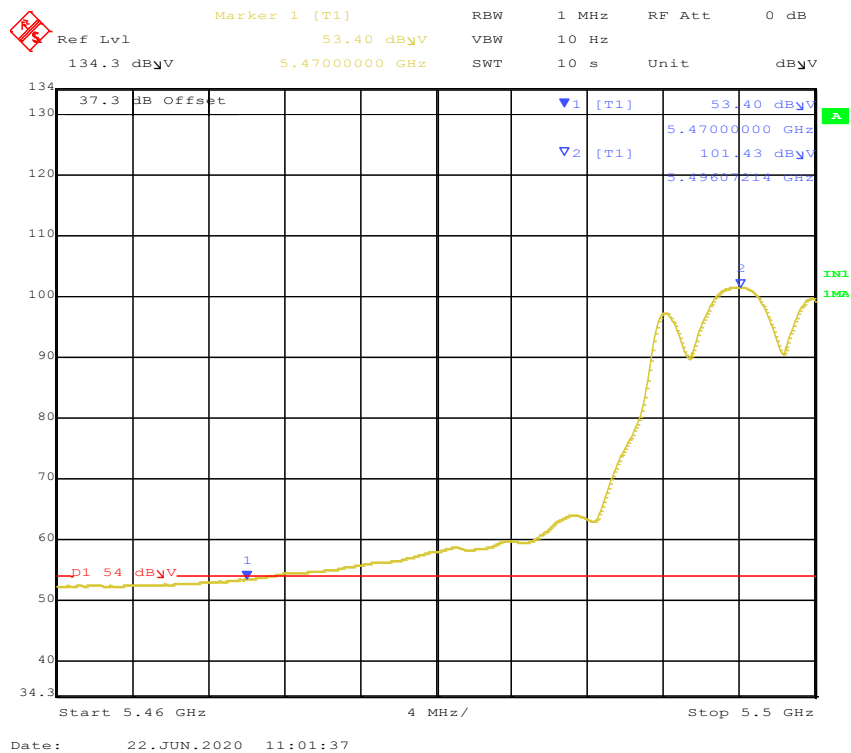


Figure 139: Radiated Emission 5470 MHz Edge for 802.11a 5500 MHz – Vert. (Ave)

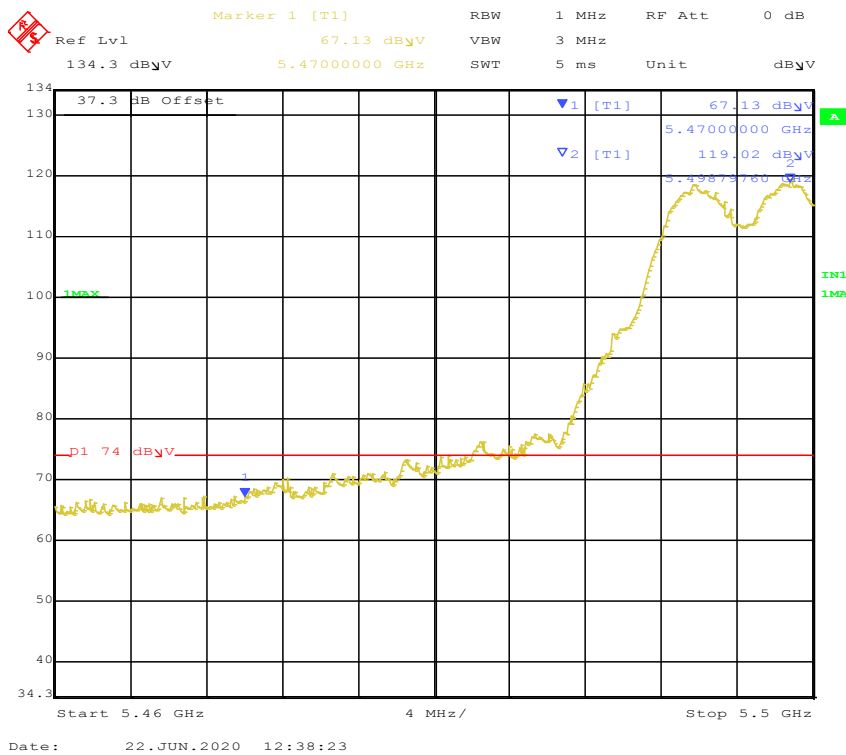


Figure 140: Radiated Emission 5470 MHz Edge for 802.11a 5500 MHz – Horiz. (Pk)

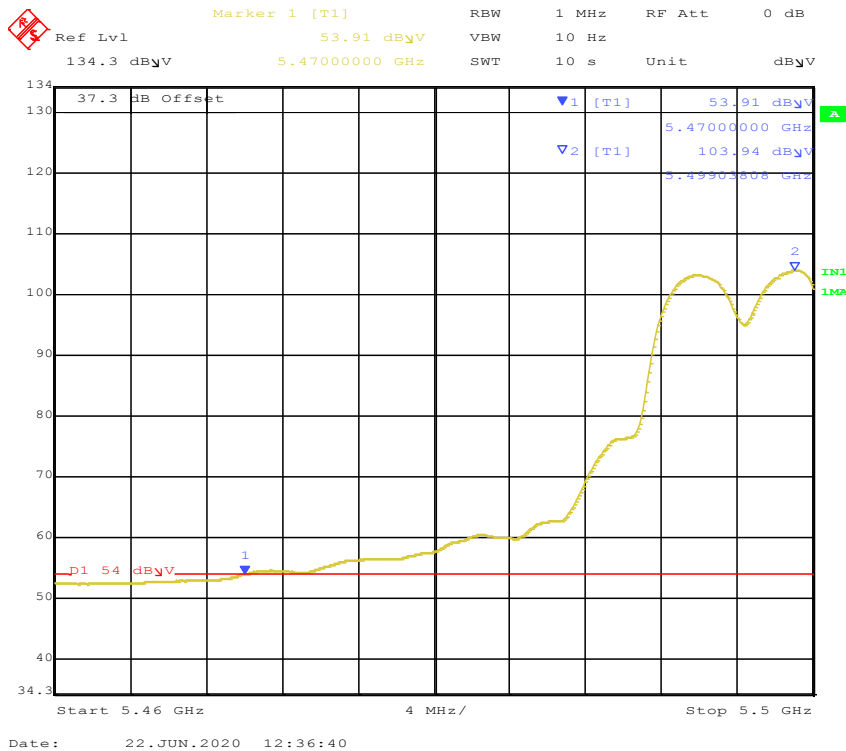


Figure 141: Radiated Emission 5470 MHz Edge for 802.11a 5500 MHz – Horiz. (Ave)

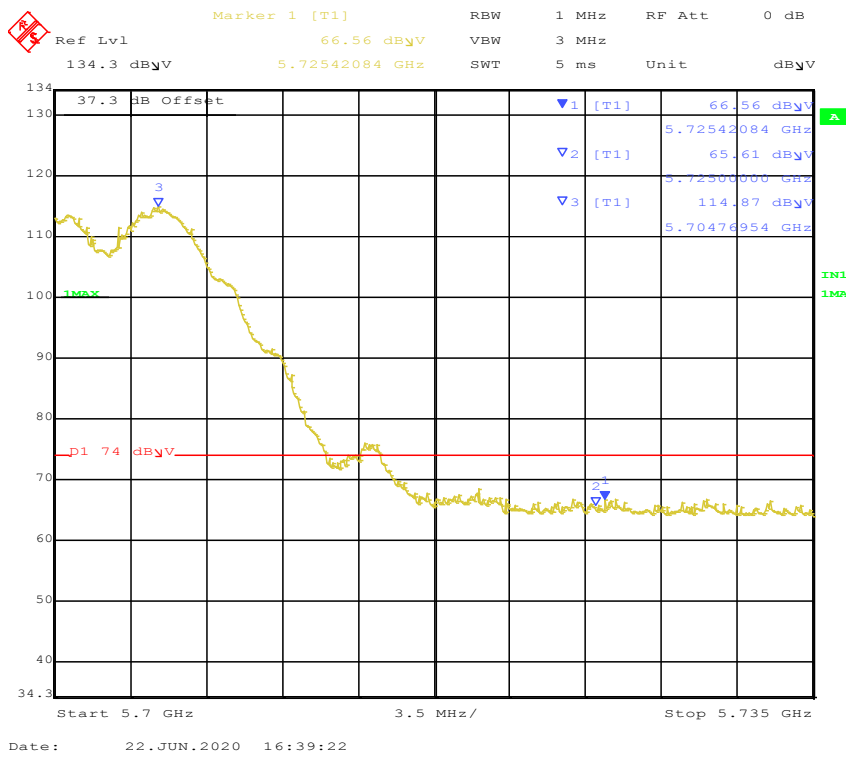


Figure 142: Radiated Emission 5725 MHz Edge for 802.11a 5700 MHz –Vert. (Pk)

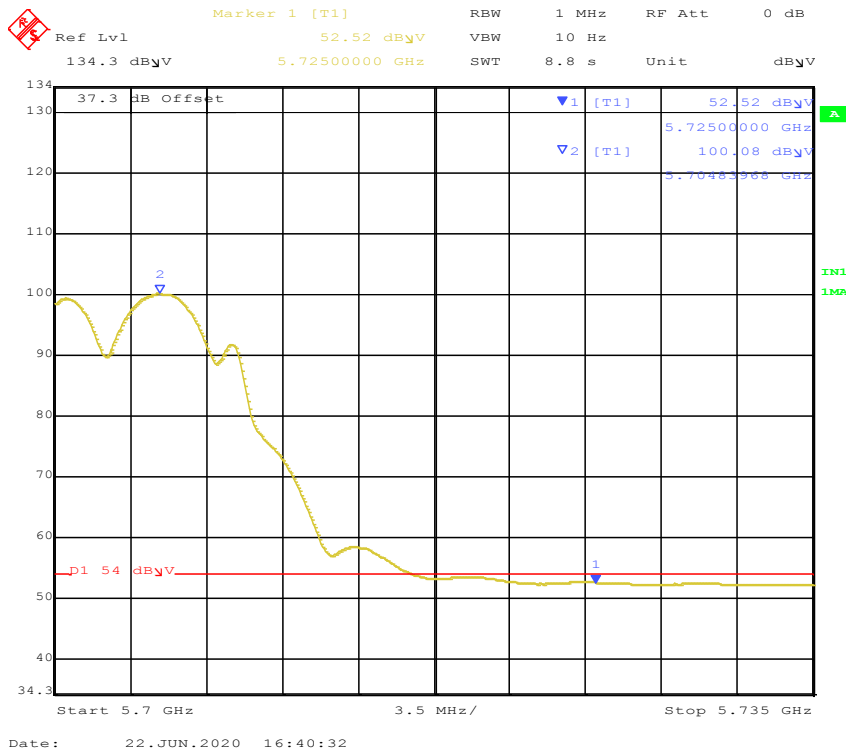


Figure 143: Radiated Emission 5725 MHz Edge for 802.11a 5700 MHz – Vert. (Ave)

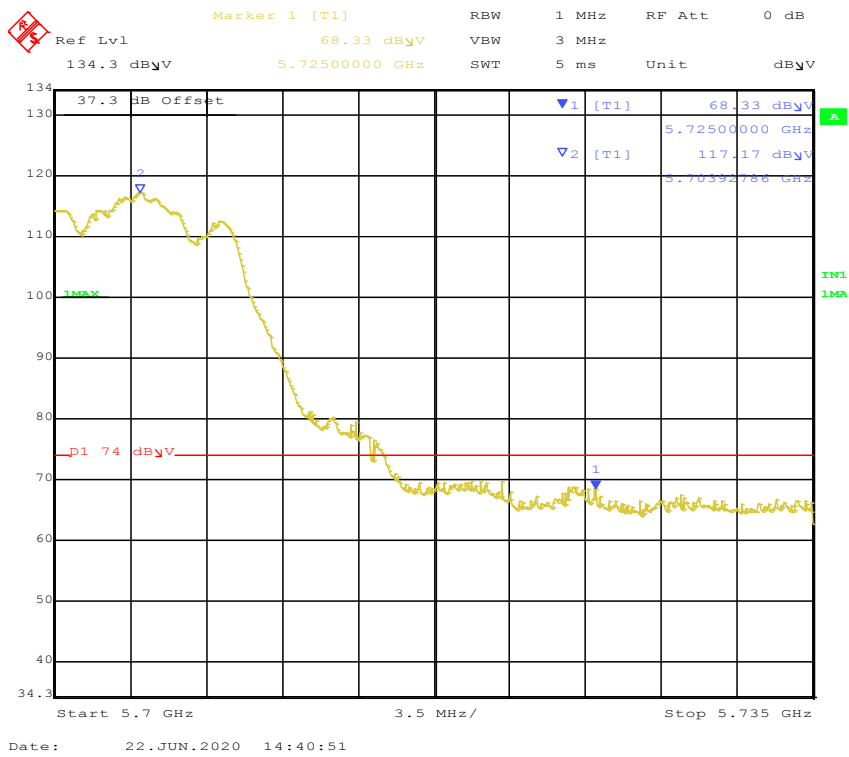


Figure 144: Radiated Emission 5725 MHz Edge for 802.11a 5700 MHz – Horz. (Pk)

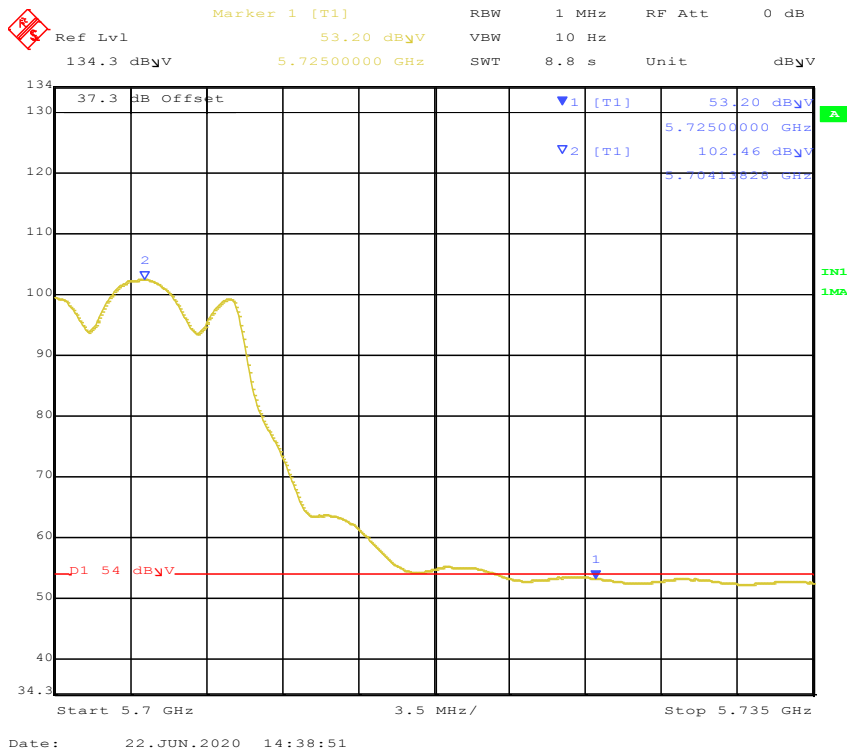


Figure 145: Radiated Emission 5725 MHz Edge for 802.11a 5700 MHz – Horz. (Ave)

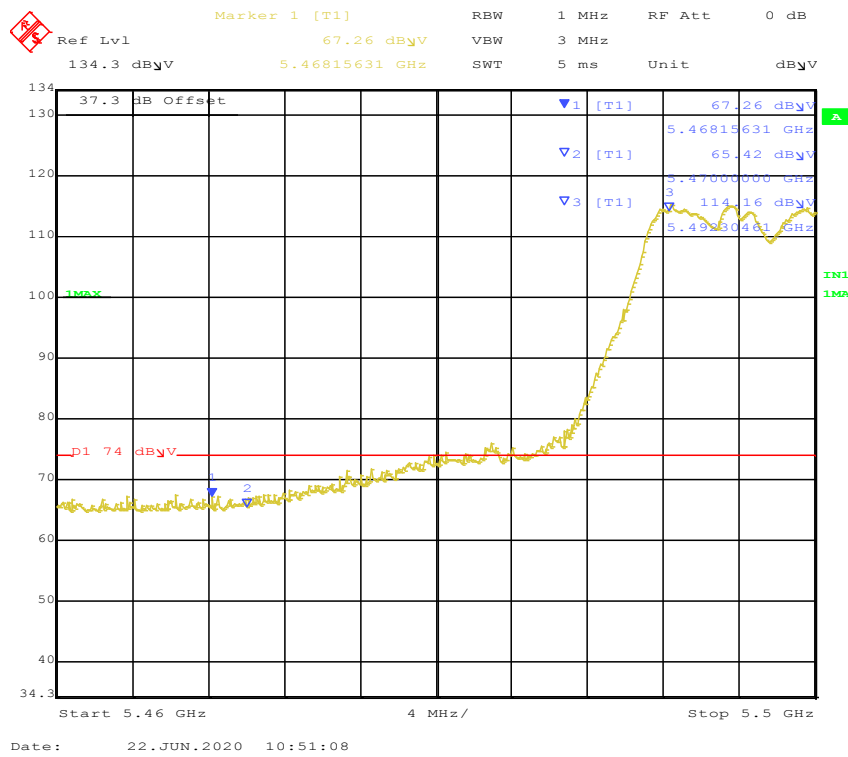


Figure 146: Radiated Emission 5470 MHz Edge for 802.11n HT20 5500 MHz – Vert. (Pk)

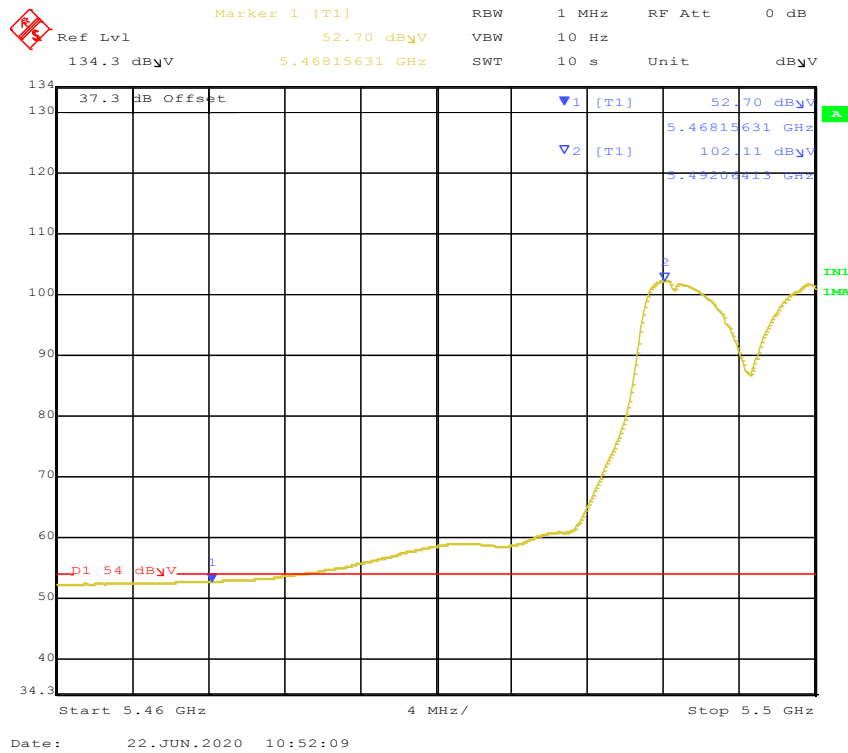


Figure 147: Radiated Emission 5470 MHz Edge for 802.11n HT20 5500 MHz – Vert. (Ave)

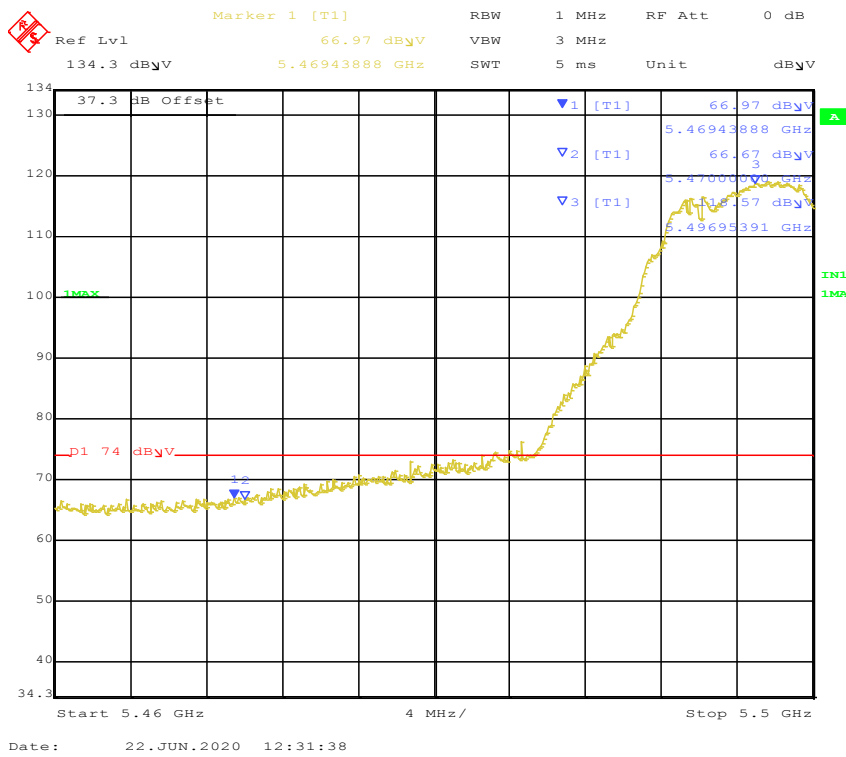


Figure 148: Radiated Emission 5470 MHz Edge for 802.11n HT20 5500MHz – Horz. (Pk)

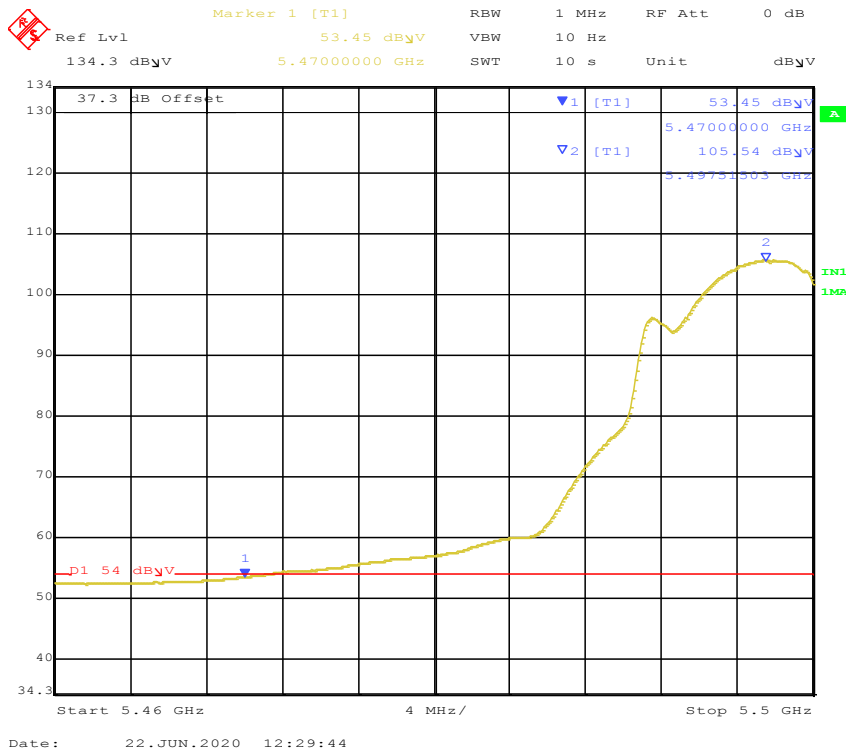


Figure 149: Radiated Emission 5470 MHz Edge for 802.11n HT20 5500 MHz – Horz. (Ave)

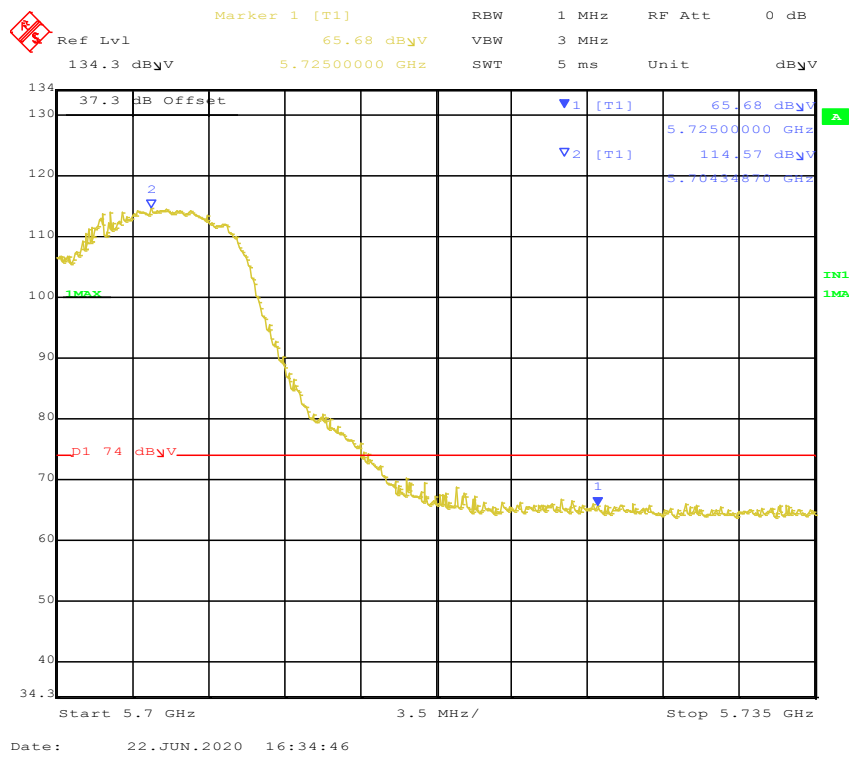


Figure 150: Radiated Emission 5725 MHz Edge for 802.11n HT20 5700 MHz – Vert. (Pk)

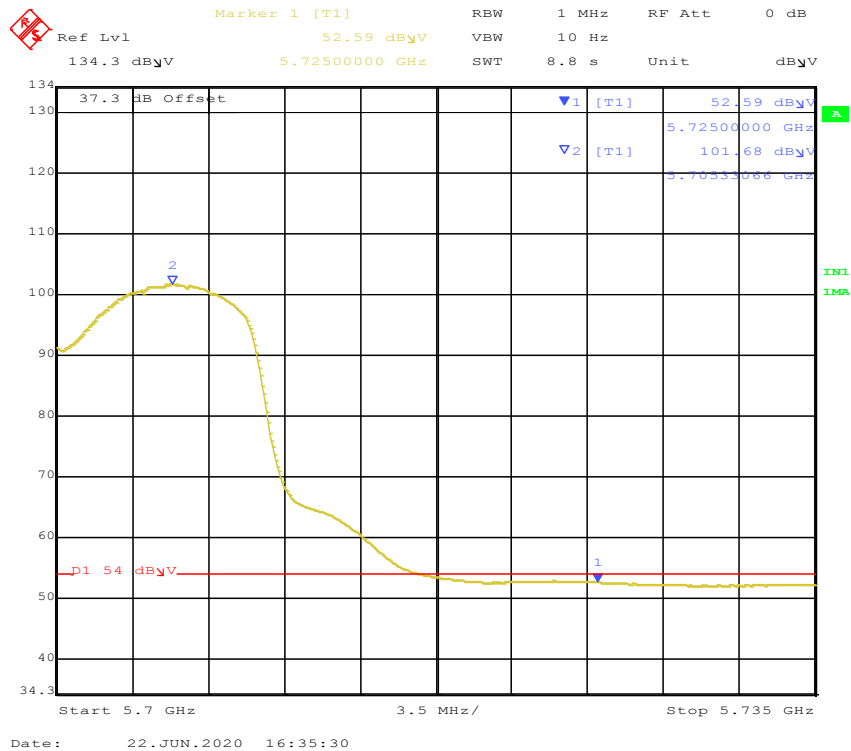


Figure 151: Radiated Emission 5725 MHz Edge for 802.11n HT20 5700 MHz – Vert. (Ave)

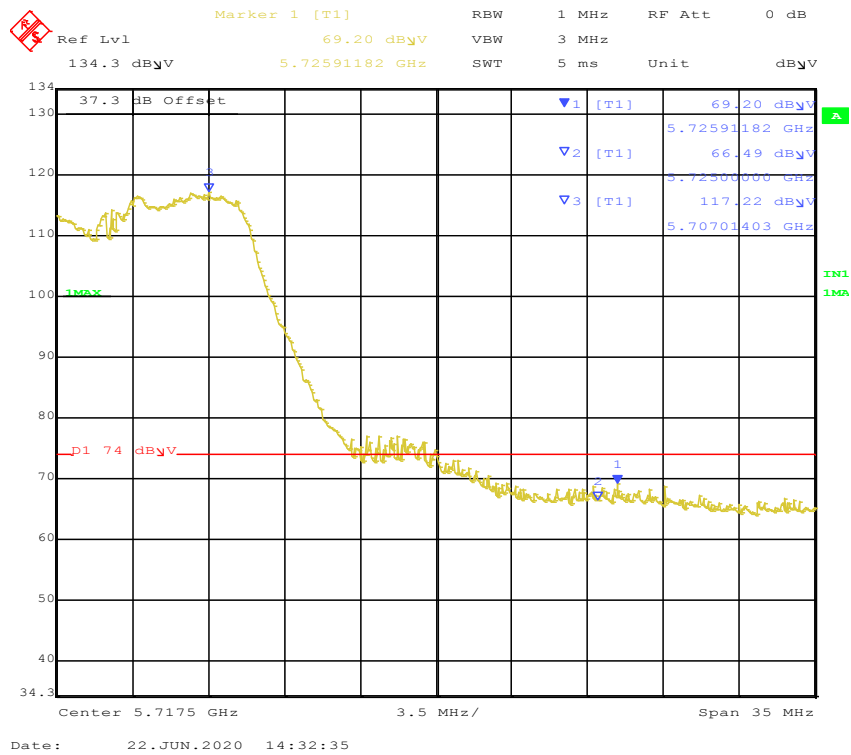


Figure 152: Radiated Emission 5725 MHz Edge for 802.11n HT20 5700 MHz – Horz. (Pk)

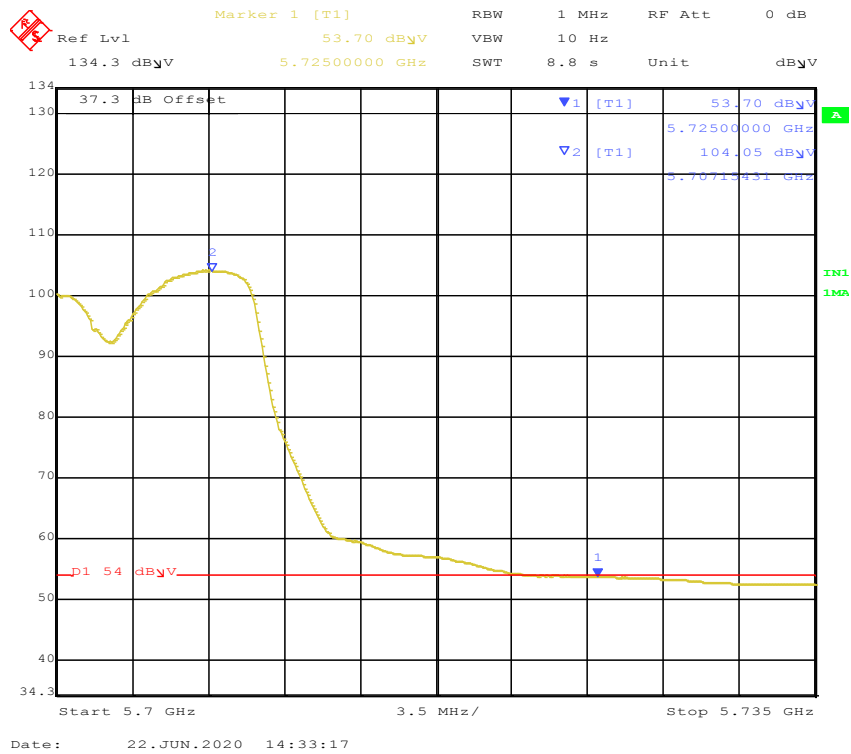


Figure 153: Radiated Emission 5725 MHz Edge for 802.11n HT20 5700 MHz – Horz. (Ave)

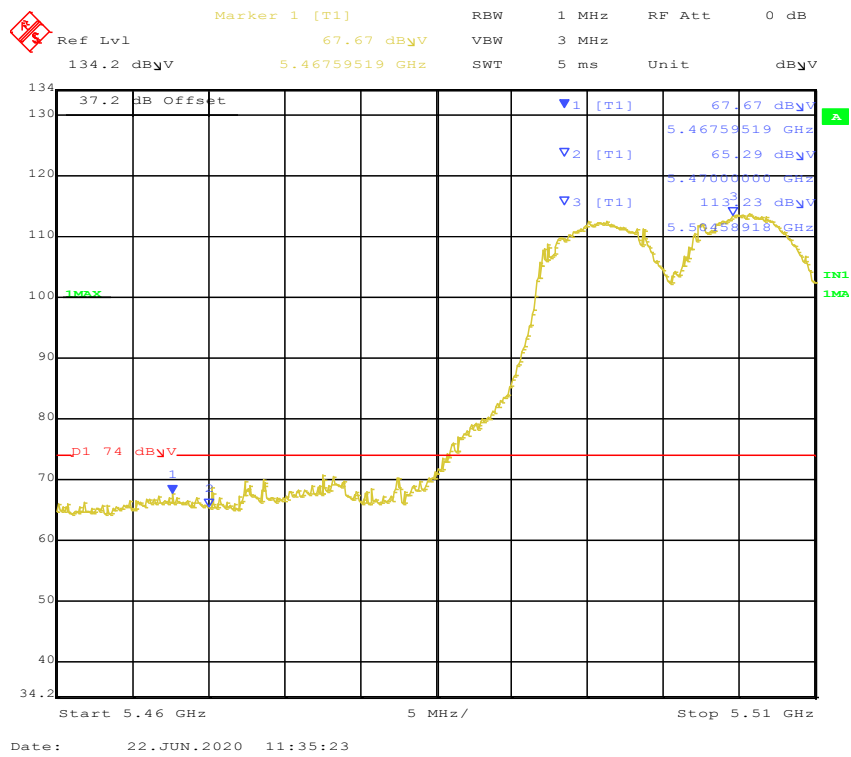


Figure 154: Radiated Emission 5470 MHz Edge for 802.11n HT40 5510 MHz – Vert (Pk)

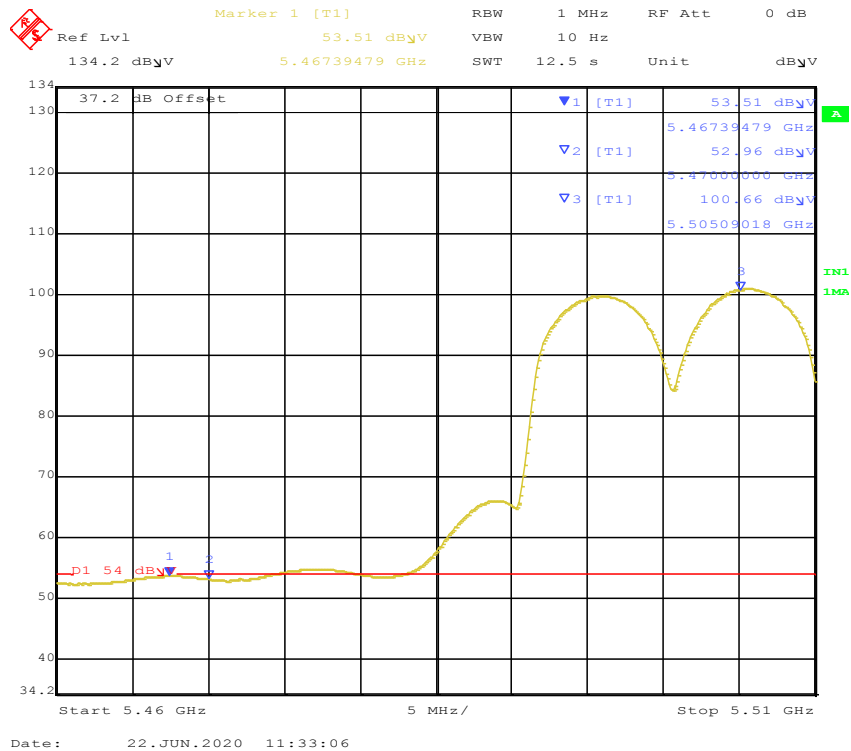


Figure 155: Radiated Emission 5470 MHz Edge for 802.11n HT40 5510 MHz – Vert. (Ave)

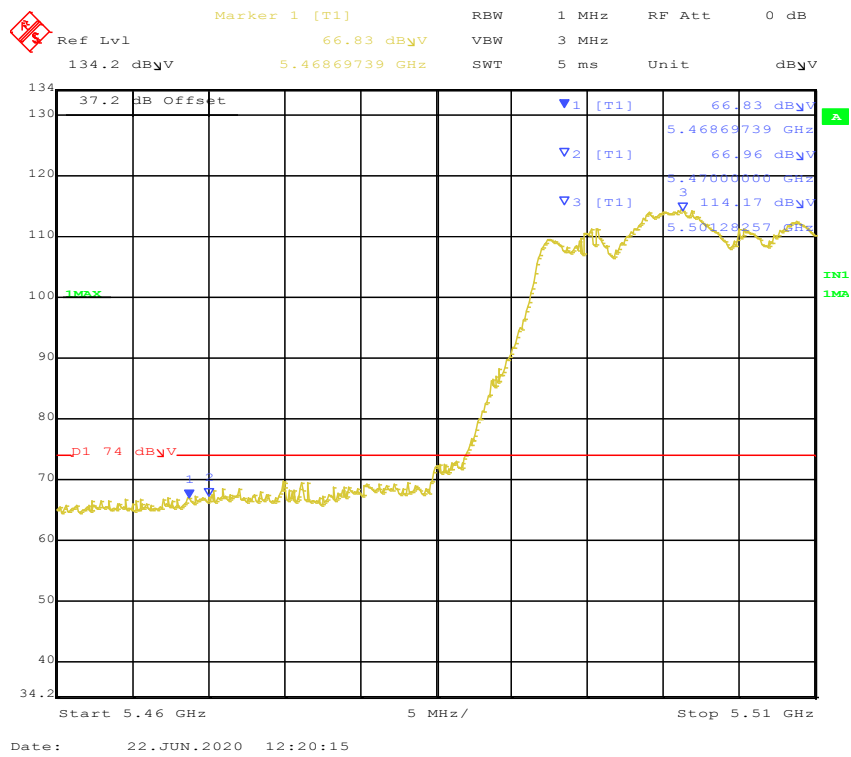


Figure 156: Radiated Emission 5470 MHz Edge for 802.11n HT40 5510 MHz – Horz (Pk)

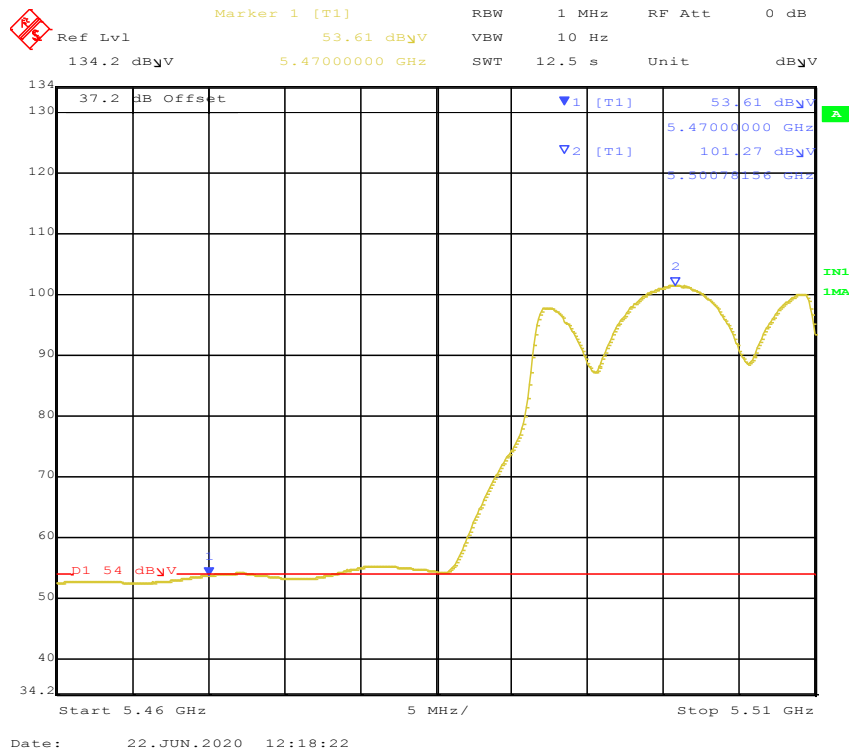


Figure 157: Radiated Emission 5470 MHz Edge for 802.11n HT40 5510 MHz – Horz. (Ave)

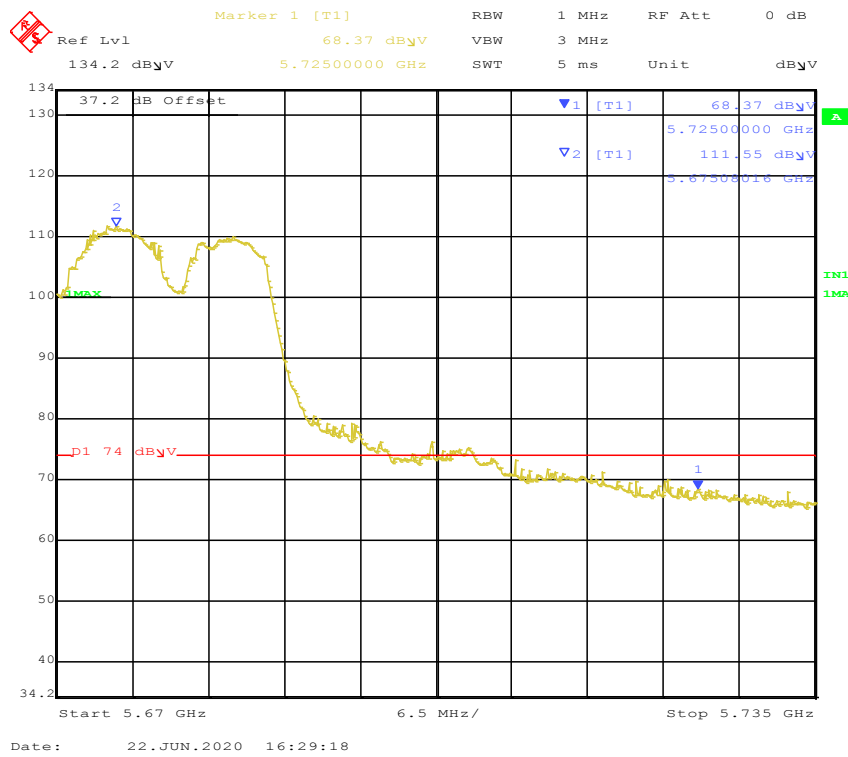


Figure 158: Radiated Emission 5725 MHz Edge for 802.11n HT40 5670 MHz – Vert (Pk)

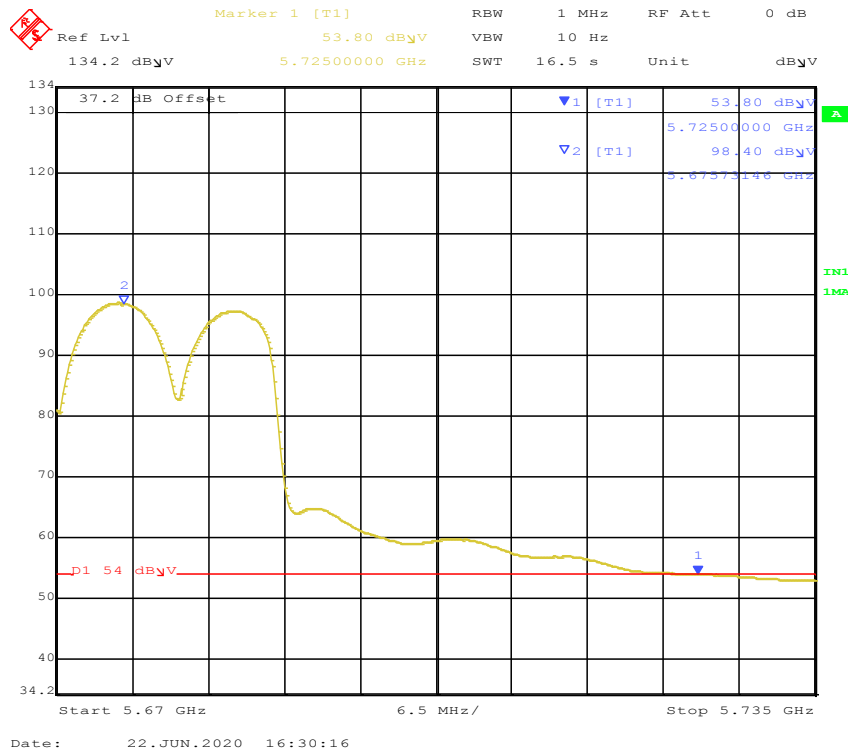


Figure 159: Radiated Emission 5725 MHz Edge for 802.11n HT40 5670 MHz – Vert. (Ave)

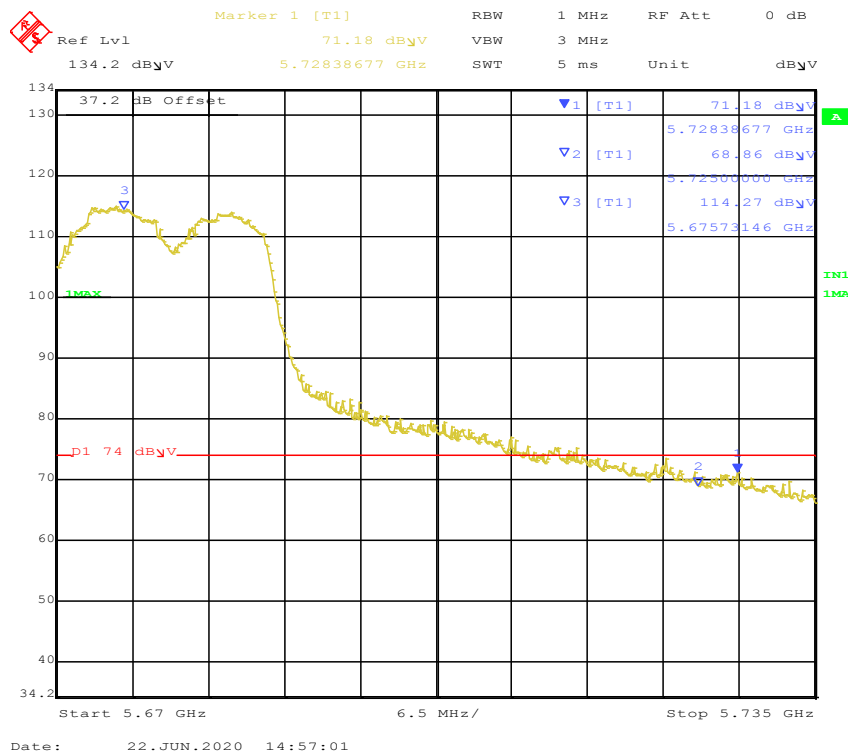


Figure 160: Radiated Emission 5725 MHz Edge for 802.11n HT40 5670 MHz – Horz (Pk)

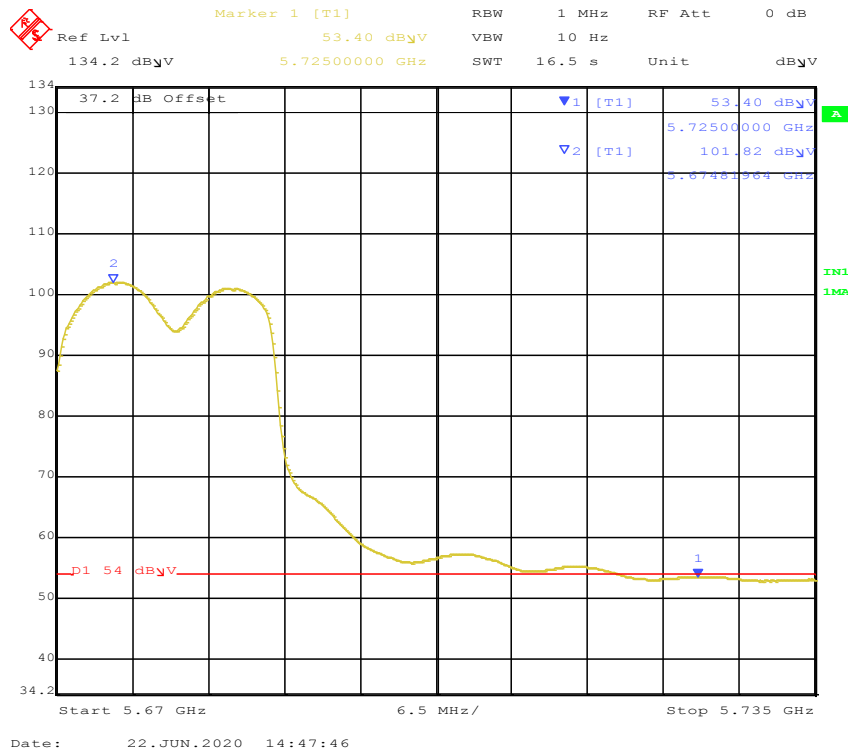


Figure 161: Radiated Emission 5725 MHz Edge for 802.11n HT40 5670 MHz – Horz. (Ave)

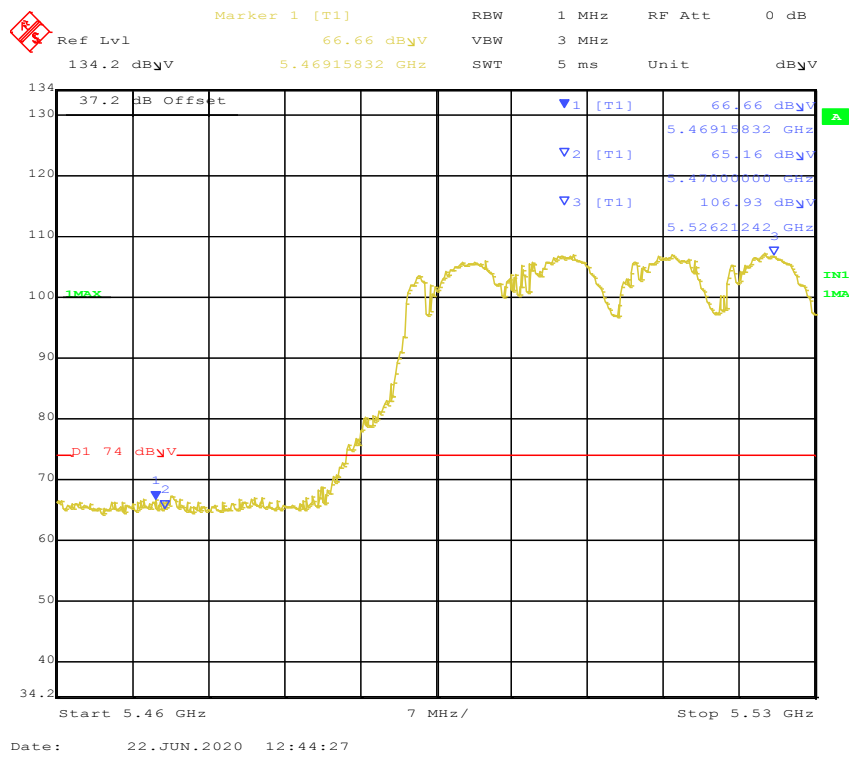


Figure 162: Radiated Emission 5470 MHz Edge for 802.11ac VHT80 5530 MHz – Vert (Pk)

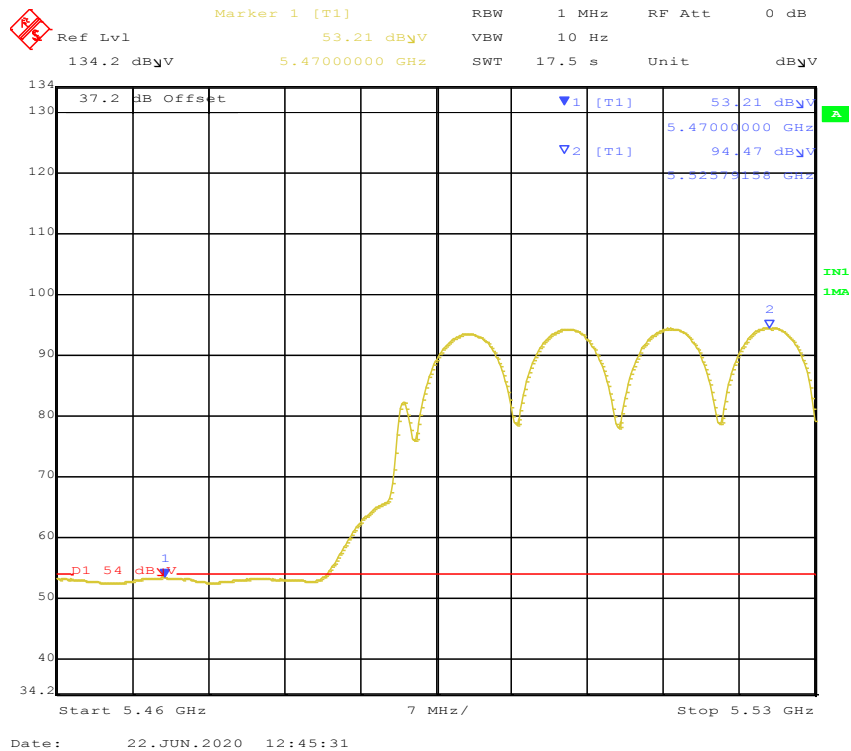


Figure 163: Radiated Emission 5470 MHz Edge for 802.11ac VHT80 5530 MHz – Vert (Ave)

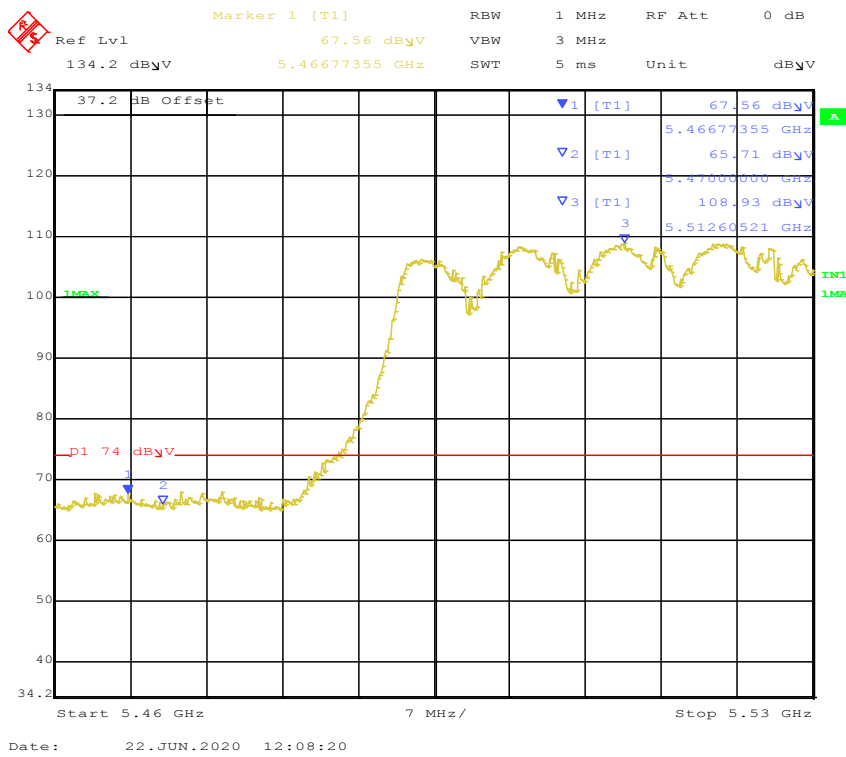


Figure 164: Radiated Emission 5470 MHz Edge for 802.11ac VHT80 5530 MHz – Horz (Pk)

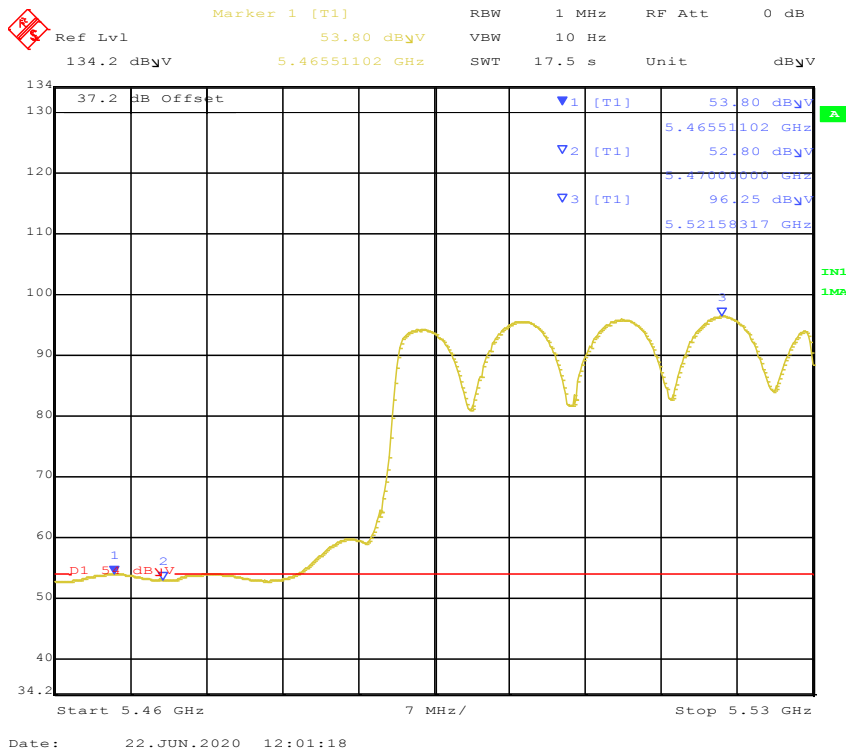


Figure 165: Radiated Emission 5470 MHz Edge for 802.11ac VHT80 5530 MHz – Horz (Ave)

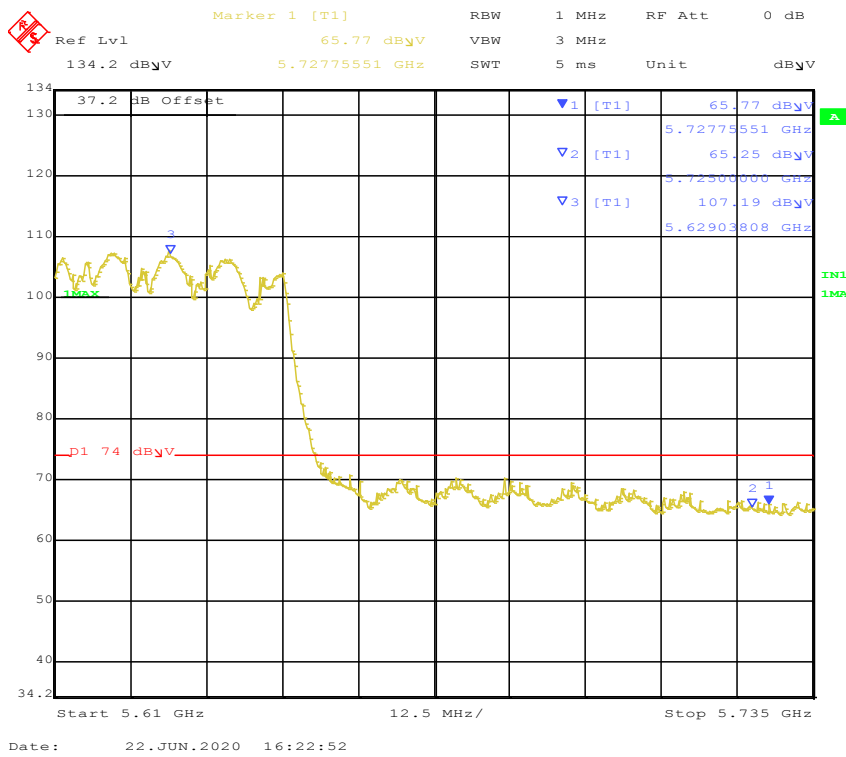


Figure 166: Radiated Emission 5725 MHz Edge for 802.11ac VHT80 5670 MHz – Vert (Pk)

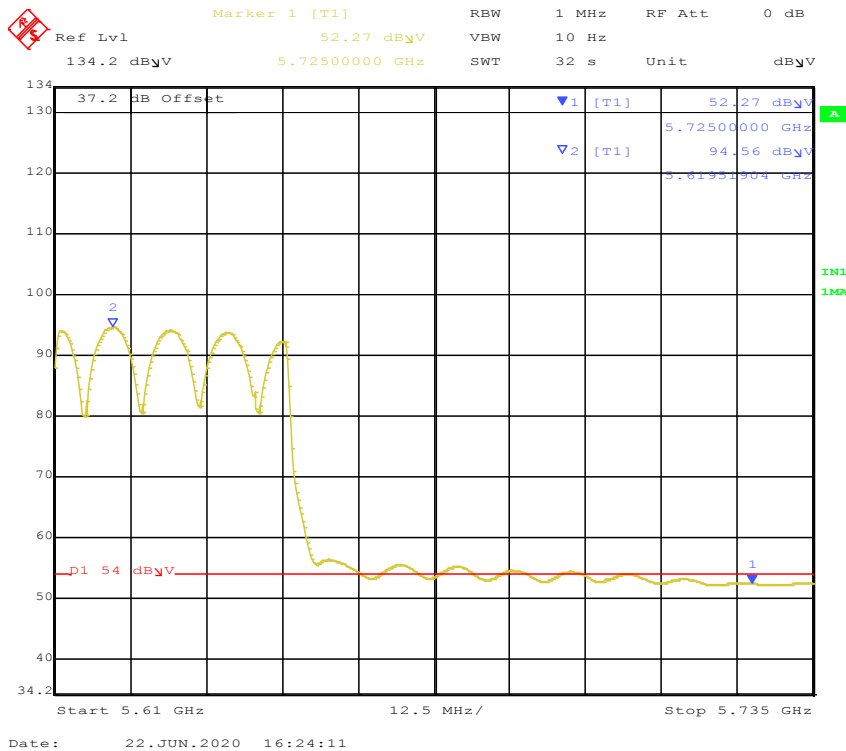


Figure 167: Radiated Emission 5725 MHz Edge for 802.11ac VHT80 5670 MHz – Vert (Ave)

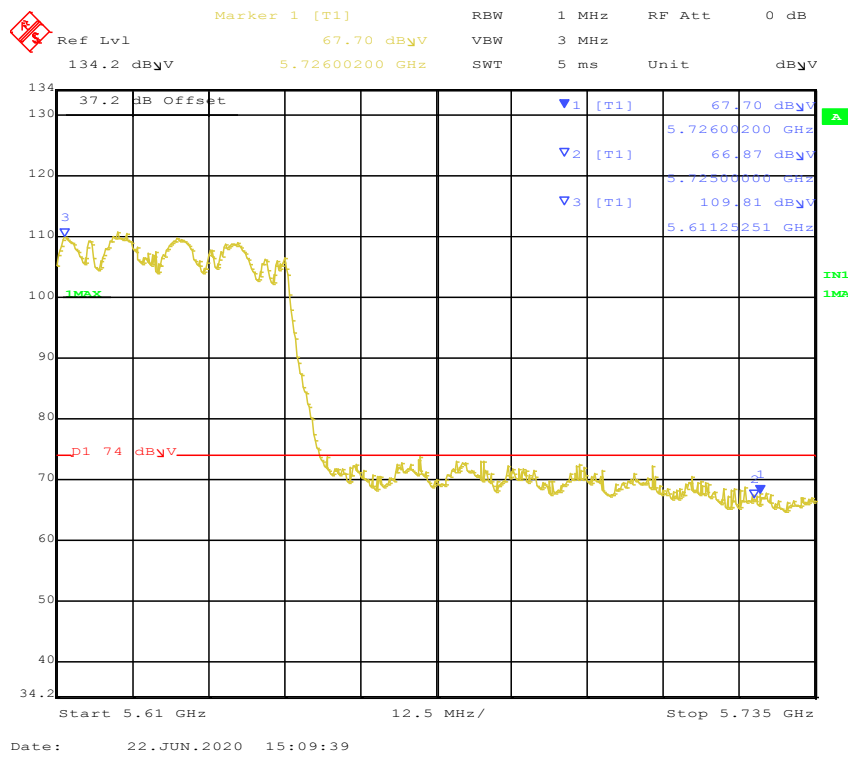


Figure 168: Radiated Emission 5725 MHz Edge for 802.11ac VHT80 5670 MHz – Horz (Pk)

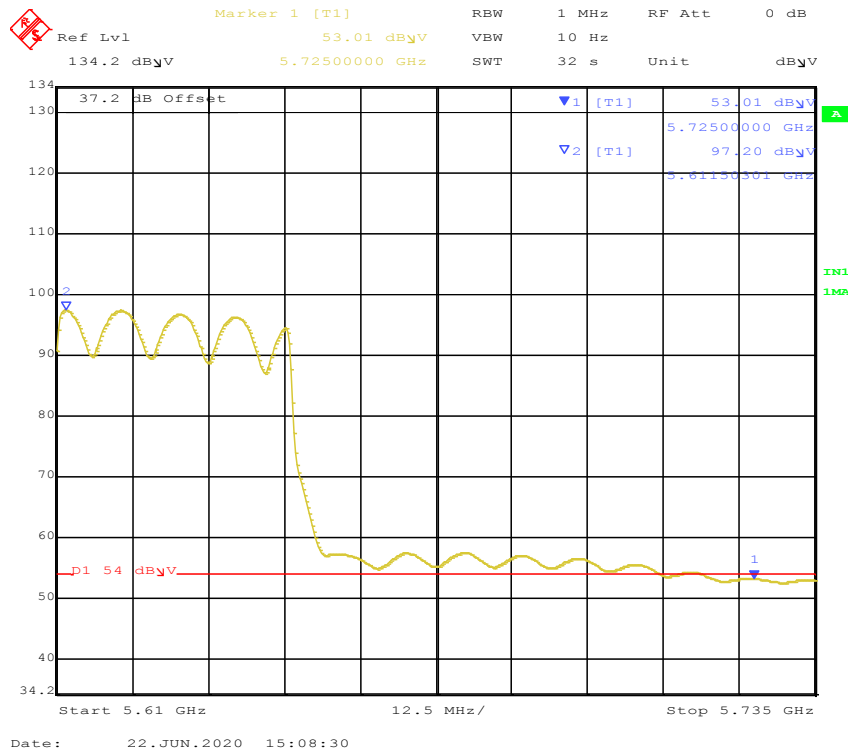


Figure 169: Radiated Emission 5725 MHz Edge for 802.11ac VHT80 5670 MHz – Horz (Ave)

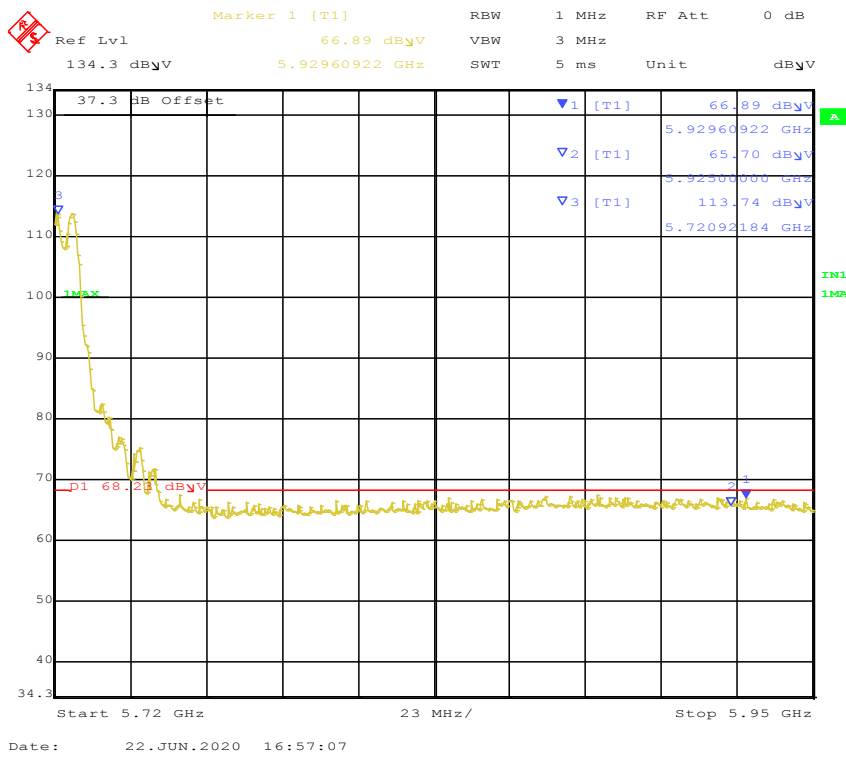


Figure 170: Radiated Emission 5850 MHz Edge for 802.11a 5720 MHz (Straddle Channel) – Vert (Pk)

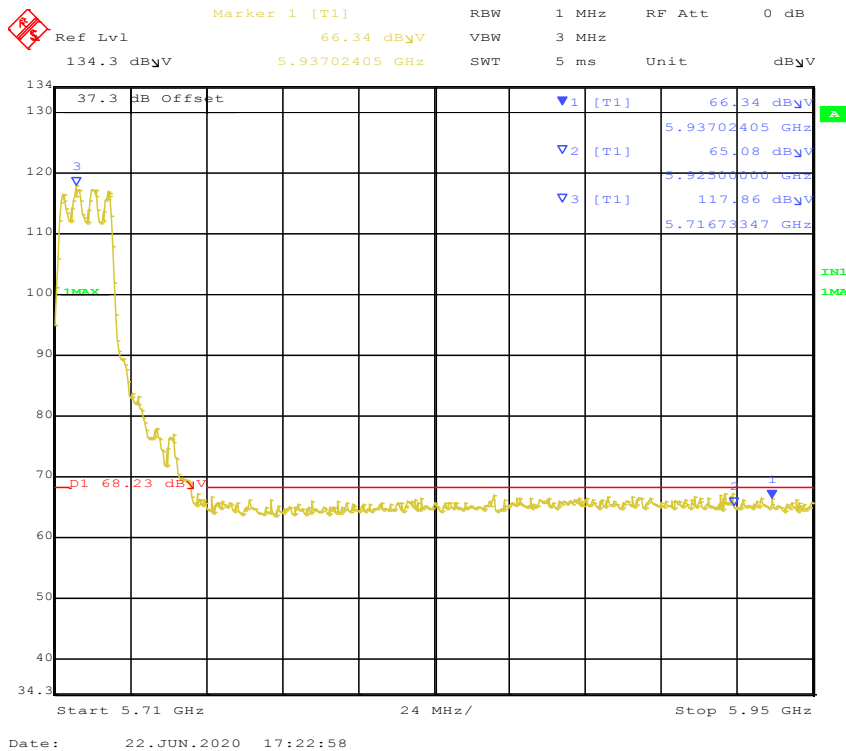


Figure 171: Radiated Emission 5850 MHz Edge for 802.11a 5720 MHz (Straddle Channel) – Horz (Pk)

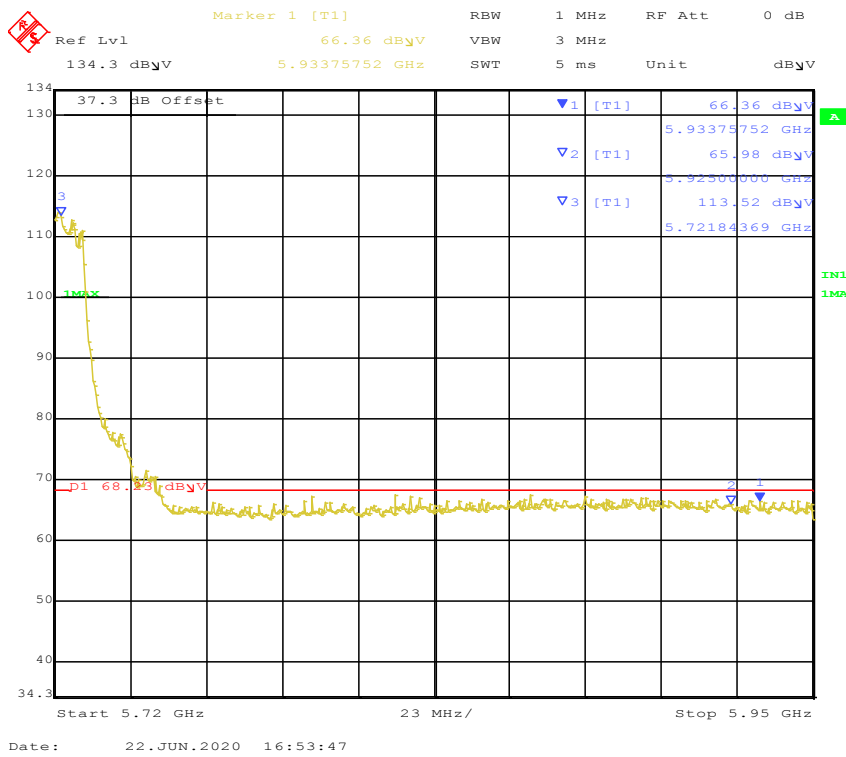


Figure 172: Radiated Emission 5850 MHz Edge for 802.11n HT20 5720 MHz (Straddle Channel) – Vert (Pk)

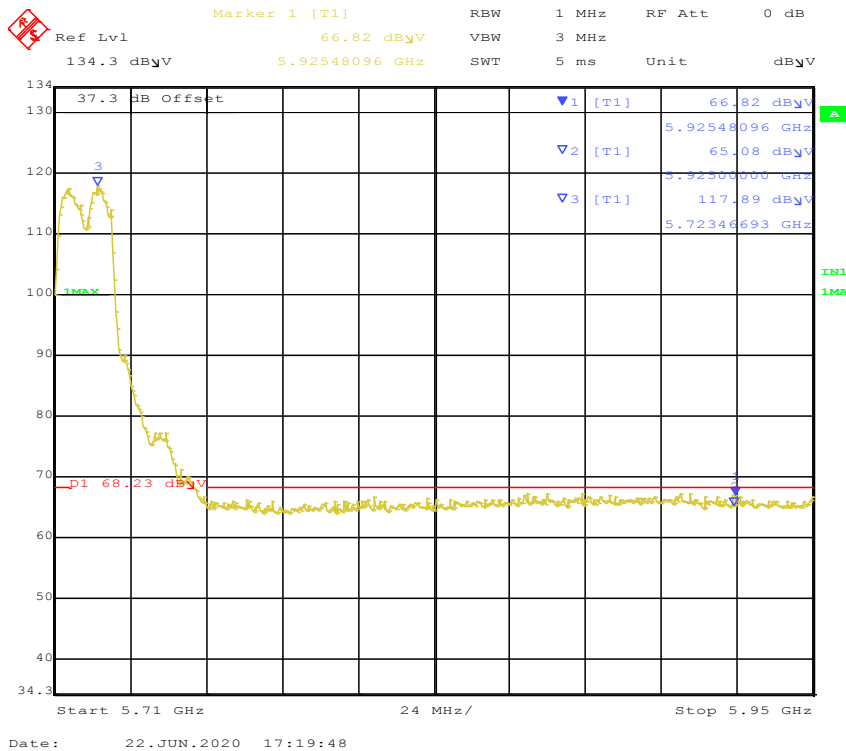


Figure 173: Radiated Emission 5850 MHz Edge for 802.11n HT20 5720 MHz (Straddle Channel) – Horz (Pk)

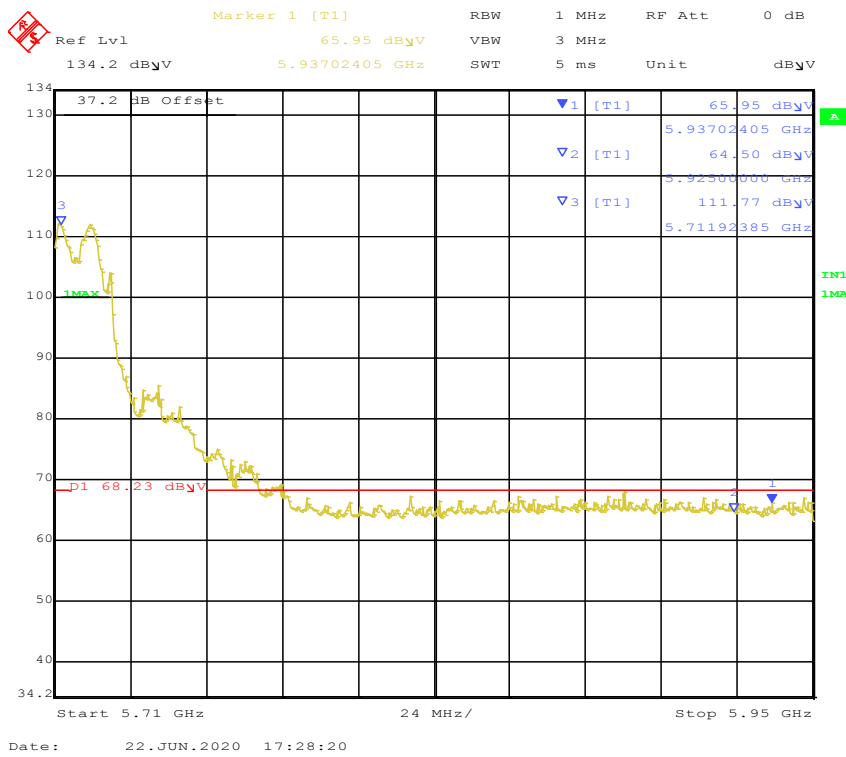


Figure 174: Radiated Emission 5850 MHz Edge for 802.11n HT40 5710 MHz (Straddle Channel) – Vert (Pk)

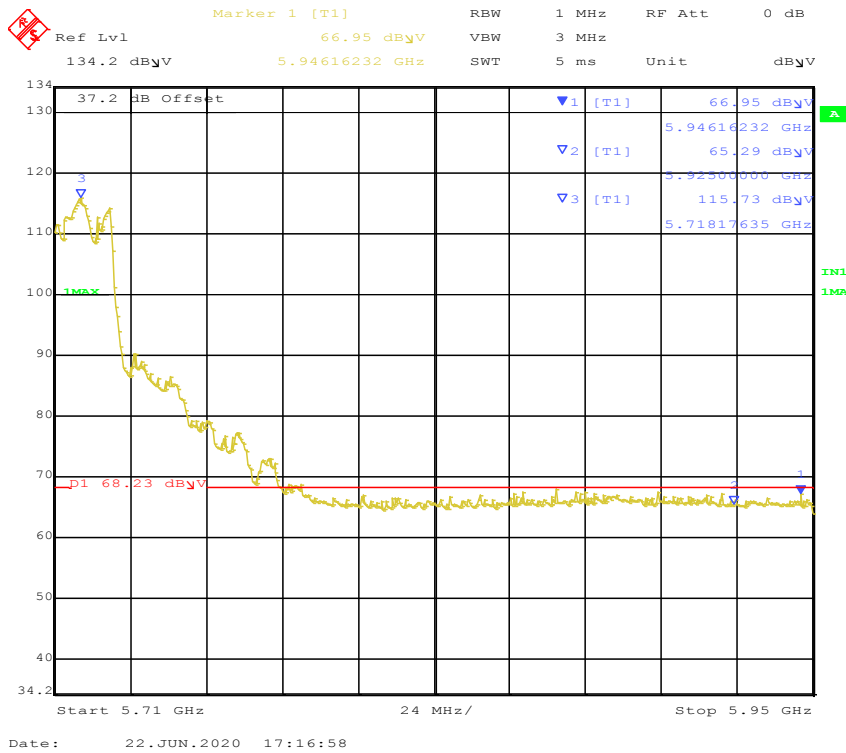


Figure 175: Radiated Emission 5850 MHz Edge for 802.11n HT40 5710 MHz (Straddle Channel) – Horz (Pk)

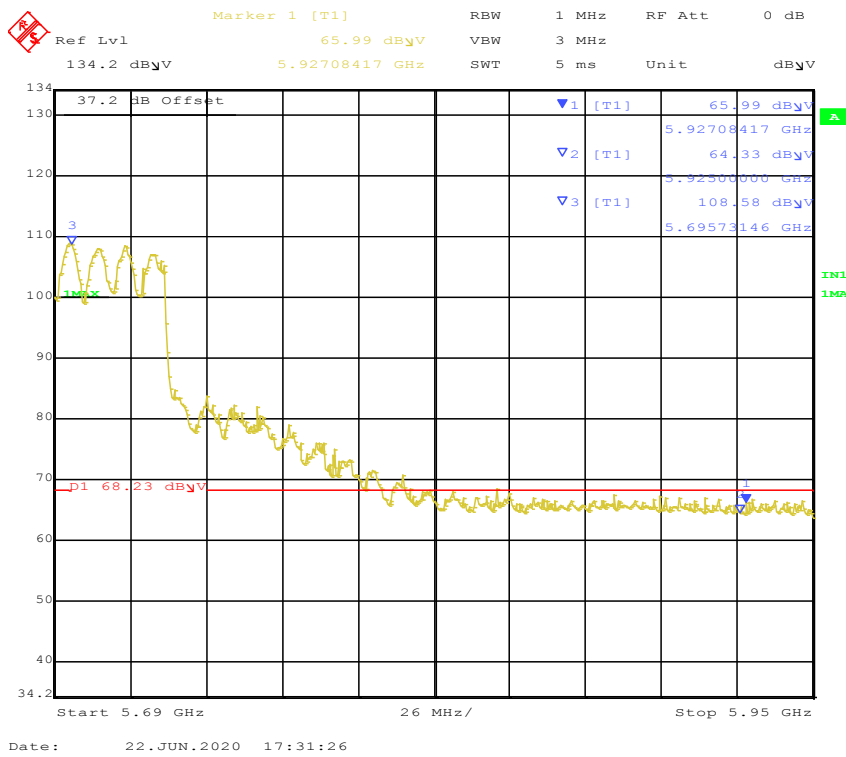


Figure 176: Radiated Emission 5850 MHz Edge for 802.11ac VHT80 5670 MHz (Straddle Channel) – Vert (Pk)

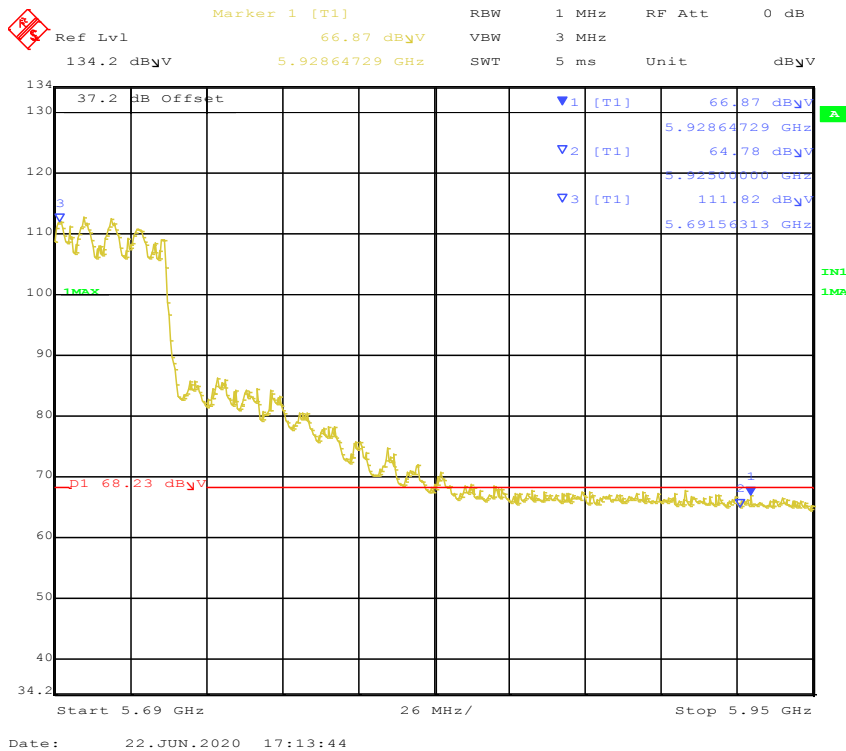


Figure 177: Radiated Emission 5850 MHz Edge for 802.11ac VHT80 5670 MHz (Straddle Channel) – Horz (Pk)

SOP 1 Radiated Emissions		Tracking # 32062992.001 Page 1 of 33	
EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Performed by	Kerwinn Corpuz

9 kHz – 1 GHz Transmit at 5300 MHz

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
0.54	35.18	2.26	10.40	47.85	Pk	V	102	121	72.96	-25.11
0.75	31.79	2.28	10.34	44.42	Pk	V	102	59	70.06	-25.65
34.92	33.90	2.51	-10.05	26.36	QP	V	104	354	40.00	-13.64
63.70	51.85	2.70	-20.42	34.13	QP	V	154	288	40.00	-5.87
70.60	53.32	2.75	-19.98	36.09	QP	V	151	328	40.00	-3.91
77.94	49.37	2.78	-20.17	31.98	QP	V	148	326	40.00	-8.02
99.71	47.18	2.88	-17.95	32.11	QP	V	123	220	43.50	-11.39
113.46	40.73	2.94	-14.89	28.77	QP	V	108	207	43.50	-14.73

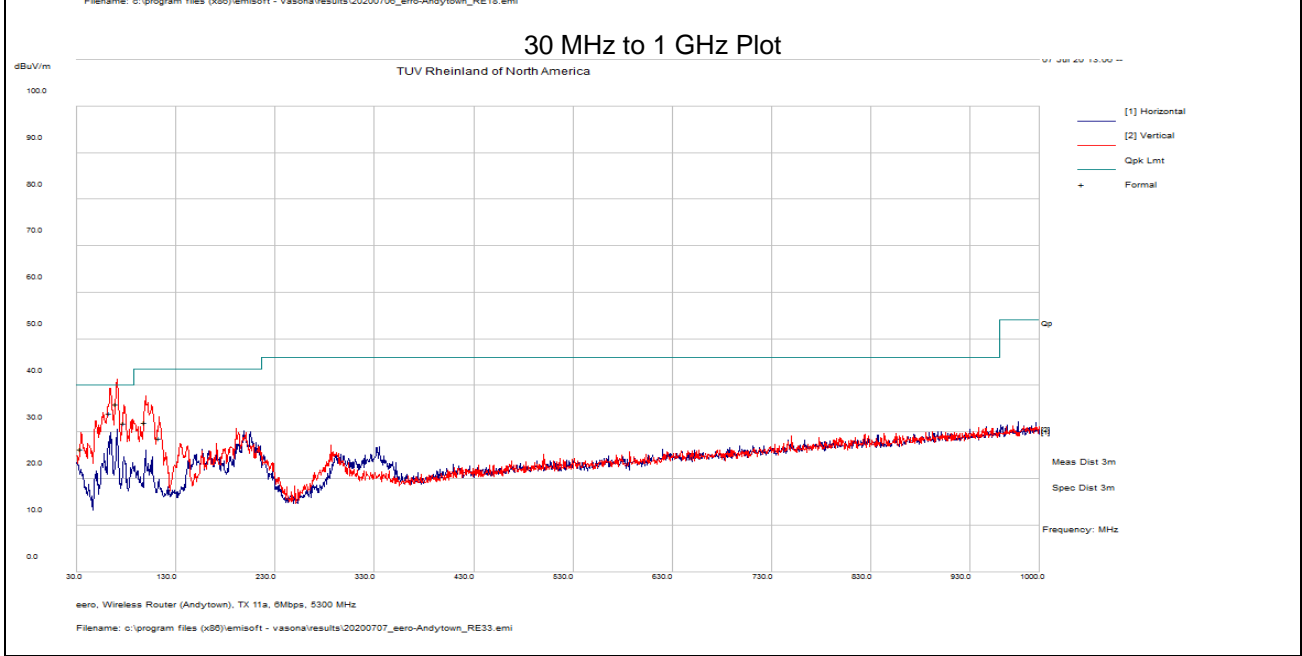
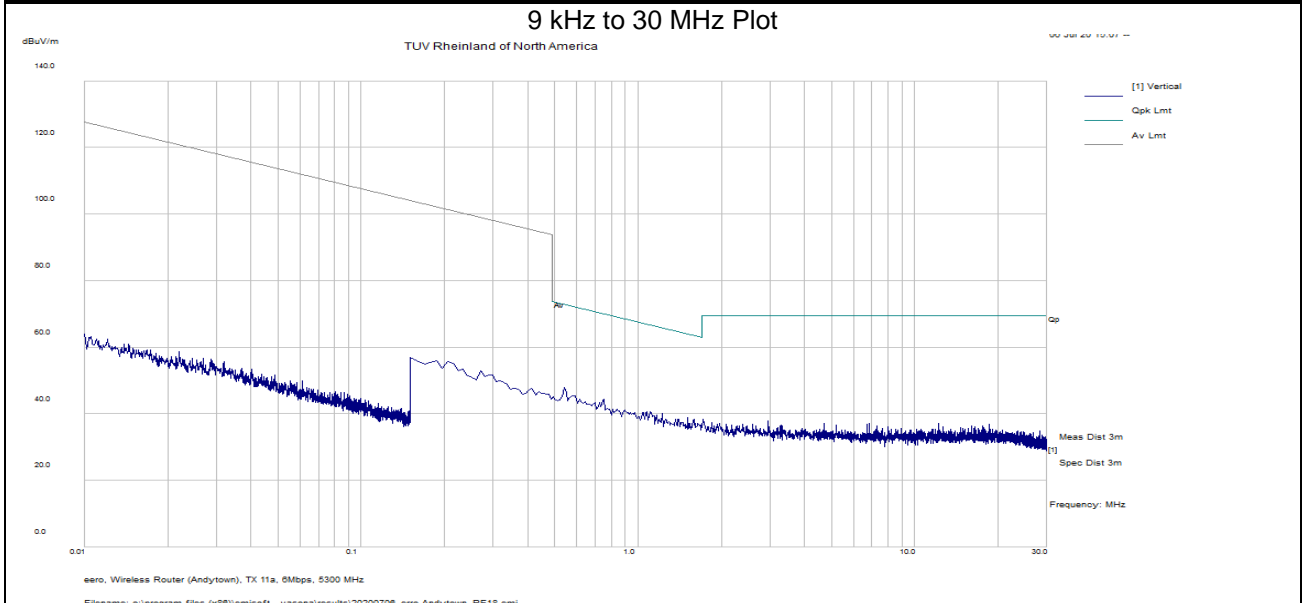
Spec Margin = E-Field QP - Limit, E-Field QP = FIM QP+ Total CF ± Uncertainty
 Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

Note: 1. Modes tested are 802.11a and 802.11n HT20, (low, mid & high channels).
 2. Worst case emission was observed on 802.11a at 6Mbps, 5300 MHz mode for 20MHz channel BW.
 3. No significant emission was observed below 30 MHz. Detected noise floor.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Date	Kerwinn Corpuz



Notes: Transmit at 5300 MHz.

SOP 1 Radiated Emissions				Tracking # 32062992.001 Page 3 of 33			
EUT Name	eero 6 and eero 6 Extender			Date	July 16 - 24, 2020		
EUT Model	N010001			Temp / Hum in	20° C / 35-38%rh		
EUT Serial	NA4V-0034-0FZS-B958			Temp / Hum out	N/A		
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1			Line AC / Freq	110 Vac / 60 Hz		
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN			RBW / VBW	Per ANSI C63.10		
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840			Performed by	Kerwinn Corpuz		

1 – 40 GHz Transmit at 5260 MHz (Low Channel)

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
10513.48	62.96	2.87	-16.33	49.50	Pk	H	193	166	74.00	-24.50
10513.48	49.78	2.87	-16.33	36.32	Ave	H	193	166	54.00	-17.68
15788.70	78.56	3.83	-17.04	65.35	Pk	V	227	74	74.00	-8.65
15788.70	63.13	3.83	-17.04	49.92	Ave	V	227	74	54.00	-4.08
21041.60	56.80	7.60	-9.40	55.00	Pk	V	150	82	74.00	-19.00
21041.60	48.30	7.60	-9.40	46.50	Ave	V	150	82	54.00	-7.50
36531.25	47.52	10.23	-4.88	52.88	Pk	H	184	338	74.00	-21.12
36531.25	38.30	10.20	-4.90	43.70	Ave	H	184	338	54.00	-10.30

1 – 40 GHz Transmit at 5300 MHz (Middle Channel)

17906.07	55.39	4.12	-7.91	51.60	Pk	H	202	108	74.00	-22.40
17906.07	43.58	4.12	-7.91	39.79	Ave	H	202	108	54.00	-14.21
15896.44	83.00	3.80	-17.60	69.20	Pk	V	227	304	74.00	-4.80
15896.44	67.40	3.80	-17.60	53.60	Ave	V	227	304	54.00	-0.40
21199.81	65.06	7.60	-9.06	63.60	Pk	V	156	78	74.00	-10.40
21199.81	52.80	7.60	-9.10	51.30	Ave	V	156	78	54.00	-2.70
36730.93	47.32	10.30	-5.15	52.48	Pk	V	161	304	74.00	-21.52
36730.93	38.60	10.30	-5.10	43.80	Ave	V	161	304	54.00	-10.20

1 – 40 GHz Transmit at 5320 MHz (High Channel)

17994.06	54.77	4.12	-7.76	51.12	Pk	H	227	192	74.00	-22.88
17994.06	43.26	4.12	-7.76	39.62	Ave	H	227	192	54.00	-14.38
15958.42	77.76	3.77	-17.66	63.87	Pk	V	204	302	74.00	-10.13
15958.42	60.97	3.77	-17.66	47.08	Ave	V	204	302	54.00	-6.92
36416.96	47.19	10.23	-4.87	52.55	Pk	H	110	150	74.00	-21.45
36416.96	38.30	10.20	-4.90	43.70	Ave	H	110	150	54.00	-10.30
21279.96	55.59	7.60	-9.34	53.85	Pk	V	165	264	74.00	-20.15
21279.96	51.30	7.60	-9.30	49.60	Ave	V	165	264	54.00	-4.40

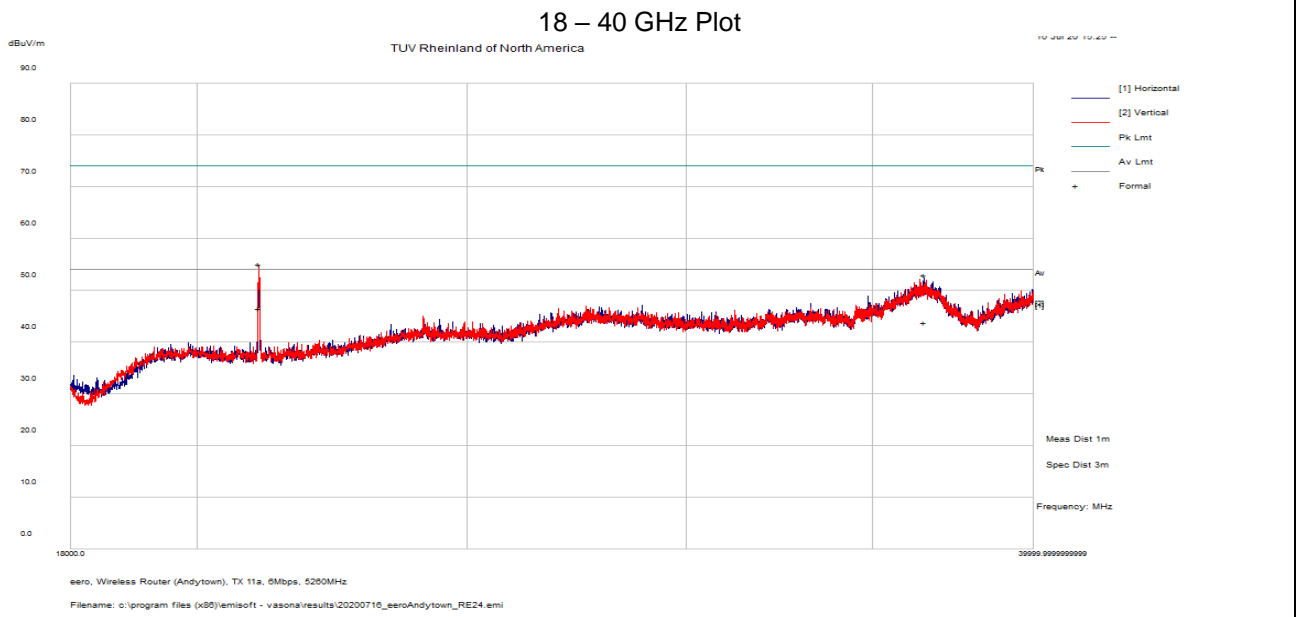
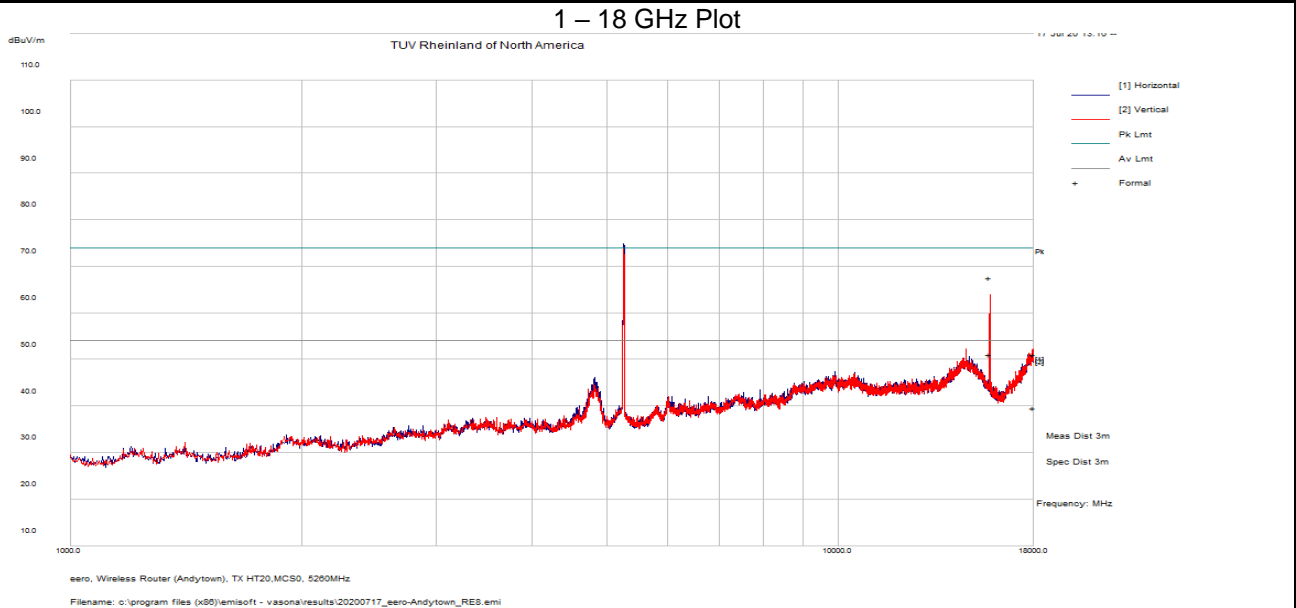
Spec Margin = E-Field AVG - Limit, E-Field AVG = FIM AVG+ Total CF ± Uncertainty
 Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

Note: Worst case was observed at 802.11a mode, 6Mbps.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

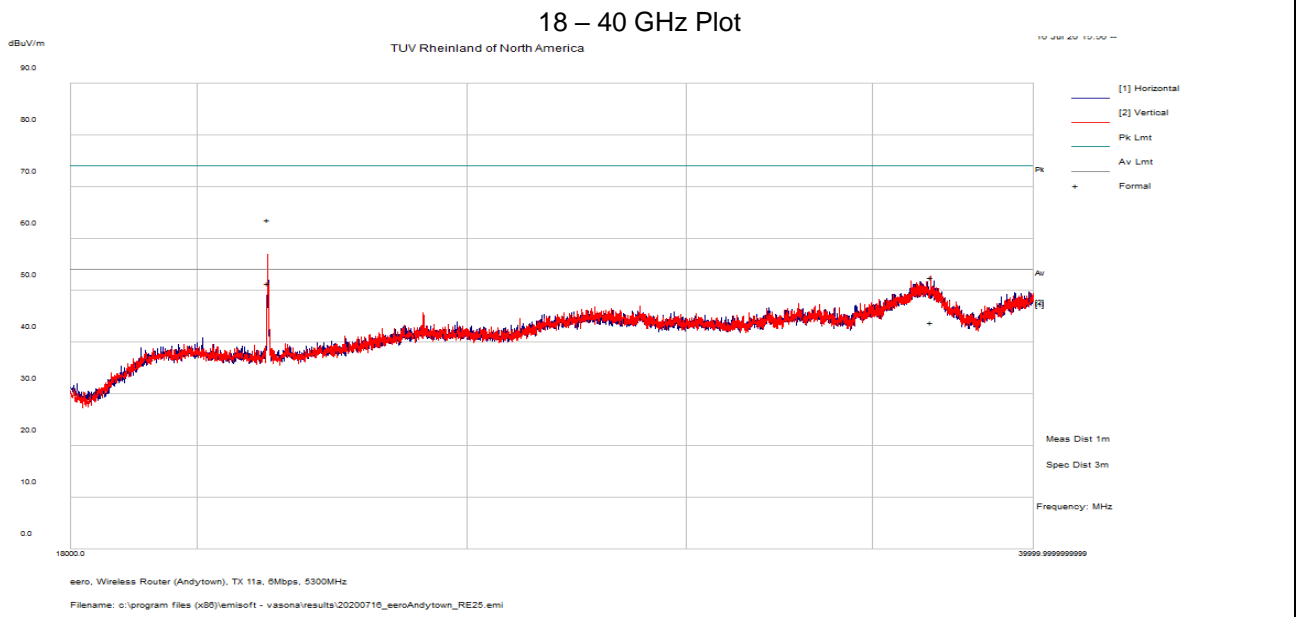
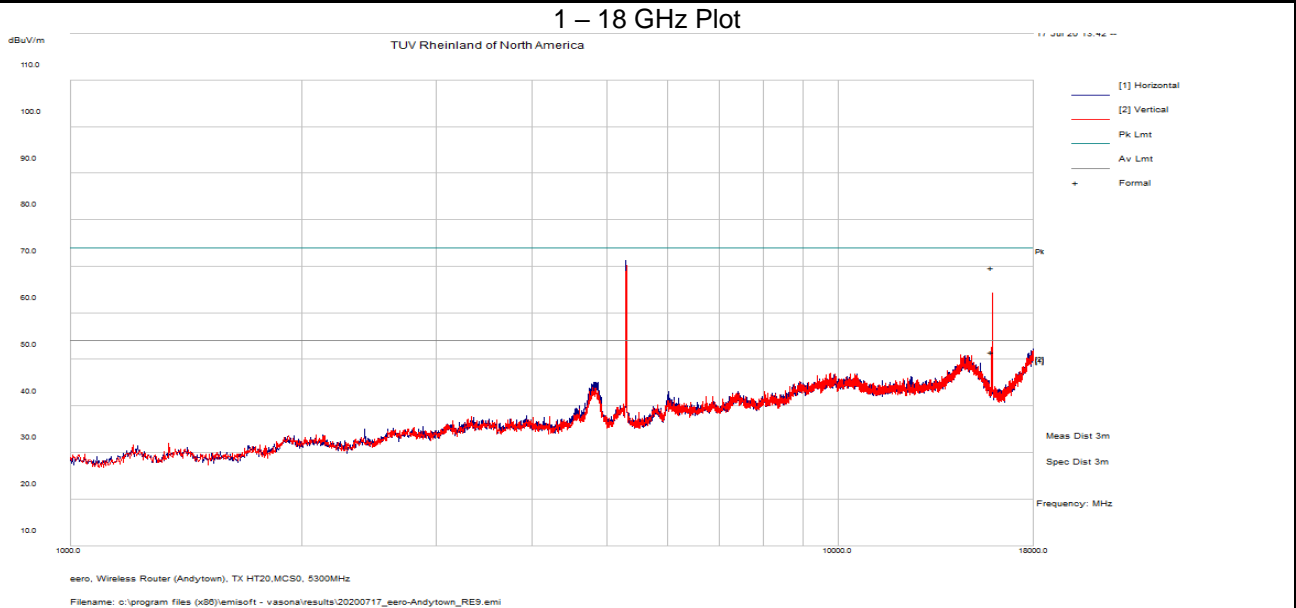


Notes: 1. Transmit at 5260 MHz.
 2. For 1-18 GHz Plot, emission above the Pk & Ave limit is the fundamental.

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

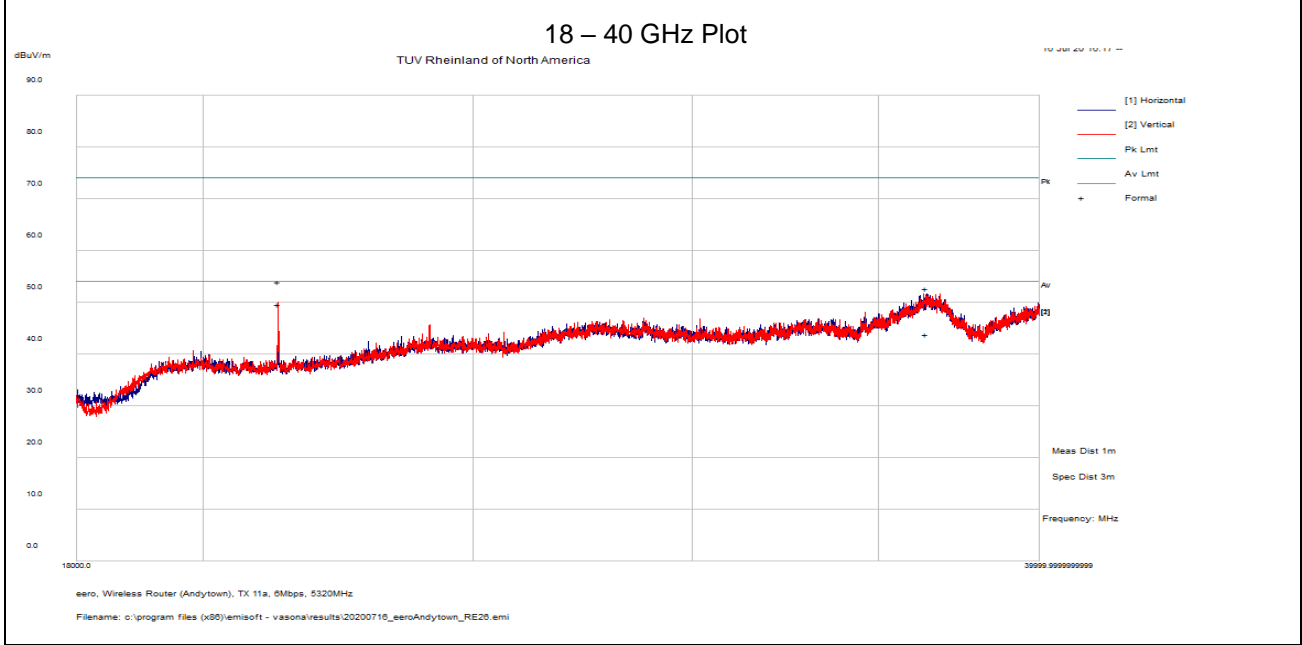
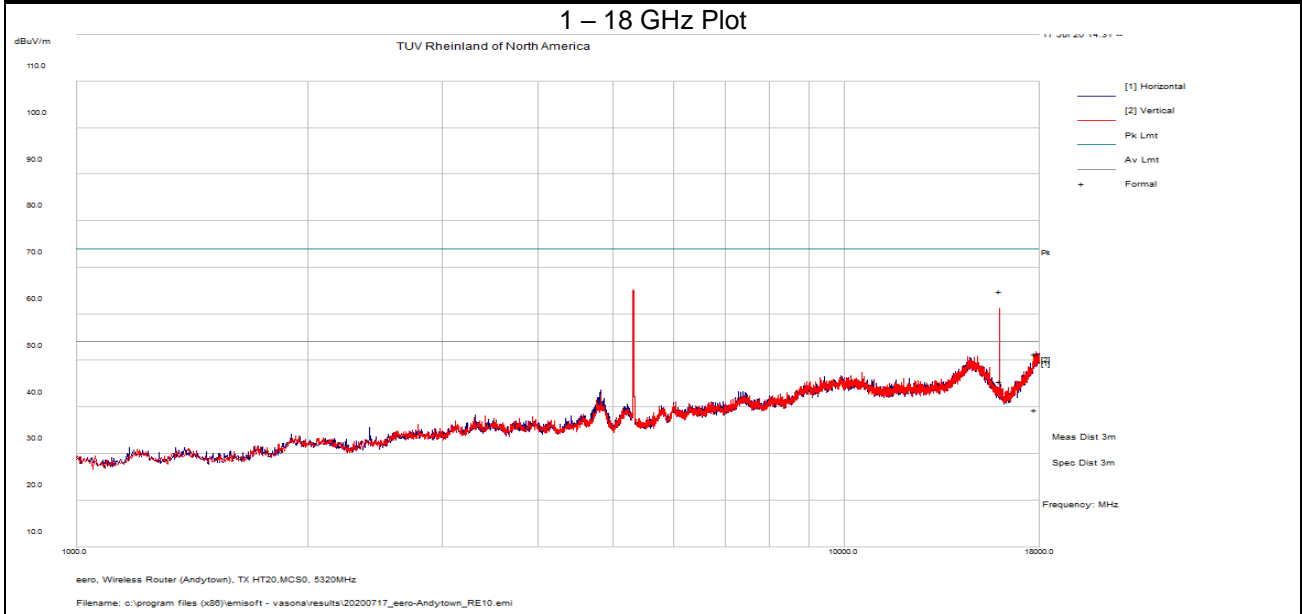


Notes: 1. Transmit at 5300 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz



Notes: 1. Transmit at 5320 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions		Tracking # 32062992.001 Page 7 of 33	
EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Performed by	Kerwinn Corpuz

9 kHz – 1 GHz Transmit at 5580 MHz

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
0.46	36.70	2.25	10.32	49.27	Pk	V	102	220	74.77	-25.50
0.65	33.18	2.27	10.40	45.86	Pk	V	102	79	71.33	-25.47
35.37	32.74	2.51	-10.45	24.80	QP	V	144	146	40.00	-15.20
63.53	52.30	2.70	-20.44	34.56	QP	V	139	252	40.00	-5.44
70.64	52.64	2.75	-19.98	35.41	QP	V	112	124	40.00	-4.59
78.38	49.59	2.78	-20.22	32.15	QP	V	102	306	40.00	-7.85
87.60	46.01	2.82	-20.67	28.16	QP	V	147	22	40.00	-11.84
100.68	47.21	2.88	-17.65	32.44	QP	V	126	222	43.50	-11.06

Spec Margin = E-Field QP - Limit, E-Field QP = FIM QP+ Total CF ± Uncertainty

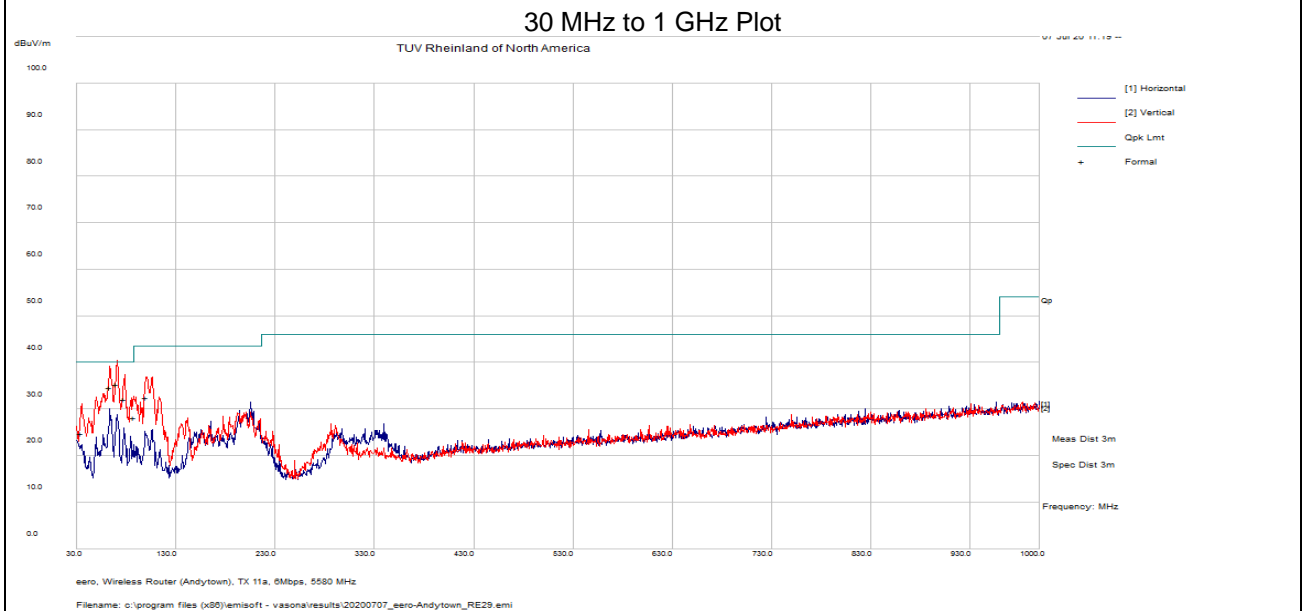
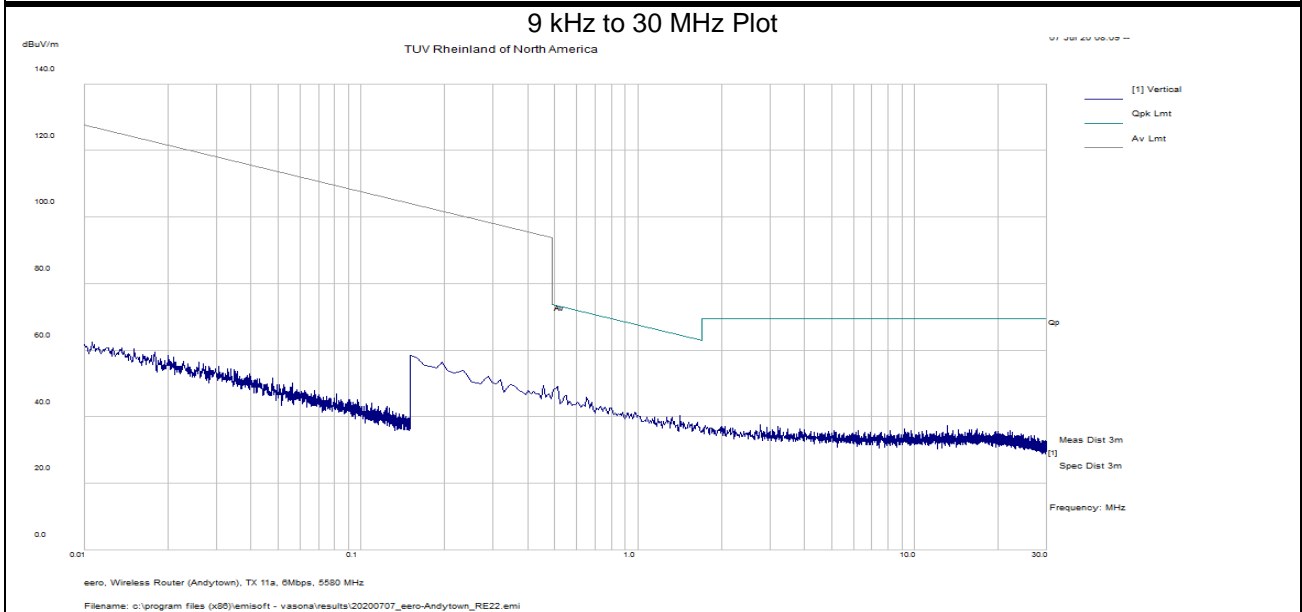
Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

- Note: 1. Modes tested are 802.11a and 802.11n HT20, (low, mid & high channels).
 2. Worst case emission was observed on 802.11a at 6Mbps, 5580 MHz mode for 20MHz channel BW.
 3. No significant emission was observed below 30 MHz. Detected noise floor.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Date	Kerwinn Corpuz



Notes: Transmit at 5580 MHz.

SOP 1 Radiated Emissions				Tracking # 32062992.001 Page 9 of 33			
EUT Name	eero 6 and eero 6 Extender			Date	July 16 - 24, 2020		
EUT Model	N010001			Temp / Hum in	20° C / 35-38%rh		
EUT Serial	NA4V-0034-0FZS-B958			Temp / Hum out	N/A		
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1			Line AC / Freq	110 Vac / 60 Hz		
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN			RBW / VBW	Per ANSI C63.10		
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840			Performed by	Kerwinn Corpuz		

1 – 40 GHz Transmit at 5500 MHz (Low Channel)

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
16509.32	74.83	3.83	-17.58	61.08	Pk	V	227	84	68.23	-7.15
36654.80	46.97	10.27	-4.96	52.27	Pk	H	225	328	74.00	-21.73
36654.80	36.80	10.30	-5.00	42.10	Ave	H	225	328	54.00	-11.90
22000.86	44.10	7.70	-8.80	43.00	Pk	V	153	216	74.00	-31.00
22000.86	34.60	7.70	-8.80	33.50	Ave	V	153	216	54.00	-20.50

1 – 40 GHz Transmit at 5580 MHz (Middle Channel)

16738.81	77.07	3.86	-16.05	64.89	Pk	V	190	84	68.23	-3.34
17860.83	54.49	4.09	-7.80	50.78	Pk	V	247	274	74.00	-23.22
17860.83	43.07	4.09	-7.80	39.36	Ave	V	247	274	54.00	-14.64
36547.38	47.70	10.20	-4.90	53.10	Pk	V	H	127	162	74.00
36547.38	36.10	10.20	-4.90	41.50	Ave	V	H	127	162	54.00
22319.49	52.18	7.70	-8.68	51.20	Pk	V	V	157	310	74.00
22319.49	47.20	7.70	-8.70	46.20	Ave	V	V	157	310	54.00

1 – 40 GHz Transmit at 5720 MHz (High Channel)

17162.65	74.59	3.97	-12.93	65.63	Pk	V	252	90	68.23	-2.60
17921.65	55.52	4.11	-7.99	51.65	Pk	H	205	78	74.00	-22.36
17921.65	43.75	4.11	-7.99	39.87	Ave	H	205	78	54.00	-14.13
22880.07	47.17	7.67	-8.17	46.67	Pk	V	179	268	74.00	-27.33
22880.07	39.00	7.70	-8.20	38.50	Ave	V	179	268	54.00	-15.50
36776.15	47.56	10.30	-5.31	52.55	Pk	V	186	0	74.00	-21.45
36776.15	36.60	10.30	-5.30	41.60	Ave	V	186	0	54.00	-12.40

Spec Margin = E-Field AVG - Limit, E-Field AVG = FIM AVG+ Total CF ± Uncertainty

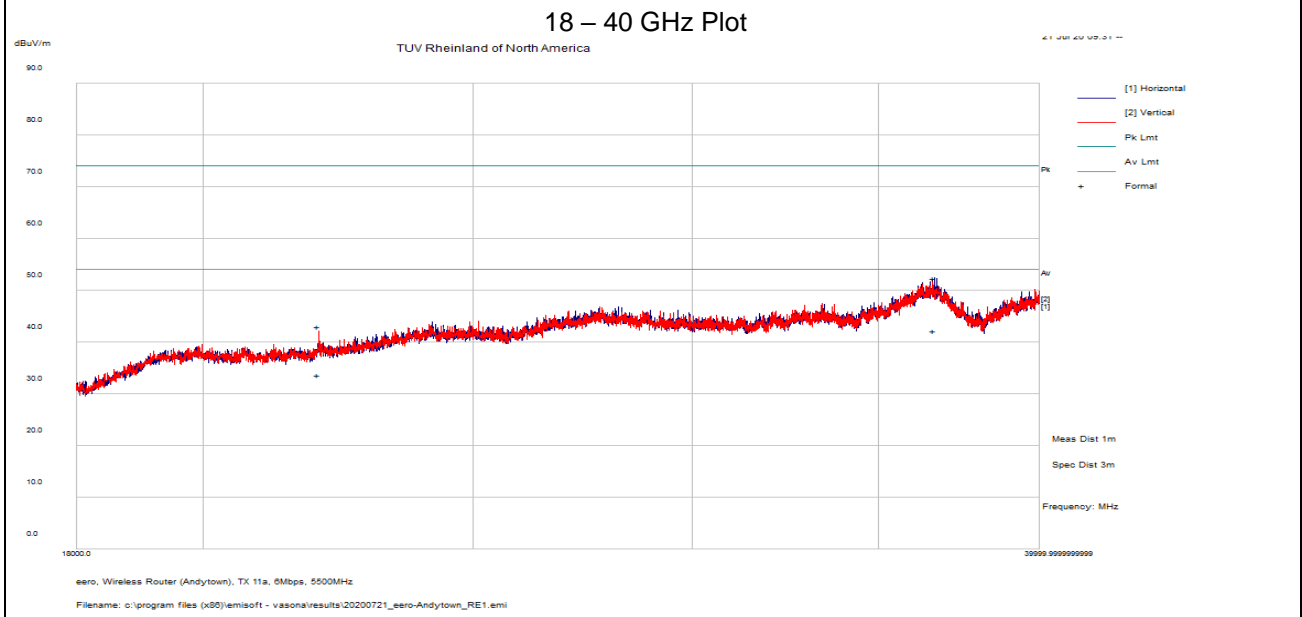
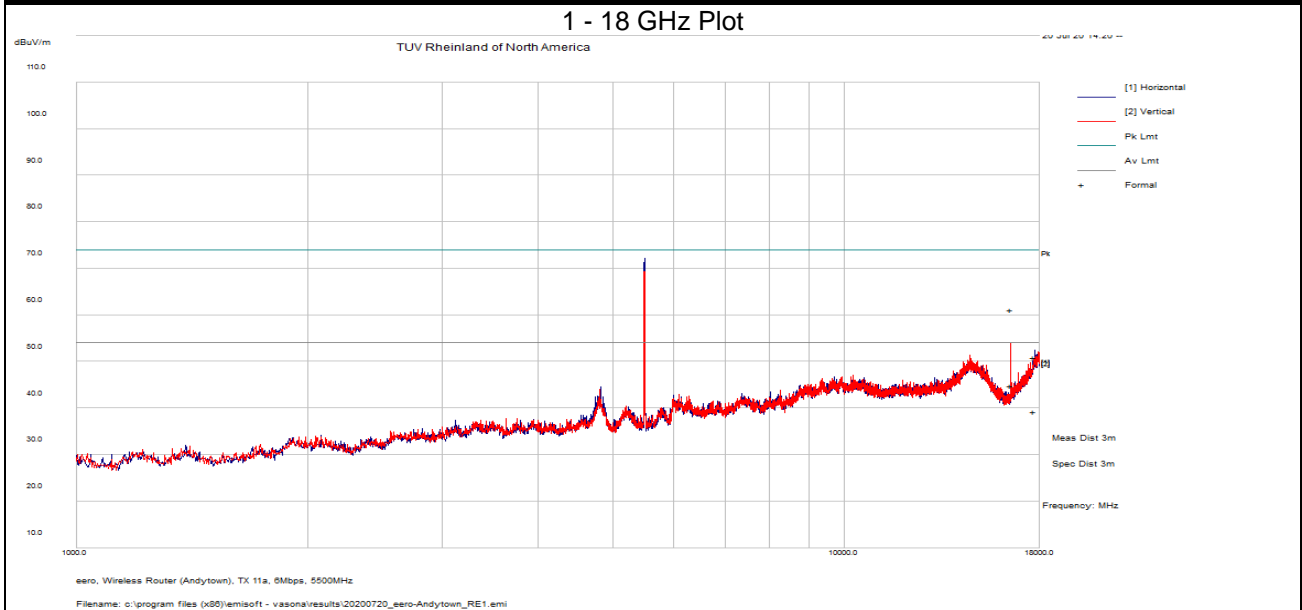
Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

Note: Worst case was observed at 802.11a mode, 6Mbps.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

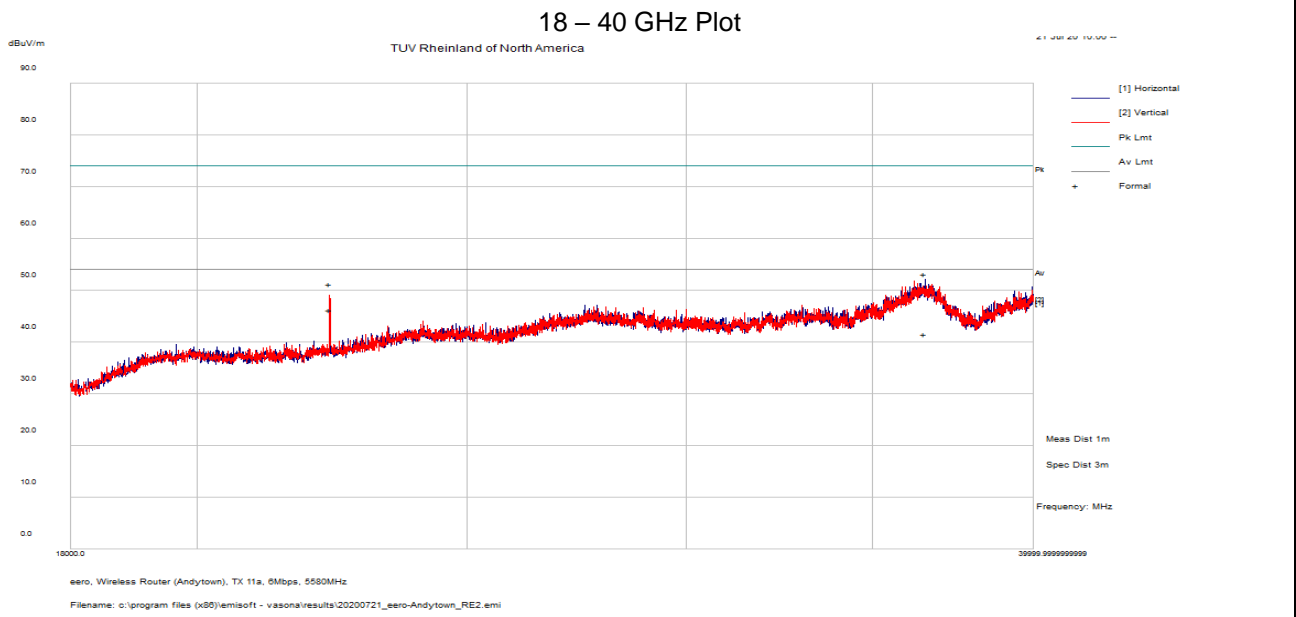
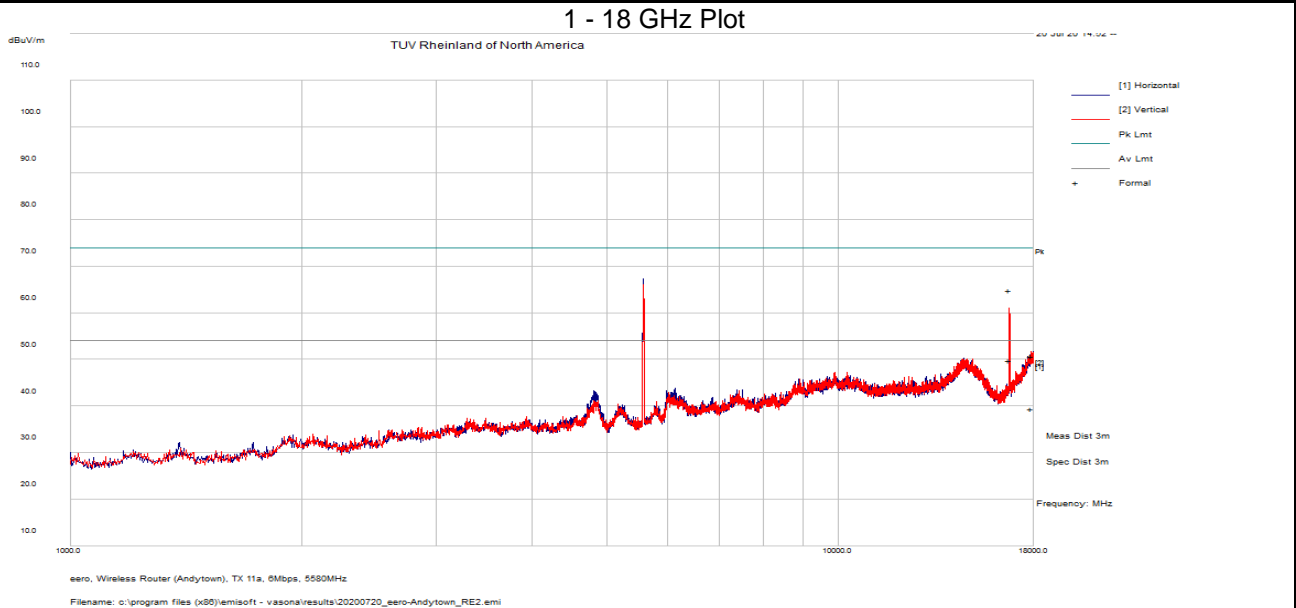


Notes: 1. Transmit at 5500 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

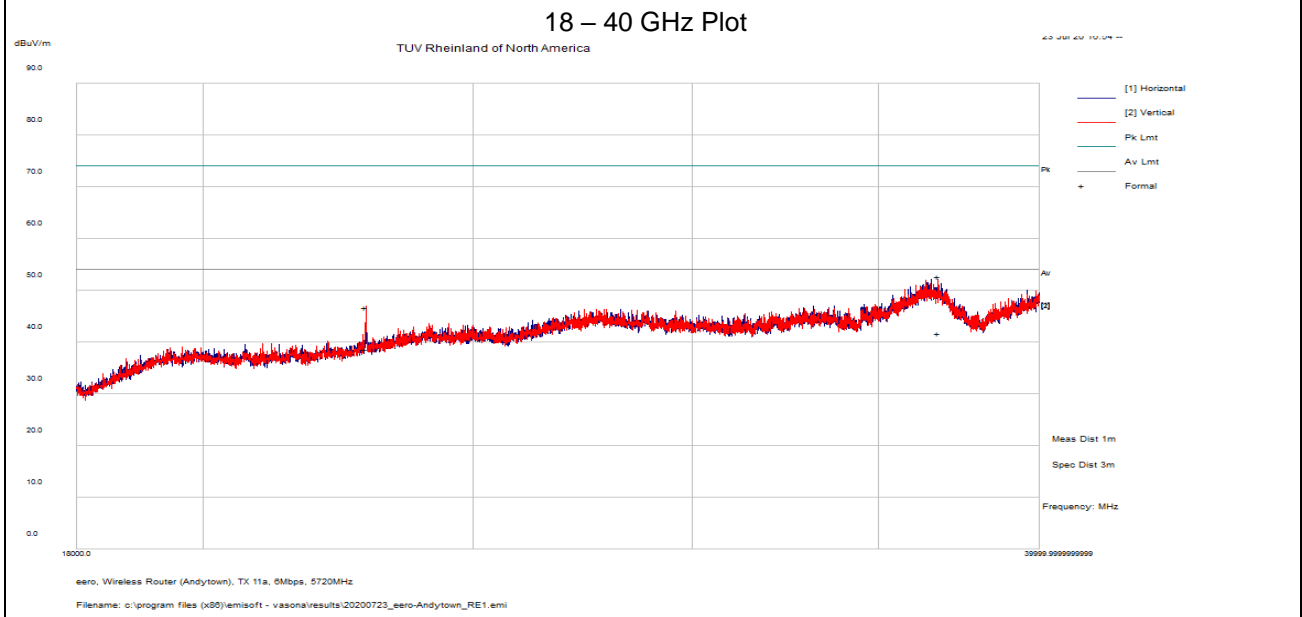
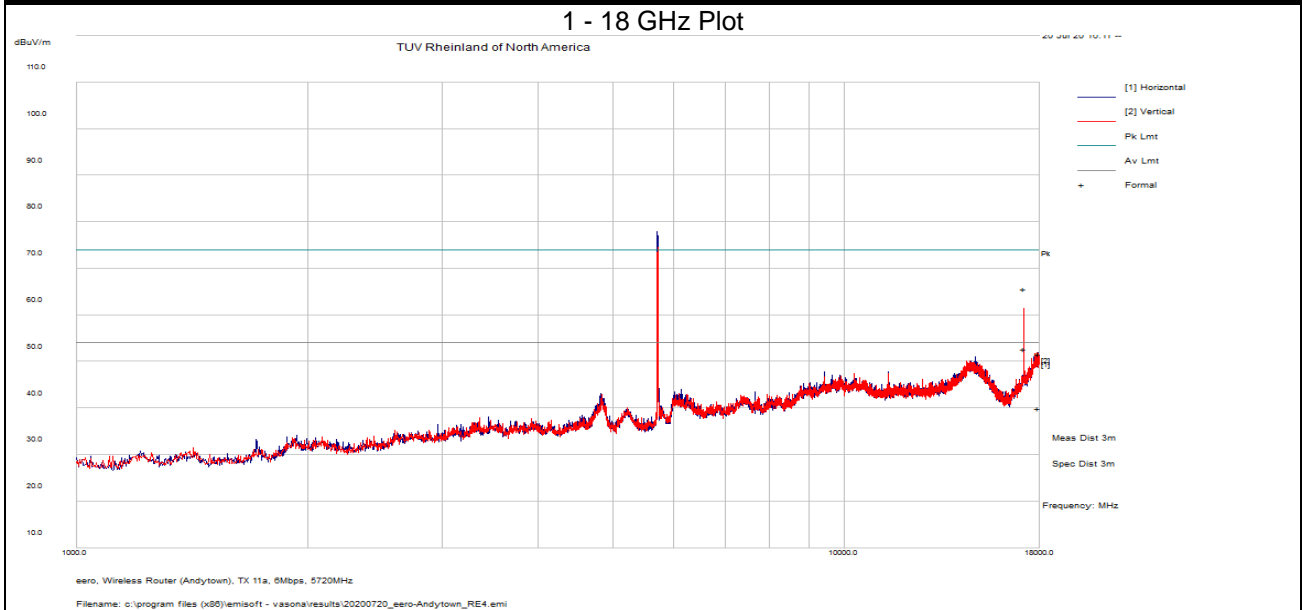


Notes: 1. Transmit at 5580 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11a mode at 6Mbps / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz



Notes: 1. Transmit at 5720 MHz.
 2. For 1-18 GHz Plot, emission above the Pk & Ave limit is the fundamental.

SOP 1 Radiated Emissions		Tracking # 32062992.001 Page 13 of 33	
EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Performed by	Kerwinn Corpuz

9 kHz – 1 GHz Transmit at 5270 MHz

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
0.72	30.26	2.28	10.38	42.92	Pk	V	102	50	70.50	-27.58
1.25	26.89	2.31	10.60	39.80	Pk	V	102	352	65.70	-25.90
35.29	32.56	2.51	-10.38	24.70	QP	V	177	326	40.00	-15.31
64.15	51.53	2.70	-20.37	33.86	QP	V	122	150	40.00	-6.14
70.65	53.92	2.75	-19.98	36.69	QP	V	147	304	40.00	-3.31
77.51	49.11	2.78	-20.13	31.75	QP	V	112	300	40.00	-8.25
100.16	48.39	2.88	-17.81	33.46	QP	V	141	270	43.50	-10.04
113.80	39.80	2.95	-14.86	27.89	QP	V	142	302	43.50	-15.61

Spec Margin = E-Field QP - Limit, E-Field QP = FIM QP+ Total CF ± Uncertainty

Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

Note: 1. Modes tested are 802.11n HT40, (low & high channels).

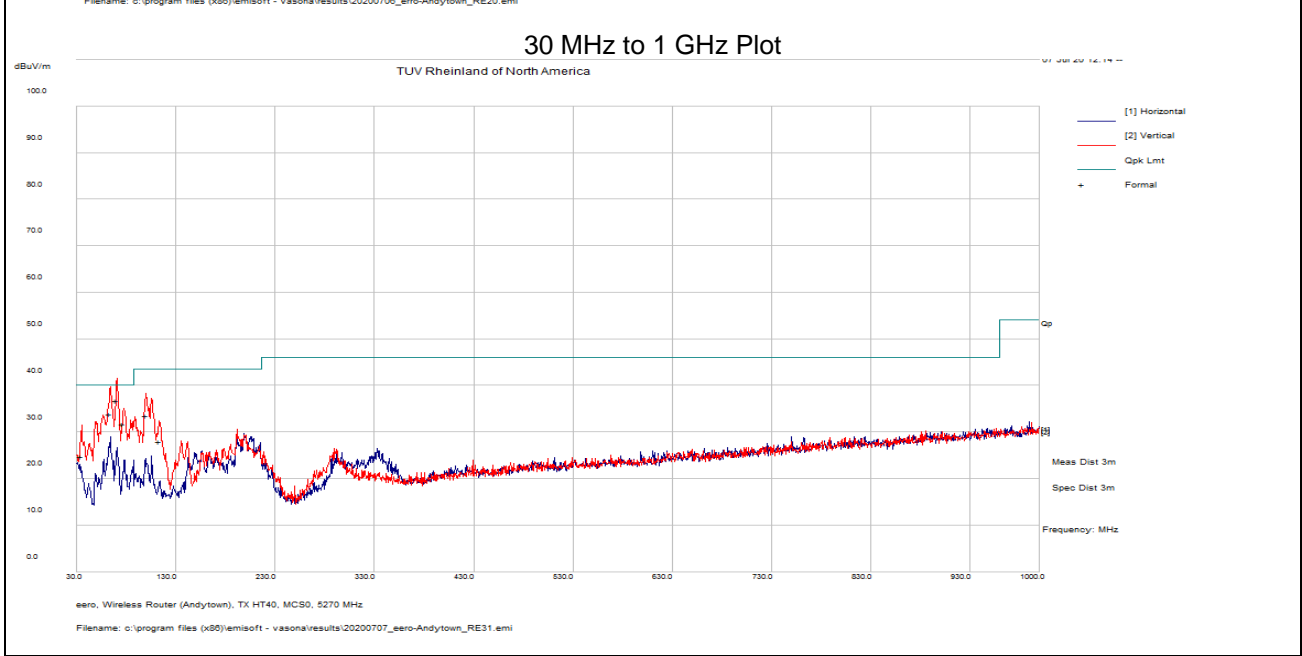
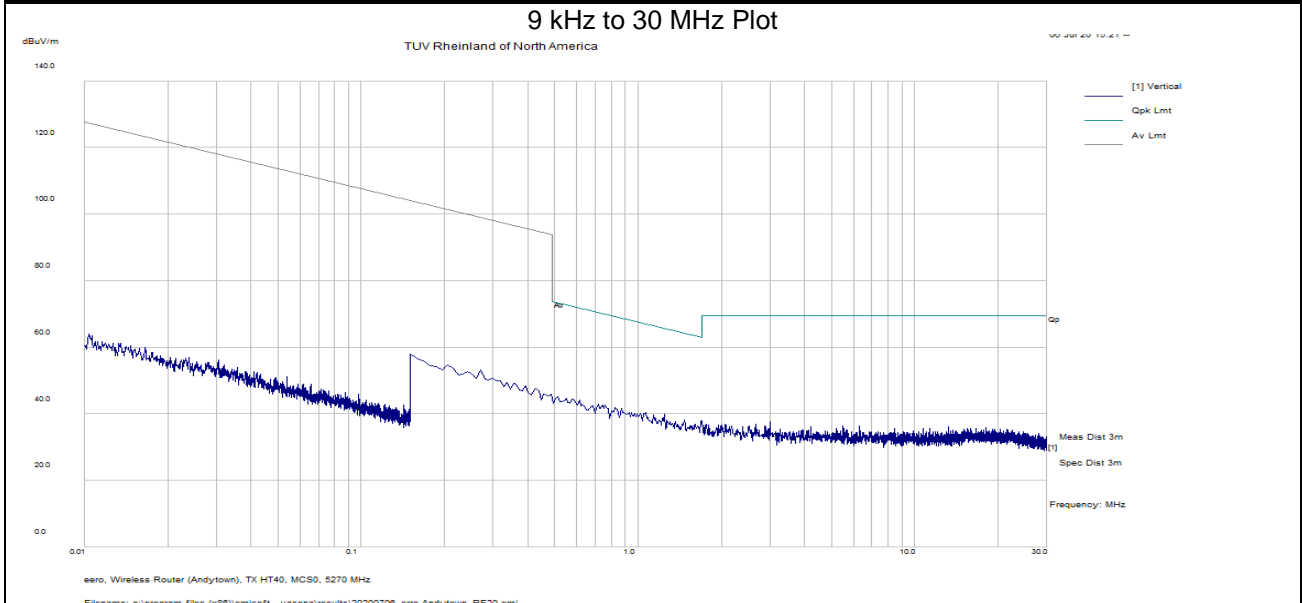
2. Worst case emission was observed on 802.11n HT40 at MCS0, 5270 MHz mode for 40MHz channel BW.

3. No significant emission was observed below 30 MHz. Detected noise floor.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Date	Kerwinn Corpuz



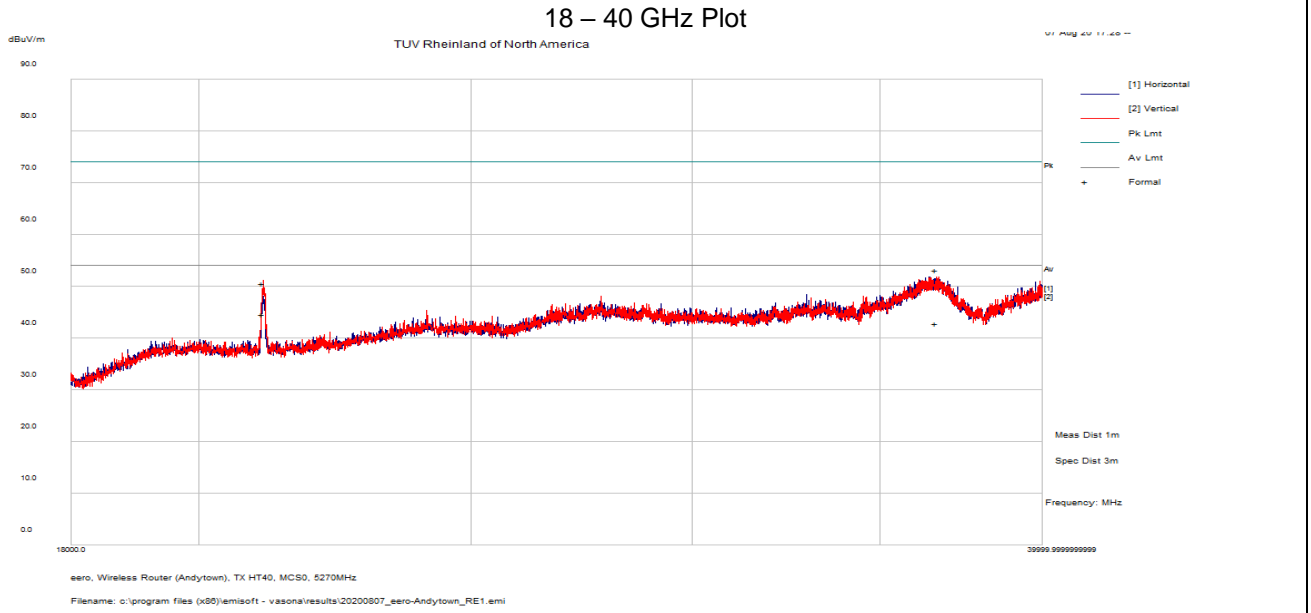
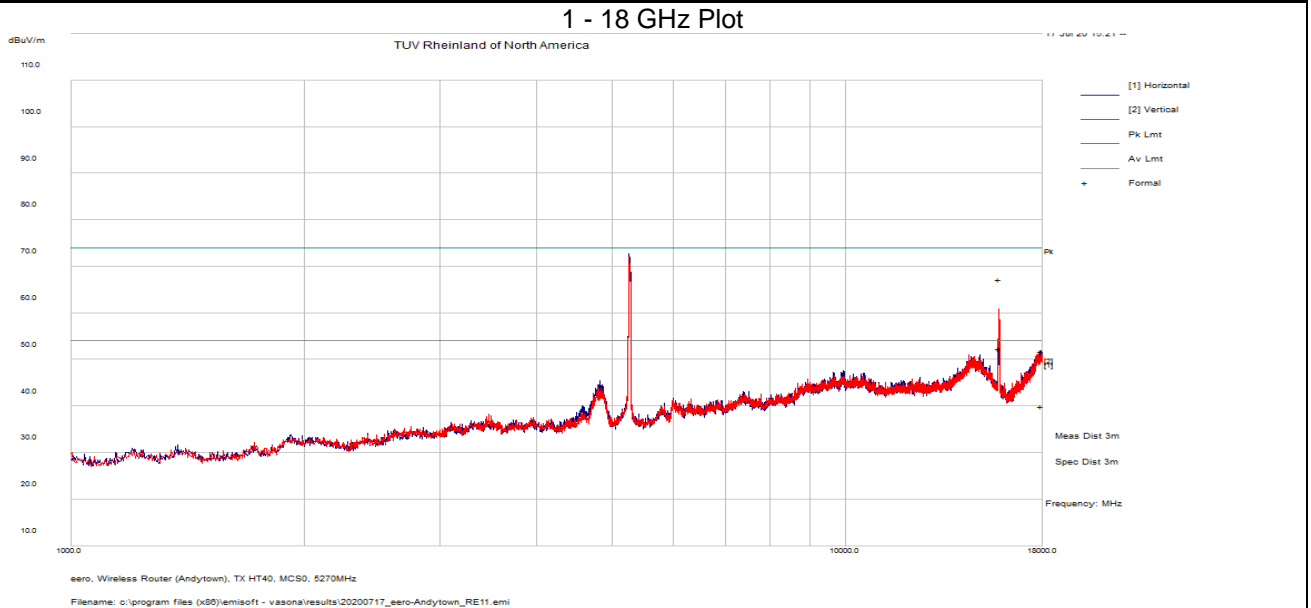
Notes: Transmit at 5270 MHz.

SOP 1 Radiated Emissions						Tracking # 32062992.001 Page 15 of 33					
EUT Name			eero 6 and eero 6 Extender			Date			July 16 - 24, 2020		
EUT Model			N010001			Temp / Hum in			20° C / 35-38%rh		
EUT Serial			NA4V-0034-0FZS-B958			Temp / Hum out			N/A		
EUT Config.			802.11n HT40 mode at MCS0 / chain 0 & 1			Line AC / Freq			110 Vac / 60 Hz		
Standard			CFR47 Part 15 Subpart E, RSS-247, RSS-GEN			RBW / VBW			Per ANSI C63.10		
Dist/Ant Used			3m / EMCO-3115, 1m / COM-POWER AHA-840			Performed by			Kerwinn Corpuz		
1 – 40 GHz Transmit at 5270 MHz (Low Channel)											
Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin	
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB	
17933.25	55.67	4.10	-7.99	51.78	Pk	H	196	330	74.00	-22.22	
17933.25	43.77	4.10	-7.99	39.88	Ave	H	196	330	54.00	-14.12	
15821.29	80.52	3.82	-17.12	67.21	Pk	V	232	296	74.00	-6.79	
15821.29	65.71	3.82	-17.12	52.41	Ave	V	232	296	54.00	-1.59	
21070.06	52.28	7.60	-9.35	50.53	Pk	V	154	80	74.00	-23.47	
21070.06	46.20	7.60	-9.30	44.50	Ave	V	154	80	54.00	-9.50	
36649.23	47.79	10.26	-4.95	53.10	Pk	V	215	0	74.00	-20.90	
36649.23	37.40	10.30	-5.00	42.70	Ave	V	215	0	54.00	-11.30	
1 – 40 GHz Transmit at 5310 MHz (High Channel)											
15940.72	69.51	3.77	-17.67	55.61	Pk	V	241	302	74.00	-18.39	
15940.72	55.03	3.77	-17.67	41.13	Ave	V	241	302	54.00	-12.87	
17990.42	54.97	4.11	-7.73	51.35	Pk	V	131	292	74.00	-22.65	
17990.42	43.29	4.11	-7.73	39.67	Ave	V	131	292	54.00	-14.33	
21240.04	52.87	7.60	-9.20	51.27	Pk	V	163	80	74.00	-22.73	
21240.04	49.30	7.60	-9.20	47.70	Ave	V	163	80	54.00	-6.30	
36428.15	47.77	10.23	-4.87	53.13	Pk	V	170	82	74.00	-20.88	
36428.15	37.60	10.20	-4.90	43.00	Ave	V	170	82	54.00	-11.00	
Spec Margin = E-Field AVG - Limit, E-Field AVG = FIM AVG+ Total CF ± Uncertainty											
Total CF= AF+ Cable Loss AF= Antenna factor + Preamp											
Note: None											

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

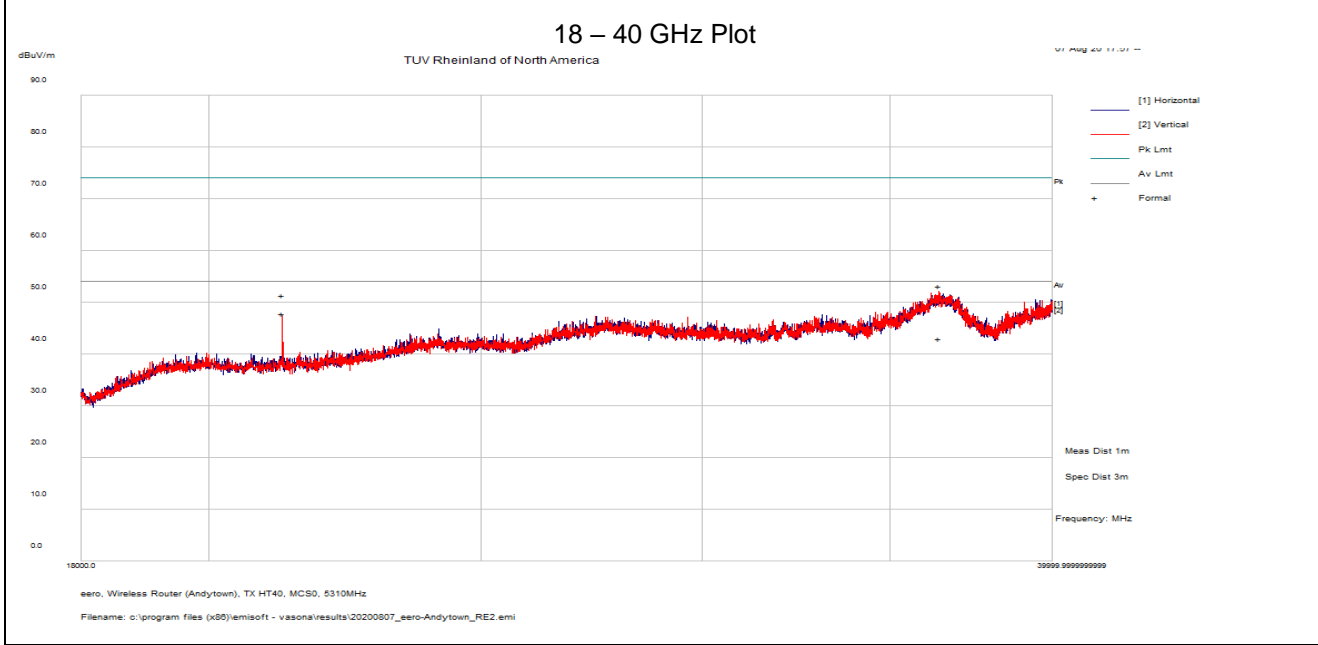
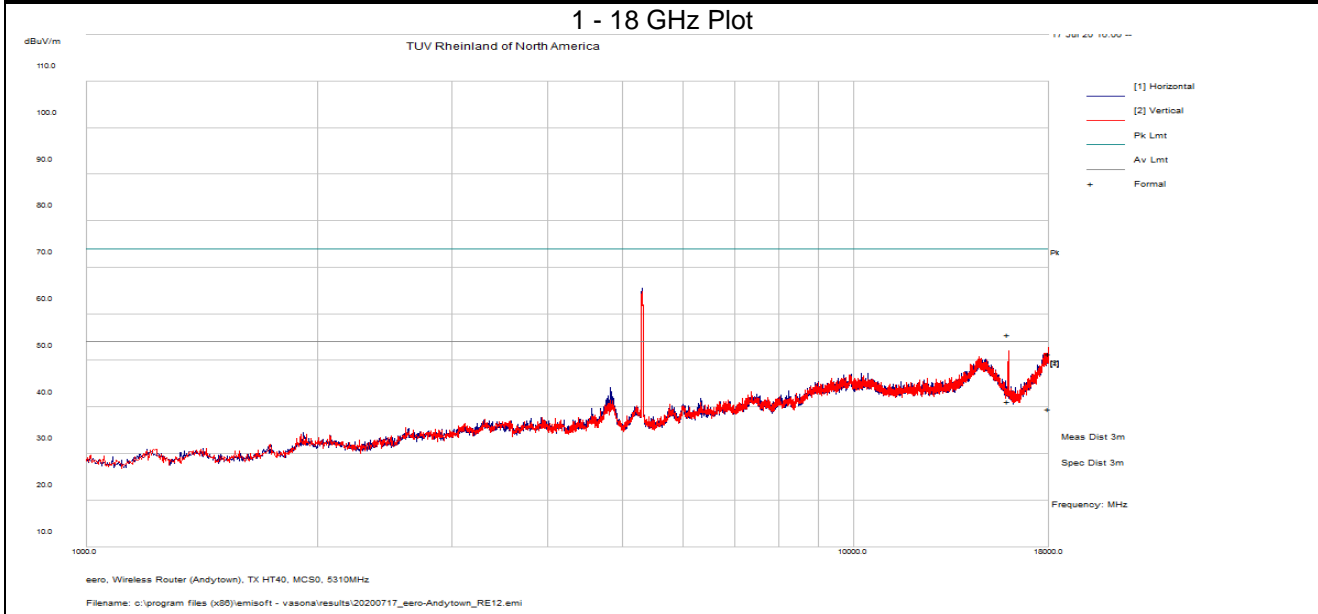


Notes: 1. Transmit at 5270 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz



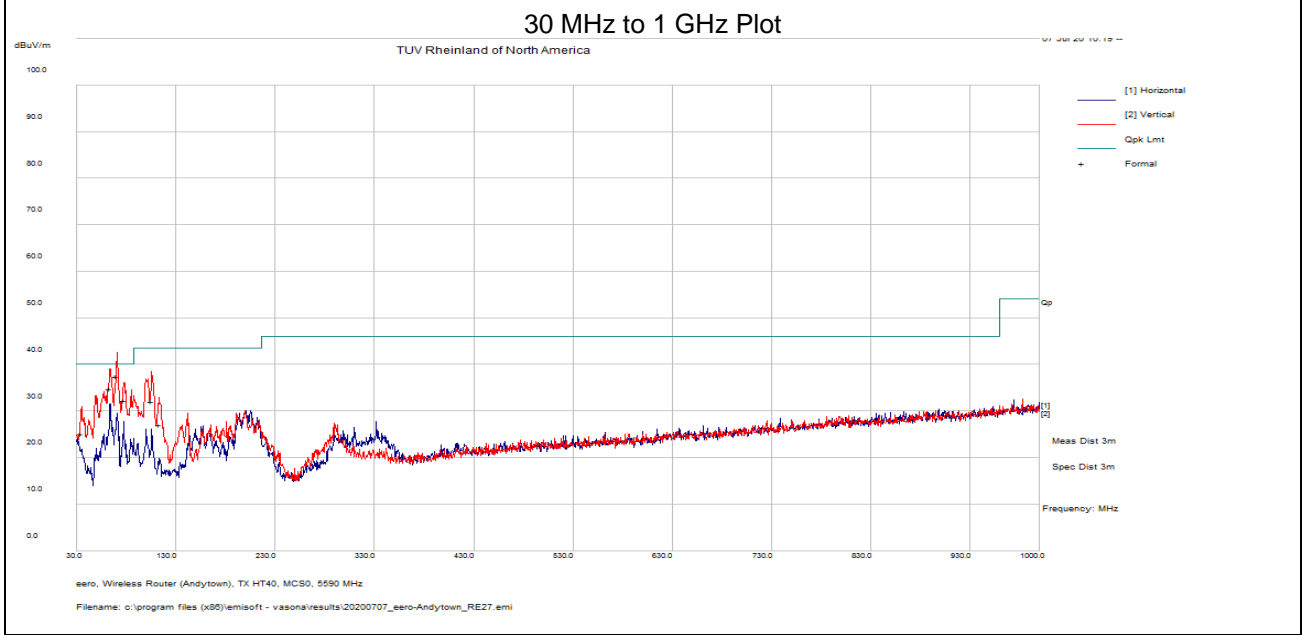
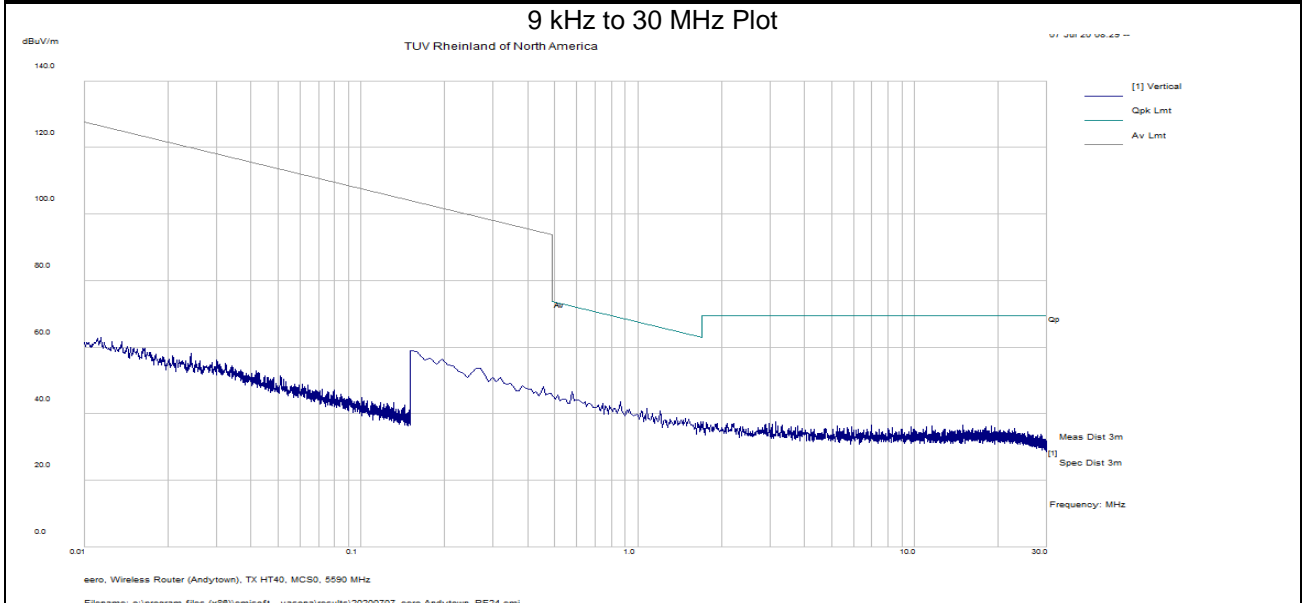
Notes: 1. Transmit at 5310 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions						Tracking # 32062992.001 Page 18 of 33					
EUT Name	eero 6 and eero 6 Extender					Date	July 7, 2020				
EUT Model	N010001					Temp / Hum in	20° C / 35%rh				
EUT Serial	NA4V-0034-0FZS-B958					Temp / Hum out	N/A				
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1					Line AC / Freq	110 Vac / 60 Hz				
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN					RBW / VBW	Per ANSI C63.10				
Dist/Ant Used	3m / JB3 & 6505					Performed by	Kerwinn Corpuz				
9 kHz – 1 GHz Transmit at 5590 MHz											
Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin	
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB	
0.86	30.91	2.29	10.37	43.57	Pk	V	102	258	68.87	-25.30	
1.08	28.60	2.30	10.60	41.50	Pk	V	102	319	66.95	-25.45	
35.37	33.12	2.51	-10.45	25.18	QP	V	126	116	40.00	-14.82	
64.01	52.53	2.70	-20.39	34.84	QP	V	106	232	40.00	-5.16	
70.70	54.75	2.75	-19.98	37.53	QP	V	106	280	40.00	-2.47	
78.10	49.61	2.78	-20.19	32.20	QP	V	149	324	40.00	-7.80	
105.88	45.48	2.90	-16.27	32.11	QP	V	116	212	43.50	-11.39	
113.15	39.14	2.93	-14.93	27.15	QP	V	129	334	43.50	-16.35	
Spec Margin = E-Field QP - Limit, E-Field QP = FIM QP+ Total CF ± Uncertainty											
Total CF= AF+ Cable Loss AF= Antenna factor + Preamp											
Note: 1. Modes tested are 802.11n HT40, (low,mid & high channels).											
2. Worst case emission was observed on 802.11n HT40 at MCS0, 5590 MHz mode for 40MHz channel BW.											
3. No significant emission was observed below 30 MHz. Detected noise floor.											

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EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Date	Kerwinn Corpuz



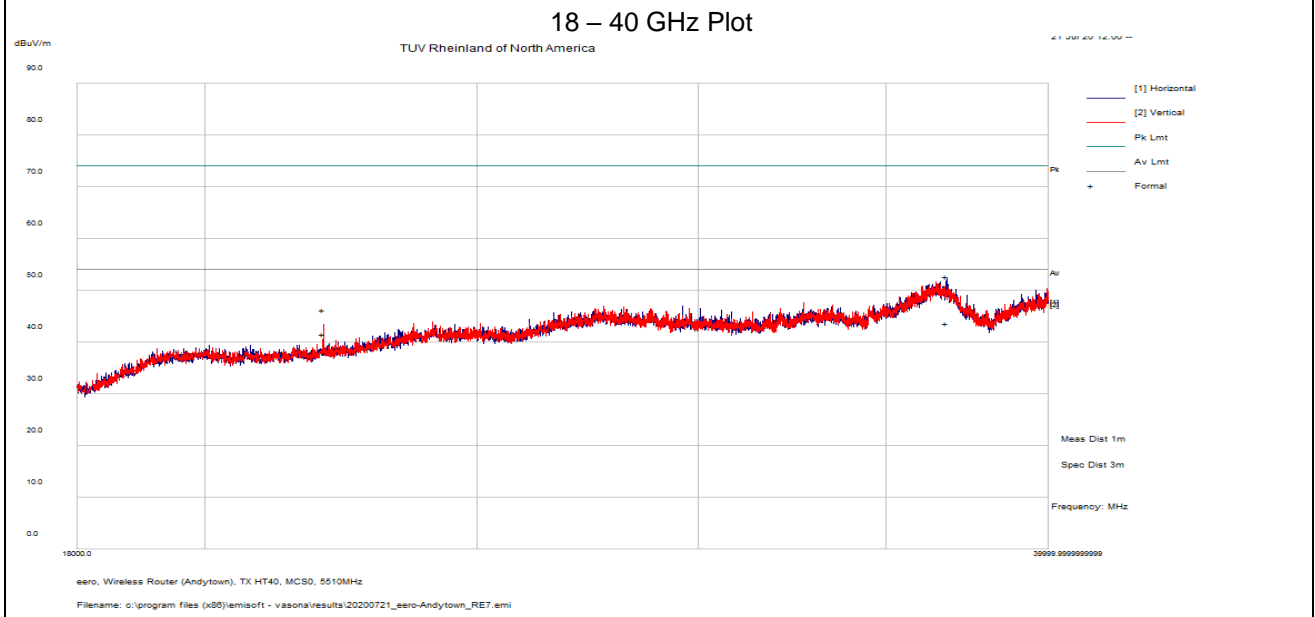
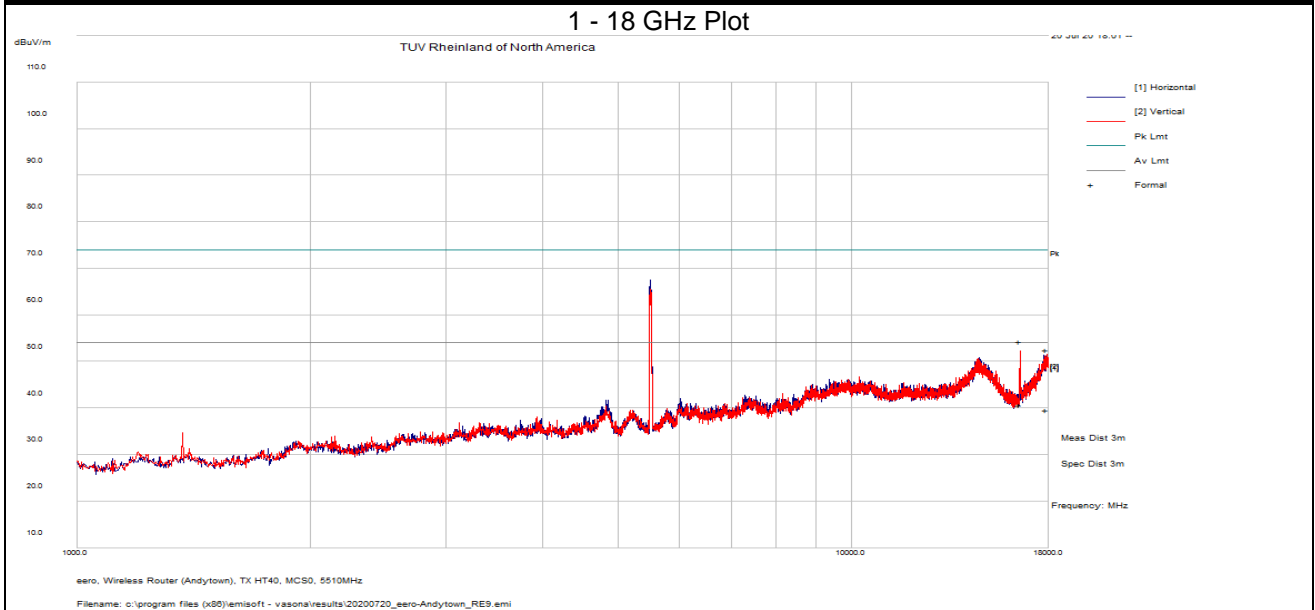
Notes: Transmit at 5590 MHz.

SOP 1 Radiated Emissions						Tracking # 32062992.001 Page 20 of 33				
EUT Name			eero 6 and eero 6 Extender			Date		July 16 - 24, 2020		
EUT Model			N010001			Temp / Hum in		20° C / 35-38%rh		
EUT Serial			NA4V-0034-0FZS-B958			Temp / Hum out		N/A		
EUT Config.			802.11n HT40 mode at MCS0 / chain 0 & 1			Line AC / Freq		110 Vac / 60 Hz		
Standard			CFR47 Part 15 Subpart E, RSS-247, RSS-GEN			RBW / VBW		Per ANSI C63.10		
Dist/Ant Used			3m / EMCO-3115, 1m / COM-POWER AHA-840			Performed by		Kerwinn Corpuz		
1 – 40 GHz Transmit at 5510 MHz (Low Channel)										
Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
16538.07	67.88	3.83	-17.47	54.24	Pk	V	226	78	68.23	-13.99
17903.86	56.21	4.12	-7.90	52.43	Pk	V	130	254	74.00	-21.57
17903.86	43.46	4.12	-7.90	39.67	Ave	V	130	254	54.00	-14.33
36783.75	47.72	10.30	-5.33	52.68	Pk	H	123	222	74.00	-21.32
36783.75	38.50	10.30	-5.30	43.50	Ave	H	123	222	54.00	-10.50
22039.92	47.39	7.66	-8.82	46.23	Pk	V	171	260	74.00	-27.77
22039.92	42.60	7.70	-8.80	41.40	Ave	V	171	260	54.00	-12.60
1 – 40 GHz Transmit at 5590 MHz (Mid Channel)										
16762.80	75.37	3.85	-15.86	63.37	Pk	V	267	87	68.23	-4.86
17887.15	55.40	4.11	-7.78	51.73	Pk	H	192	289	74.00	-22.27
17887.15	43.17	4.11	-7.78	39.50	Ave	H	192	289	54.00	-14.50
22360.17	52.69	7.71	-8.63	51.76	Pk	V	156	312	74.00	-22.24
22360.17	47.50	7.70	-8.60	46.60	Ave	V	156	312	54.00	-7.40
36267.41	46.58	10.24	-5.20	51.62	Pk	V	117	86	74.00	-22.38
36267.41	36.90	10.20	-5.20	41.90	Ave	V	117	86	54.00	-12.10
1 – 40 GHz Transmit at 5710 MHz (High Channel)										
17138.66	72.79	3.94	-13.04	63.68	Pk	V	193	88	68.23	-4.55
17933.06	55.52	4.10	-8.00	51.62	Pk	H	120	182	74.00	-22.38
17933.06	43.60	4.10	-8.00	39.70	Ave	H	120	182	54.00	-14.30
22839.73	49.10	7.67	-8.13	48.64	Pk	V	162	100	74.00	-25.36
22839.73	43.80	7.70	-8.10	43.30	Ave	V	162	100	54.00	-10.70
36538.07	46.86	10.23	-4.88	52.21	Pk	V	153	66	74.00	-21.79
36538.07	36.40	10.20	-4.90	41.80	Ave	V	153	66	54.00	-12.20
Spec Margin = E-Field AVG - Limit, E-Field AVG = FIM AVG+ Total CF ± Uncertainty										
Total CF= AF+ Cable Loss AF= Antenna factor + Preamp										
Note: None										

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

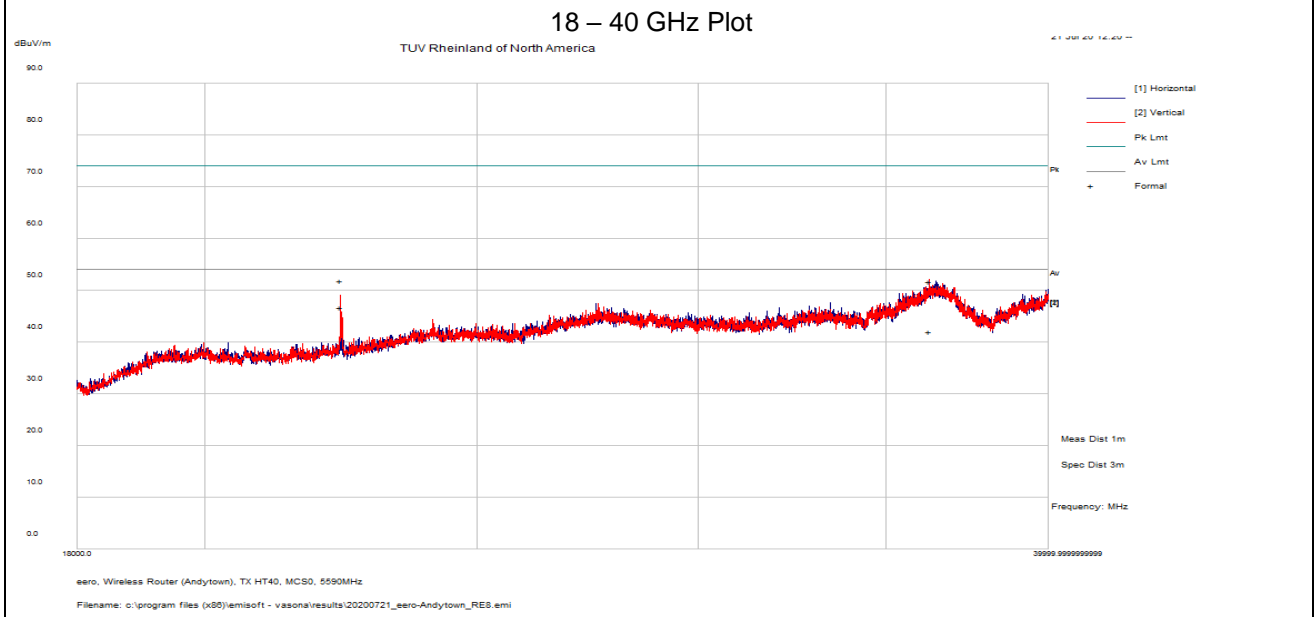
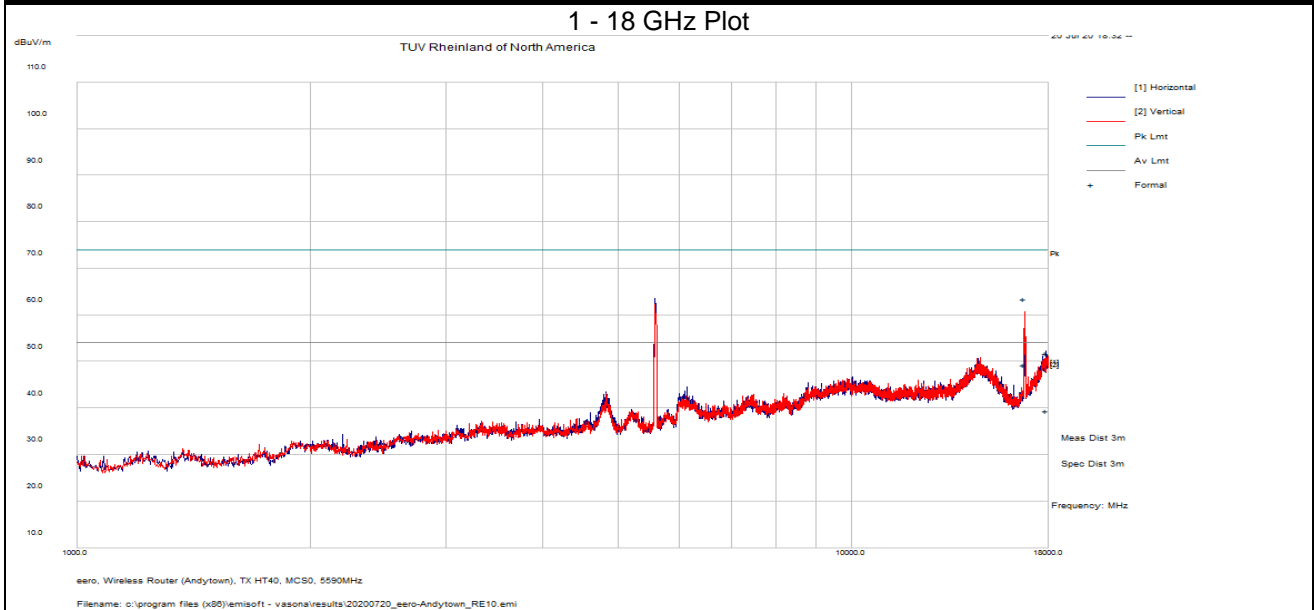


Notes: 1. Transmit at 5510 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

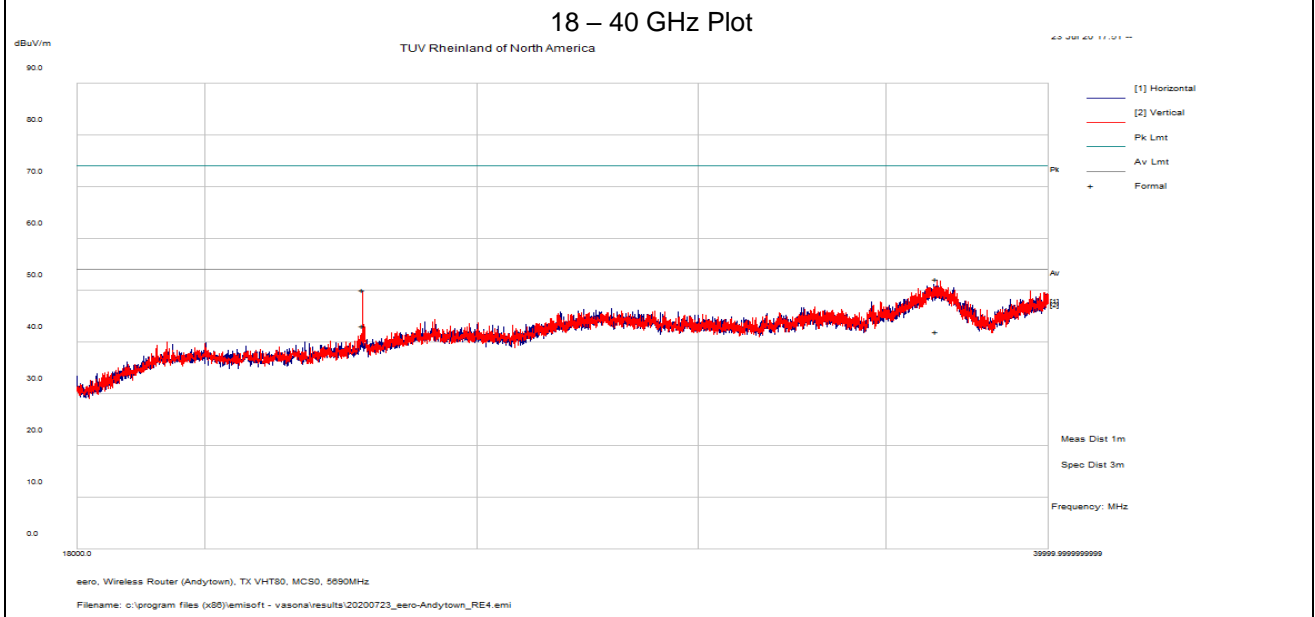
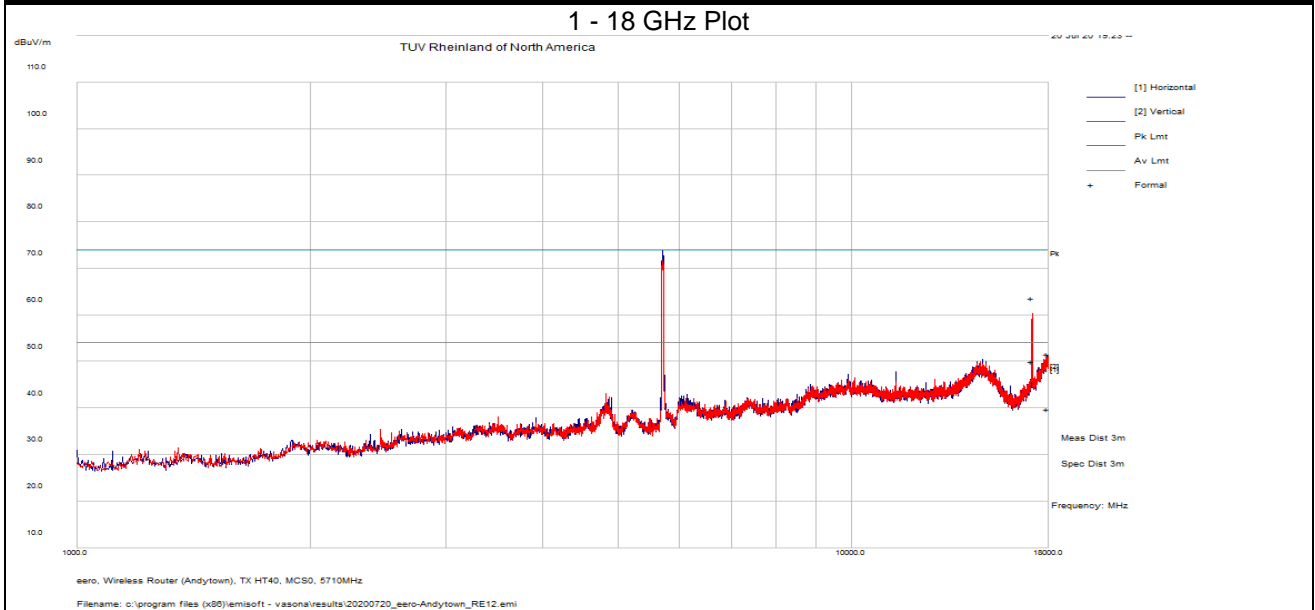


Notes: 1. Transmit at 5590 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11n HT40 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz



Notes: 1. Transmit at 5710 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions		Tracking # 32062992.001 Page 24 of 33	
EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Performed by	Kerwinn Corpuz

9 kHz – 1 GHz Transmit at 5290 MHz

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
0.77	30.26	2.28	10.33	42.87	Pk	V	102	258	69.85	-26.99
1.51	27.22	2.32	10.60	40.14	Pk	V	102	229	64.05	-23.91
35.41	34.39	2.51	-10.49	26.42	QP	V	117	304	40.00	-13.58
63.48	52.77	2.70	-20.44	35.03	QP	V	145	0	40.00	-4.97
71.28	53.48	2.76	-19.98	36.26	QP	V	102	360	40.00	-3.74
77.84	48.84	2.78	-20.16	31.46	QP	V	115	238	40.00	-8.54
105.98	46.39	2.90	-16.25	33.03	QP	V	105	280	43.50	-10.47
113.71	40.07	2.94	-14.87	28.15	QP	V	123	236	43.50	-15.36

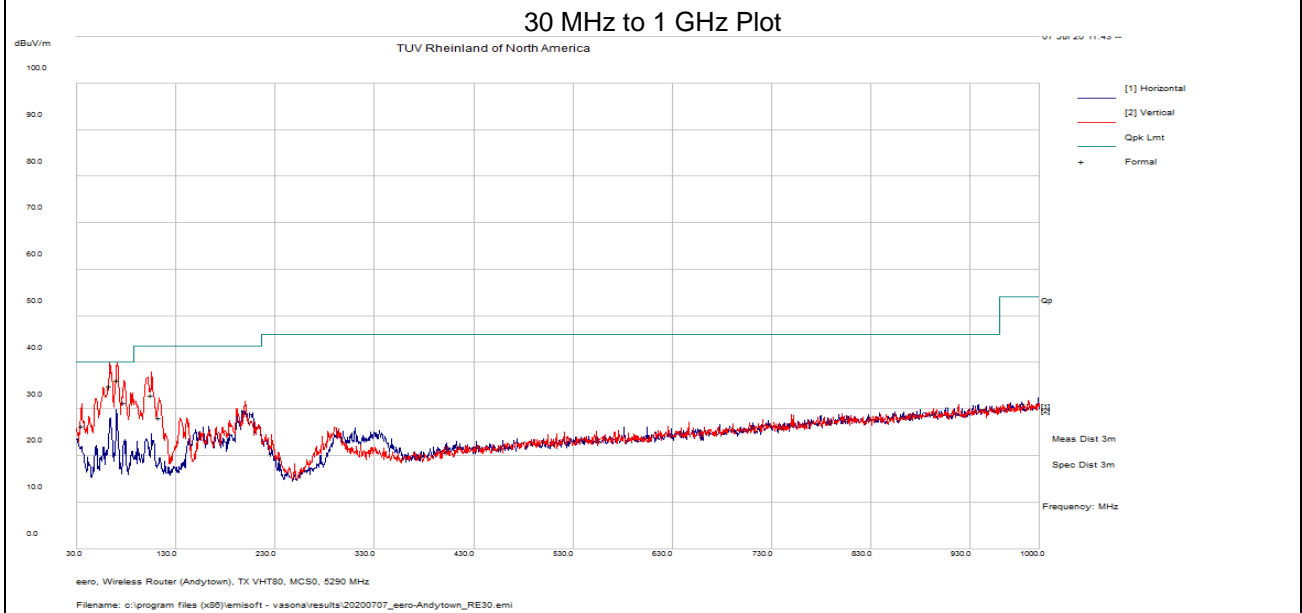
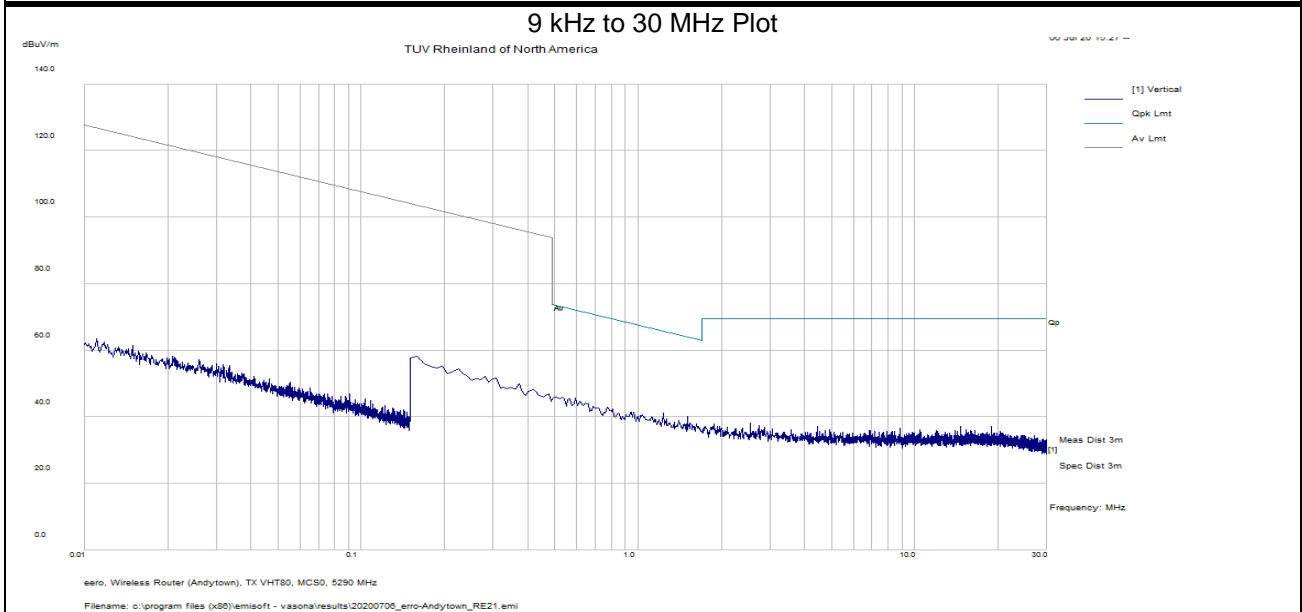
Spec Margin = E-Field QP - Limit, E-Field QP = FIM QP+ Total CF ± Uncertainty
 Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

Note: No significant emission was observed below 30 MHz. Detected noise floor.

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EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Date	Kerwinn Corpuz



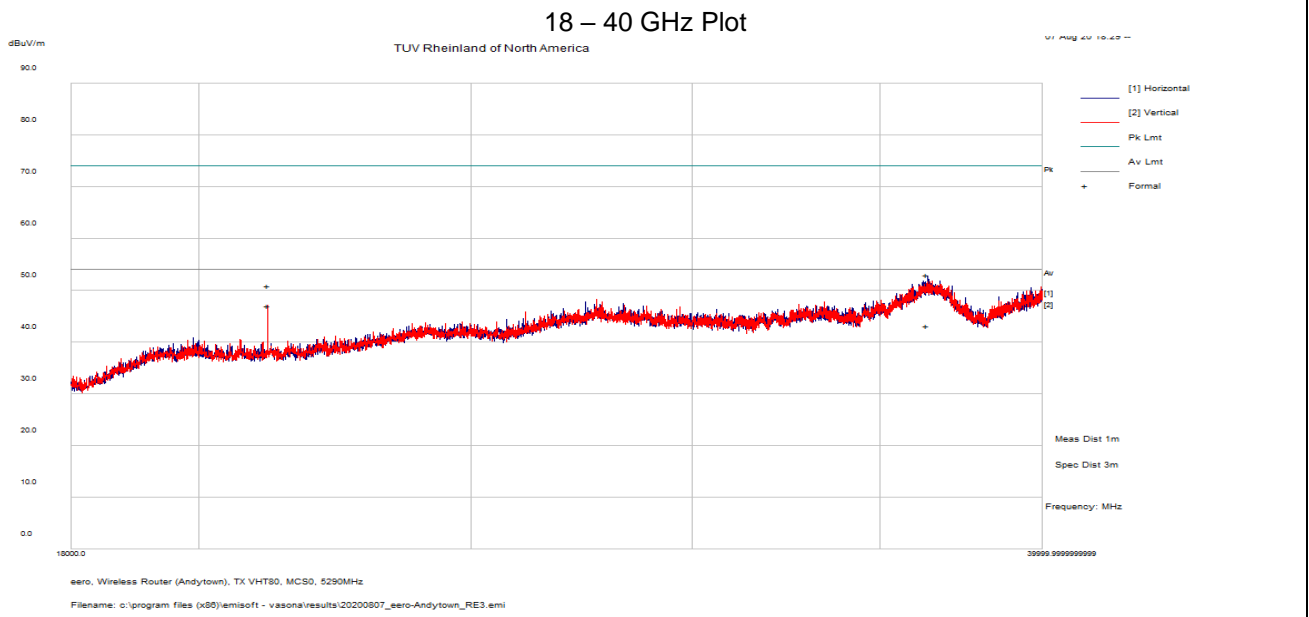
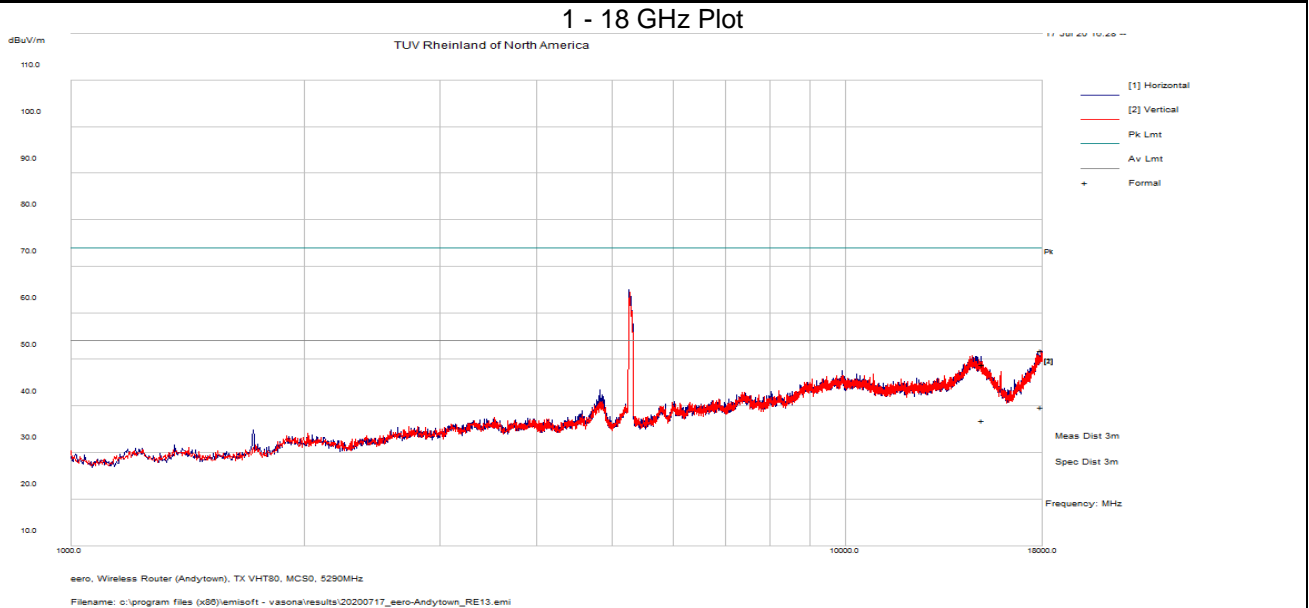
Notes: Transmit at 5290 MHz.

SOP 1 Radiated Emissions						Tracking # 32062992.001 Page 26 of 33				
EUT Name			eero 6 and eero 6 Extender			Date		July 16 - 24, 2020		
EUT Model			N010001			Temp / Hum in		20° C / 35-38%rh		
EUT Serial			NA4V-0034-0FZS-B958			Temp / Hum out		N/A		
EUT Config.			802.11ac VHT80 mode at MCS0 / chain 0 & 1			Line AC / Freq		110 Vac / 60 Hz		
Standard			CFR47 Part 15 Subpart E, RSS-247, RSS-GEN			RBW / VBW		Per ANSI C63.10		
Dist/Ant Used			3m / EMCO-3115, 1m / COM-POWER AHA-840			Performed by		Kerwinn Corpuz		
1 – 40 GHz Transmit at 5290 MHz										
Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
15056.21	58.82	3.62	-13.61	48.83	Pk	V	218	124	74.00	-25.17
15056.21	46.97	3.62	-13.61	36.98	Ave	V	218	124	54.00	-17.02
17928.85	55.80	4.10	-8.02	51.88	Pk	V	218	150	74.00	-22.12
17928.85	43.76	4.10	-8.02	39.84	Ave	V	218	150	54.00	-14.16
36377.37	47.61	10.23	-4.93	52.91	Pk	H	215	358	74.00	-21.09
36377.37	37.80	10.20	-4.90	43.10	Ave	H	215	358	54.00	-10.90
21160.51	52.40	7.60	-9.20	50.80	Pk	V	164	78	74.00	-23.20
21160.51	48.50	7.60	-9.20	46.90	Ave	V	164	78	54.00	-7.10
Spec Margin = E-Field AVG - Limit, E-Field AVG = FIM AVG+ Total CF ± Uncertainty										
Total CF= AF+ Cable Loss AF= Antenna factor + Preamp										
Note: None										

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz



Notes: 1. Transmit at 5290 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions		Tracking # 32062992.001 Page 28 of 33	
EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Performed by	Kerwinn Corpuz

9 kHz – 1 GHz Transmit at 5610 MHz

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
0.77	31.16	2.28	10.33	43.77	Pk	V	102	331	69.85	-26.09
1.17	26.76	2.31	10.60	39.67	Pk	V	102	254	66.23	-26.56
63.75	52.40	2.70	-20.41	34.68	QP	V	140	270	40.00	-5.32
71.04	53.29	2.76	-19.98	36.08	QP	V	154	262	40.00	-3.93
77.34	49.51	2.77	-20.11	32.17	QP	V	149	0	40.00	-7.83
84.08	46.89	2.81	-20.67	29.03	QP	V	160	360	40.00	-10.97
100.26	47.64	2.88	-17.78	32.74	QP	V	128	234	43.50	-10.76
113.11	40.28	2.93	-14.93	28.28	QP	V	118	194	43.50	-15.22

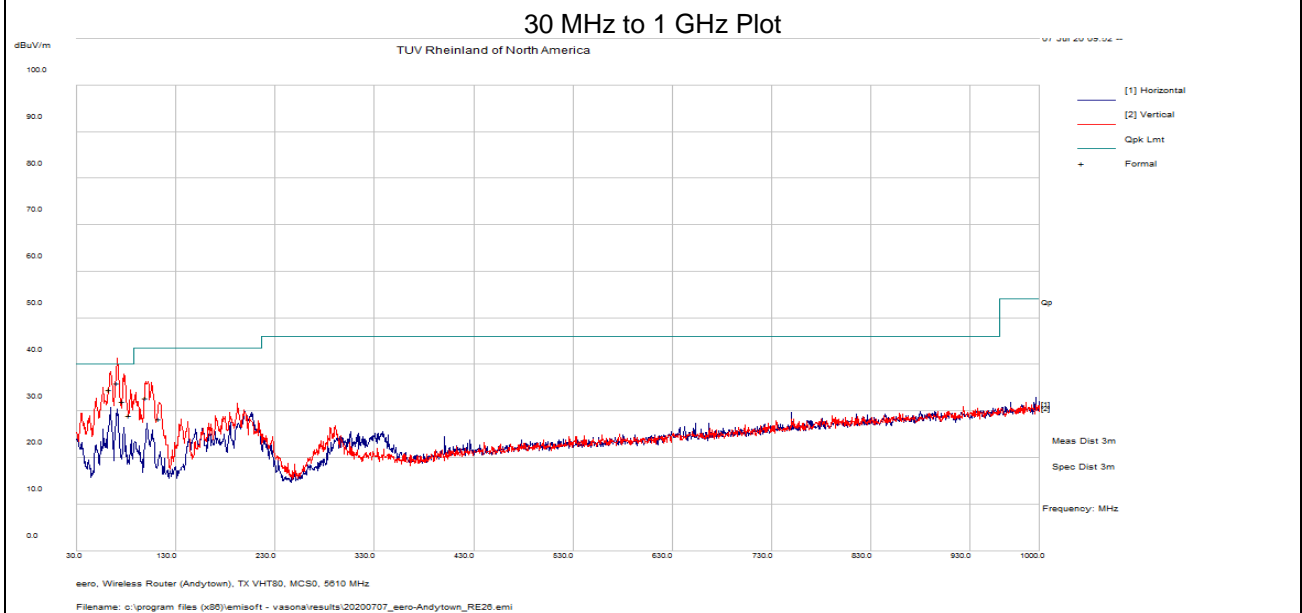
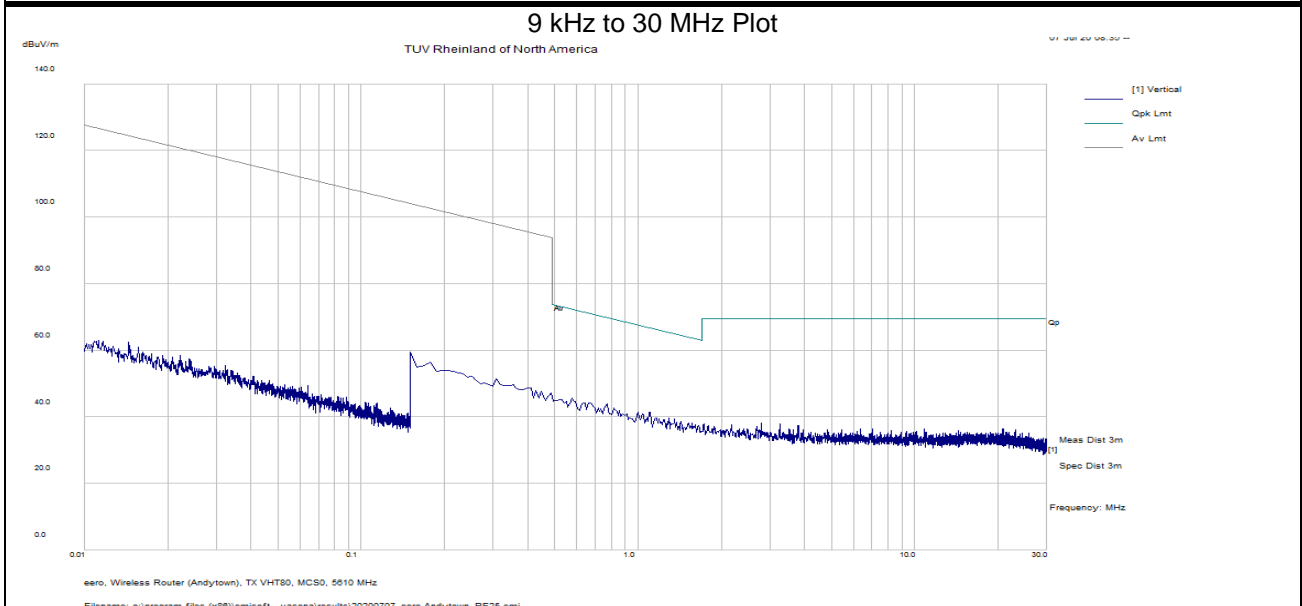
Spec Margin = E-Field QP - Limit, E-Field QP = FIM QP+ Total CF ± Uncertainty
 Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

Note: No significant emission was observed below 30 MHz. Detected noise floor.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 7, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / JB3 & 6505	Date	Kerwinn Corpuz



Notes: Transmit at 5610 MHz.

SOP 1 Radiated Emissions				Tracking # 32062992.001 Page 30 of 33			
EUT Name	eero 6 and eero 6 Extender			Date	July 16 - 24, 2020		
EUT Model	N010001			Temp / Hum in	20° C / 35-38%rh		
EUT Serial	NA4V-0034-0FZS-B958			Temp / Hum out	N/A		
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1			Line AC / Freq	110 Vac / 60 Hz		
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN			RBW / VBW	Per ANSI C63.10		
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840			Performed by	Kerwinn Corpuz		

1 – 40 GHz Transmit at 5530 MHz

Frequency	Raw	Cable Loss	AF	Level	Detector	Polarity	Height	Azimuth	Limit	Margin
MHz	dBuV/m	dB	dB	dBuV/m		H/V	cm	deg	dBuV/m	dB
17976.17	54.84	4.11	-7.67	51.27	Pk	V	109	360	74.00	-22.73
17976.17	43.11	4.11	-7.67	39.55	Ave	V	109	360	54.00	-14.45
27781.02	45.38	8.60	-5.53	48.46	Pk	H	129	68	74.00	-25.54
27781.02	34.30	8.60	-5.50	37.40	Pk	H	129	68	54.00	-16.60
22120.02	49.27	7.61	-8.74	48.14	Ave	V	165	262	74.00	-25.86
22120.02	45.30	7.60	-8.70	44.20	Pk	V	165	262	54.00	-9.80
36444.40	48.01	10.23	-4.87	53.37	Ave	V	193	10	74.00	-20.63

1 – 40 GHz Transmit at 5610 MHz

16809.81	64.02	3.87	-15.64	52.26	Pk	V	223	74	68.23	-15.97
17995.58	54.98	4.12	-7.77	51.32	Pk	V	266	349	74.00	-22.68
17995.58	43.17	4.12	-7.77	39.51	Ave	V	266	349	54.00	-14.49
36773.51	47.12	10.30	-5.30	52.12	Pk	H	123	208	74.00	-21.88
36773.51	36.80	10.30	-5.30	41.80	Ave	H	123	208	54.00	-12.20
22440.01	50.60	7.66	-8.57	49.70	Pk	V	172	264	74.00	-24.31
22440.01	46.90	7.70	-8.60	46.00	Ave	V	172	264	54.00	-8.00

1 – 40 GHz Transmit at 5690 MHz

17073.95	71.36	3.88	-13.66	61.58	Pk	V	262	87	68.23	-6.65
17997.00	55.06	4.12	-7.79	51.39	Pk	V	121	234	74.00	-22.61
17997.00	43.15	4.12	-7.79	39.49	Ave	V	121	234	54.00	-14.51
22760.35	50.70	7.60	-8.20	50.10	Pk	V	162	82	74.00	-23.90
22760.35	43.70	7.60	-8.20	43.10	Ave	V	162	82	54.00	-10.90
36487.27	46.80	10.20	-4.90	52.20	Pk	V	177	0	74.00	-21.80
36487.27	36.60	10.20	-4.90	42.00	Ave	V	177	0	54.00	-12.00

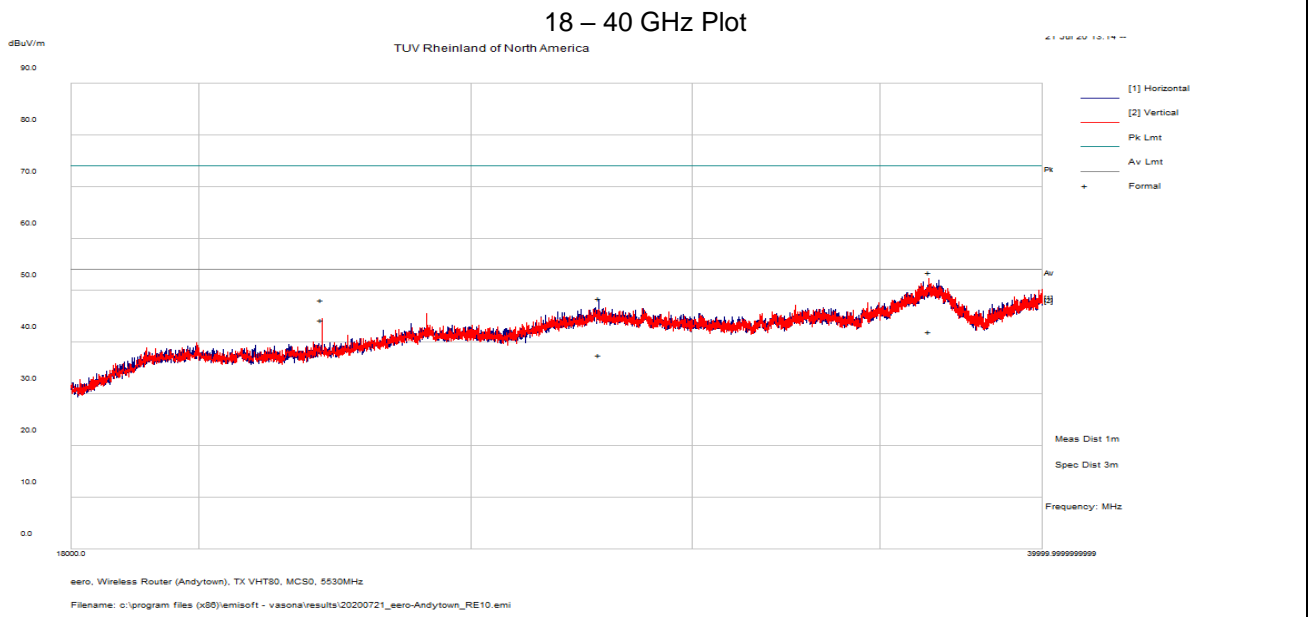
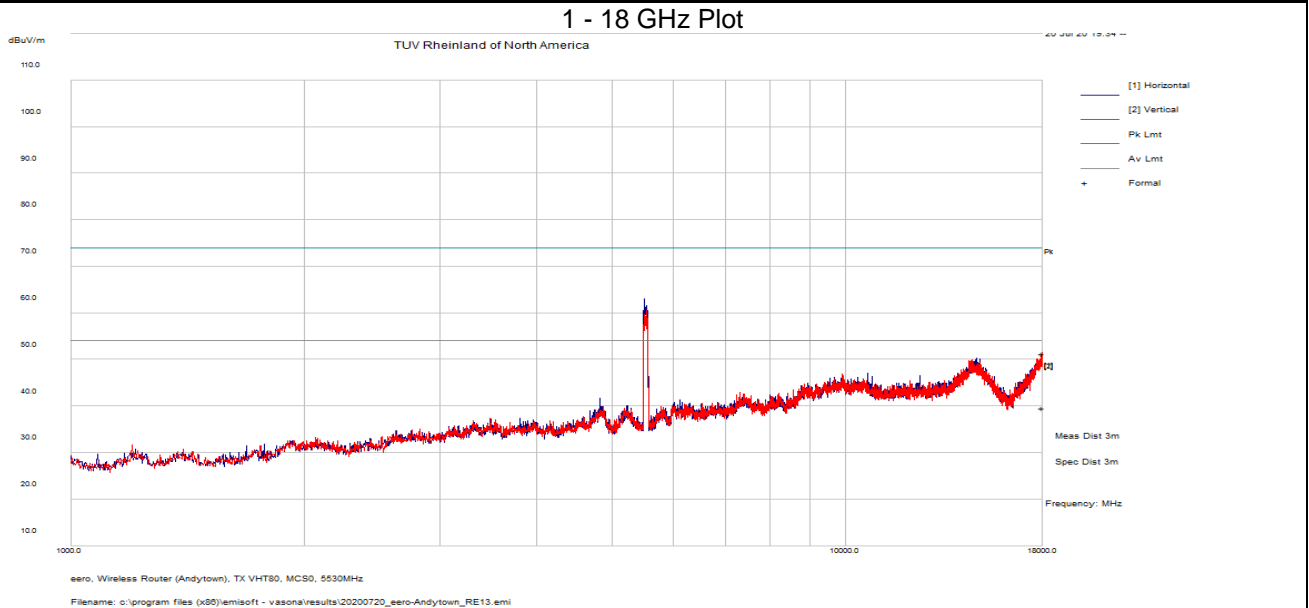
Spec Margin = E-Field AVG - Limit, E-Field AVG = FIM AVG+ Total CF ± Uncertainty
 Total CF= AF+ Cable Loss AF= Antenna factor + Preamp

Note: None

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

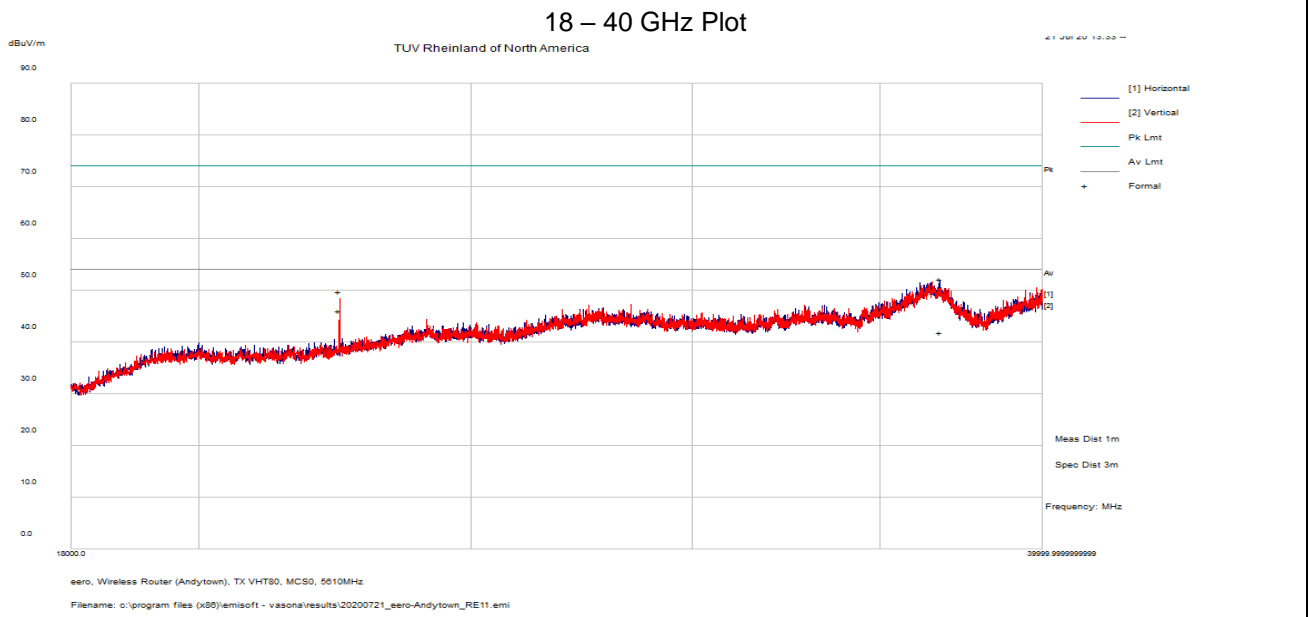
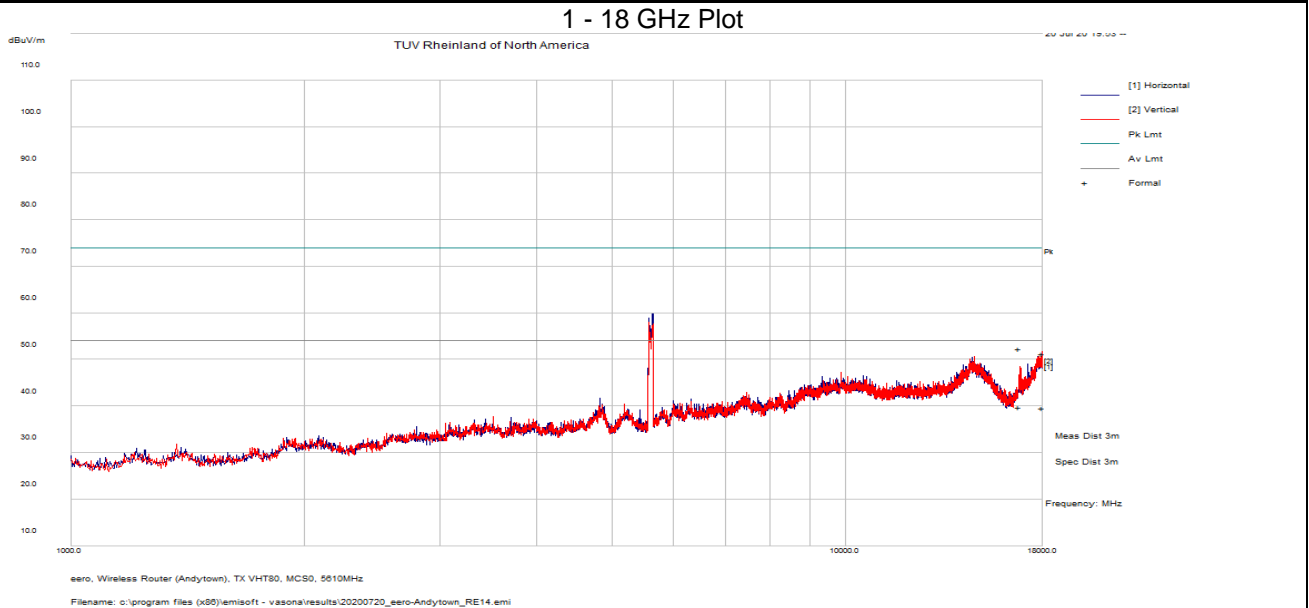


Notes: 1. Transmit at 5530 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz

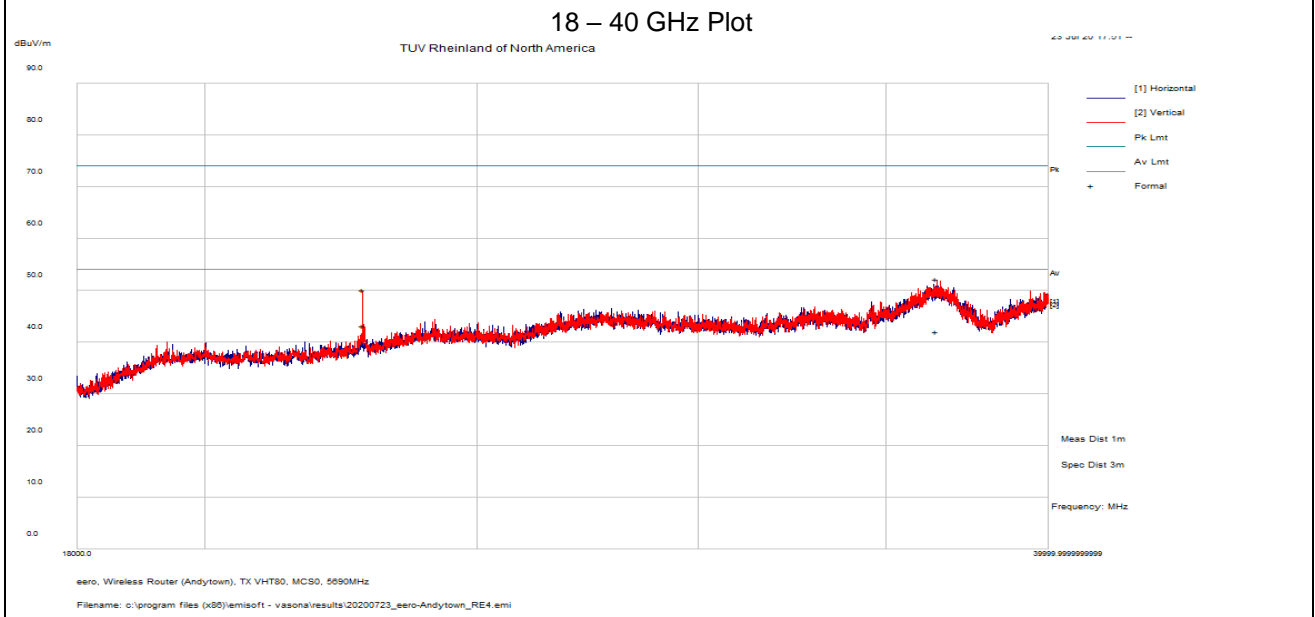
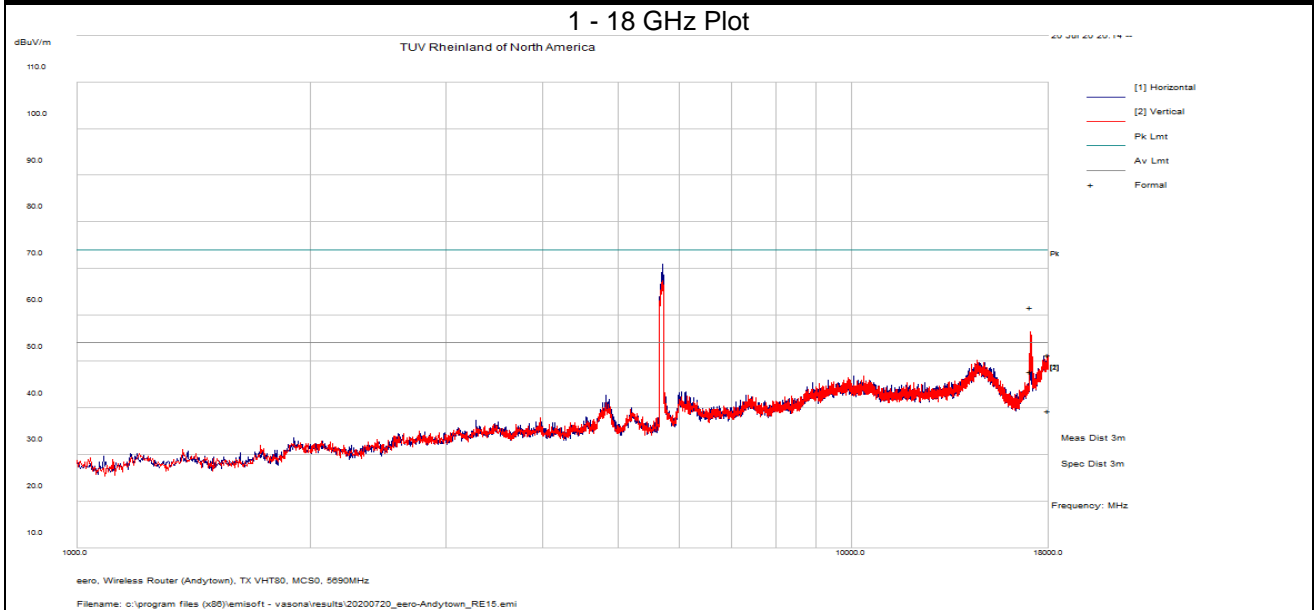


Notes: 1. Transmit at 5610 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

SOP 1 Radiated Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	July 16 - 24, 2020
EUT Model	N010001	Temp / Hum in	20° C / 35-38%rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	802.11ac VHT80 mode at MCS0 / chain 0 & 1	Line AC / Freq	110 Vac / 60 Hz
Standard	CFR47 Part 15 Subpart E, RSS-247, RSS-GEN	RBW / VBW	Per ANSI C63.10
Dist/Ant Used	3m / EMCO-3115, 1m / COM-POWER AHA-840	Performed by	Kerwinn Corpuz



Notes: 1. Transmit at 5690 MHz.
 2. For 1-18 GHz Plot, emission above the Ave & near the Pk limit is the fundamental.

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: May 29, 2020
Antenna Type: FPCB		Power Level: See Test Plan
AC Power: 110 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

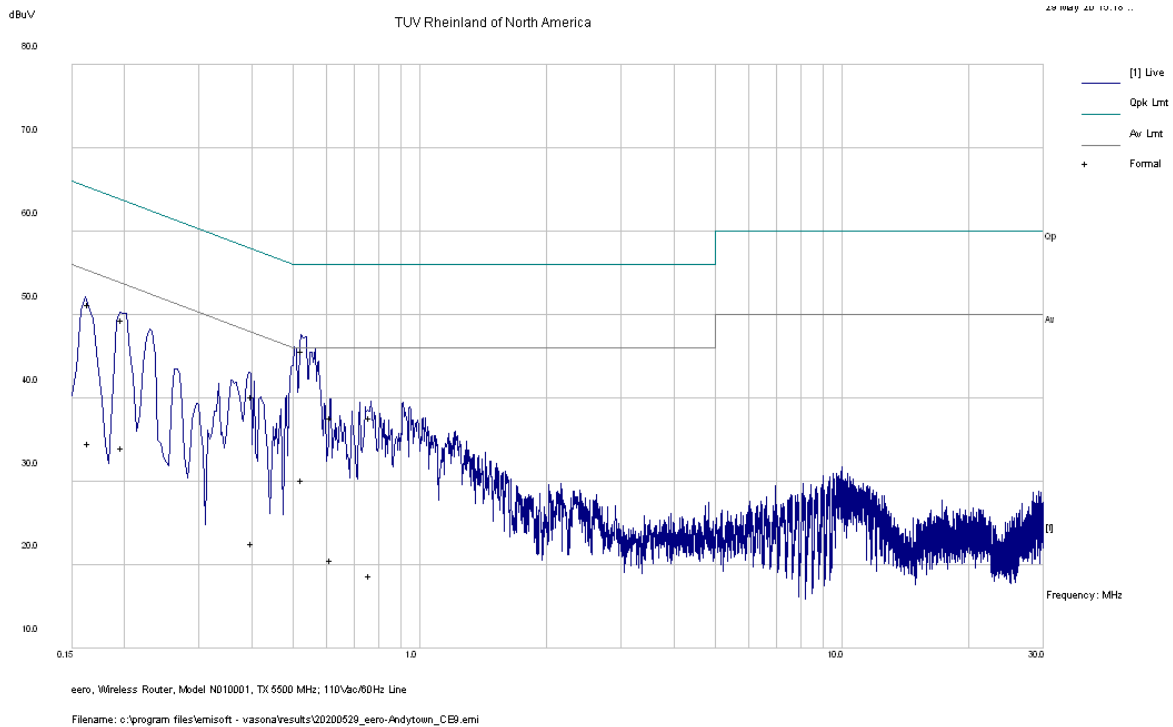
SOP 2 Conducted Emissions						Tracking # 32062992.001 Page 1 of 4			
EUT Name		eero 6 and eero 6 Extender				Date		May 29, 2020	
EUT Model		N010001				Temp / Hum in		22° C / 35% rh	
EUT Serial		NA4V-0034-0FZS-B958				Temp / Hum out		N/A	
EUT Config.		TX mode: 802.11n HT20, MCS0, 5500 MHz				Line AC / Freq		110 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		Kerwinn Corpuz	
Frequency	Raw	Limiter	Ins. Loss	Level	Detector	Line	Limit	Margin	Result
MHz	dBuV	dB	dB	dBuV			dBuV	dB	
0.164	41.26	9.95	0.09	51.30	QP	Live	65.25	-13.95	Pass
0.164	24.58	9.95	0.09	34.62	Ave	Live	55.25	-20.63	Pass
0.197	39.40	9.95	0.07	49.42	QP	Live	63.73	-14.30	Pass
0.197	24.07	9.95	0.07	34.09	Ave	Live	53.73	-19.63	Pass
0.401	30.23	9.97	0.04	40.24	QP	Live	57.84	-17.60	Pass
0.401	12.49	9.97	0.04	22.50	Ave	Live	47.84	-25.34	Pass
0.528	35.59	9.98	0.04	45.61	QP	Live	56.00	-10.39	Pass
0.528	20.22	9.98	0.04	30.24	Ave	Live	46.00	-15.76	Pass
0.615	27.57	9.98	0.04	37.59	QP	Live	56.00	-18.41	Pass
0.615	10.54	9.98	0.04	20.56	Ave	Live	46.00	-25.44	Pass
0.765	27.57	9.99	0.04	37.59	QP	Live	56.00	-18.41	Pass
0.765	8.73	9.99	0.04	18.75	Ave	Live	46.00	-27.25	Pass
Spec Margin = QP./Ave. - Limit, ± Uncertainty									
Combined Standard Uncertainty $U_c(y) = \pm 1.2$ dB Expanded Uncertainty $U = kU_c(y)$ $k = 2$ for 95% confidence									
Notes: EUT was setup as table top equipment and transmitted at 5500 MHz in 802.11n HT20 mode at MCS0. Pre-Scan test on 5300 MHz and 5500 MHz, found 5500 MHz as worse case.									

SOP 2 Conducted Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	May 29, 2020
EUT Model	N010001	Temp / Hum in	22° C / 35% rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	TX mode: 802.11n HT20, MCS0, 5500 MHz	Line AC	110 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	Kerwinn Corpuz

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



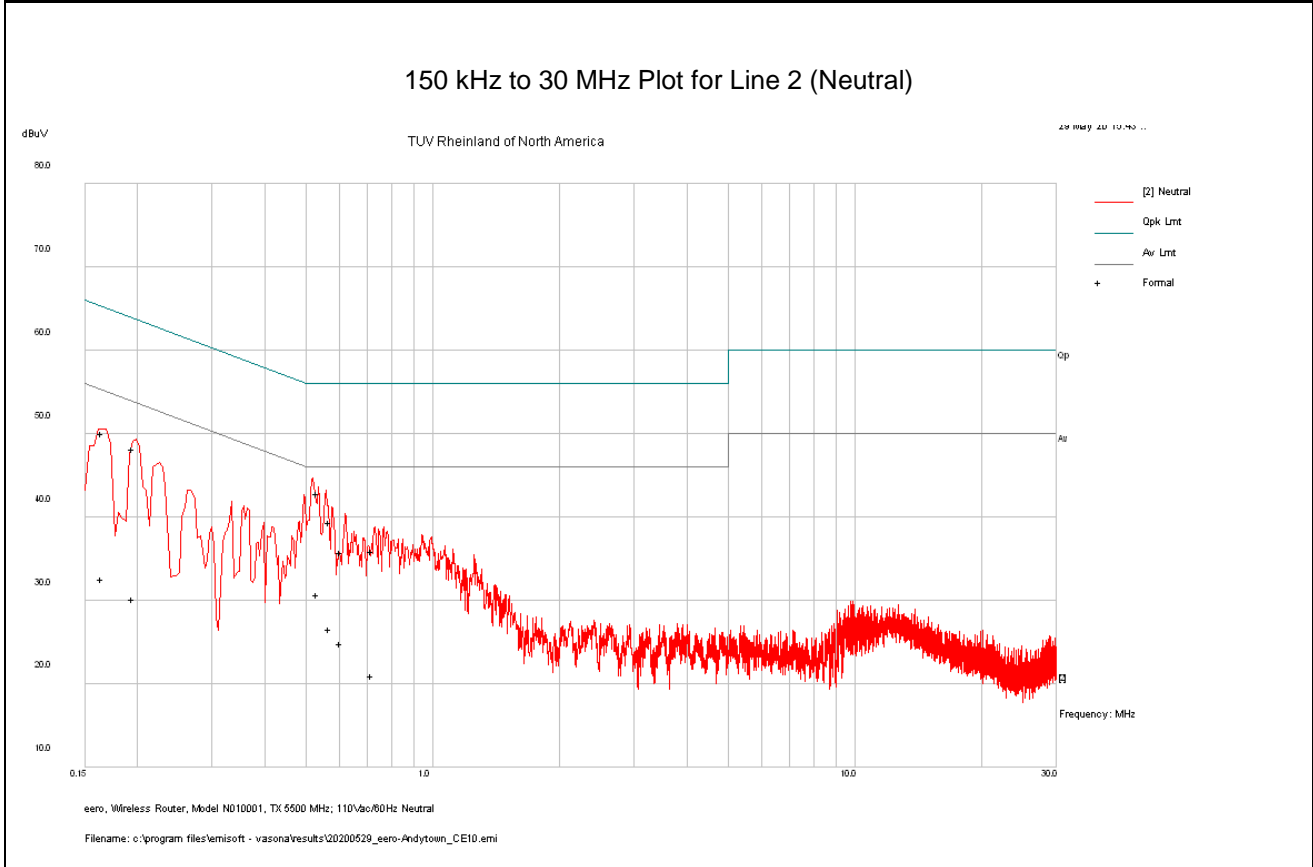
Note: Met FCC Class B limit.

SOP 2 Conducted Emissions						Tracking # 32062992.001 Page 3 of 4			
EUT Name	eero 6 and eero 6 Extender					Date	May 29, 2020		
EUT Model	N010001					Temp / Hum in	22° C / 35% rh		
EUT Serial	NA4V-0034-0FZS-B958					Temp / Hum out	N/A		
EUT Config.	TX mode: 802.11n HT20, MCS0, 5500 MHz					Line AC / Freq	110 Vac / 60 Hz		
Standard	CFR47 Part 15.207 and RSS Gen					RBW / VBW	9 kHz / 30 kHz		
Lab/LISN	Lab #5 /Com-Power, Line 2					Performed by	Kerwinn Corpuz		
Frequency	Raw	Limiter	Ins. Loss	Level	Detector	Line	Limit	Margin	Result
MHz	dBuV	dB	dB	dBuV			dBuV	dB	
0.164	40.05	9.95	0.09	50.09	QP	Neutral	65.24	-15.15	Pass
0.164	22.50	9.95	0.09	32.53	Ave	Neutral	55.24	-22.71	Pass
0.195	38.19	9.95	0.07	48.21	QP	Neutral	63.82	-15.61	Pass
0.195	20.13	9.95	0.07	30.15	Ave	Neutral	53.82	-23.67	Pass
0.534	32.85	9.98	0.04	42.87	QP	Neutral	56.00	-13.13	Pass
0.534	20.65	9.98	0.04	30.67	Ave	Neutral	46.00	-15.33	Pass
0.571	29.38	9.98	0.04	39.40	QP	Neutral	56.00	-16.60	Pass
0.571	16.56	9.98	0.04	26.58	Ave	Neutral	46.00	-19.42	Pass
0.607	25.80	9.98	0.04	35.82	QP	Neutral	56.00	-20.18	Pass
0.607	14.84	9.98	0.04	24.86	Ave	Neutral	46.00	-21.14	Pass
0.719	25.92	9.98	0.04	35.94	QP	Neutral	56.00	-20.06	Pass
0.719	10.93	9.98	0.04	20.96	Ave	Neutral	46.00	-25.04	Pass
Spec Margin = QP./Ave. - Limit, ± Uncertainty									
Combined Standard Uncertainty $u_c(y) = \pm 1.2$ dB Expanded Uncertainty $U = ku_c(y)$ $k = 2$ for 95% confidence									
Notes: EUT was setup as table top equipment and transmitted at 5500 MHz in 802.11n HT20 mode at MCS0. Pre-Scan test on 5300 MHz and 5500 MHz, found 5500 MHz as worse case.									

SOP 2 Conducted Emissions

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EUT Name	eero 6 and eero 6 Extender	Date	May 29, 2020
EUT Model	N010001	Temp / Hum in	22° C / 35% rh
EUT Serial	NA4V-0034-0FZS-B958	Temp / Hum out	N/A
EUT Config.	TX mode: 802.11n HT20, MCS0, 5500 MHz	Line AC	110 Vac / 60 Hz
Standard	CFR47 Part 15.207 and RSS Gen	RBW / VBW	9 kHz / 30 kHz
Lab/LISN	Lab #5 /Com-Power, Line 2	Performed by	Kerwinn Corpuz



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 +0° to +35° 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 N010001 and Q010001 WiFi Module is compliant to CFR47 Part 15.31(e), 15.407(g) and RSS GEN Sect. 6.11 requirements. The N010001 and Q010001 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/yyyy	Next Cal mm/dd/yyyy
LISN	Com-Power	LI-200	12100	02/21/2020	02/21/2021
Loop Antenna	EMCO	6502	9110-2683	06/16/2020	06/16/2022
Bilog Antenna	Sunol Sciences	JB3	A102606	08/01/2018	08/01/2020
Horn Ant. (1-18GHz)	EMCO	3115	9211-3969	06/20/2019	06/20/2021
Horn Ant. w/ Pre-Amp	Com-Power	AHA-840	105005	09/03/2019	09/03/2021
EMI Receiver	Agilent	N9038A	MY52260210	02/15/2020	02/15/2021
Spectrum Analyzer	Agilent	N9030A	MY52350885	10/26/2019	10/26/2020
EMI Receiver	Rohde & Schwarz	ESIB40	100180	09/20/2019	09/20/2020
Preamplifier	Sonoma Inst.	310	185516	02/12/2020	02/12/2021
Preamplifier	Miteq	TTA1800-30-HG	184252	02/12/2020	02/12/2021
RF Power Meter	Agilent	E4418A	MY45103902	02/13/2020	02/13/2021
Power Sensor	Agilent	8481A	US37295801	02/13/2020	02/13/2021
Thermometer	Extech Instruments	SD700	A095319	03/18/2020	03/18/2021
Thermo Chamber	Espec	BTZ-133	0613436	12/20/2019	12/20/2020
DC Power Supply	Agilent	E3634A	MY400004331	02/15/2020	02/15/2021
Signal Generator	Anritsu	MG3694A	042803	02/13/2020	02/13/2021
Notch Filter	Micro-Tronics	BRM50716	003	VBU	VBU
Notch Filter	Micro-Tronics	BRM50702	037	VBU	VBU

* 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, 0.5A
DC Input	5 VDC, 3 A, 15W
Environment	Indoor
Operating Temperature Range:	0 to 35 degrees C
Multiple Feeds:	<input type="checkbox"/> Yes and how many <input checked="" type="checkbox"/> No
Product Marketing Name (PMN)	N010001 and Q010001
Hardware Version Identification Number (HVIN)	N010001 and Q010001
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	23.75 dBm
Power Setting @ Operating Channel	See Table 25: EUT Channel Power Specifications.
Antenna Type	Refer to Section 3.4.1
Max. Peak Antenna Gain	Refer to Section 3.4.1
Modulation Type	<input checked="" type="checkbox"/> Thread (Zigbee) <input checked="" type="checkbox"/> BLE <input checked="" type="checkbox"/> DSSS <input checked="" type="checkbox"/> OFDM <input type="checkbox"/> 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)	MIMO (2x2)
Directional Gain Type	<input checked="" type="checkbox"/> Correlated <input checked="" type="checkbox"/> Beam-Forming <input type="checkbox"/> Other describe:
Type of Equipment	<input checked="" type="checkbox"/> Table Top <input type="checkbox"/> Wall-mount <input type="checkbox"/> Floor standing cabinet <input type="checkbox"/> Other:
Note: 1. All two chains will be on / transmitted at all time. 2. EUT software: eero test image 4470b6a83278; Fri may 29 18:01:48 UTC 2020.	

Table 25: EUT Channel Power Specifications

No.	Freq. (MHz)	Target Power Value dBm										
		Uncorrelated Mode						Correlated Mode				
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80	802.11n HT20	802.11n HT40	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
Power Setting (TP)												
52	5260	44	44		44			39		39		
54	5270			43		43			43		43	
58	5290						37					37
60	5300	44	44		44			39		39		
62	5310			38		38			38		38	
64	5320	41	41		41			39		39		
100	5500	43	43		43			37		37		
102	5510			39		39			39		39	
106	5530						36					36
116	5580	43	44		44			37		37		
118	5590			44		44			42		42	
122	5610						40					40
134	5670			41		41			41		41	
138	5690						44					44
140	5700	42	42		42			39		39		
142	5710			44		44			44		44	
144	5720	44	44		44			41		41		

Note: The adjusted power target values are updated at the evaluated frequencies.

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	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Metric:2m	<input checked="" type="checkbox"/> 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
N010001	NA4V-0034-0FZS-B958	Radiated Sample	Radiated Emissions. Conducted Emission
N010001	NA4V-003K-J9V4-FP58	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
N010001	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: 2020	All
RSS 247 Issue 2, 2017	All

END OF REPORT