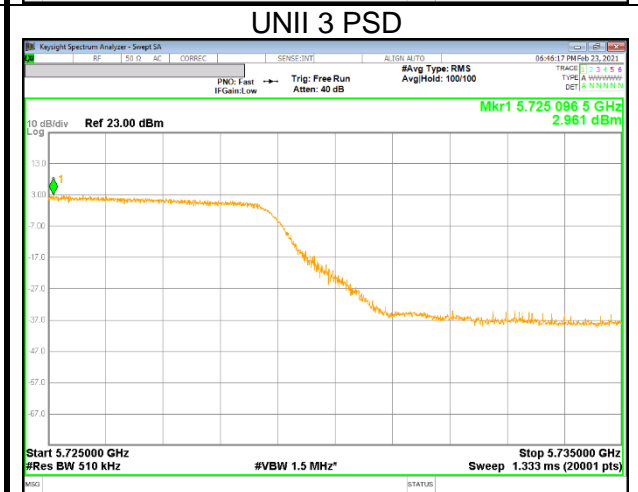
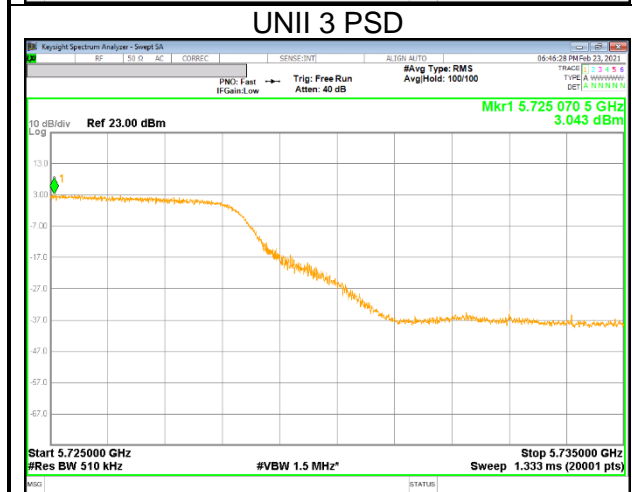
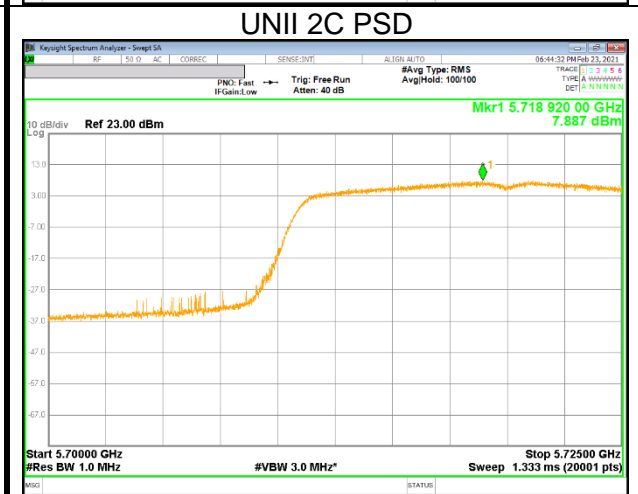
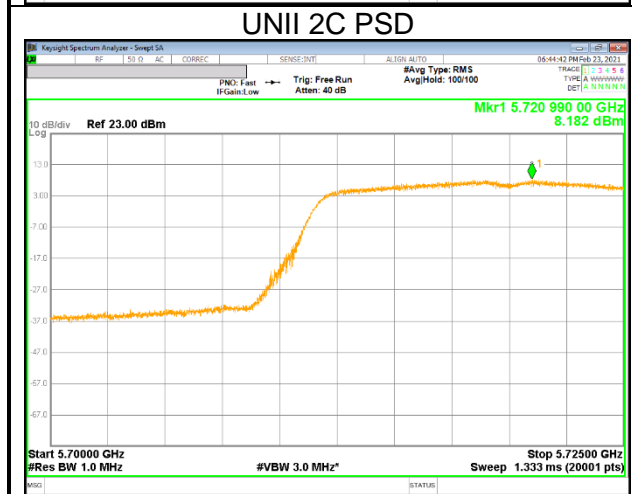
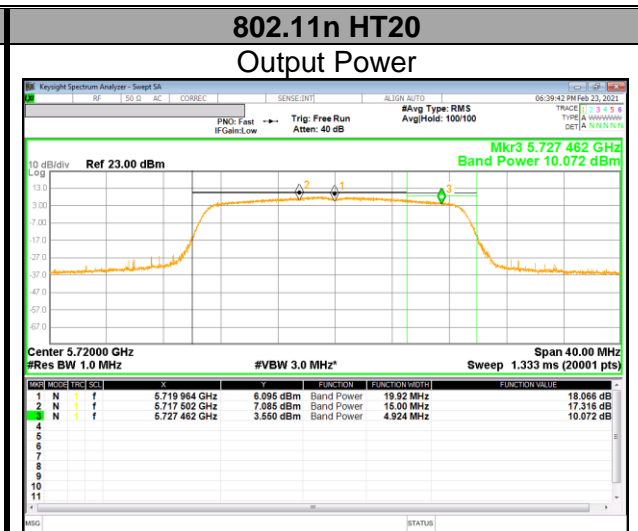
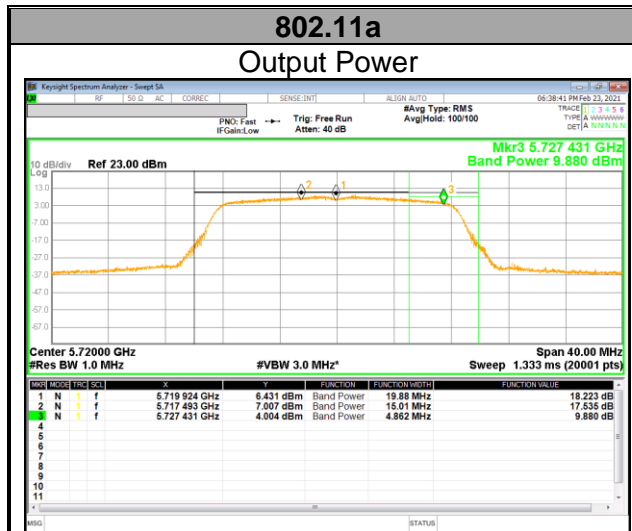
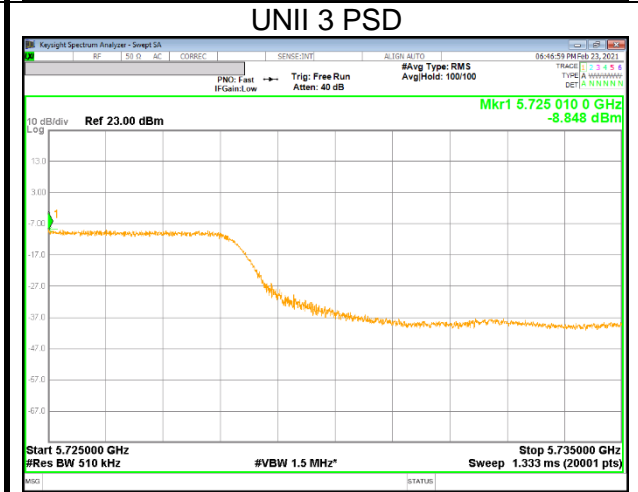
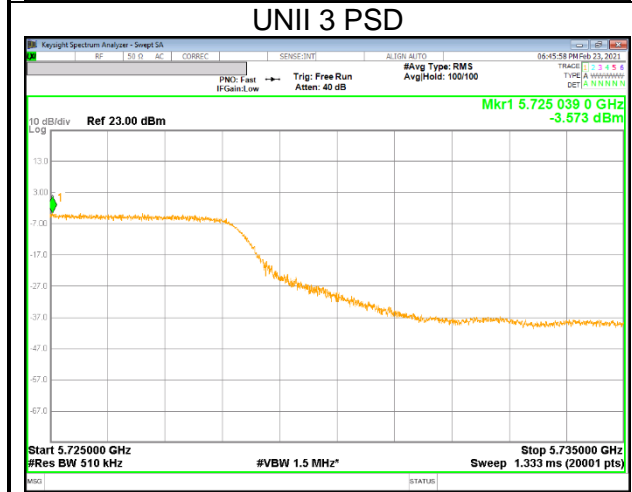
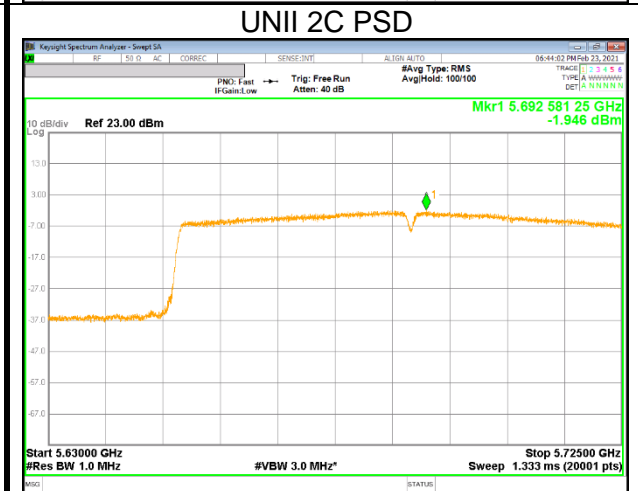
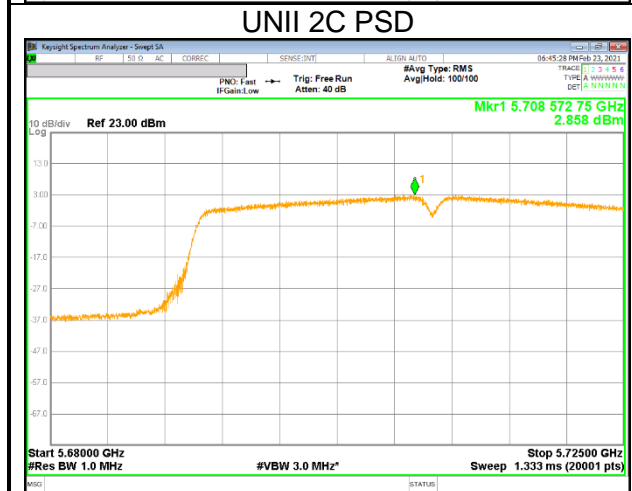
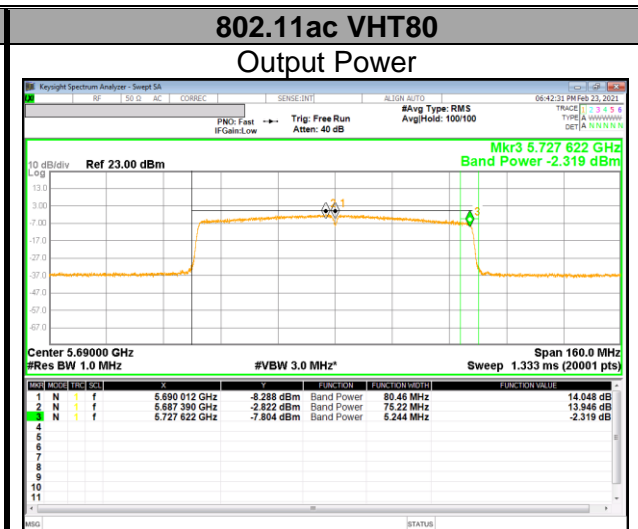
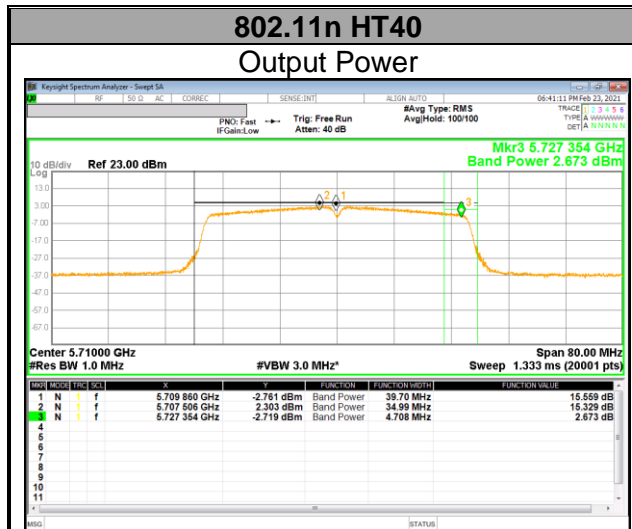


UNII Straddle Ch. Output Power and PSD





11. TRANSMITTER ABOVE 1 GHz

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~ 156.52525	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.7 ~ 156.9	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	162.0125 ~ 167.17	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	167.72 ~ 173.2	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	240 ~ 285	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	322 ~ 335.4	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	960 ~ 1240	3345.8 ~ 3358 3600 ~ 4400		

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

FCC §15.407 (b)

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary,
provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Note

- Limit translation to field strength level (FCC §15.407)

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -27\text{dBm} + 95.2 = 68.2\text{dBuV/m}$$

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -17\text{dBm} + 95.2 = 78.2\text{dBuV/m}$$

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 100 cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 D02 v02r01 UNII part G) 6) c) Method AD:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

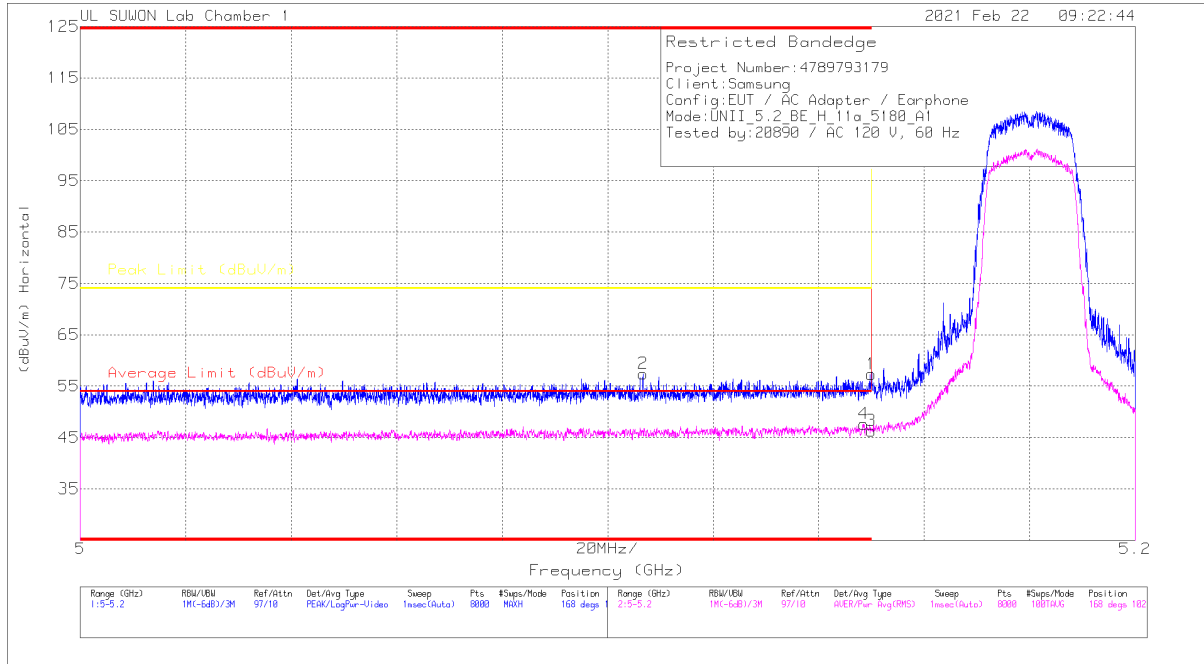
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

11.1. 5.2 GHz

11.1.1. TX ABOVE 1GHz 802.11a 1Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

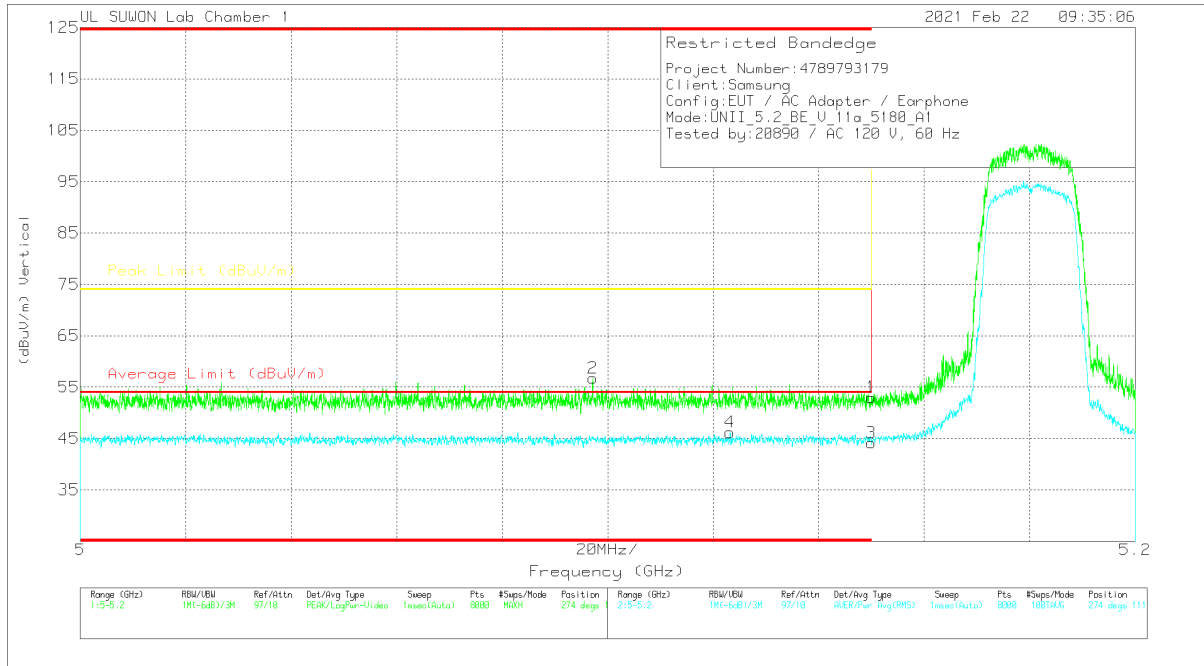
Marker	Frequency (GHz)	Meter Reading (dBu)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	44.83	Pk	34.3	-21.6	0	57.33	-	-	74	-16.67	168	102	H
2	* 5.10669	44.93	Pk	34.2	-21.7	0	57.43	-	-	74	-16.57	168	102	H
3	* 5.14999	33.62	RMS	34.3	-21.6	0	46.32	54	-7.68	-	-	168	102	H
4	* 5.14857	35.06	RMS	34.3	-21.7	0	47.66	54	-6.34	-	-	168	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (Ghz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	40.32	PK	34.3	-21.6	0	53.02	-	-	74	-20.98	274	111	V
2	* 5.09716	44.25	PK	34.2	-21.7	0	56.75	-	-	74	-17.25	274	111	V
3	* 5.14999	31.47	RMS	34.3	-21.6	0	44.17	54	-9.83	-	-	274	111	V
4	* 5.12319	33.5	RMS	34.3	-21.6	0	46.2	54	-7.8	-	-	274	111	V

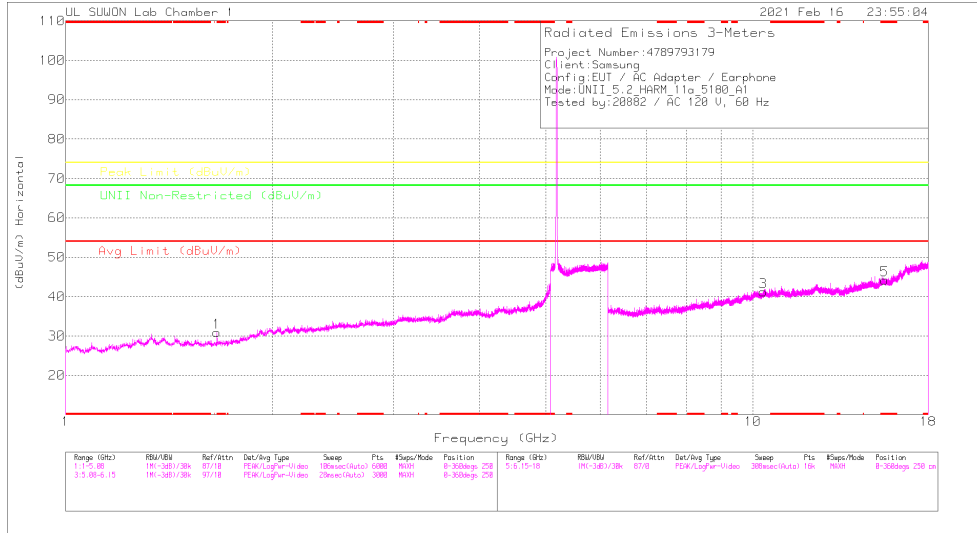
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

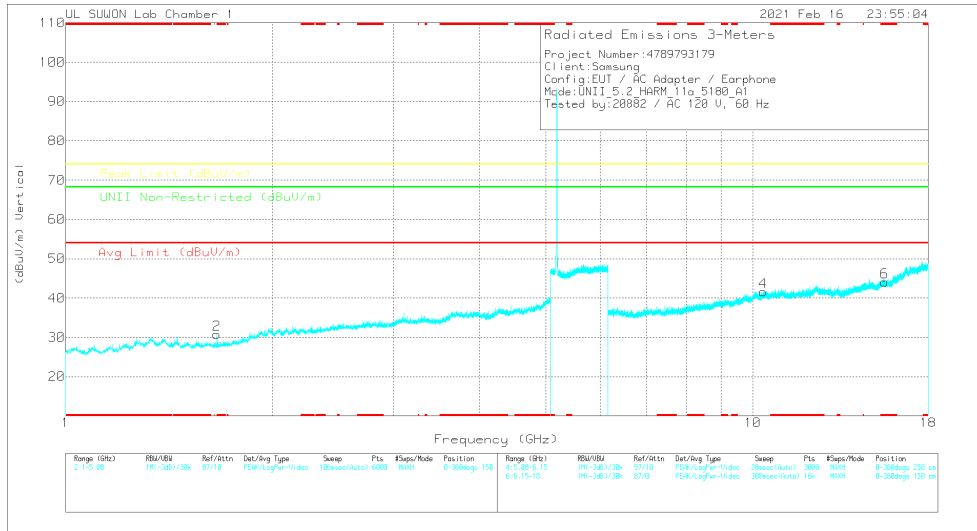
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

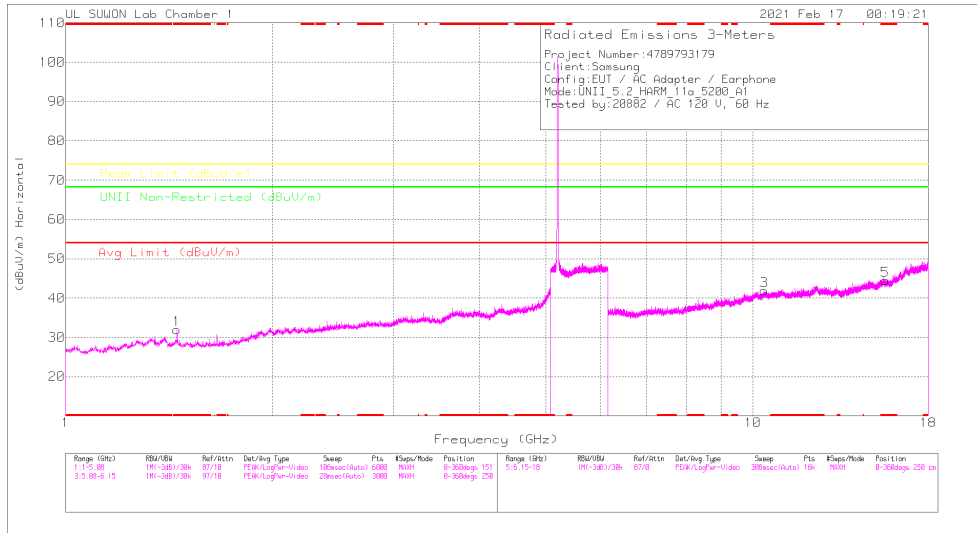
LOW CHANNEL DATA

Radiated Emissions

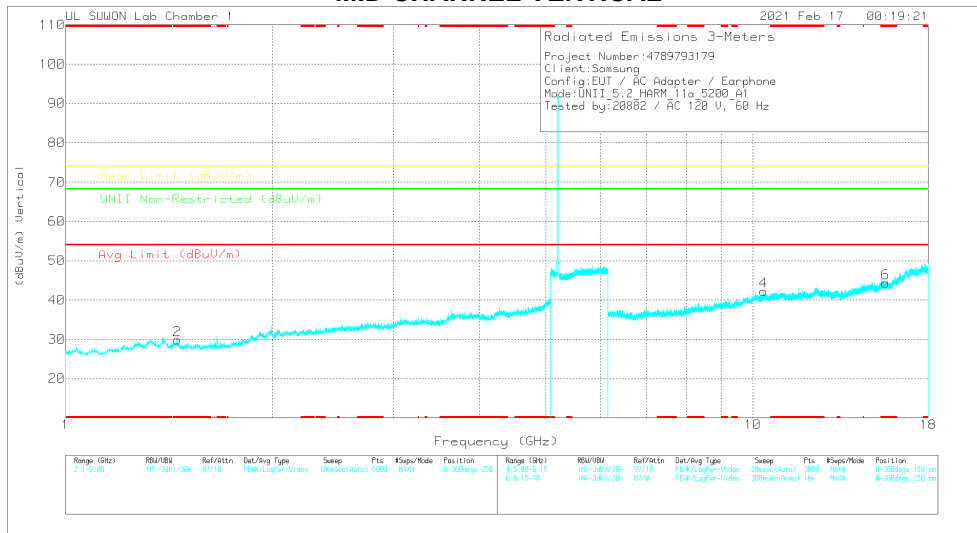
Frequency (GHz)	Mixer Reading (dBuV)	Det	3117_0168717	5GHz_LF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65868	45.78	PK-U	28.4	-35.7	0	38.48	-	-	-	-	68.2	-29.72	360	100	H
1.66	45.97	PK-U	28.4	-35.8	0	38.57	-	-	-	-	68.2	-29.63	360	100	V
Frequency (GHz)	Mixer Reading (dBuV)	Det	3117_0168717	6GHz_HF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
10.36228	34.83	PK-U	37.8	-21.9	0	50.73	-	-	-	-	68.2	-17.47	360	100	H
10.36309	34.5	PK-U	37.8	-21.9	0	50.4	-	-	-	-	68.2	-17.8	360	100	V
* 15.54201	34.12	PK-U	40.1	-20.9	0	53.32	-	-	74	-20.68	-	-	360	100	H
* 15.54381	34.19	PK-U	40.1	-20.9	0	53.39	-	-	74	-20.61	-	-	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

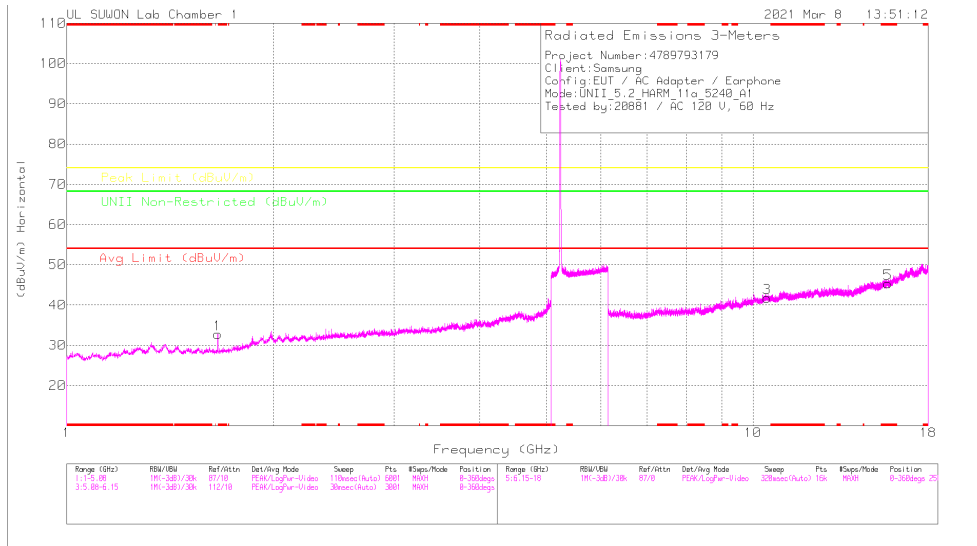
Radiated Emissions

Frequency (GHz)	Mask Reading (dBuV)	Det	3117.00168717	5GHz_HF(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmth (Degs)	Height (cm)	Polarity	
* 1.4508	46.81	PK-U	29.2	-36.6	0	38.41	-	-	74	-34.59	-	-	-	360	100	H
* 1.45465	46.4	PK-U	29.1	-36.6	0	38.9	-	-	74	-35.1	-	-	-	360	100	V

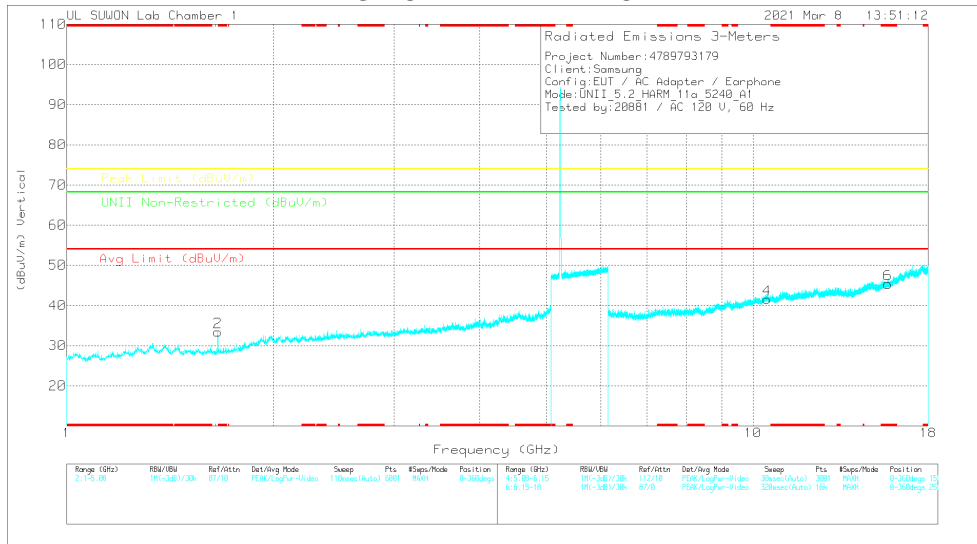
Frequency (GHz)	Mask Reading (dBuV)	Det	3117.00168717	6GHz_HF(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmth (Degs)	Height (cm)	Polarity
10.38255	34.37	PK-U	37.8	-21.7	0	50.47	-	-	-	-	68.2	-17.73	360	100	H
10.38099	34.35	PK-U	37.8	-21.7	0	50.45	-	-	-	-	68.2	-17.75	360	100	V
* 15.59297	34.63	PK-U	40.1	-21.3	0	53.43	-	-	74	-20.57	-	-	360	100	H
* 15.59423	34.74	PK-U	40.1	-21.2	0	53.64	-	-	74	-20.36	-	-	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_LPF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65989	48.91	PK-U	28.4	-35.8	0	39.54	-	-	-	-	68.2	-28.69	360	100	H
1.6564	46.65	PK-U	28.4	-35.7	0	39.35	-	-	-	-	68.2	-28.85	360	100	V

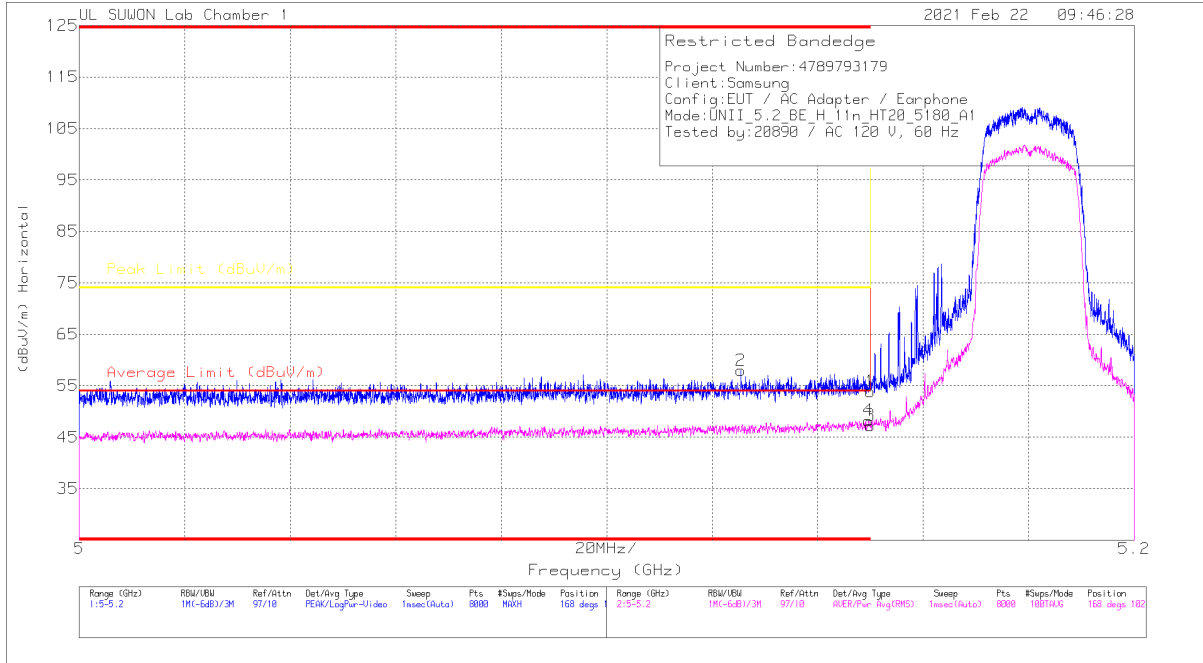
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.48066	36.45	PK-U	37.9	-22.3	0	52.05	-	-	-	-	68.2	-16.15	360	100	H
10.48077	36.59	PK-U	37.9	-22.3	0	52.19	-	-	-	-	68.2	-16.01	360	100	V
* 15.71855	36.78	PK-U	40.1	-21	0	55.88	-	-	74	-18.12	-	-	202	100	H
* 15.71802	24.72	ADR	40.1	-21	0	43.82	54	-10.18	-	-	-	-	202	100	H
* 15.71939	36.85	PK-U	40.1	-21	0	55.95	-	-	74	-18.05	-	-	120	100	V
* 15.72003	24.65	ADR	40.1	-21	0	43.75	54	-10.25	-	-	-	-	120	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

11.1.2. TX ABOVE 1GHz 802.11n HT20 1Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

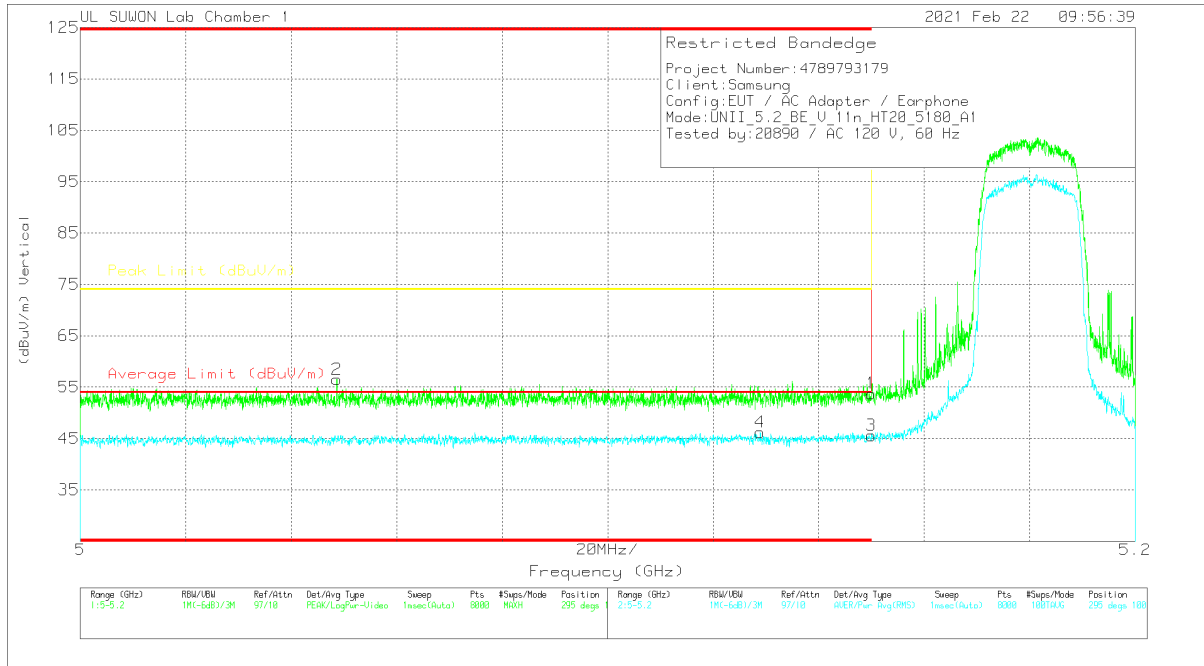
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	41.2	Pk	34.3	-21.6	0	53.9	-	-	74	-20.1	168	102	H
2	* 5.12542	45.29	Pk	34.3	-21.6	0	57.99	-	-	74	-16.01	168	102	H
3	* 5.14999	34.56	RMS	34.3	-21.6	0	47.26	54	-6.74	-	-	168	102	H
4	* 5.14964	35.64	RMS	34.3	-21.7	0	48.24	54	-5.76	-	-	168	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (Ghz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	41.07	Pk	34.3	-21.6	0	53.77	-	-	74	-20.23	295	100	V
2	* 5.04866	44.1	Pk	34.2	-21.8	0	56.5	-	-	74	-17.5	295	100	V
3	* 5.14999	32.9	RMS	34.3	-21.6	0	45.6	54	-8.4	-	-	295	100	V
4	* 5.12892	33.5	RMS	34.3	-21.6	0	46.2	54	-7.8	-	-	295	100	V

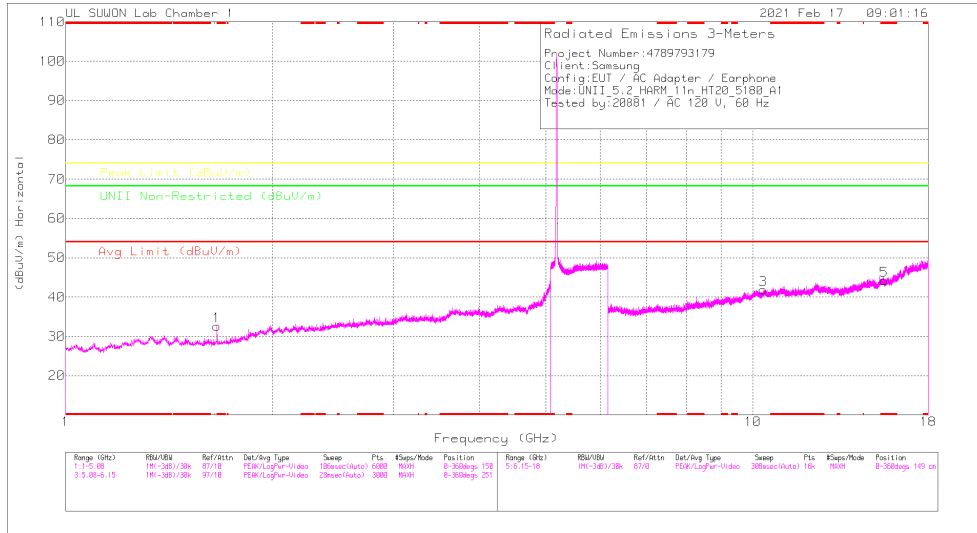
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

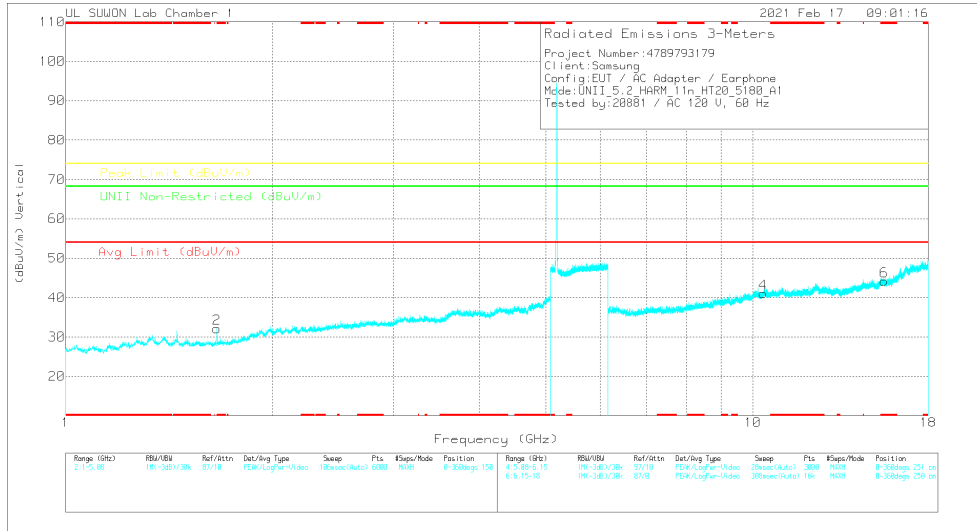
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

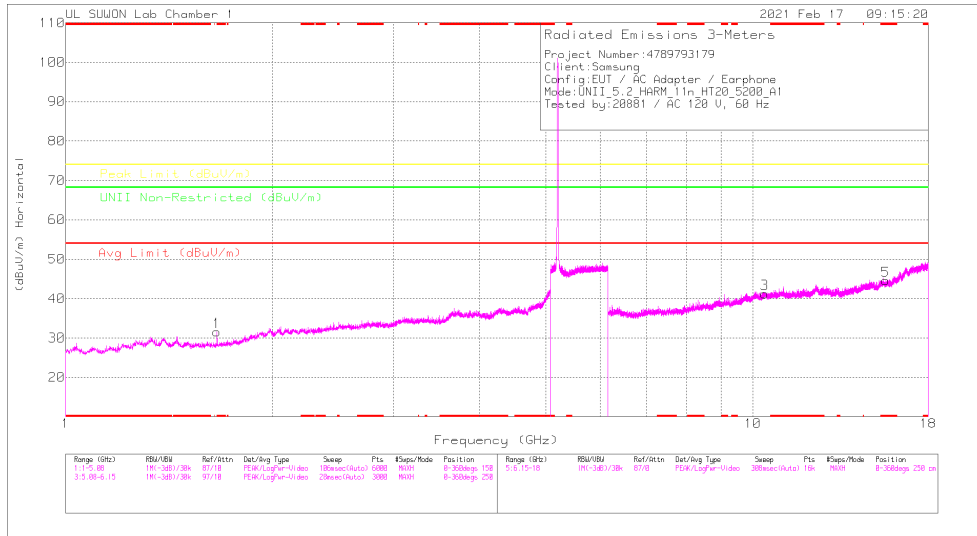
LOW CHANNEL DATA

Radiated Emissions

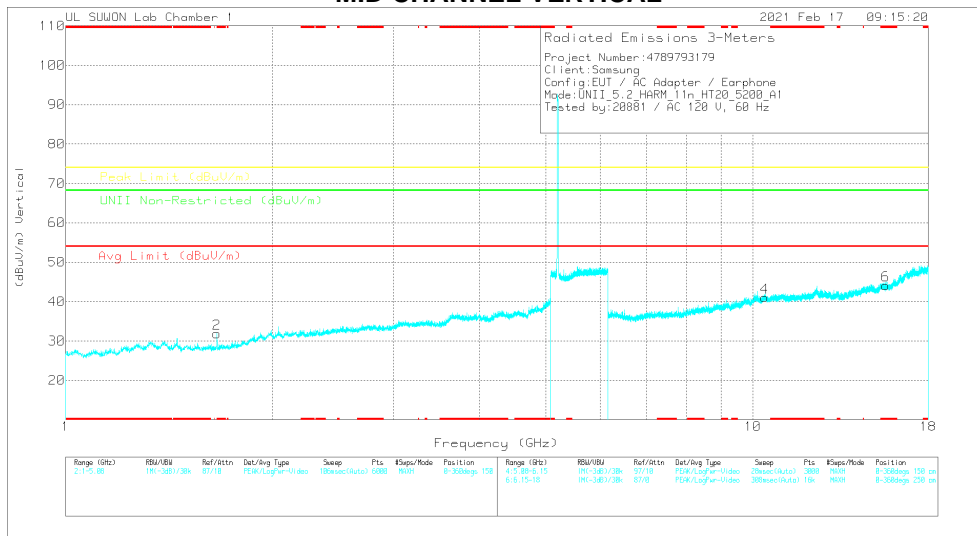
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00160717	5GHz_LFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65924	46.06	PK-U	28.4	-35.7	0	38.76	-	-	-	-	68.2	-29.44	0	100	H
1.65986	46.27	PK-U	28.4	-35.8	0	38.87	-	-	-	-	68.2	-29.33	0	100	V
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00160717	5GHz_HFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.35468	34.39	PK-U	37.8	-22	0	50.19	-	-	-	-	68.2	-18.01	0	100	H
10.35463	34.9	PK-U	37.8	-22.1	0	50.6	-	-	-	-	68.2	-17.6	0	100	V
*15.5398	34.56	PK-U	40.1	-20.8	0	53.86	-	-	74	-20.14	-	-	0	100	H
*15.53836	34.57	PK-U	40.1	-20.8	0	53.87	-	-	74	-20.13	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

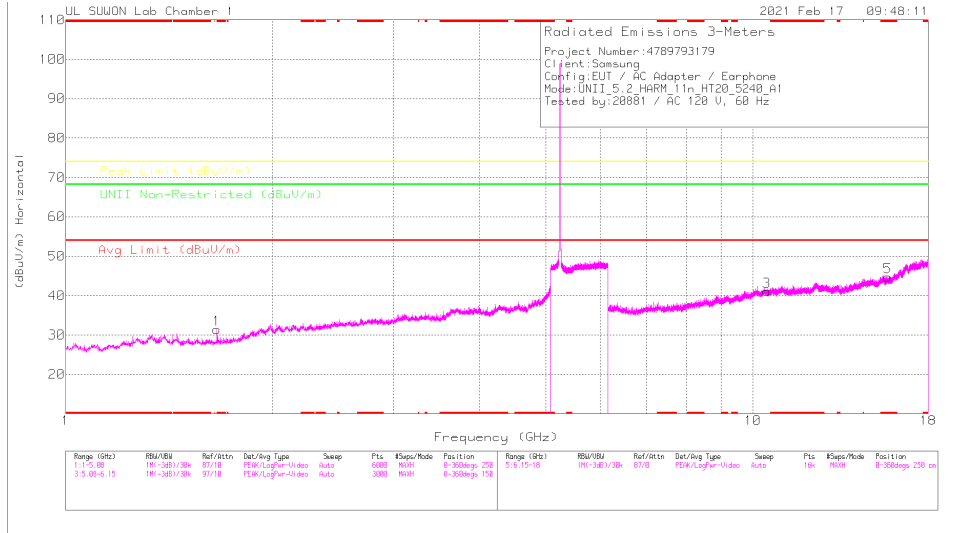
MID CHANNEL DATA

Radiated Emissions

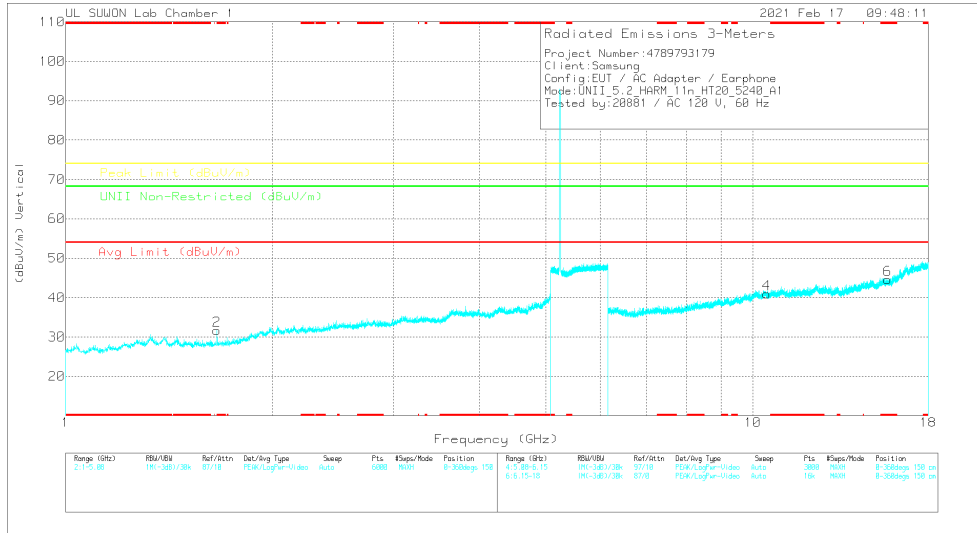
Frequency (GHz)	Mask Reading (dBuV)	Det	317_00168717	6GHz_HPS(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65994	46	PK-U	28.4	-35.8	0	38.6	-	-	-	-	68.2	-29.6	0	100	H
1.65978	45.73	PK-U	28.4	-35.8	0	38.33	-	-	-	-	68.2	-29.87	0	100	V
Frequency (GHz)	Mask Reading (dBuV)	Det	317_00168717	6GHz_HPS(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.39899	34.29	PK-U	37.8	-21.6	0	50.49	-	-	-	-	68.2	-17.71	0	100	H
10.39693	34.41	PK-U	37.8	-21.6	0	50.61	-	-	-	-	68.2	-17.59	0	100	V
* 15.60247	34.45	PK-U	40.1	-21.3	0	53.25	-	-	74	-20.75	-	-	0	100	H
* 15.60508	34.73	PK-U	40.1	-21.3	0	53.53	-	-	74	-20.47	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Mean Reading (dBuV)	Det	3117_0016B717	5GHz_LFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1.65999	47.34	PK-U	28.4	-35.8	0	39.94	-	-	-	-	68.2	-28.26	0	100	H
1.65985	45.95	PK-U	28.4	-35.8	0	38.55	-	-	-	-	68.2	-29.65	0	100	V

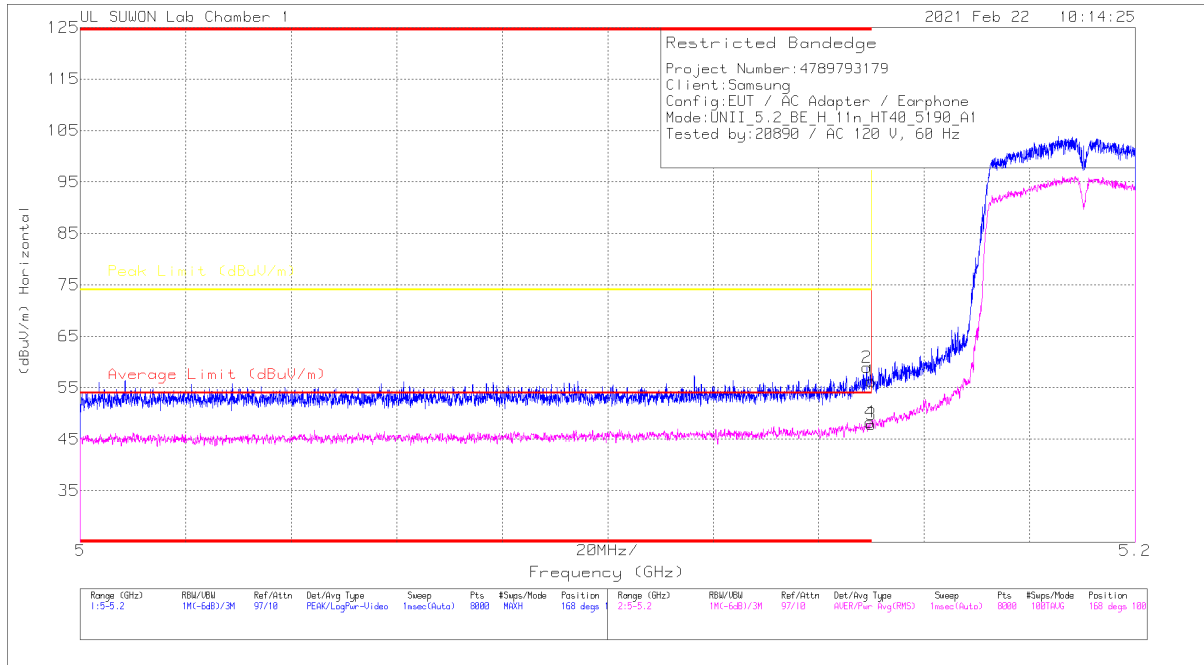
Frequency (GHz)	Mean Reading (dBuV)	Det	3117_0016B717	6GHz_HFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
10.47379	34.44	PK-U	37.9	-22.2	0	50.14	-	-	-	-	68.2	-18.06	0	100	H
10.4736	35.1	PK-U	37.9	-22.2	0	50.8	-	-	-	-	68.2	-17.4	0	100	V
* 15.72554	34.8	PK-U	40.1	-21	0	53.9	-	-	74	-20.1	-	-	0	100	H
* 15.72476	34.6	PK-U	40.1	-21	0	53.7	-	-	74	-20.3	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.1.3. TX ABOVE 1GHz 802.11n HT40 1Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

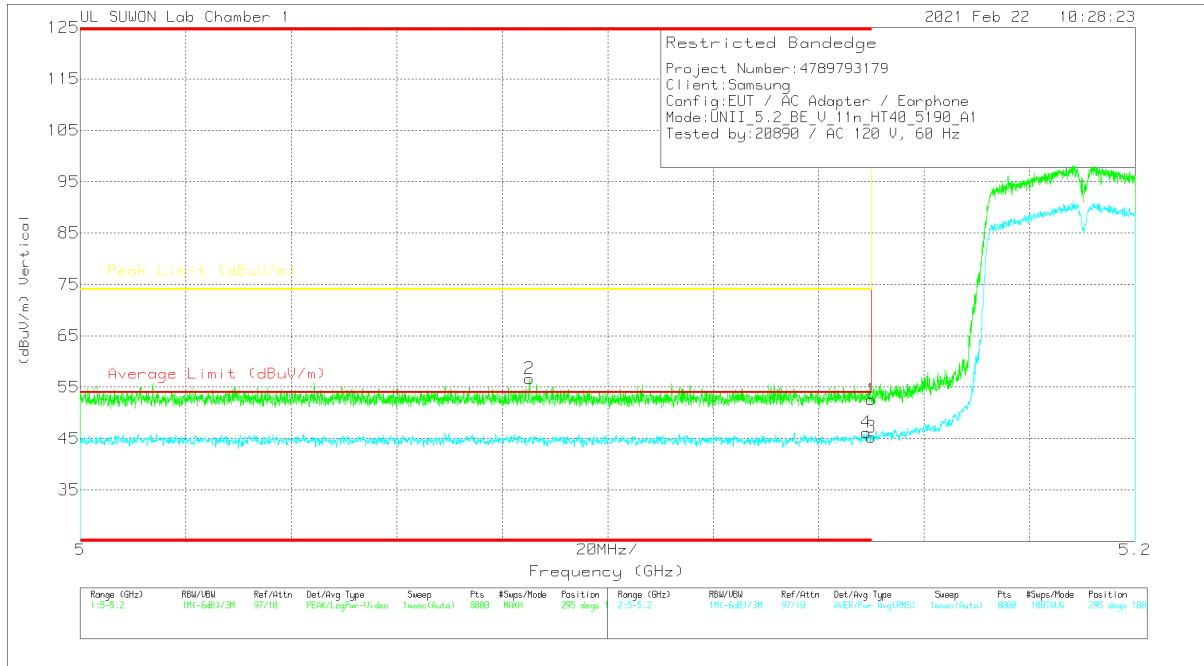
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	43.57	Pk	34.3	-21.6	0	56.27	-	-	74	-17.73	168	100	H
2	* 5.14999	46.35	Pk	34.3	-21.7	0	58.95	-	-	74	-15.05	168	100	H
3	* 5.14999	35.15	RMS	34.3	-21.6	0	47.85	54	-6.15	-	-	168	100	H
4	* 5.14972	35.69	RMS	34.3	-21.7	0	48.29	54	-5.71	-	-	168	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	39.88	Pk	34.3	-21.6	0	52.58	-	-	74	-21.42	295	100	V
2	* 5.08516	44.16	Pk	34.2	-21.7	0	56.66	-	-	74	-17.34	295	100	V
3	* 5.14999	32.6	RMS	34.3	-21.6	0	45.3	54	-8.7	-	-	295	100	V
4	* 5.14899	33.59	RMS	34.3	-21.7	0	46.19	54	-7.81	-	-	295	100	V

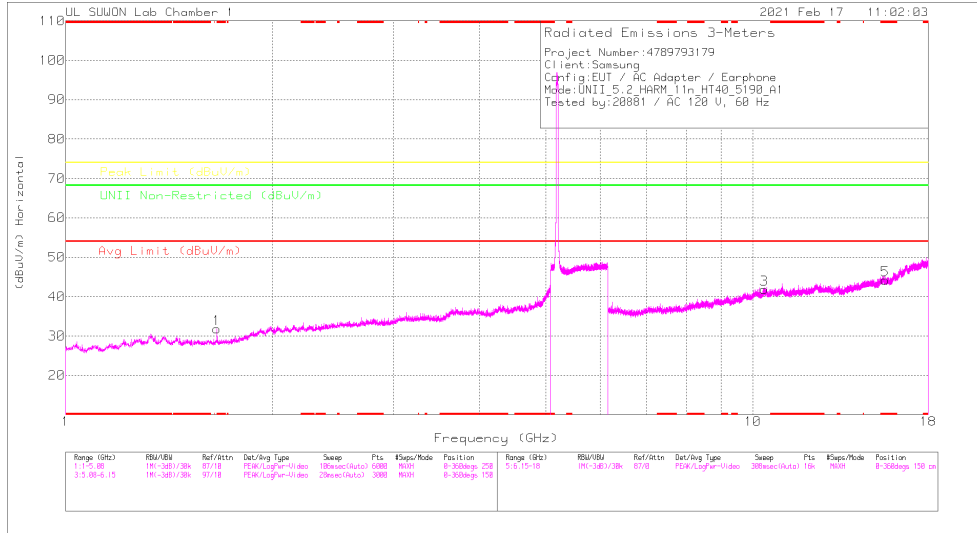
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

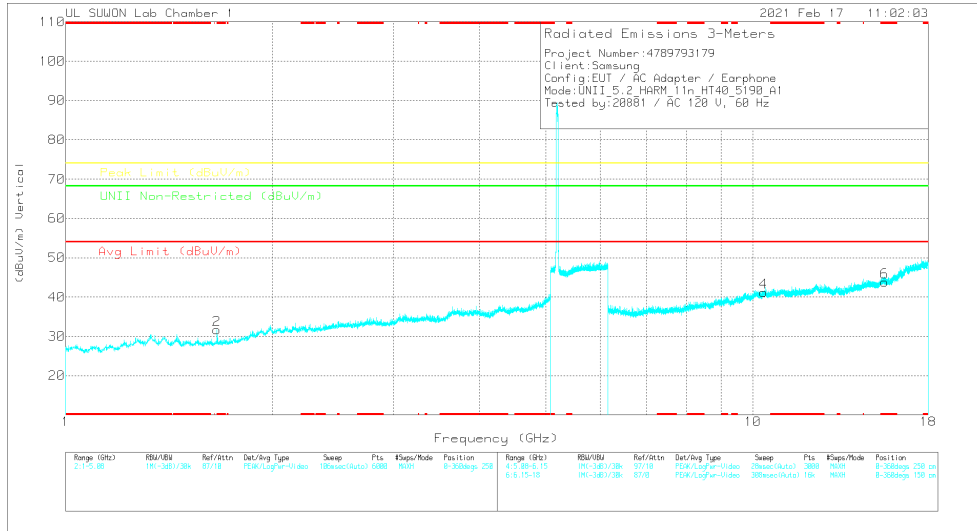
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

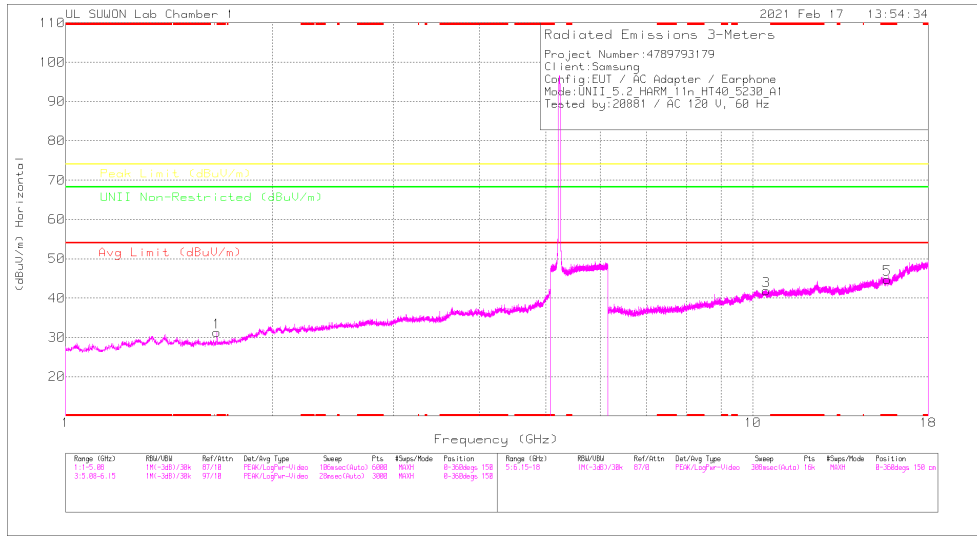
Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	5GHz_HPS(S)	DC Corr (dB)	Corrected Reading (dBuV)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
1.65950	46.2	PK-U	26.4	-35.7	0	38.9	-	-	-	-	68.2	-33.3	0	100	H
1.65957	46.24	PK-U	26.4	-35.7	0	38.94	-	-	-	-	68.2	-29.26	0	100	V

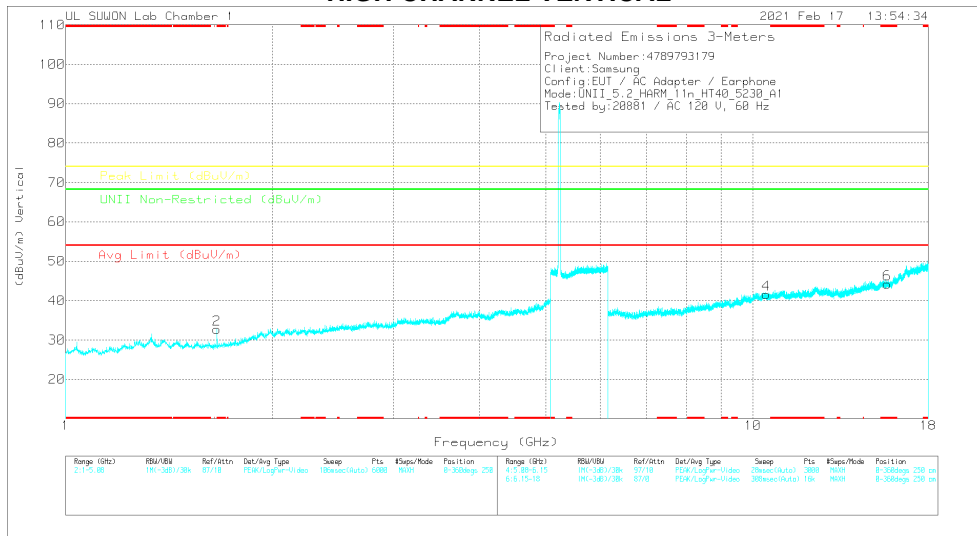
Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	6GHz_HPS(S)	DC Corr (dB)	Corrected Reading (dBuV)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
10.38182	35.11	PK-U	37.8	-21.7	0	51.21	-	-	-	-	68.2	-16.99	0	100	H
10.37969	34.57	PK-U	37.8	-21.7	0	50.67	-	-	-	-	68.2	-17.53	0	100	V
* 15.56779	34.79	PK-U	40.1	-21.1	0	53.79	-	-	74	-20.21	-	-	0	100	H
* 15.56793	34.98	PK-U	40.1	-21.1	0	53.98	-	-	74	-20.02	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	5GHz_LPF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65811	47.01	PK-U	28.4	-35.7	0	38.74	-	-	-	-	68.2	-29.49	0	100	H
1.65999	46.27	PK-U	28.4	-35.5	0	38.87	-	-	-	-	68.2	-29.53	0	100	V

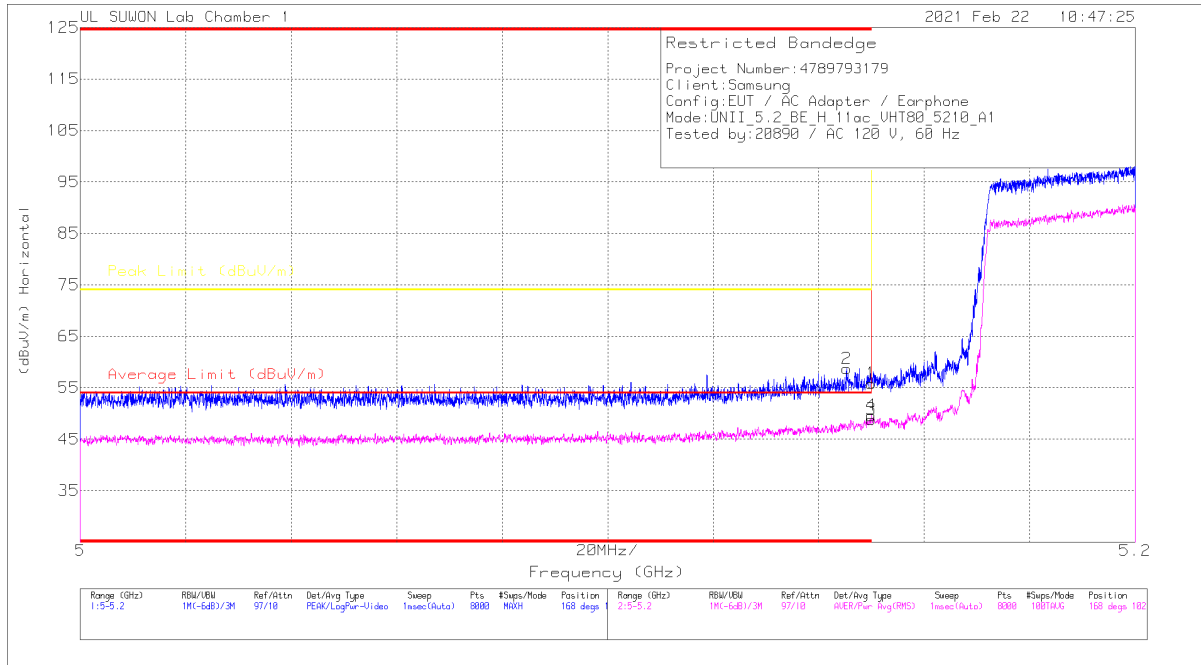
Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	6GHz_HF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.45598	35.19	PK-U	37.8	-21.9	0	51.09	-	-	-	-	68.2	-17.11	0	100	H
10.45753	35.55	PK-U	37.8	-21.9	0	51.45	-	-	-	-	68.2	-16.75	0	100	V
* 15.69575	34.48	PK-U	40.1	-21.1	0	53.48	-	-	74	-20.52	-	-	0	100	H
* 15.69523	34.49	PK-U	40.1	-21	0	53.59	-	-	74	-20.41	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.1.4.TX ABOVE 1GHz 802.11ac VHT80 1Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

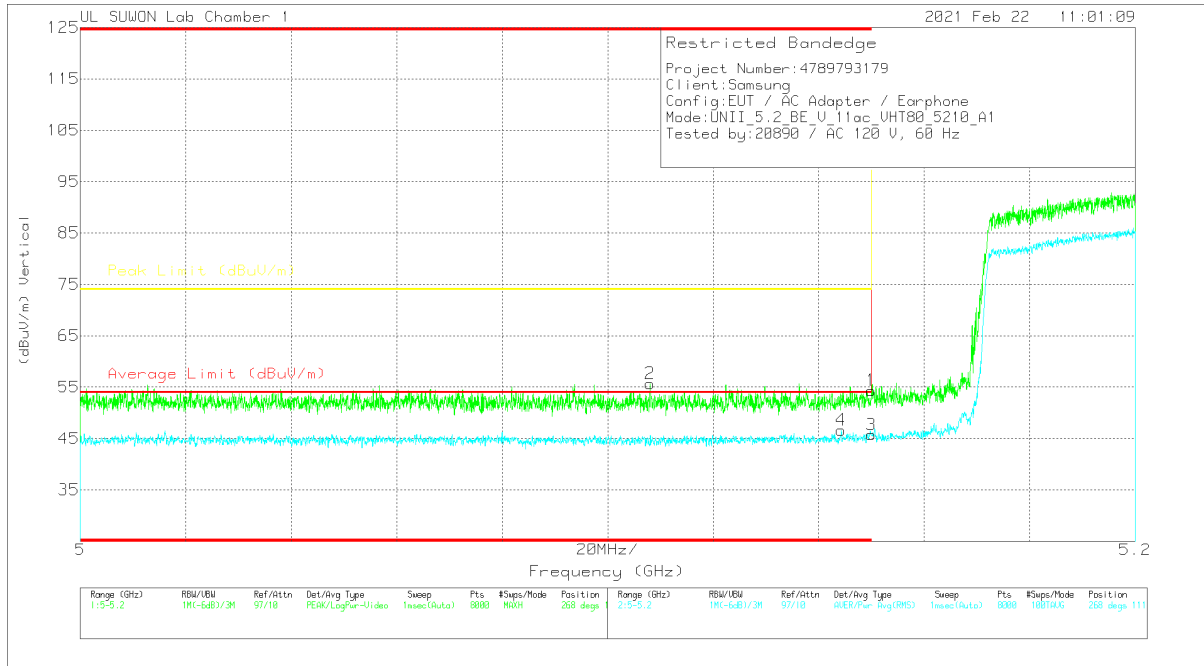
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	43.11	Pk	34.3	-21.6	0	55.81	-	-	74	-18.19	168	102	H
2	* 5.14529	46.12	Pk	34.3	-21.7	0	58.72	-	-	74	-15.28	168	102	H
3	* 5.14999	36	RMS	34.3	-21.6	-16	48.86	54	-5.14	-	-	168	102	H
4	* 5.14994	36.88	RMS	34.3	-21.7	-16	49.64	54	-4.36	-	-	168	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	41.65	Pk	34.3	-21.6	0	54.35	-	-	74	-19.65	268	111	V
2	* 5.10804	43.08	Pk	34.3	-21.7	0	55.68	-	-	74	-18.32	268	111	V
3	* 5.14999	32.89	RMS	34.3	-21.6	.16	45.75	54	-8.25	-	-	268	111	V
4	* 5.14427	33.89	RMS	34.3	-21.7	.16	46.65	54	-7.35	-	-	268	111	V

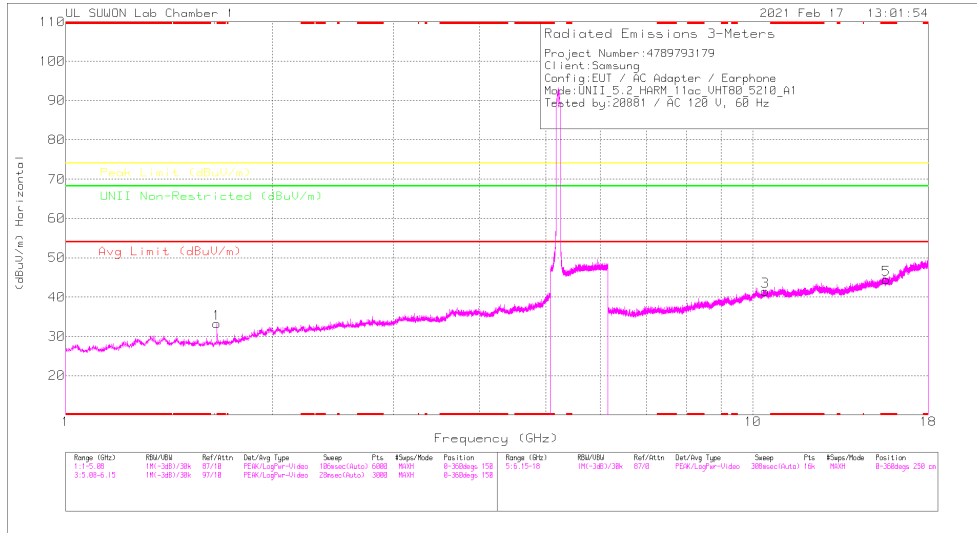
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

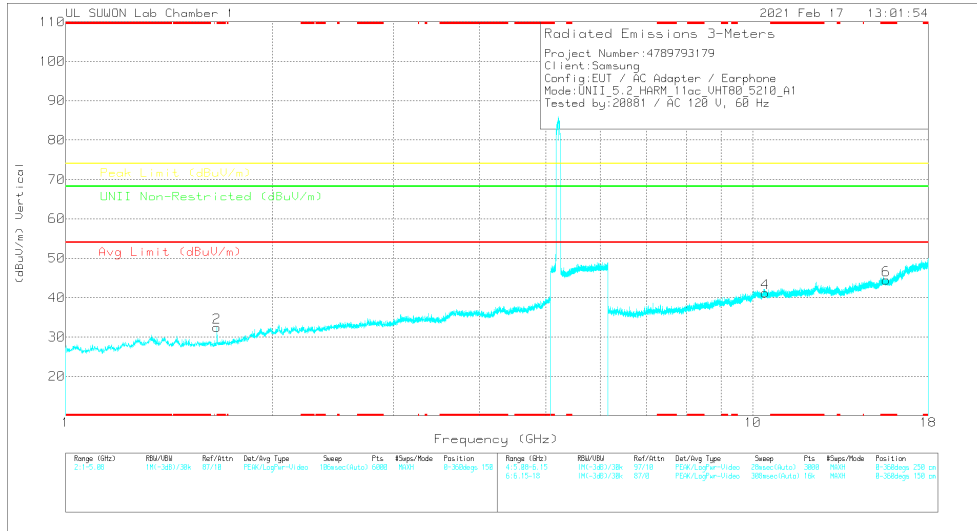
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_LFp(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.55911	46.11	PK-U	28.4	-35.7	0	38.81	-	-	-	-	68.2	-29.39	0	100	H
1.69256	46.69	PK-U	28.4	-35.7	0	39.39	-	-	-	-	68.2	-28.81	0	100	V
10.42366	34.14	PK-U	37.8	-21.6	0	50.34	-	-	-	-	68.2	-17.86	0	100	H
10.42307	33.98	PK-U	37.8	-21.5	0	50.28	-	-	-	-	68.2	-17.92	0	100	V
* 15.63237	35	PK-U	40.1	-21.3	0	53.8	-	-	74	-20.2	-	-	0	100	H
* 15.63196	35.09	PK-U	40.1	-21.3	0	53.89	-	-	74	-20.11	-	-	0	100	V

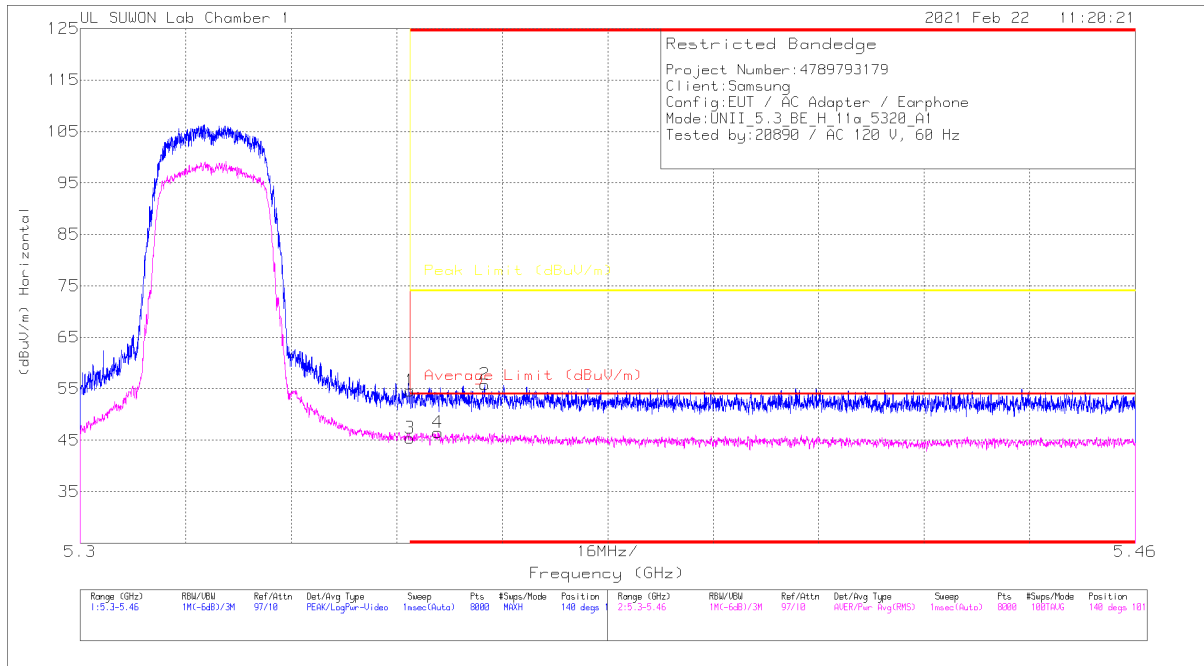
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.2. 5.3 GHz

11.2.1. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

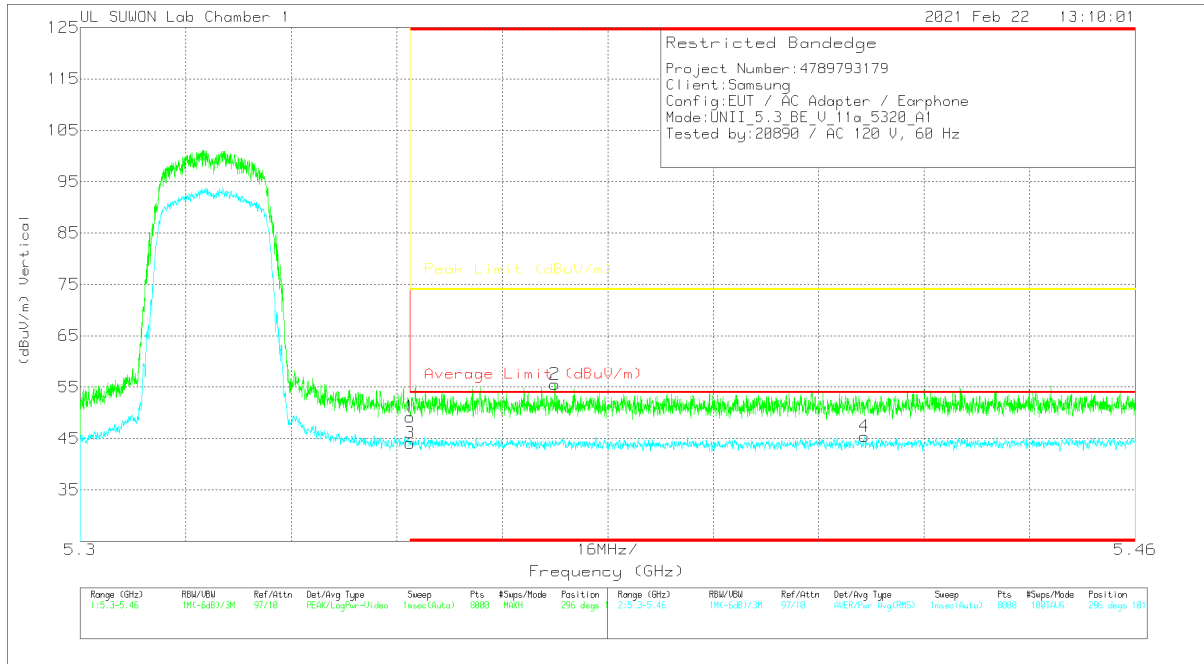
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	41.64	Pk	34.5	-21.5	0	54.64	-	-	74	-19.36	140	101	H
2	* 5.36133	42.84	Pk	34.5	-21.5	0	55.84	-	-	74	-18.16	140	101	H
3	* 5.35001	32.41	RMS	34.5	-21.5	0	45.41	54	-8.59	-	-	140	101	H
4	* 5.35425	33.51	RMS	34.5	-21.5	0	46.51	54	-7.49	-	-	140	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	38.2	Pk	34.5	-21.5	0	49.2	-	-	74	-24.8	296	101	V
2	* 5.37197	42.68	Pk	34.5	-21.6	0	55.68	-	-	74	-18.42	296	101	V
3	* 5.35001	31.13	RMS	34.5	-21.5	0	44.13	54	-9.87	-	-	296	101	V
4	* 5.41892	32.34	RMS	34.5	-21.4	0	45.44	54	-8.56	-	-	296	101	V

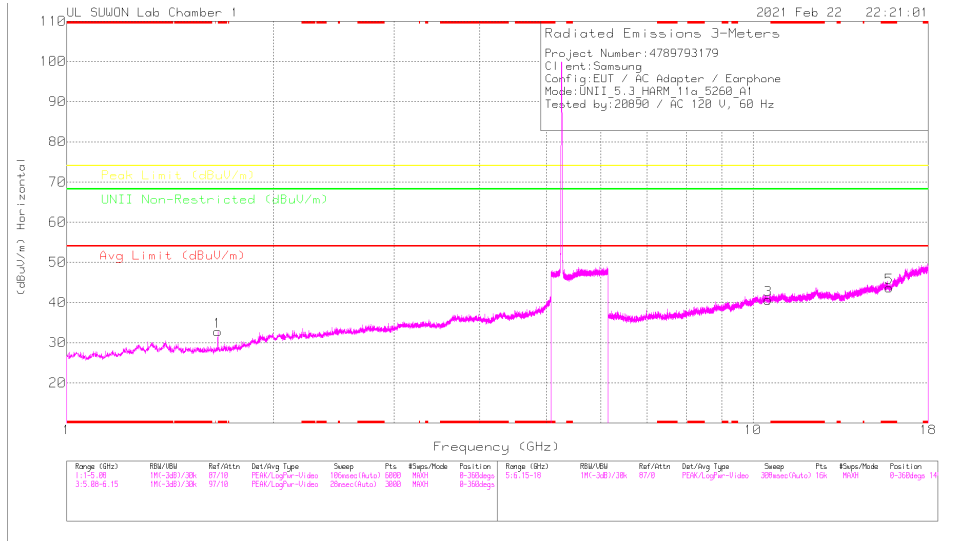
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

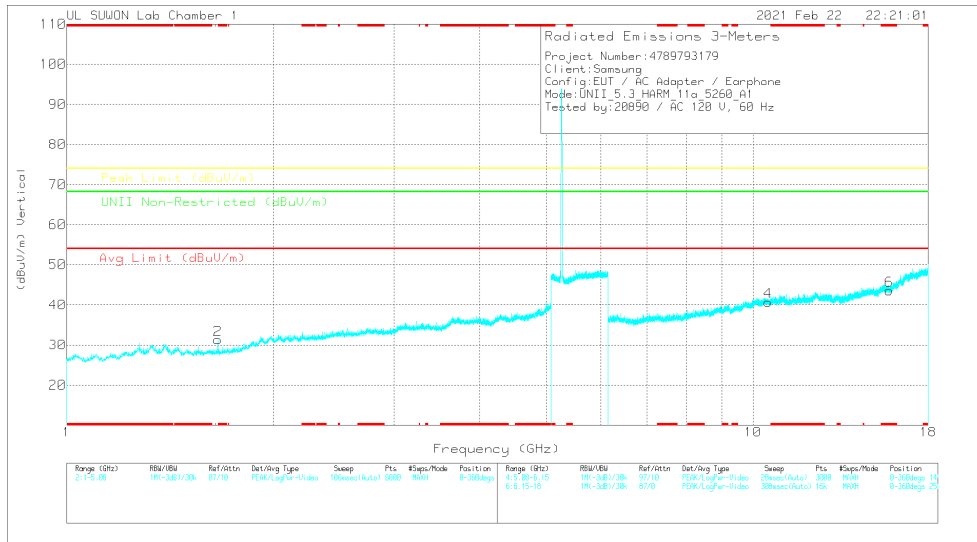
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

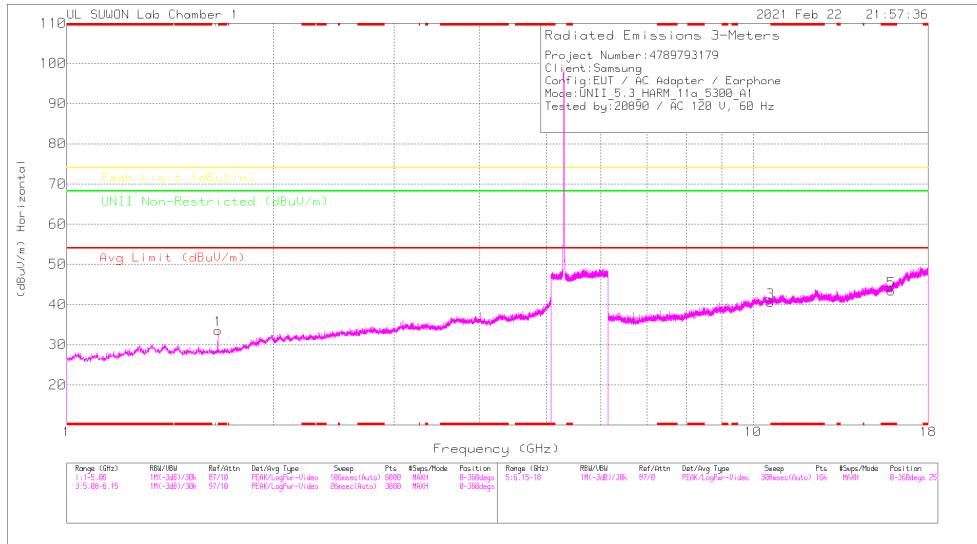
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65642	45.37	PK-U	28.4	-35.7	0	38.07	-	-	-	-	68.2	-30.13	360	100	H
1.65601	46.43	PK-U	28.4	-35.8	0	39.03	-	-	-	-	68.2	-29.17	360	100	V

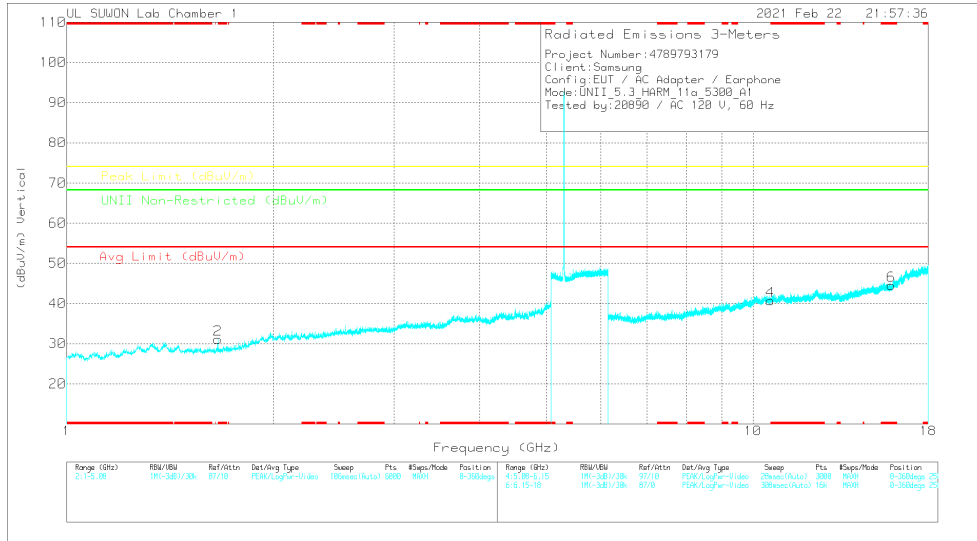
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
10.51923	35.18	PK-U	37.9	-22.6	0	50.48	-	-	-	-	68.2	-17.72	360	100	H
10.52045	35.31	PK-U	37.9	-22.6	0	50.61	-	-	-	-	68.2	-17.59	360	100	V
* 15.78101	34.63	PK-U	40.2	-21.1	0	53.73	-	-	74	-20.27	-	-	360	100	H
* 15.78139	34.43	PK-U	40.2	-21.1	0	53.53	-	-	74	-20.47	-	-	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

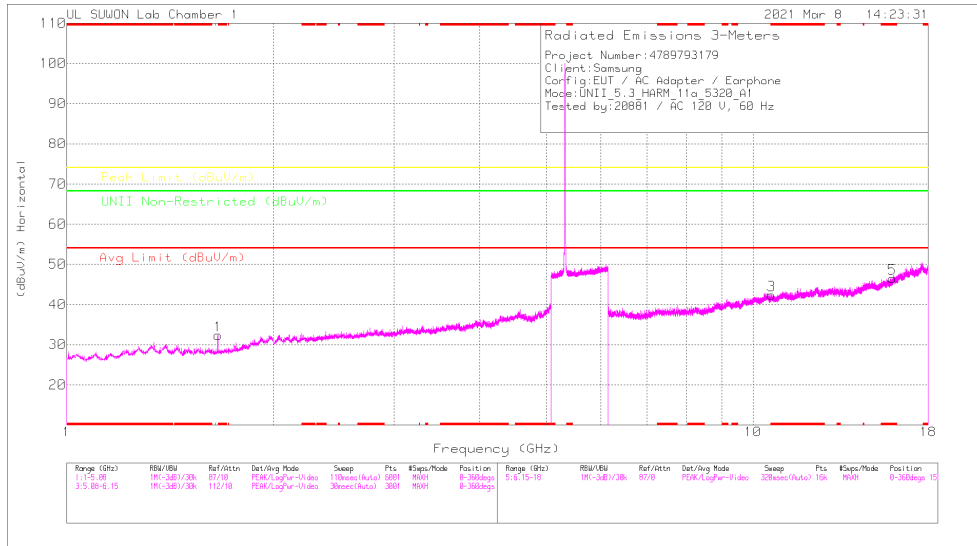
MID CHANNEL DATA

Radiated Emissions

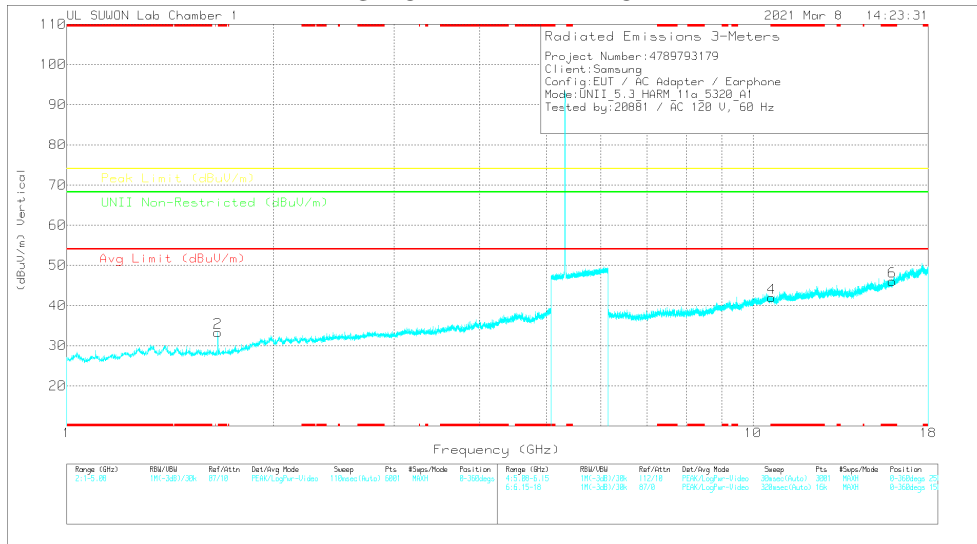
Frequency (GHz)	Max Reading (dBuV)	Det	317_00160717	6GHz_HPS[B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.6581	45.83	PK-U	28.4	-35.7	0	38.53	-	-	-	-	68.2	-29.67	360	100	H
1.65978	45.9	PK-U	28.4	-35.8	0	38.5	-	-	-	-	68.2	-29.7	360	100	V
10.60019	34.49	PK-U	38	-22.5	0	49.99	-	-	74	-24.01	-	-	360	100	H
10.60292	34.55	PK-U	38	-22.4	0	50.15	-	-	74	-23.85	-	-	360	100	V
15.90105	34.32	PK-U	40.3	-20.9	0	53.72	-	-	74	-20.28	-	-	360	100	H
15.89847	34.27	PK-U	40.3	-21	0	53.57	-	-	74	-20.43	-	-	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_LPF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Deg)	Height (m)	Polarity
1.65908	48.79	PK-U	28.4	-36.7	0	59.49	-	-	-	-	68.2	-29.71	360	100	H
1.65997	46.5	PK-U	28.4	-35.8	0	39.1	-	-	-	-	68.2	-29.1	360	100	V

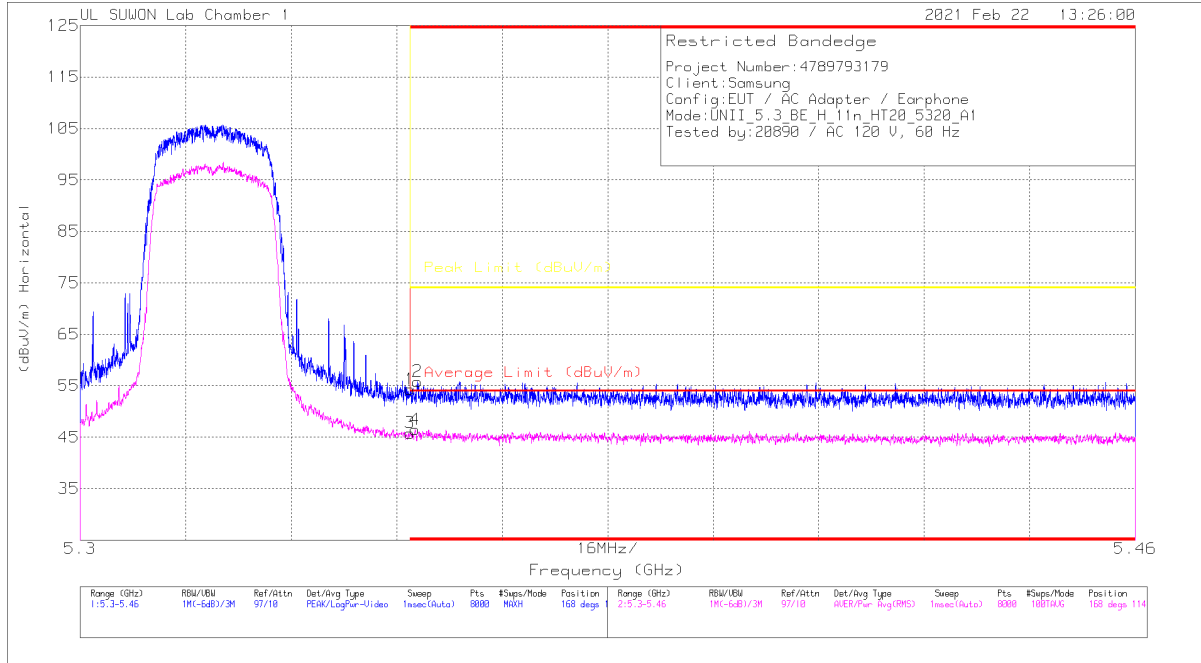
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Deg)	Height (m)	Polarity
* 10.6394	36.73	PK-U	38	-22.2	0	52.53	-	-	74	-21.47	-	-	360	100	H
* 10.63828	36.1	PK-U	38	-22.1	0	52	-	-	74	-22	-	-	360	100	V
* 15.95848	36.47	PK-U	40.4	-20.8	0	56.07	-	-	74	-17.93	-	-	87	100	H
* 15.95808	24.76	ADR	40.4	-20.8	0	44.36	54	-9.64	-	-	-	-	87	100	H
* 15.95871	36.54	PK-U	40.4	-20.8	0	56.14	-	-	74	-17.86	-	-	158	100	V
* 15.96121	24.62	ADR	40.4	-20.8	0	44.22	54	-9.78	-	-	-	-	158	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

11.2.2.TX ABOVE 1GHz 802.11n HT20 1Tx MODE IN THE 5.3GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

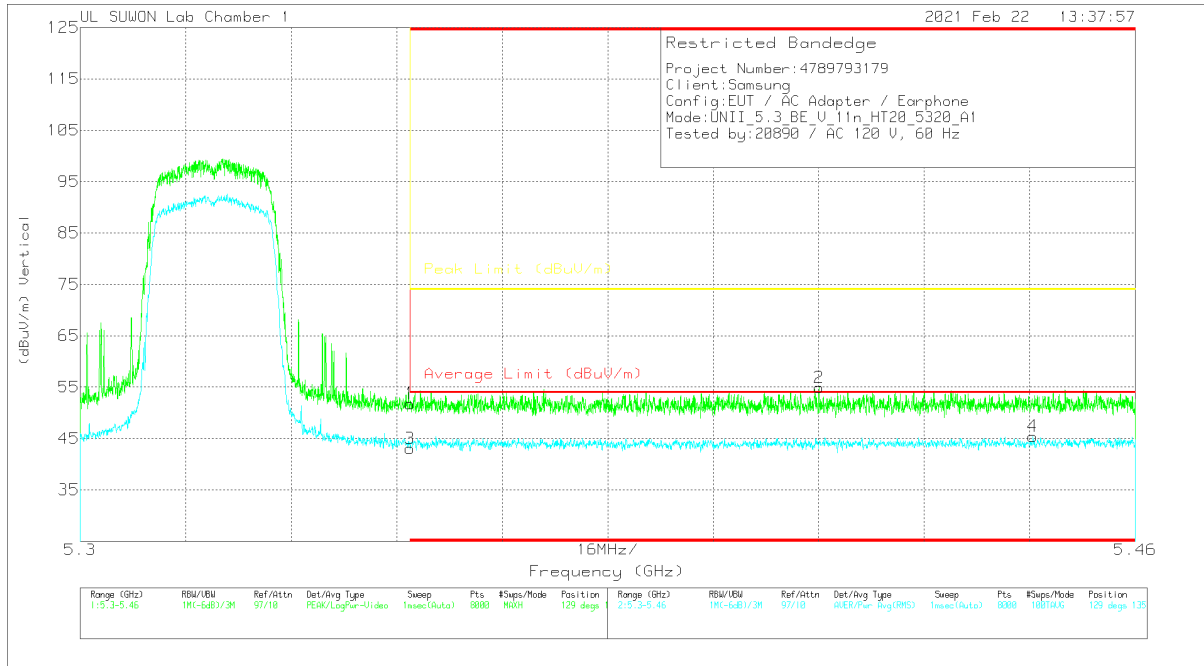
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Acimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	41.29	Pk	34.5	-21.5	0	54.29	-	-	74	-19.71	168	114	H
2	* 5.35119	42.81	Pk	34.5	-21.5	0	55.81	-	-	74	-18.19	168	114	H
3	* 5.35001	32.82	RMS	34.5	-21.5	0	45.82	54	-8.18	-	-	168	114	H
4	* 5.35079	33.47	RMS	34.5	-21.5	0	46.47	54	-7.53	-	-	168	114	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	38.8	Pk	34.5	-21.5	0	51.8	-	-	74	-22.2	129	135	V
2	* 5.41204	41.81	Pk	34.5	-21.4	0	54.91	-	-	74	-19.09	129	135	V
3	* 5.35001	30.05	RMS	34.5	-21.5	0	43.05	54	-10.95	-	-	129	135	V
4	* 5.44446	32.32	RMS	34.5	-21.4	0	45.42	54	-8.58	-	-	129	135	V

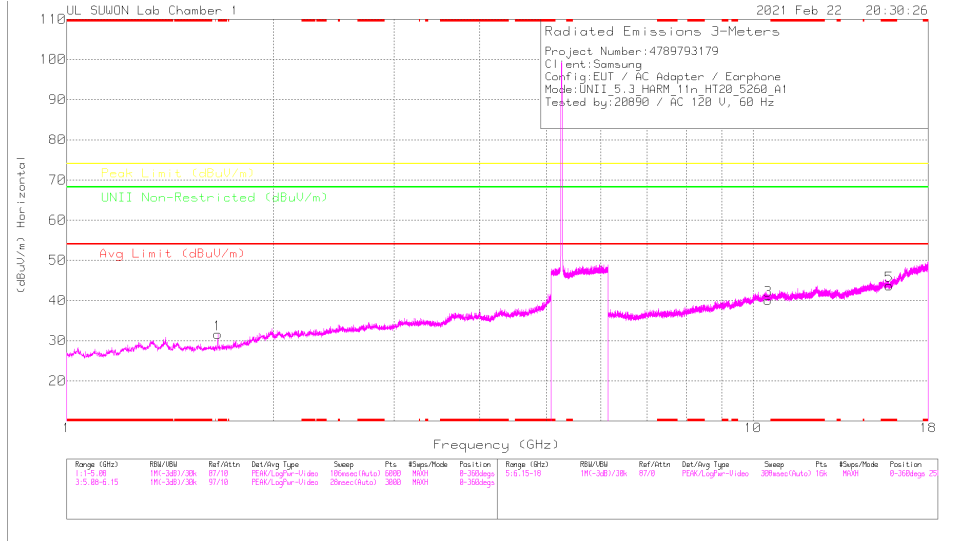
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

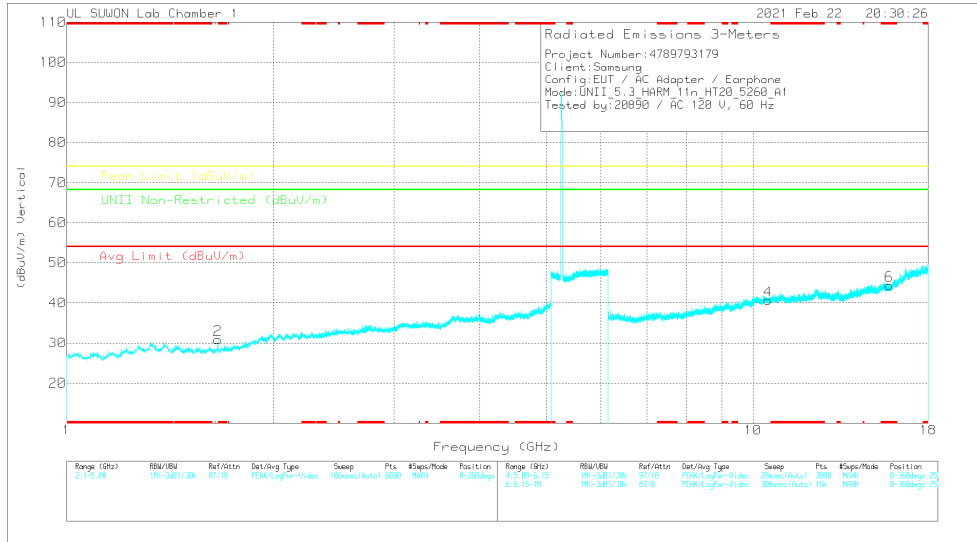
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

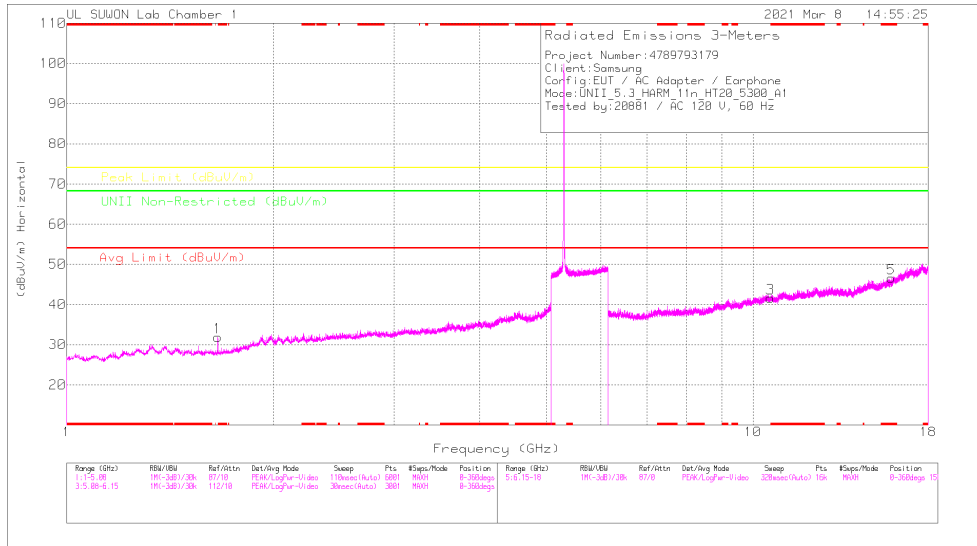
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_00160717	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
1.65962	46.2	PK-U	28.4	-35.7	0	38.9	-	-	-	-	68.2	-29.3	0	100	H
1.65724	46.24	PK-U	28.4	-35.7	0	38.94	-	-	-	-	68.2	-29.26	0	100	V

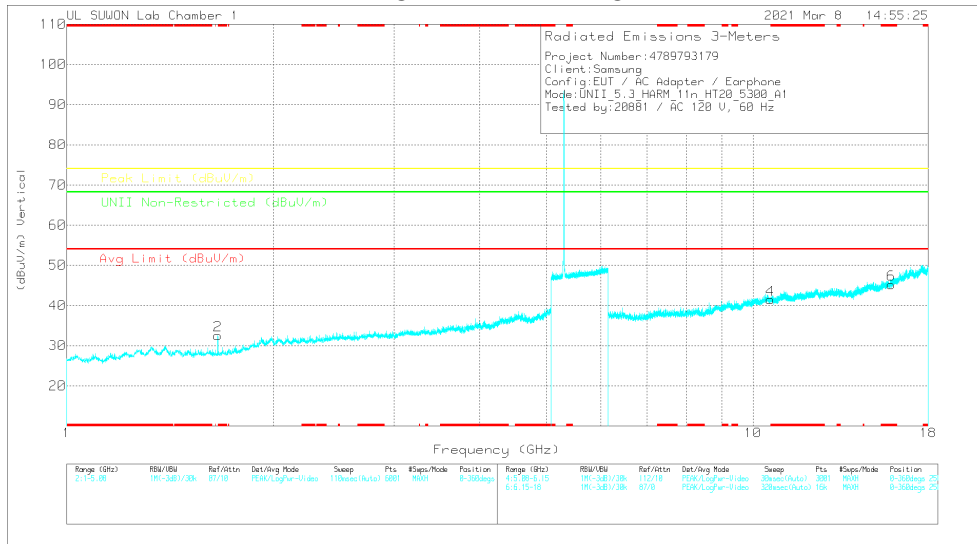
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00160717	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
10.52177	34.95	PK-U	37.9	-22.6	0	50.25	-	-	-	-	68.2	-17.95	0	100	H
10.51979	35.7	PK-U	37.9	-22.6	0	51	-	-	-	-	68.2	-17.2	0	100	V
* 15.78176	34.48	PK-U	40.2	-21.1	0	53.58	-	-	74	-20.42	-	-	0	100	H
* 15.78445	34.39	PK-U	40.2	-21.2	0	53.39	-	-	74	-20.61	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

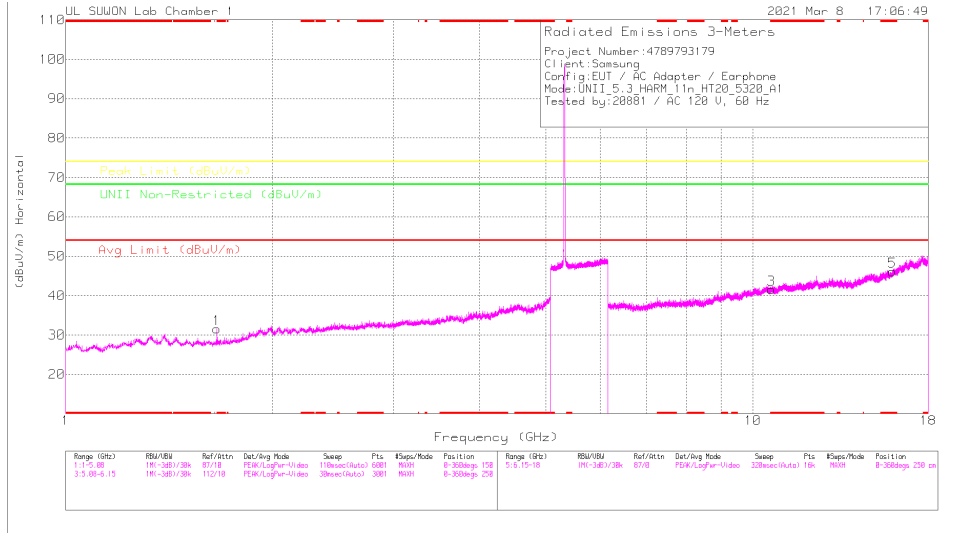
Radiated Emissions

Frequency (GHz)	Misc Reading (dBm)	Det	317_00168717	5GHz_LPFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65961	46.49	PK-U	28.4	-35.7	0	39.19	-	-	-	-	68.2	-29.01	360	100	H
1.65944	46.83	PK-U	28.4	-35.7	0	39.53	-	-	-	-	68.2	-28.67	360	100	V

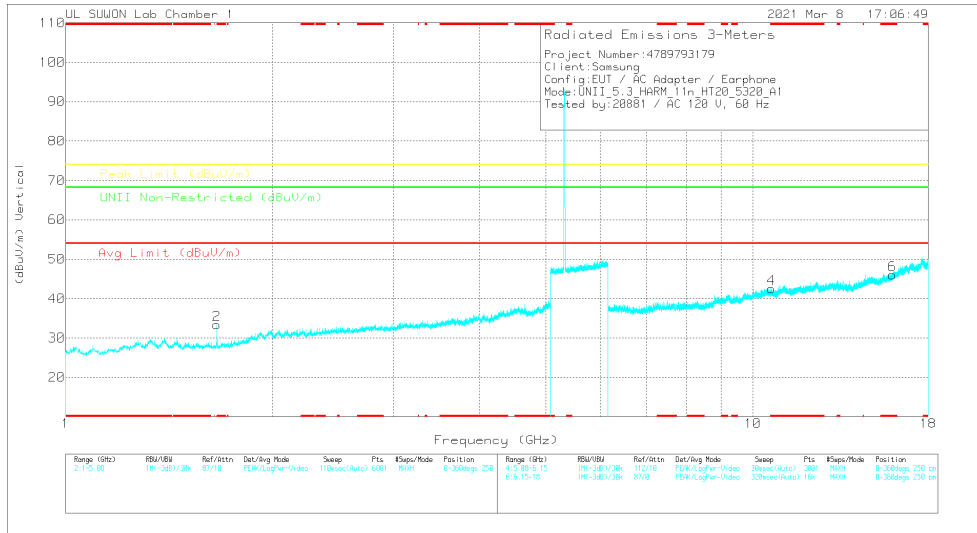
Frequency (GHz)	Misc Reading (dBm)	Det	317_00168717	5GHz_LPFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
10.59629	36.48	PK-U	38	-22.5	0	51.98	-	-	-	-	68.2	-16.22	360	100	H
10.59619	36.03	PK-U	38	-22.5	0	51.53	-	-	-	-	68.2	-16.67	360	100	V
*15.89192	36.8	PK-U	40.3	-21	0	56.1	-	-	74	-17.9	-	-	324	100	H
*15.89826	24.9	ADR	40.3	-21	0	44.2	54	-9.8	74	-	-	-	324	100	H
*15.9002	37.2	PK-U	40.3	-21	0	56.5	-	-	74	-17.5	-	-	129	100	V
*15.89824	24.9	ADR	40.3	-21	0	44.2	54	-9.8	-	-	-	-	129	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	5GHz_LF9dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.66025	47.6	PK-U	28.4	-35.8	0	40.2	-	-	74	-33.8	-	-	116	163	H
* 1.66005	39.05	ADR	28.4	-35.8	0	31.65	54	-22.35	-	-	-	-	116	163	H
* 1.66065	47.05	PK-U	28.4	-35.7	0	39.75	-	-	74	-34.25	-	-	17	277	V
* 1.66005	38.02	ADR	28.4	-35.8	0	30.62	54	-23.38	-	-	-	-	17	277	V

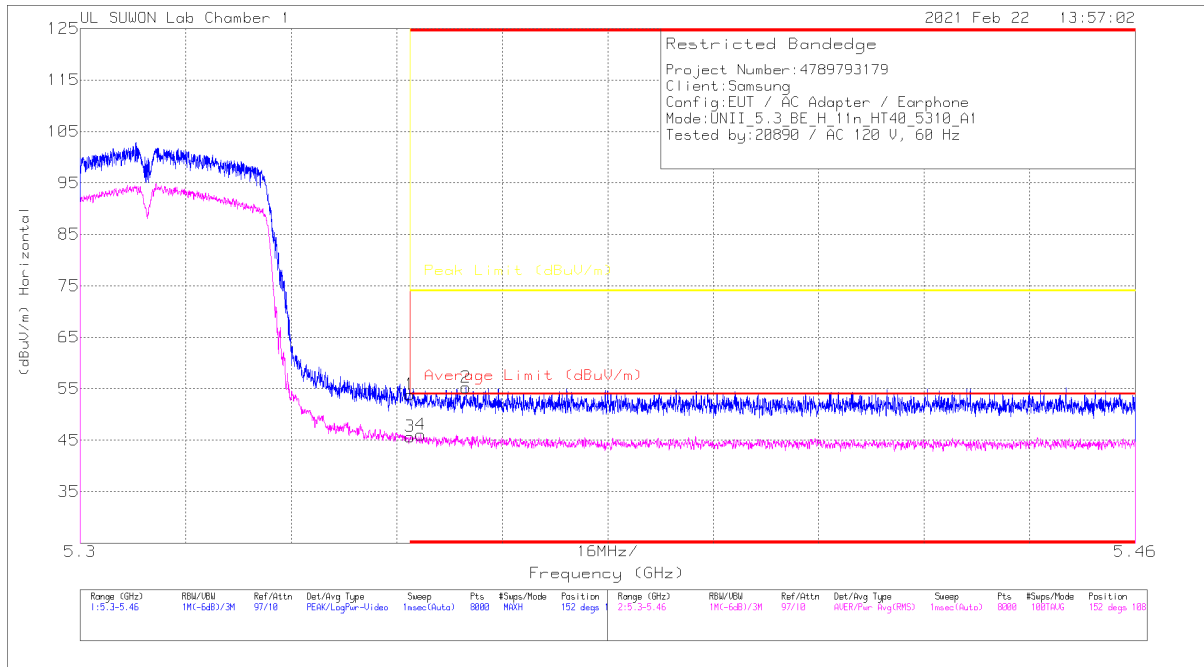
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	6GHz_HF9dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 10.63829	36.17	PK-U	38	-22.1	0	52.07	-	-	74	-21.93	-	-	0	100	H
* 10.63842	36.67	PK-U	38	-22.1	0	52.57	-	-	74	-21.43	-	-	0	100	V
* 15.95703	36.92	PK-U	40.4	-20.9	0	56.42	-	-	74	-17.58	-	-	98	100	H
* 15.95638	24.64	ADR	40.4	-20.9	0	44.14	54	-9.86	-	-	-	-	98	100	H
* 15.95573	36.34	PK-U	40.4	-20.9	0	55.84	-	-	74	-18.16	-	-	125	101	V
* 15.95625	24.56	ADR	40.4	-20.9	0	44.06	54	-9.94	-	-	-	-	125	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

11.2.3. TX ABOVE 1GHz 802.11n HT40 1Tx MODE IN THE 5.3GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

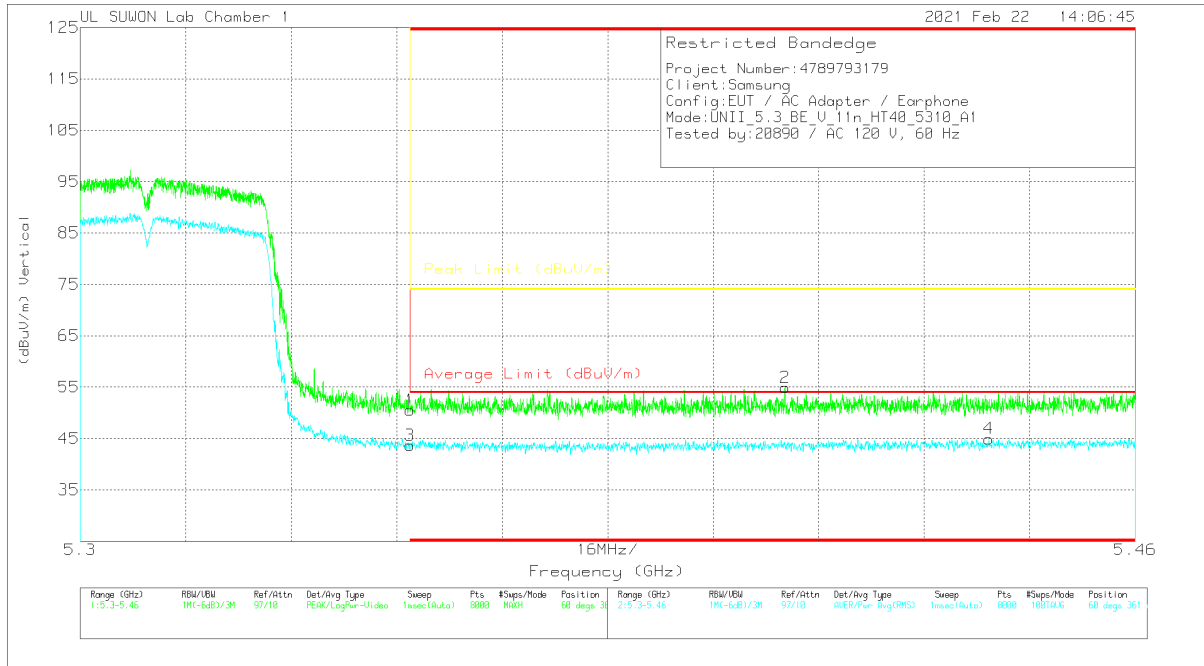
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	40.86	Pk	34.5	-21.5	0	53.96	-	-	74	-20.14	152	108	H
2	* 5.35851	42.25	Pk	34.5	-21.5	0	55.25	-	-	74	-18.75	152	108	H
3	* 5.35001	32.69	RMS	34.5	-21.5	0	45.69	54	-8.31	-	-	152	108	H
4	* 5.35163	33.08	RMS	34.5	-21.5	0	46.08	54	-7.92	-	-	152	108	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	37.5	Pk	34.5	-21.5	0	50.5	-	-	74	-23.5	60	361	V
2	* 5.40688	41.92	Pk	34.5	-21.5	0	54.92	-	-	74	-19.08	60	361	V
3	* 5.35001	30.65	RMS	34.5	-21.5	0	43.65	54	-10.35	-	-	60	361	V
4	* 5.4378	31.86	RMS	34.5	-21.4	0	44.96	54	-9.04	-	-	60	361	V

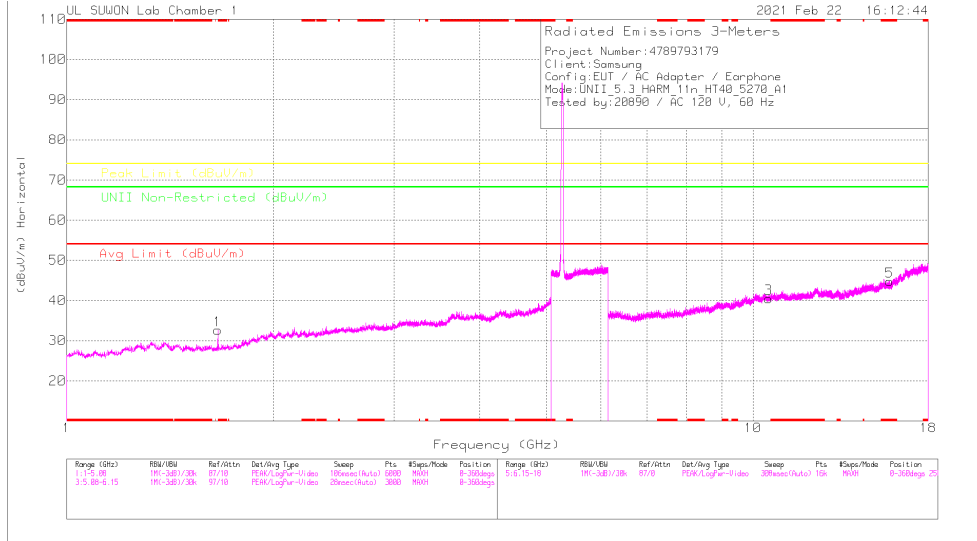
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

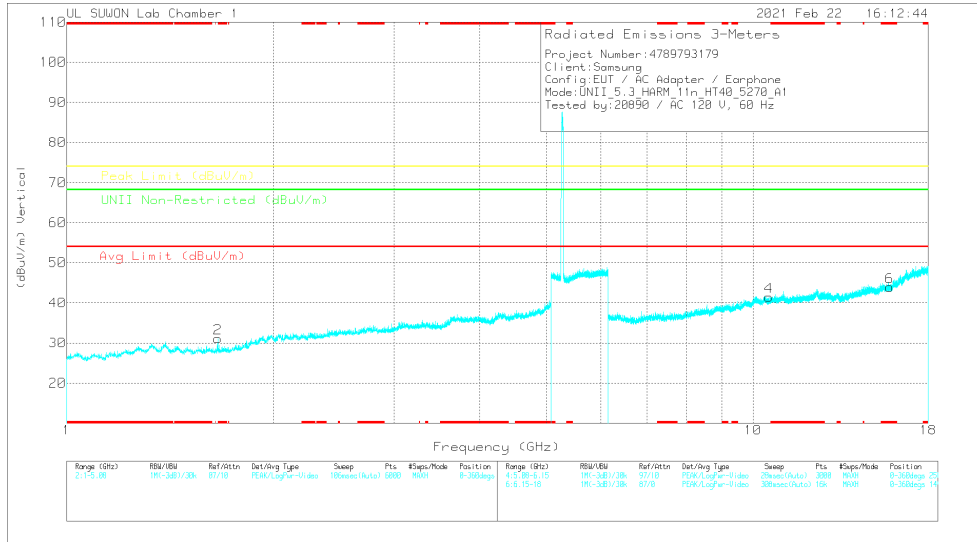
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

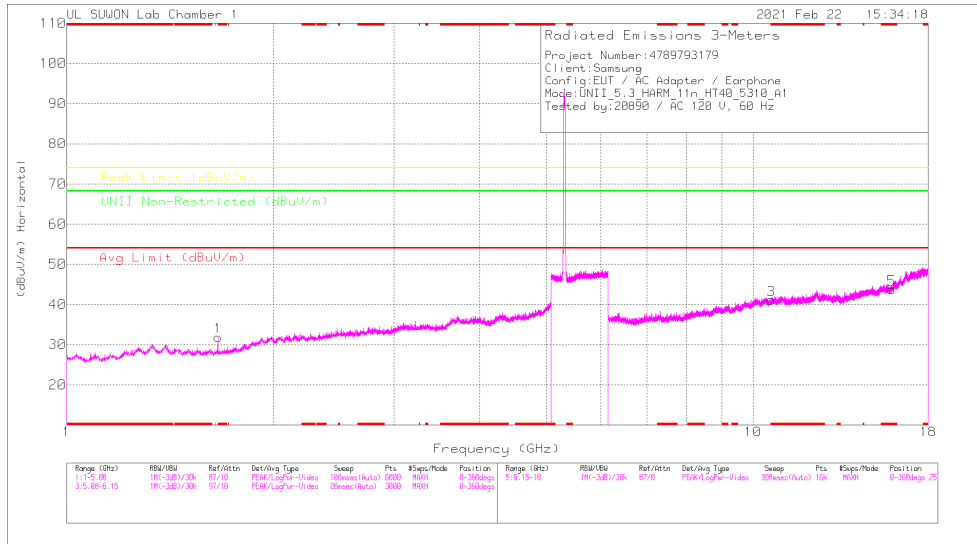
LOW CHANNEL DATA

Radiated Emissions

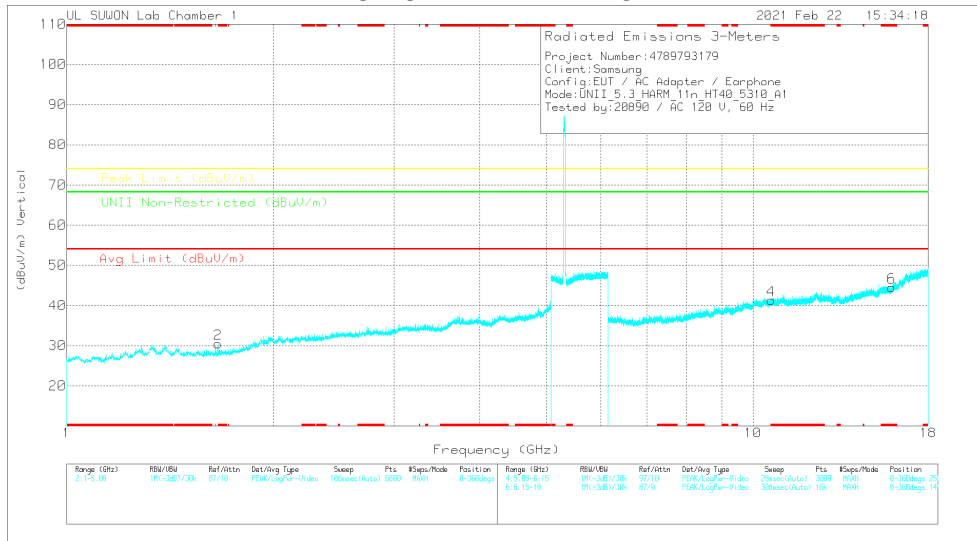
Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	5GHz_LFp(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1.65438	45.63	PK-U	28.4	-35.8	0	38.43	-	-	-	-	68.2	-29.77	360	100	H
1.65887	45.57	PK-U	28.4	-35.7	0	38.27	-	-	-	-	68.2	-29.93	360	100	V
Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	6GHz_HFp(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
10.54582	35.16	PK-U	37.9	-22.6	0	50.46	-	-	-	-	68.2	-17.74	360	100	H
10.53999	34.75	PK-U	37.9	-22.6	0	50.05	-	-	-	-	68.2	-18.15	360	100	V
* 15.80926	33.86	PK-U	40.2	-21.2	0	52.86	-	-	74	-21.14	-	-	360	100	H
* 15.81836	33.59	PK-U	40.2	-21.1	0	52.69	-	-	74	-21.31	-	-	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	5GHz_LF(R)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65197	45.58	PK-U	28.4	-35.7	0	38.28	-	-	-	-	68.2	-29.92	360	100	H
1.6519	46.62	PK-U	28.4	-35.7	0	39.32	-	-	-	-	68.2	-28.88	360	100	V

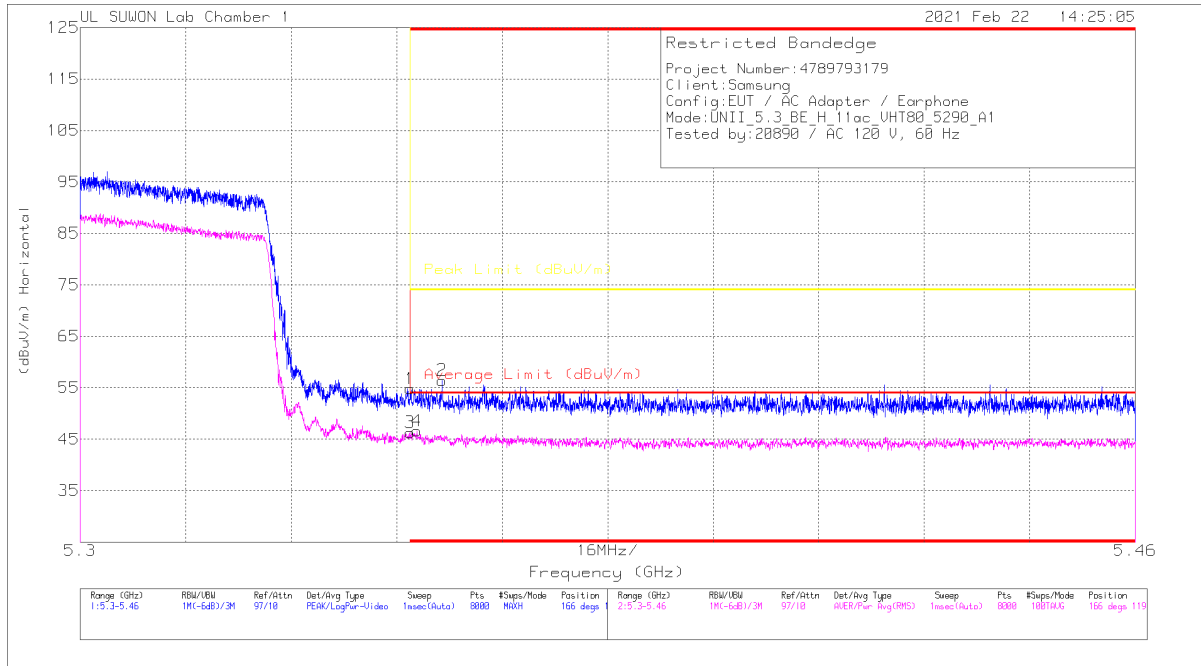
Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	6GHz_HPS(R)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 10.63167	35.06	PK-U	38	-22.1	0	50.36	-	-	74	-23.04	-	-	360	100	H
* 10.61917	34.73	PK-U	38	-22.3	0	50.43	-	-	74	-23.57	-	-	360	100	V
* 15.92698	33.94	PK-U	40.3	-20.9	0	53.34	-	-	74	-20.66	-	-	360	100	H
* 15.93065	34.19	PK-U	40.3	-21	0	53.49	-	-	74	-20.51	-	-	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.2.4. TX ABOVE 1GHz 802.11ac VHT80 1Tx MODE IN THE 5.3GHz BAND

RESTRICTED BANDEDGE (High CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

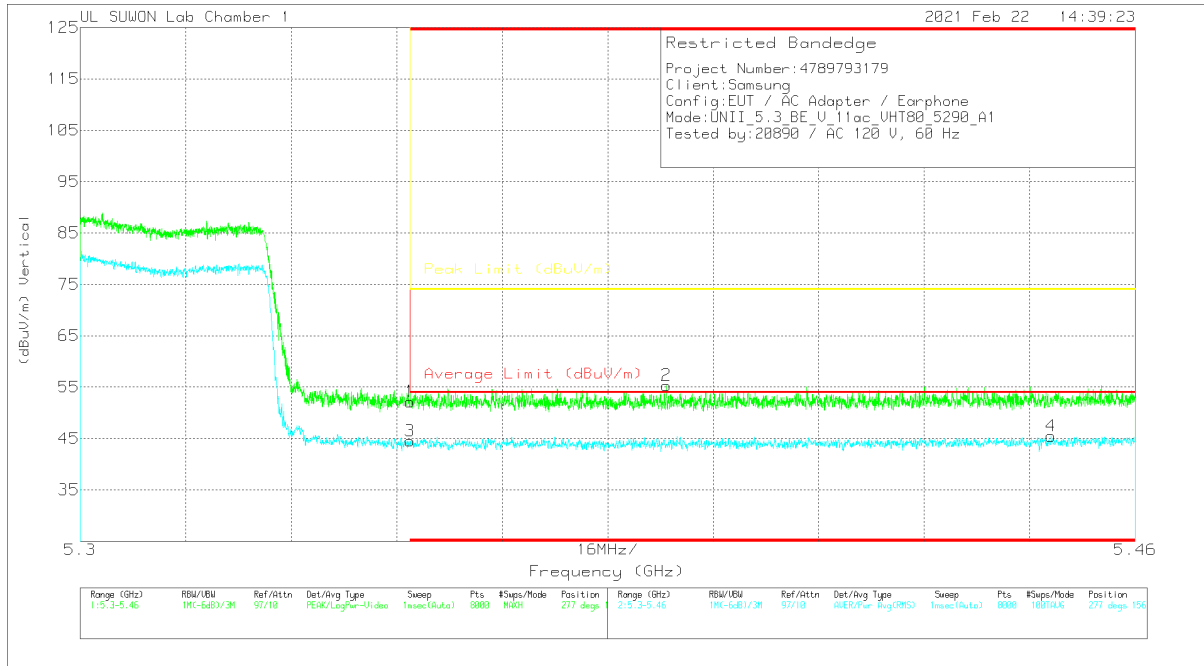


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT(dB)	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	41.79	PK	34.5	-21.5	0	54.79	-	-	74	-19.21	166	119	H
2	* 5.35487	43.41	PK	34.5	-21.5	0	56.41	-	-	74	-17.59	166	119	H
3	* 5.35001	33.12	RMS	34.5	-21.5	-16	46.28	54	-7.72	-	-	166	119	H
4	* 5.35109	33.45	RMS	34.5	-21.5	-16	46.61	54	-7.39	-	-	166	119	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



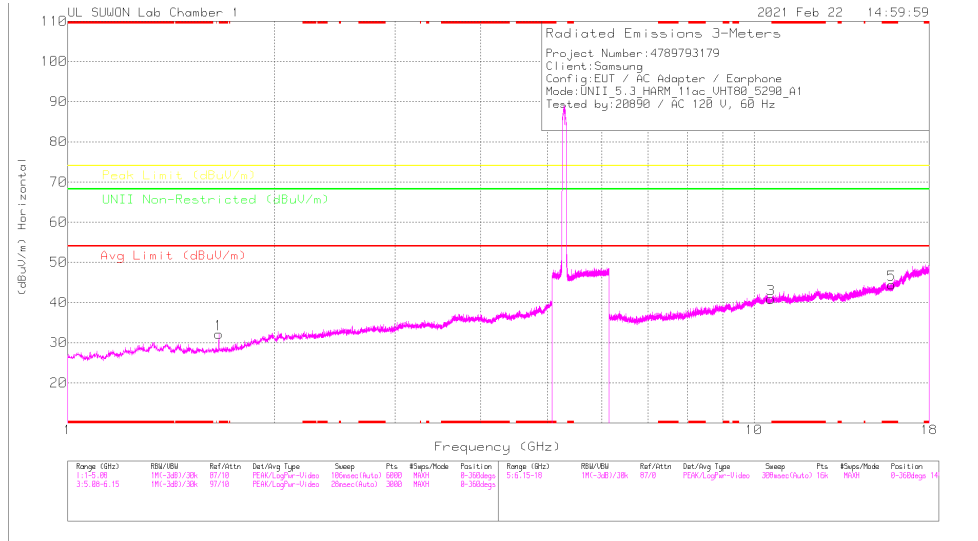
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	39.15	Pk	34.5	-21.5	0	52.15	-	-	74	-21.85	277	156	V
2	* 5.38889	42.34	Pk	34.5	-21.5	0	55.34	-	-	74	-18.66	277	156	V
3	* 5.35001	31.36	RMS	34.5	-21.5	.16	44.62	54	-9.48	-	-	277	156	V
4	* 5.44722	32.31	RMS	34.5	-21.5	.16	45.47	54	-8.53	-	-	277	156	V

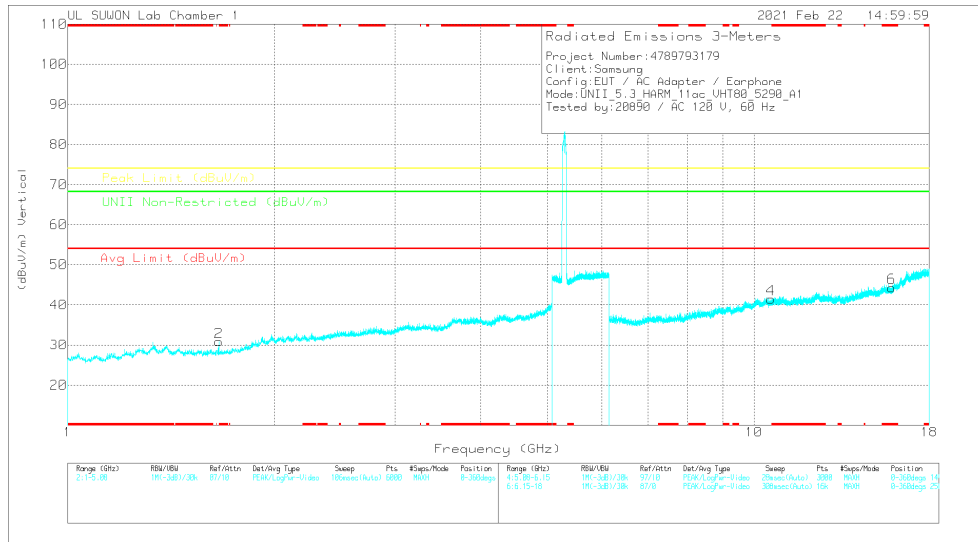
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168717	5GHz_LF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (m)	Polarity
1.66	46.28	PK-U	28.4	-35.8	0	38.88	-	-	-	-	68.2	-29.32	360	100	H
1.65947	46.32	PK-U	28.4	-35.7	0	39.02	-	-	-	-	68.2	-29.18	360	100	V

Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168717	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (m)	Polarity
10.58639	34.71	PK-U	37.9	-22.6	0	50.01	-	-	-	-	68.2	-18.19	360	100	H
10.57604	34.92	PK-U	37.9	-22.7	0	50.12	-	-	-	-	68.2	-18.08	360	100	V
*15.3809	33.69	PK-U	40.3	-21	0	52.99	-	74	-	-21.01	-	-	360	100	H
*15.86909	34.2	PK-U	40.3	-20.9	0	53.6	-	-	74	-20.4	-	-	360	100	V

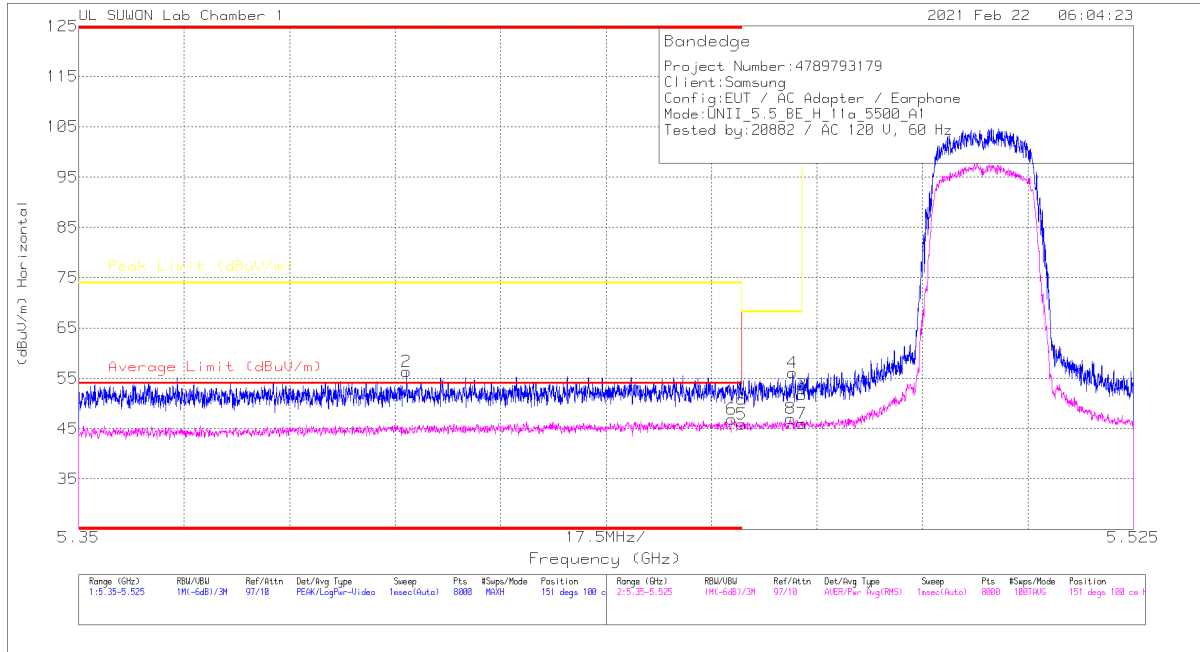
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.3. 5.5-5.6 GHz

11.3.1. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.5 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

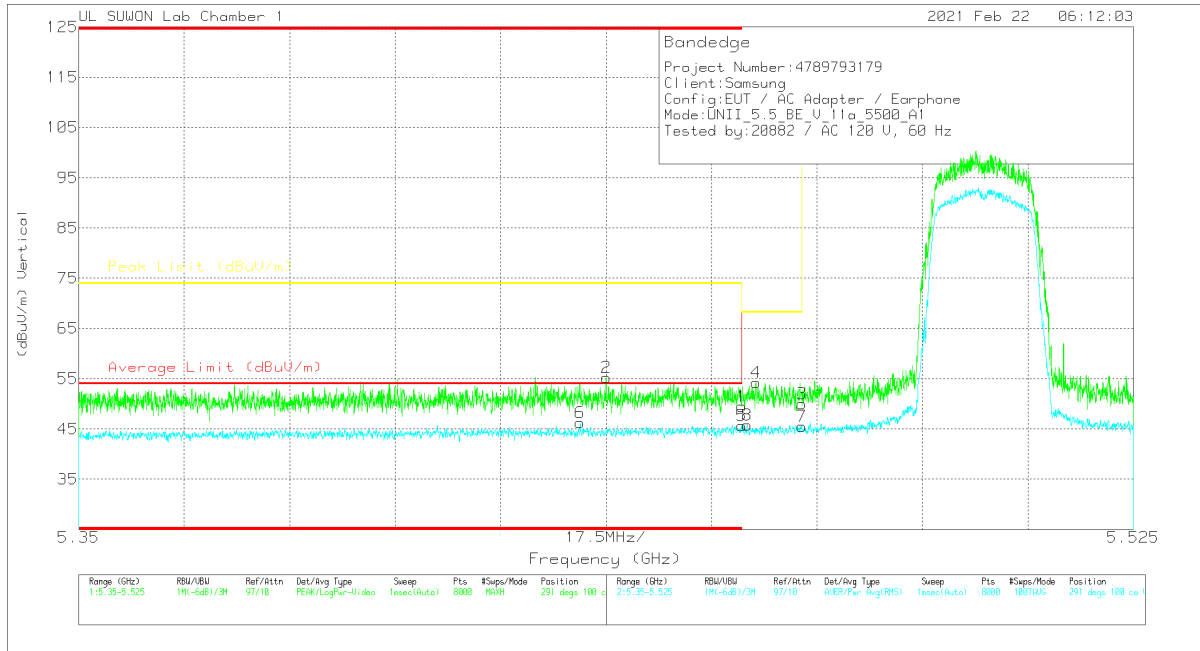
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	37.65	Pk	34.5	-21.3	0	50.85	-	-	74	-23.15	151	100	H
2	* 5.40439	43.32	Pk	34.5	-21.5	0	56.32	-	-	74	-17.68	151	100	H
3	5.46998	38.5	Pk	34.5	-21.3	0	51.7	-	-	68.2	-16.5	151	100	H
4	5.46845	42.86	Pk	34.5	-21.3	0	56.06	-	-	68.2	-12.14	151	100	H
5	* 5.45998	32.68	RMS	34.5	-21.3	0	45.88	54	-8.12	-	-	151	100	H
6	* 5.45832	33.7	RMS	34.5	-21.3	0	46.9	54	-7.1	-	-	151	100	H
7	5.46998	32.81	RMS	34.5	-21.3	0	46.01	-	-	-	-	151	100	H
8	5.46812	33.76	RMS	34.5	-21.3	0	46.96	-	-	-	-	151	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degree)	Height (cm)	Polarity
1	* 5.45998	36.26	Pk	34.5	-21.3	0	49.46	-	-	74	-24.54	291	100	V
2	* 5.43751	42.21	Pk	34.5	-21.5	0	55.21	-	-	74	-18.79	291	100	V
3	5.46998	36.78	Pk	34.5	-21.3	0	49.98	-	-	68.2	-18.22	291	100	V
4	5.46237	41.15	Pk	34.5	-21.4	0	54.25	-	-	68.2	-13.95	291	100	V
5	* 5.45998	32.44	RMS	34.5	-21.3	0	45.64	54	-8.36	-	-	291	100	V
6	* 5.4332	33.18	RMS	34.5	-21.4	0	46.28	54	-7.72	-	-	291	100	V
7	5.46998	32.36	RMS	34.5	-21.3	0	45.56	-	-	-	-	291	100	V
8	5.46092	32.71	RMS	34.5	-21.4	0	45.81	-	-	-	-	291	100	V

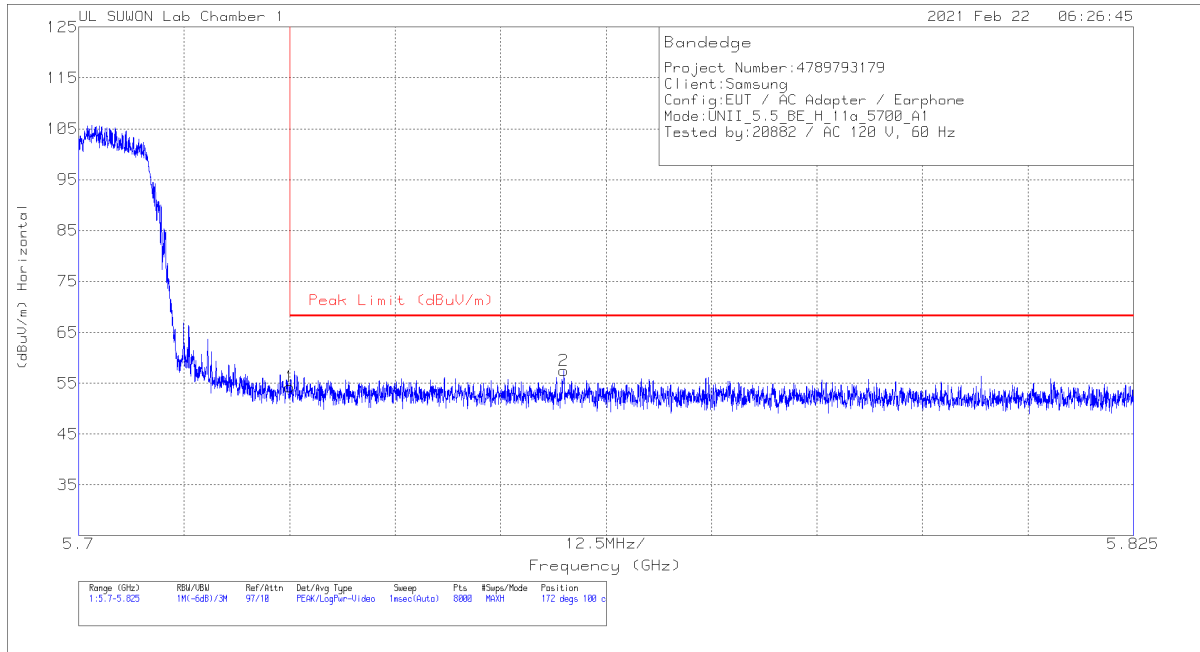
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

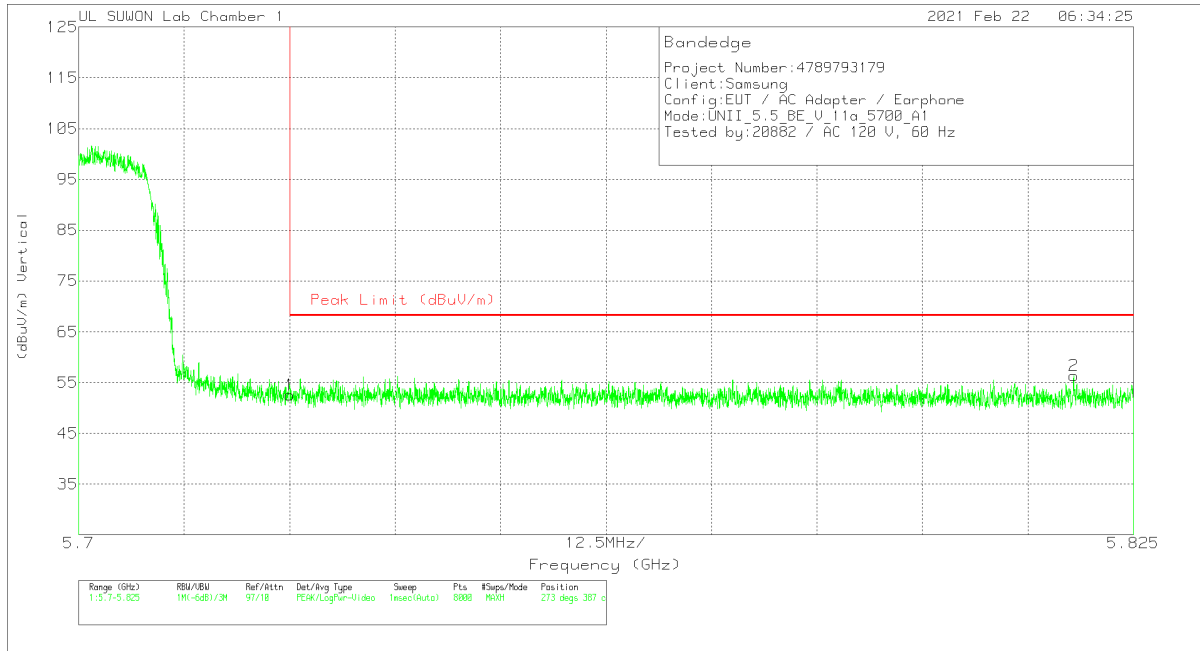


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.23	Pk	34.9	-20.9	0	54.23	68.2	-13.97	172	100	H
2	5.75749	43.53	Pk	34.9	-21	0	57.43	68.2	-10.77	172	100	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



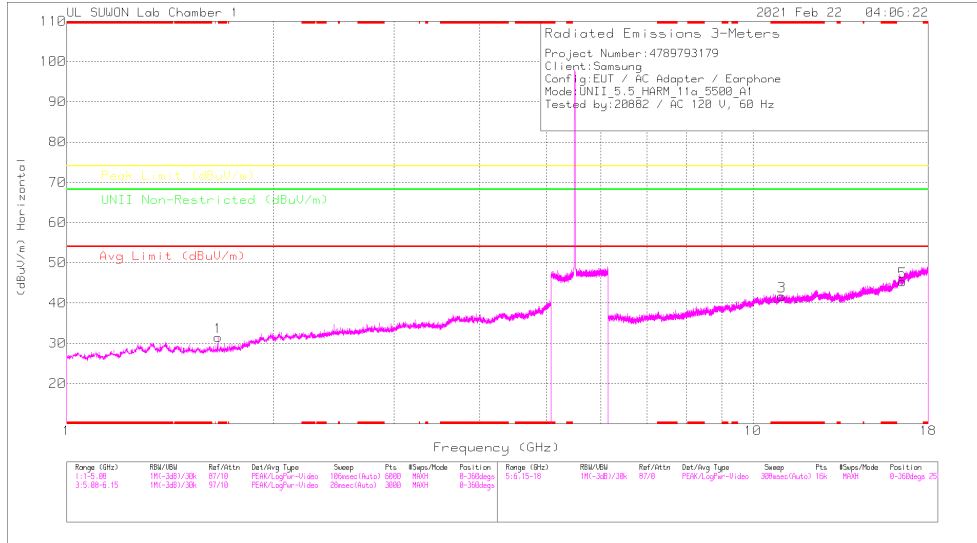
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.52	Pk	34.9	-20.9	0	52.52	68.2	-15.68	273	387	V
2	5.81792	42.32	Pk	35	-21	0	56.32	68.2	-11.88	273	387	V

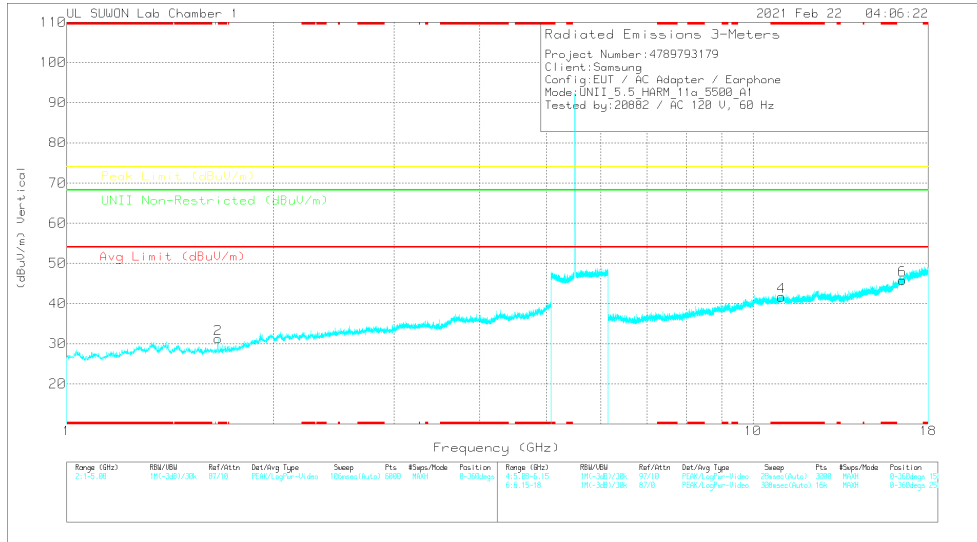
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note. Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

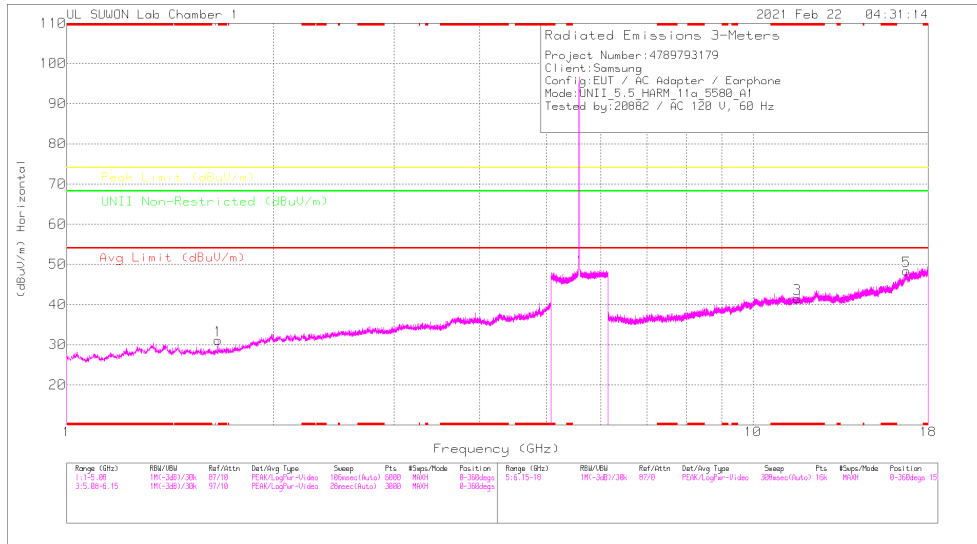
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	5GHz_LF59E	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65992	46.1	PK-U	28.4	-35.8	0	38.7	-	-	-	-	68.2	-29.5	360	100	H
1.65947	45.8	PK-U	28.4	-35.7	0	38.5	-	-	-	-	68.2	-29.7	360	100	V

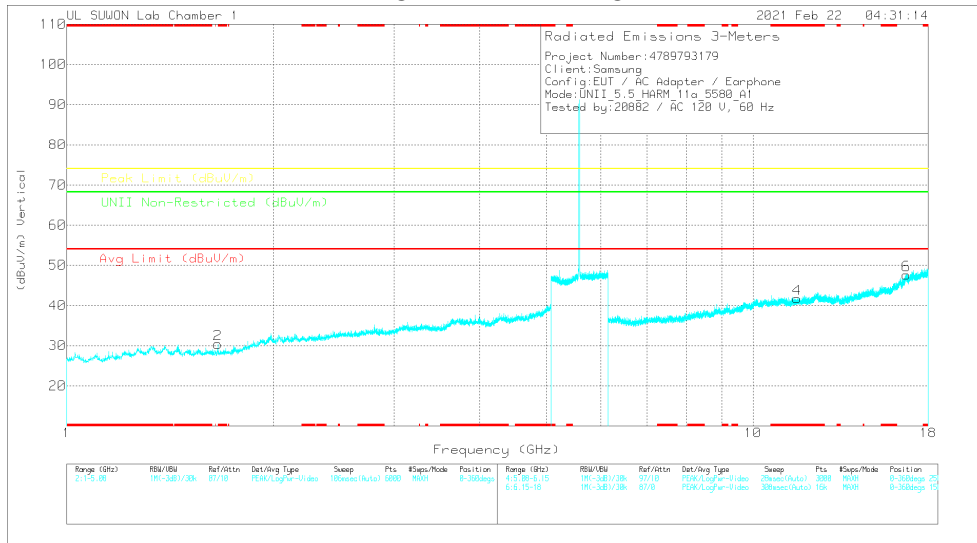
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	6GHz_HF59E	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.00533	34.94	PK-U	38.2	-21.7	0	51.34	-	-	74	-22.68	-	-	360	100	H
* 11.00696	34.62	PK-U	38.2	-21.7	0	51.12	-	-	74	-22.98	-	-	360	100	V
16.50288	33.36	PK-U	41.1	-19.6	0	54.86	-	-	-	-	68.2	-13.34	360	100	H
16.50363	34.11	PK-U	41.1	-19.6	0	55.61	-	-	-	-	68.2	-12.59	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

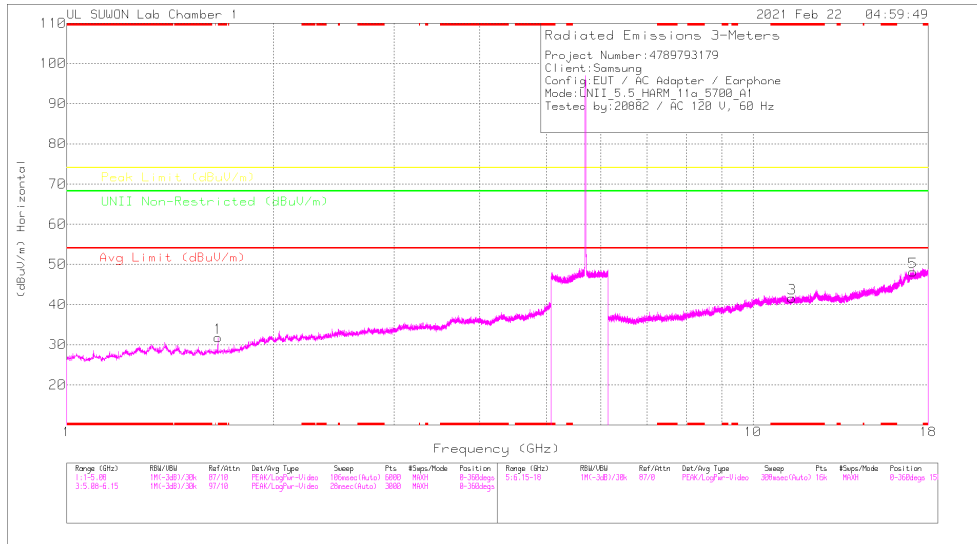
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_LFPS[B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65927	43.94	PK-U	28.4	-35.7	0	38.54	-	-	-	-	68.2	-29.66	360	100	H
1.65885	46.72	PK-U	28.4	-35.7	0	39.42	-	-	-	-	68.2	-28.76	360	100	V

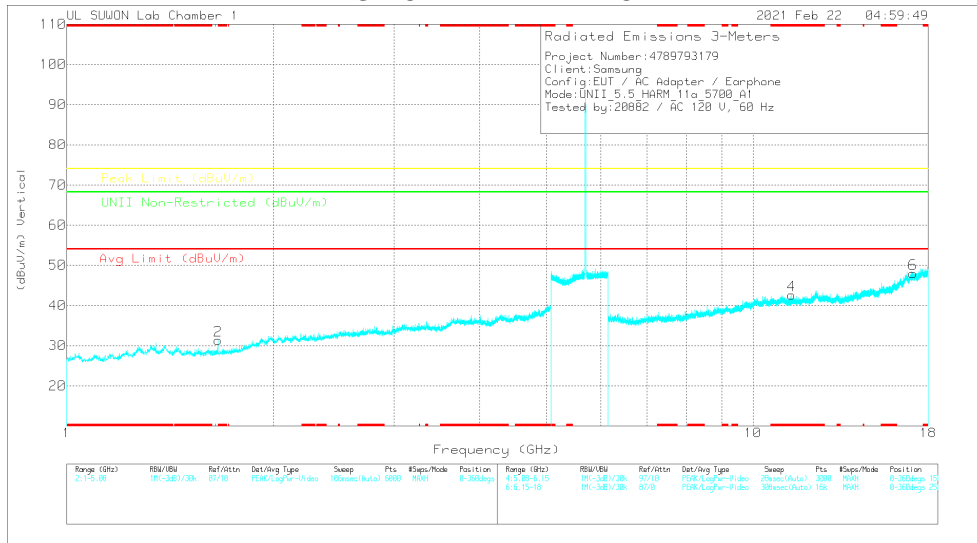
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HFPS[B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.60596	35.11	PK-U	38.3	-22	0	51.41	-	-	74	-22.59	-	-	360	100	H
* 11.60522	34.64	PK-U	38.3	-22	0	50.94	-	-	74	-23.06	-	-	360	100	V
16.73263	33.99	PK-U	41.5	-17.8	0	57.69	-	-	-	-	68.2	-10.51	360	100	H
16.73377	32.84	PK-U	41.5	-17.8	0	56.54	-	-	-	-	68.2	-11.66	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

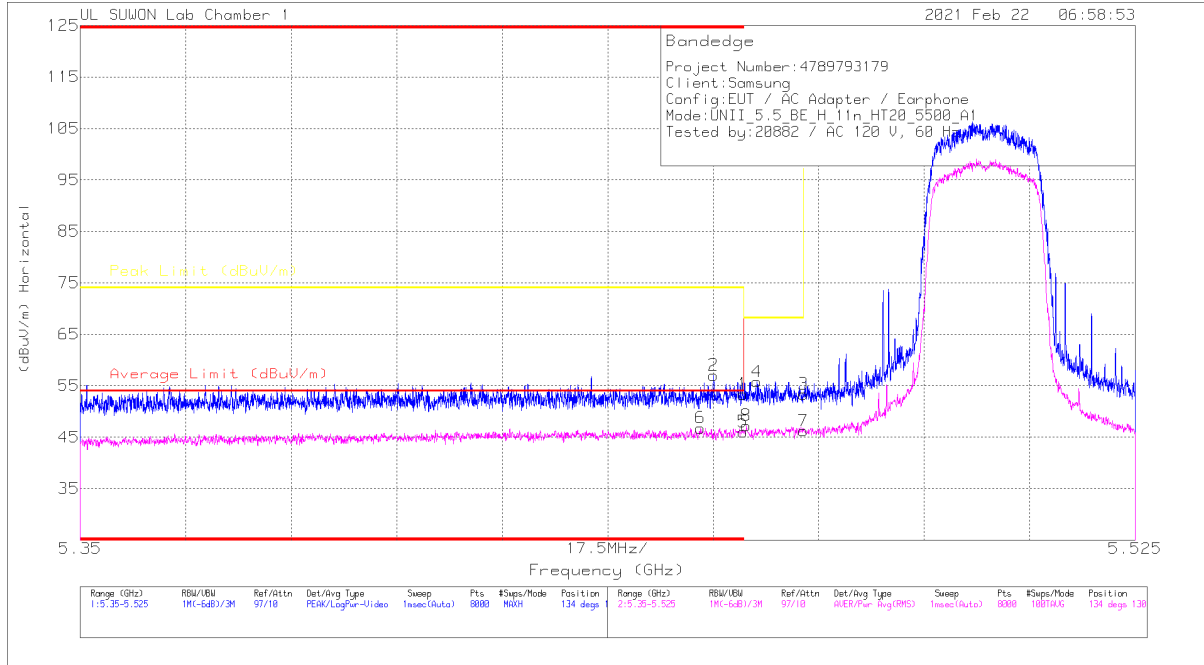
Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	6GHz_HPS[B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65898	46.35	PK-U	28.4	-35.7	0	39.05	-	-	-	-	68.2	-29.15	360	100	H
1.65998	46.72	PK-U	28.4	-35.8	0	39.32	-	-	-	-	68.2	-28.88	360	100	V
Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	6GHz_HPS[B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.39526	34.55	PK-U	38.4	-22.2	0	50.75	-	-	74	-23.25	-	-	360	100	H
* 11.39678	34.43	PK-U	38.4	-22.1	0	50.73	-	-	74	-23.27	-	-	360	100	V
* 17.1053	33.13	PK-U	41.5	-17.6	0	57.03	-	-	-	-	68.2	-11.17	360	100	H
17.10427	33.66	PK-U	41.5	-17.5	0	57.66	-	-	-	-	68.2	-10.54	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.3.2. TX ABOVE 1GHz 802.11n HT20 1Tx MODE IN THE 5.5GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

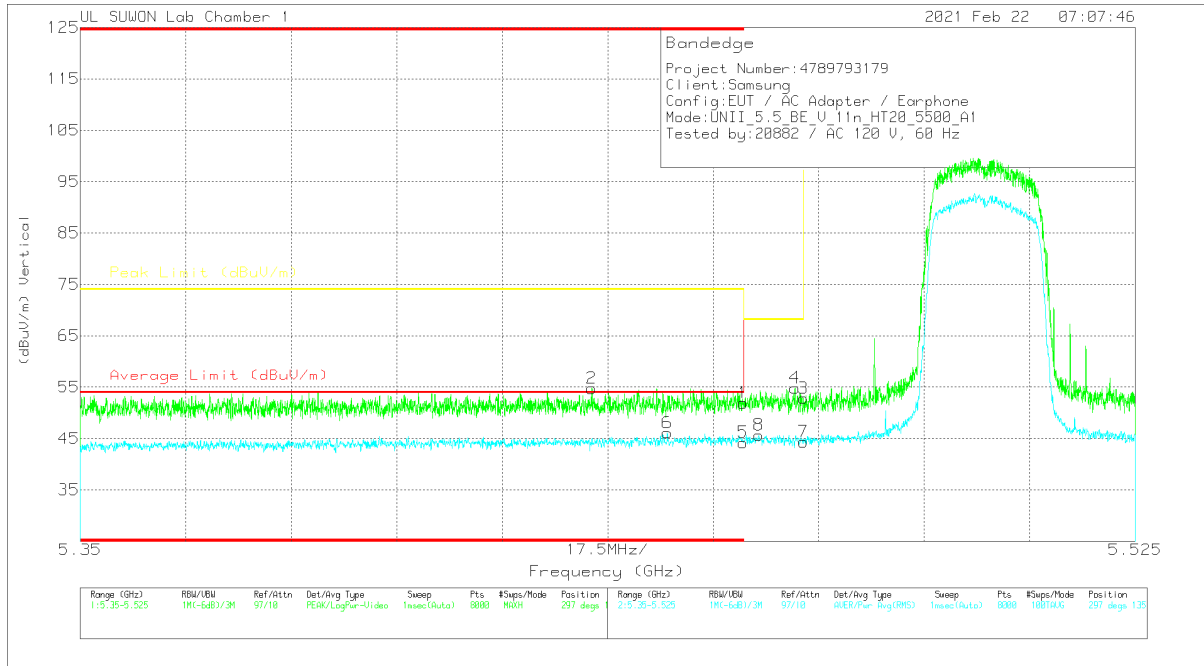
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	40.19	Pk	34.5	-21.3	0	53.39	-	-	74	-20.61	134	130	H
2	* 5.45506	44.03	Pk	34.5	-21.5	0	57.03	-	-	74	-16.97	134	130	H
3	5.46998	40.18	Pk	34.5	-21.3	0	53.38	-	-	68.2	-14.82	134	130	H
4	5.46228	42.68	Pk	34.5	-21.4	0	55.78	-	-	68.2	-12.42	134	130	H
5	* 5.45998	32.84	RMS	34.5	-21.3	0	46.04	54	-7.96	-	-	134	130	H
6	* 5.45287	33.7	RMS	34.5	-21.4	0	46.8	54	-7.2	-	-	134	130	H
7	5.46998	33.03	RMS	34.5	-21.3	0	46.23	-	-	-	-	134	130	H
8	5.46046	34.14	RMS	34.5	-21.4	0	47.24	-	-	-	-	134	130	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	38.75	Pk	34.5	-21.3	0	51.95	-	-	74	-22.05	297	135	V
2	* 5.43486	41.66	Pk	34.5	-21.4	0	54.76	-	-	74	-19.24	297	135	V
3	* 5.46998	39.65	Pk	34.5	-21.3	0	52.85	-	-	68.2	-15.35	297	135	V
4	* 5.46856	41.65	Pk	34.5	-21.3	0	54.85	-	-	68.2	-13.35	297	135	V
5	* 5.45998	31.02	RMS	34.5	-21.3	0	44.22	54	-9.78	-	-	297	135	V
6	* 5.44738	33.12	RMS	34.5	-21.5	0	46.12	54	-7.88	-	-	297	135	V
7	* 5.46998	31.18	RMS	34.5	-21.3	0	44.38	-	-	-	-	297	135	V
8	* 5.46256	32.57	RMS	34.5	-21.4	0	45.67	-	-	-	-	297	135	V

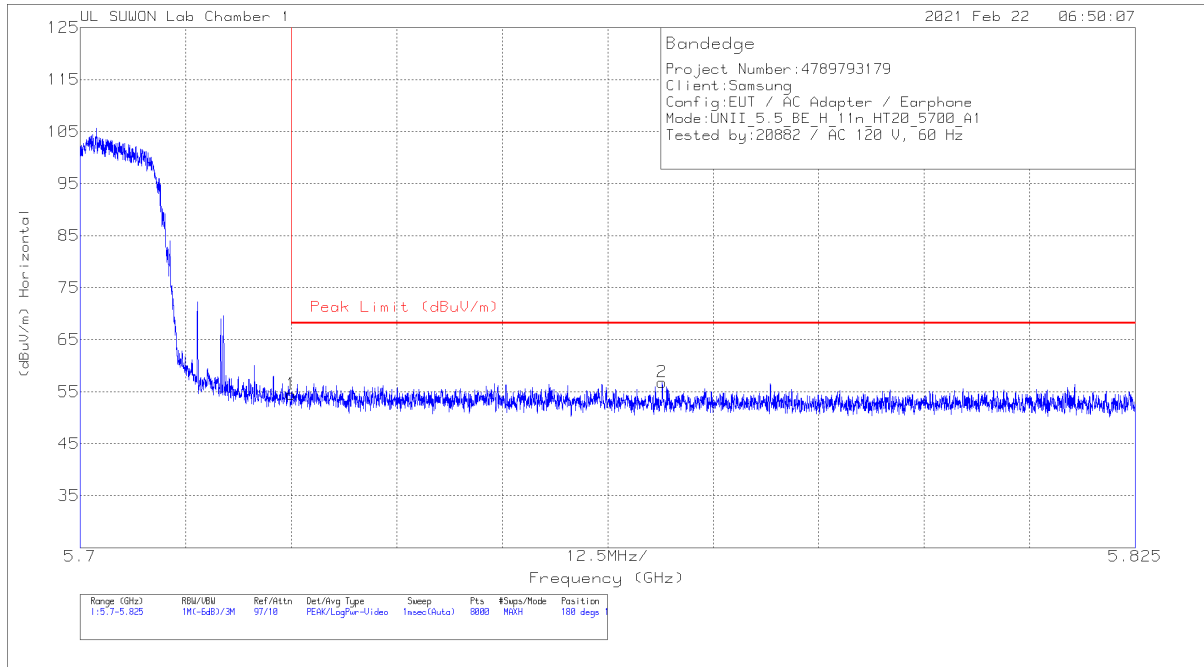
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

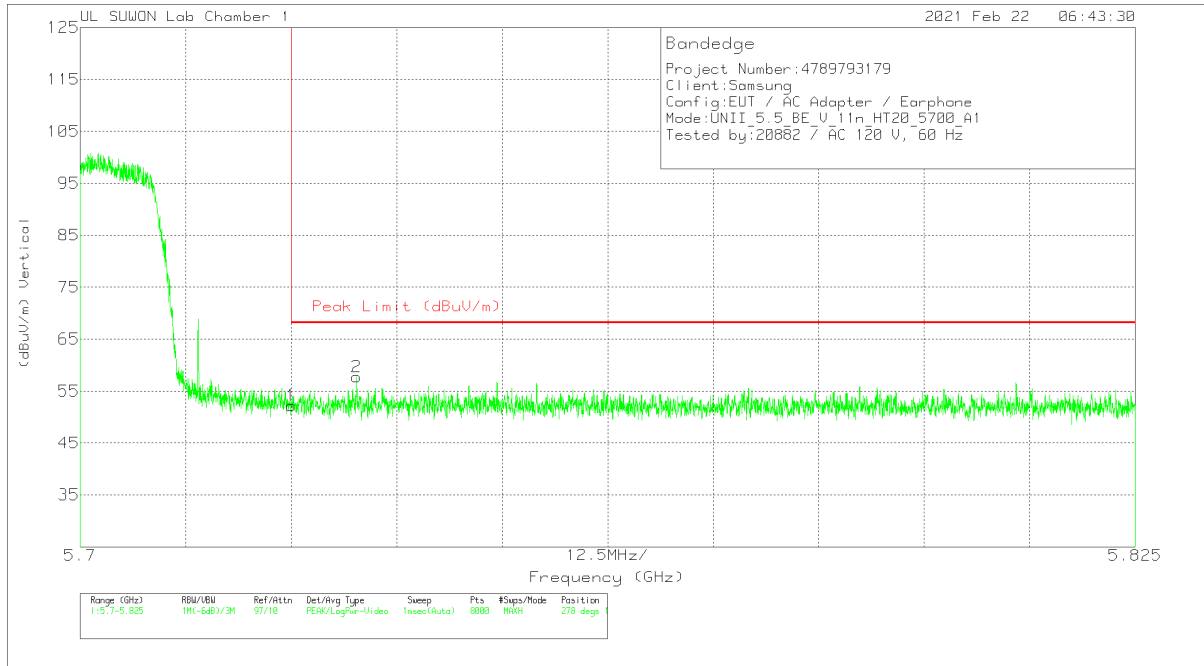


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.52	Pk	34.9	-20.9	0	54.52	68.2	-13.68	180	100	H
2	5.76895	42.83	Pk	35	-21	0	56.83	68.2	-11.37	180	100	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



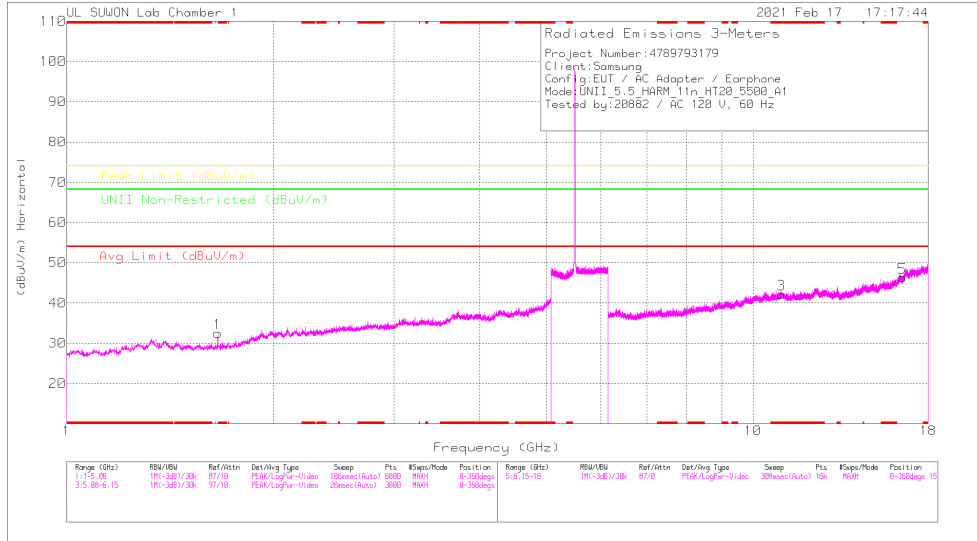
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.19	Pk	34.9	-20.9	0	52.19	68.2	-16.01	278	113	V
2	5.73274	43.84	Pk	34.9	-21	0	57.74	68.2	-10.46	278	113	V

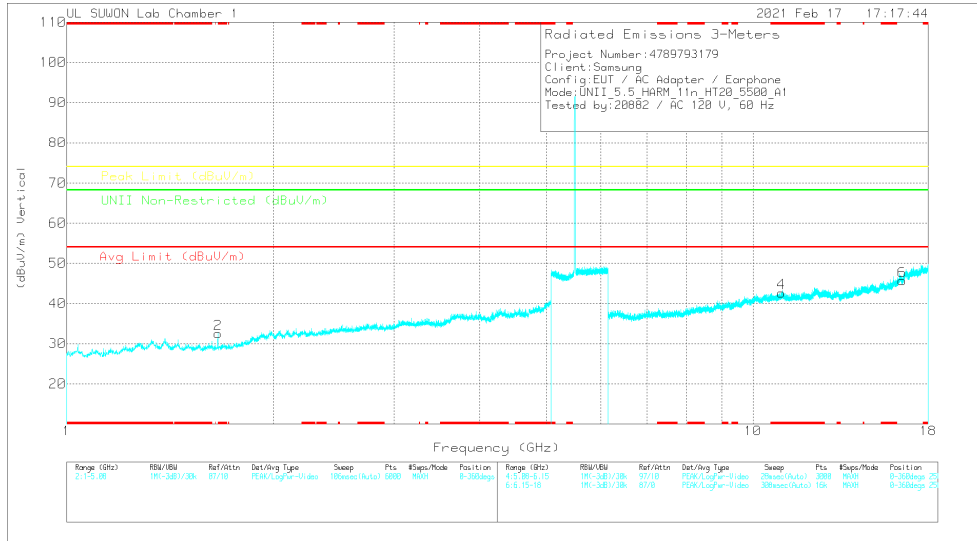
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

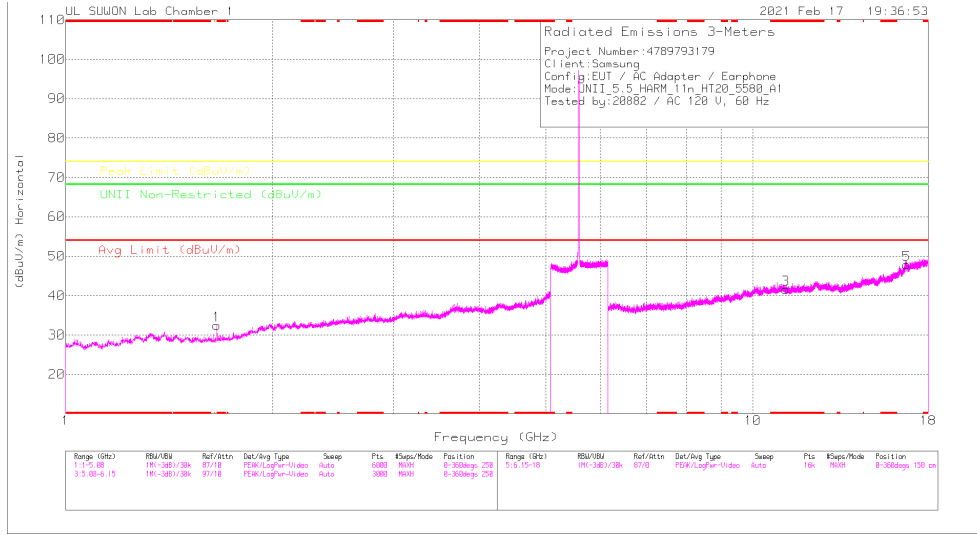
LOW CHANNEL DATA

Radiated Emissions

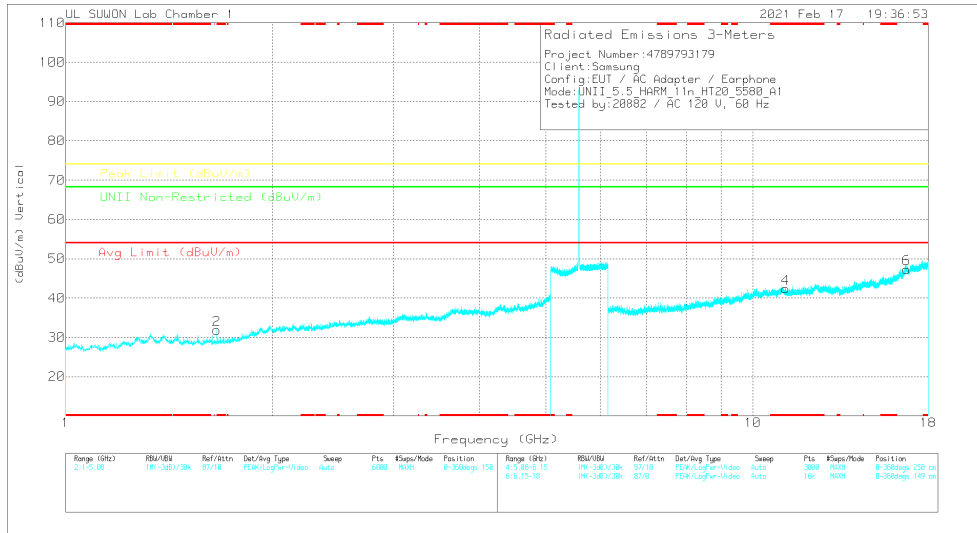
Frequency (GHz)	Mask Reading (dBuV)	Det	317_00168717	6GHz_HPS[B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
1.65992	47.35	PK-U	28.4	-35.8	0	39.95	-	-	-	-	68.2	-28.25	360	100	H
1.65996	47.1	PK-U	28.4	-35.8	0	39.7	-	-	-	-	68.2	-28.5	360	100	V
* 11.00109	34.84	PK-U	38.2	-21.7	0	51.34	-	-	74	-22.66	-	-	360	100	H
* 11.00148	34.83	PK-U	38.2	-21.8	0	51.23	-	-	74	-22.77	-	-	360	100	V
16.4992	34.17	PK-U	41.1	-19.7	0	55.57	-	-	-	-	68.2	-12.63	360	100	H
16.49819	34.23	PK-U	41.1	-19.6	0	55.73	-	-	-	-	68.2	-12.47	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

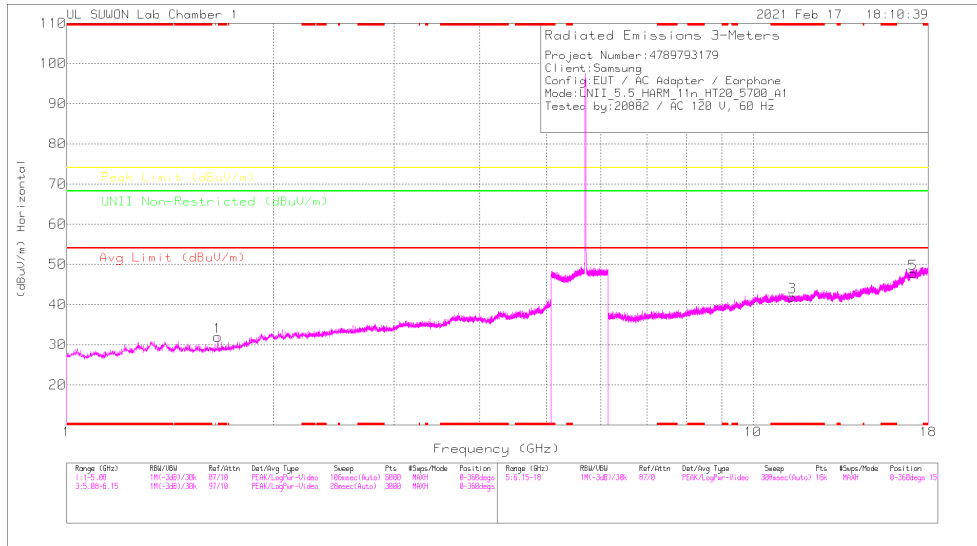
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HPS(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65912	47.81	PK-U	28.4	-35.7	0	40.51	-	-	-	-	68.2	-27.69	360	100	H
1.65954	46.56	PK-U	28.4	-35.7	0	39.26	-	-	-	-	68.2	-28.94	360	100	V

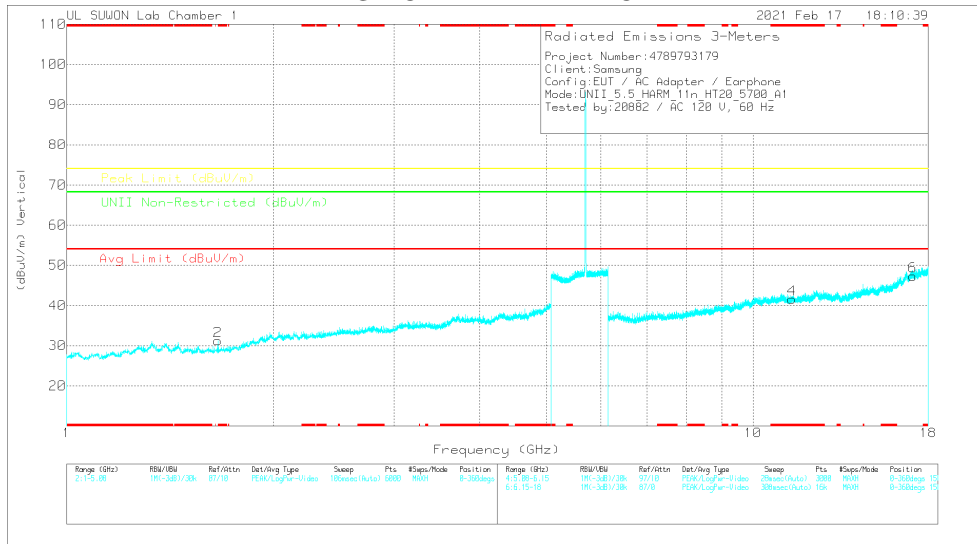
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HPS(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.15702	35.86	PK-U	38.4	-22.5	0	51.76	-	-	74	-22.24	-	-	360	100	H
* 11.15815	34.37	PK-U	38.4	-22.5	0	50.27	-	-	74	-23.73	-	-	360	100	V
16.7421	33.53	PK-U	41.5	-18	0	57.03	-	-	-	-	68.2	-11.17	360	100	H
16.7456	33.52	PK-U	41.6	-17.9	0	57.22	-	-	-	-	68.2	-10.98	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Mask Reading (dBuV)	Det	317_0016B717	5GHz_LPFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65999	47.09	PK-U	28.4	-35.8	0	39.69	-	-	-	-	68.2	-28.51	360	100	H
1.65978	47.43	PK-U	28.4	-35.8	0	40.03	-	-	-	-	68.2	-28.17	360	100	V

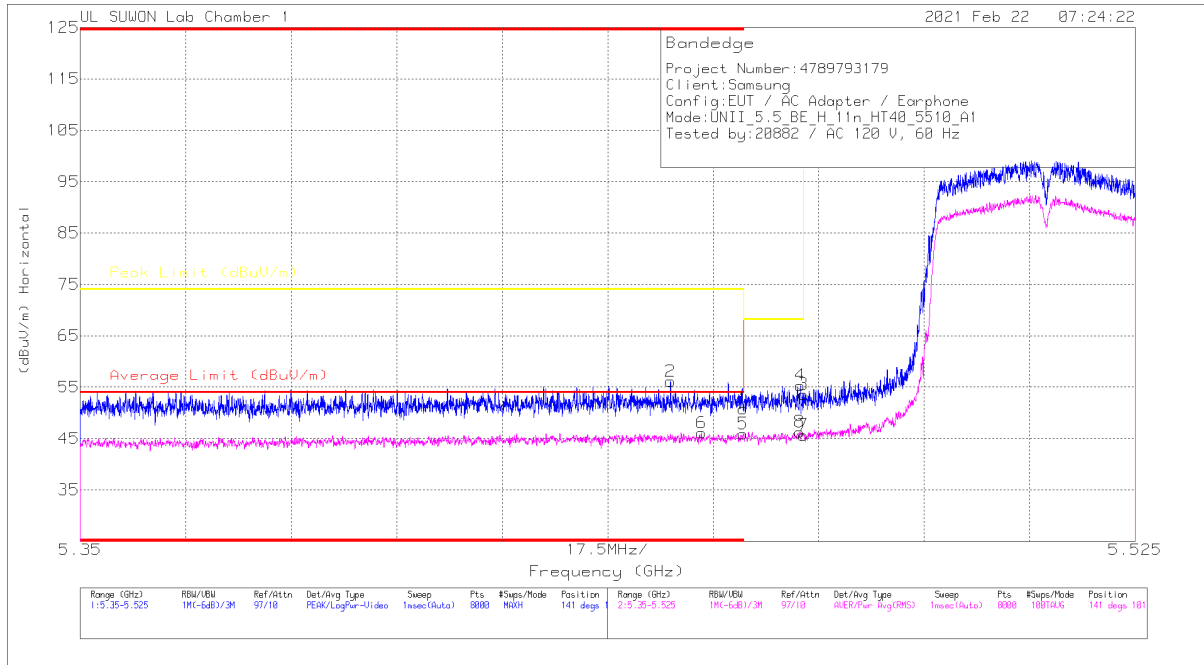
Frequency (GHz)	Mask Reading (dBuV)	Det	317_0016B717	5GHz_HP5dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*11.40129	35.41	PK-U	38.4	-22.2	0	51.61	-	-	74	-22.39	-	-	360	100	H
*11.40312	34.85	PK-U	38.4	-22.2	0	51.05	-	-	74	-22.95	-	-	360	100	V
17.10227	33.23	PK-U	41.5	-17.6	0	57.13	-	-	-	-	68.2	-11.07	360	100	H
17.10122	33.37	PK-U	41.5	-17.5	0	57.37	-	-	-	-	68.2	-10.83	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.3.3. TX ABOVE 1GHz 802.11n HT40 1Tx MODE IN THE 5.5GHz BAND

RESTRICTED BANDEGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

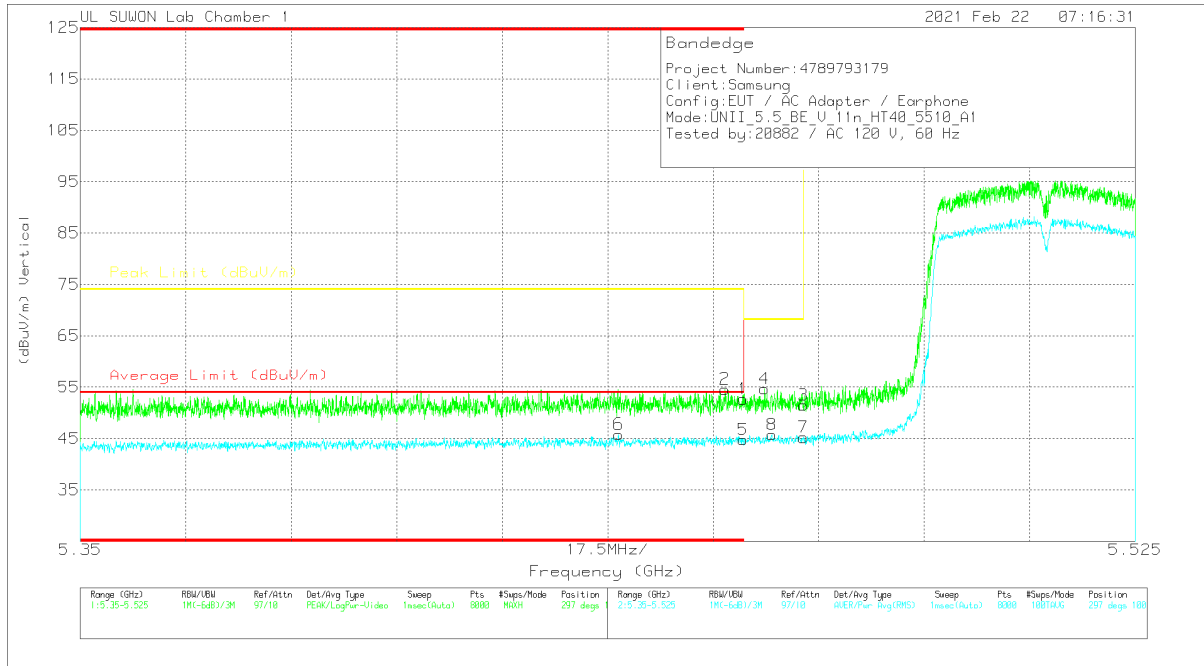
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	37.61	PK	34.5	-21.3	0	50.81	-	-	74	-23.19	141	101	H
2	* 5.4479	43.05	PK	34.5	-21.4	0	56.15	-	-	74	-17.85	141	101	H
3	5.46998	40.41	PK	34.5	-21.3	0	53.61	-	-	68.2	-14.59	141	101	H
4	5.46943	42.26	PK	34.5	-21.4	0	55.36	-	-	68.2	-12.84	141	101	H
5	* 5.45998	32.72	RMS	34.5	-21.3	0	45.92	54	-8.08	-	-	141	101	H
6	* 5.45305	33	RMS	34.5	-21.4	0	46.1	54	-7.9	-	-	141	101	H
7	5.46998	32.48	RMS	34.5	-21.3	0	45.68	-	-	-	-	141	101	H
8	5.46937	33.19	RMS	34.5	-21.4	0	46.29	-	-	-	-	141	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



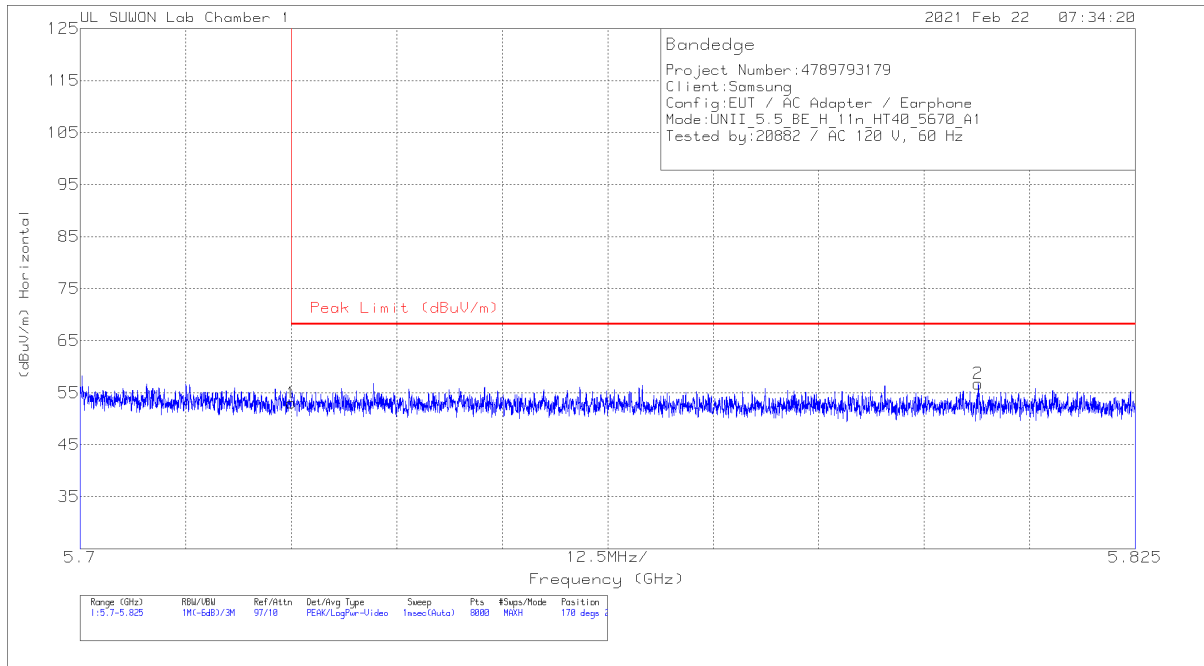
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	39.49	Pk	34.5	-21.3	0	52.89	-	-	74	-21.31	297	100	V
2	* 5.45694	41.5	Pk	34.5	-21.4	0	54.6	-	-	74	-19.4	297	100	V
3	5.46998	38.28	Pk	34.5	-21.3	0	51.48	-	-	68.2	-16.72	297	100	V
4	5.4635	41.48	Pk	34.5	-21.3	0	54.68	-	-	68.2	-13.52	297	100	V
5	* 5.45998	31.56	RMS	34.5	-21.3	0	44.76	54	-9.24	-	-	297	100	V
6	* 5.43928	32.7	RMS	34.5	-21.4	0	45.8	54	-8.2	-	-	297	100	V
7	5.46998	32.02	RMS	34.5	-21.3	0	45.22	-	-	-	-	297	100	V
8	5.46471	32.55	RMS	34.5	-21.3	0	45.75	-	-	-	-	297	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

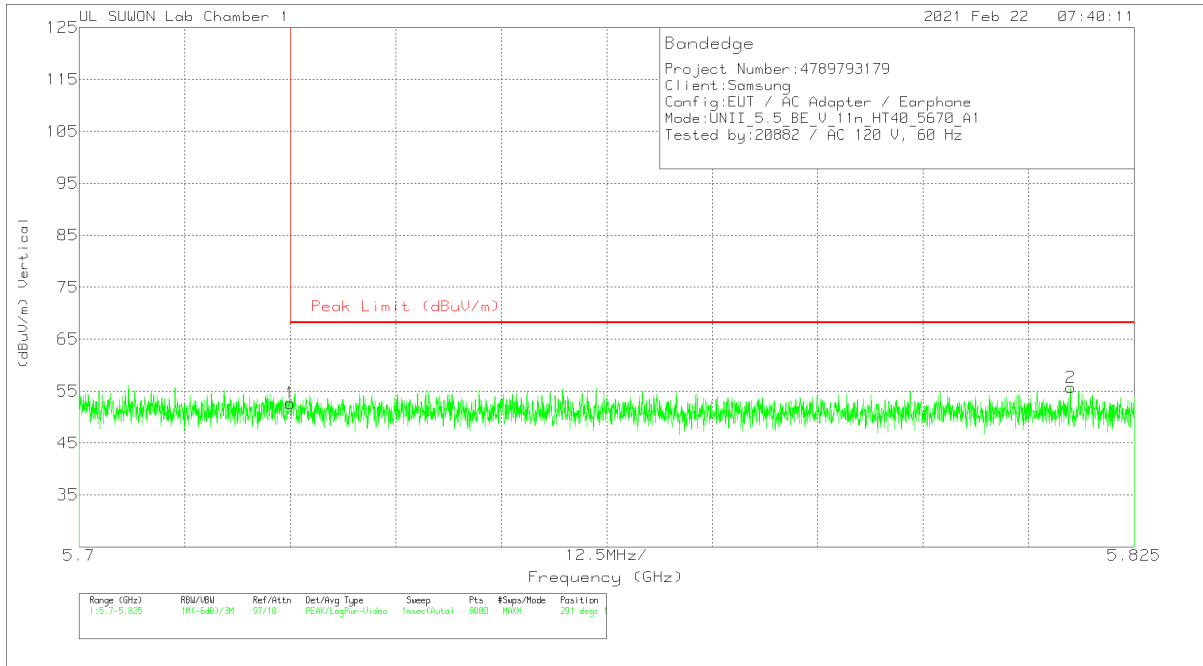


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.01	Pk	34.9	-20.9	0	53.01	68.2	-15.19	170	253	H
2	5.8064	42.74	Pk	35	-21	0	56.74	68.2	-11.46	170	253	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



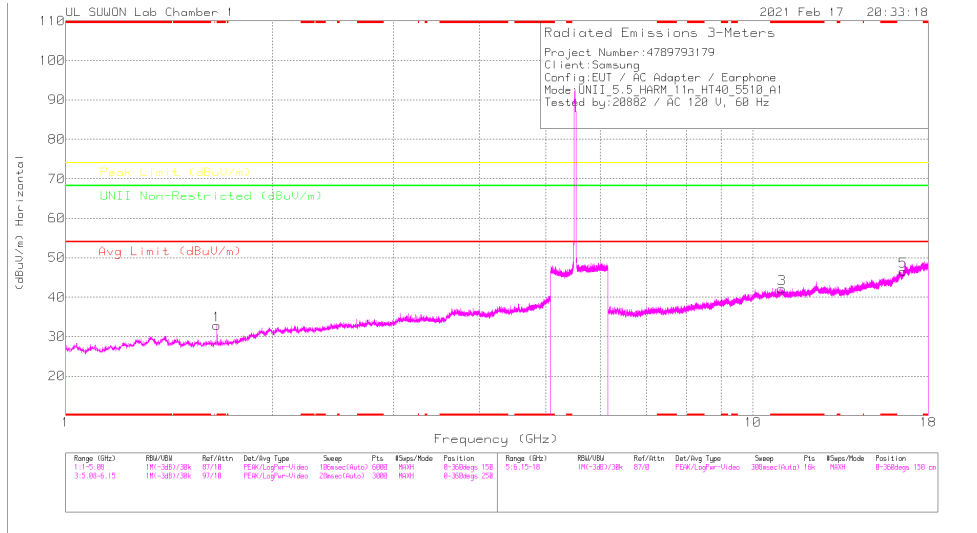
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.68	Pk	34.9	-20.9	0	52.68	68.2	-15.52	291	106	V
2	5.81745	41.66	Pk	35	-21	0	55.66	68.2	-12.54	291	106	V

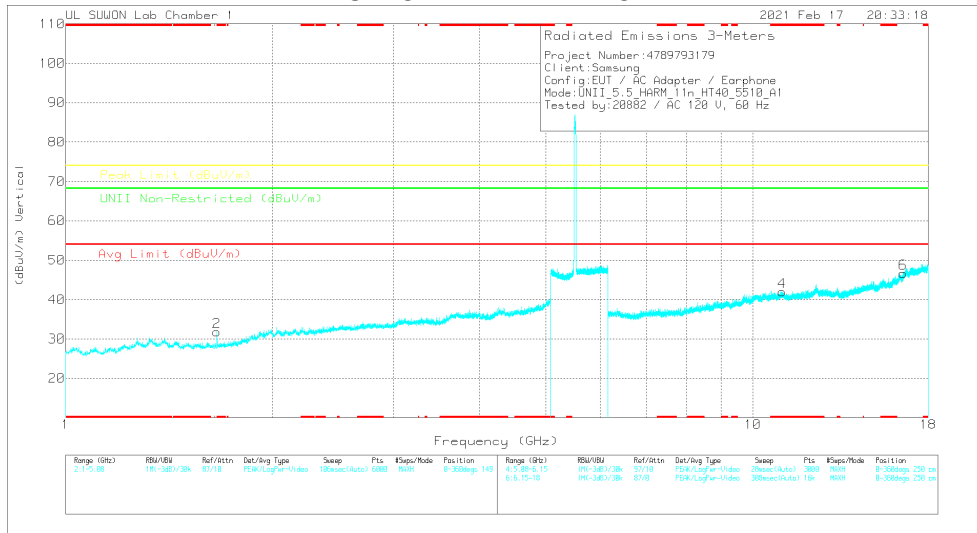
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

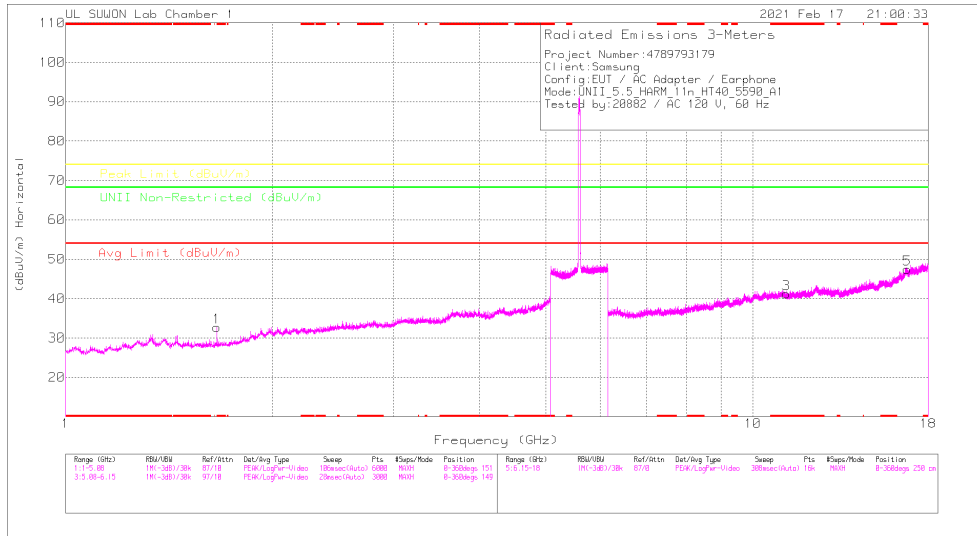
LOW CHANNEL DATA

Radiated Emissions

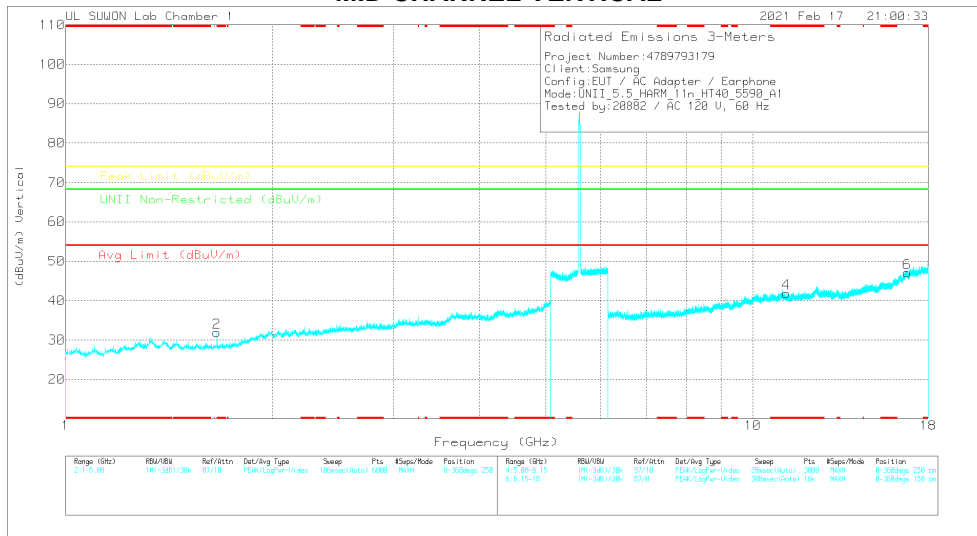
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00168717	5GHz_LPF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1.65968	46.38	PK-U	28.4	-35.7	0	39.06	-	-	-	-	68.2	-29.12	360	100	H
1.65989	46.46	PK-U	28.4	-35.8	0	39.06	-	-	-	-	68.2	-29.14	360	100	V
* 11.02106	34.71	PK-U	38.2	-21.7	0	51.21	-	-	74	-22.79	-	-	360	100	H
* 11.02384	34.35	PK-U	38.2	-21.6	0	50.95	-	-	74	-23.05	-	-	360	100	V
16.54808	34.8	PK-U	41.2	-19.3	0	56.7	-	-	-	-	68.2	-11.5	360	100	H
16.54834	33.26	PK-U	41.2	-19.3	0	55.16	-	-	-	-	68.2	-13.04	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

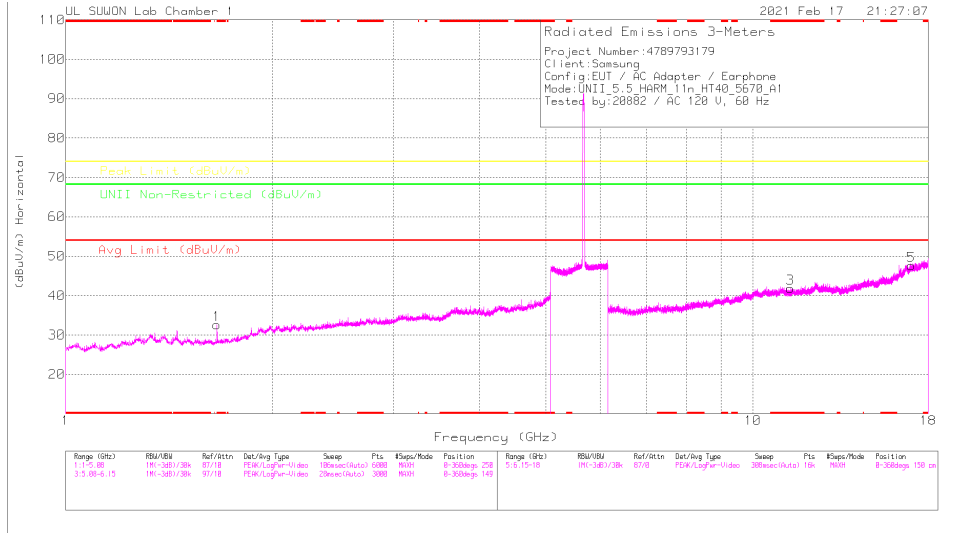
Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	5GHz_HP15B	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
1.65939	46.3	PK-U	28.4	-35.7	0	39	-	-	-	-	68.2	-29.2	360	100	H
1.65995	46.85	PK-U	28.4	-35.9	0	39.45	-	-	-	-	68.2	-29.75	360	100	V

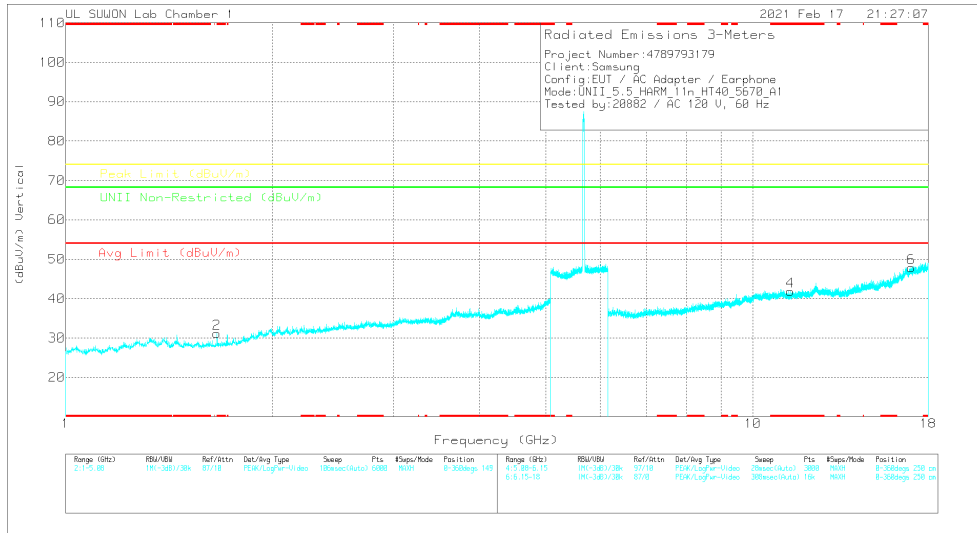
Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	6GHz_HP15B	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
* 11.18711	34.72	PK-U	38.4	-22.3	0	50.82	-	-	74	-23.18	-	-	360	100	H
* 11.186	34.53	PK-U	38.4	-22.3	0	50.63	-	-	74	-23.37	-	-	360	100	V
16.76684	32.71	PK-U	41.6	-18	0	56.31	-	-	-	-	68.2	-11.89	360	100	H
16.76547	33.12	PK-U	41.6	-18	0	56.72	-	-	-	-	68.2	-11.48	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00168717	5GHz_LFPE	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65964	46.37	PK-U	28.4	-35.7	0	39.07	-	-	-	-	68.2	-29.13	360	100	H
1.6599	46.74	PK-U	28.4	-35.8	0	39.34	-	-	-	-	68.2	-28.86	360	100	V

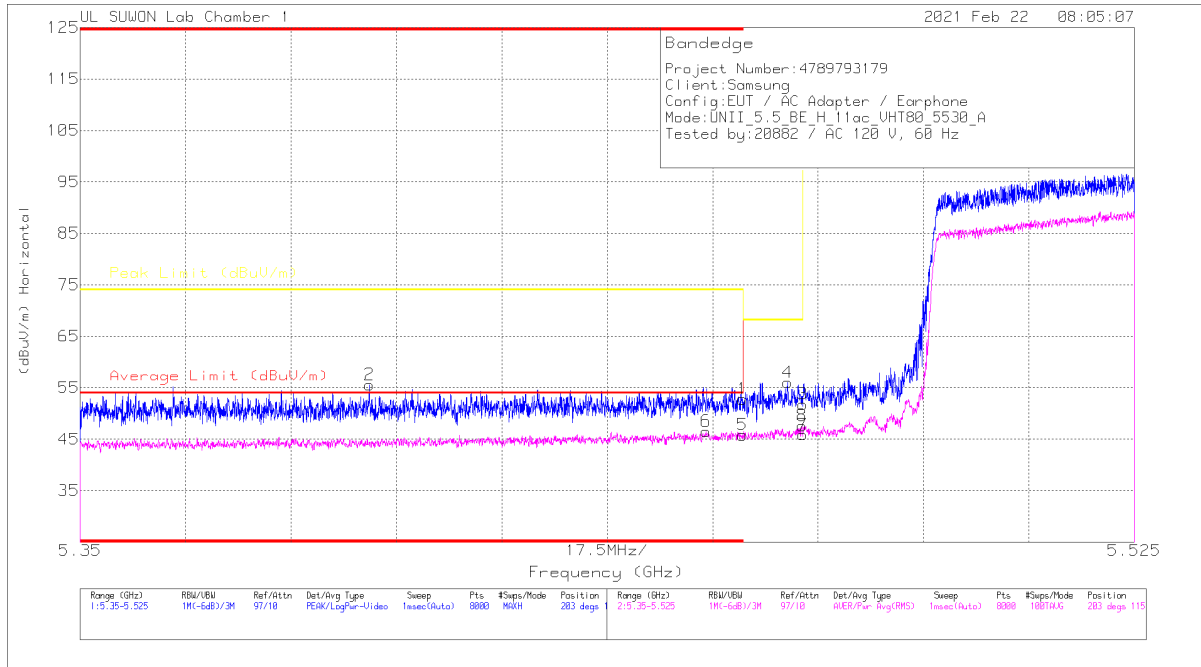
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00168717	5GHz_HFPE	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.33923	33.93	PK-U	38.4	-22.2	0	50.13	-	-	74	-23.87	-	-	360	100	H
* 11.34003	33.72	PK-U	38.4	-22.2	0	49.92	-	-	74	-24.08	-	-	360	100	V
17.01222	33.27	PK-U	41.6	-17.6	0	57.27	-	-	-	-	68.2	-10.93	360	100	H
17.01319	33	PK-U	41.6	-17.7	0	56.9	-	-	-	-	68.2	-11.3	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.3.4. TX ABOVE 1GHz 802.11ac VHT80 1Tx MODE IN THE 5.5GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

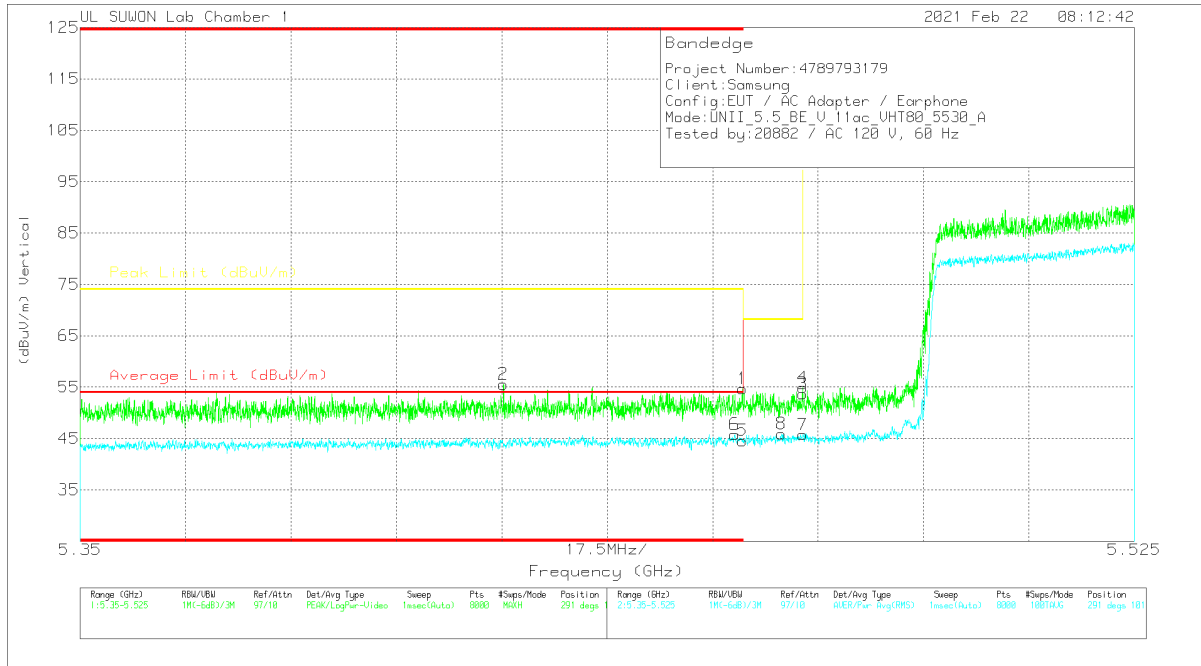
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	39.61	Pk	34.5	-21.3	0	52.81	-	-	74	-21.19	203	115	H
2	* 5.398	42.58	Pk	34.5	-21.5	0	55.58	-	-	74	-18.42	203	115	H
3	5.46998	38.61	Pk	34.5	-21.3	0	51.81	-	-	68.2	-16.39	203	115	H
4	5.46742	42.82	Pk	34.5	-21.3	0	56.02	-	-	68.2	-12.18	203	115	H
5	* 5.45998	32.48	RMS	34.5	-21.3	.16	45.84	54	-8.16	-	-	203	115	H
6	* 5.4539	33.27	RMS	34.5	-21.4	.16	46.53	54	-7.47	-	-	203	115	H
7	5.46998	32.5	RMS	34.5	-21.3	.16	45.86	-	-	-	-	203	115	H
8	5.46983	34.26	RMS	34.5	-21.3	.16	47.62	-	-	-	-	203	115	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



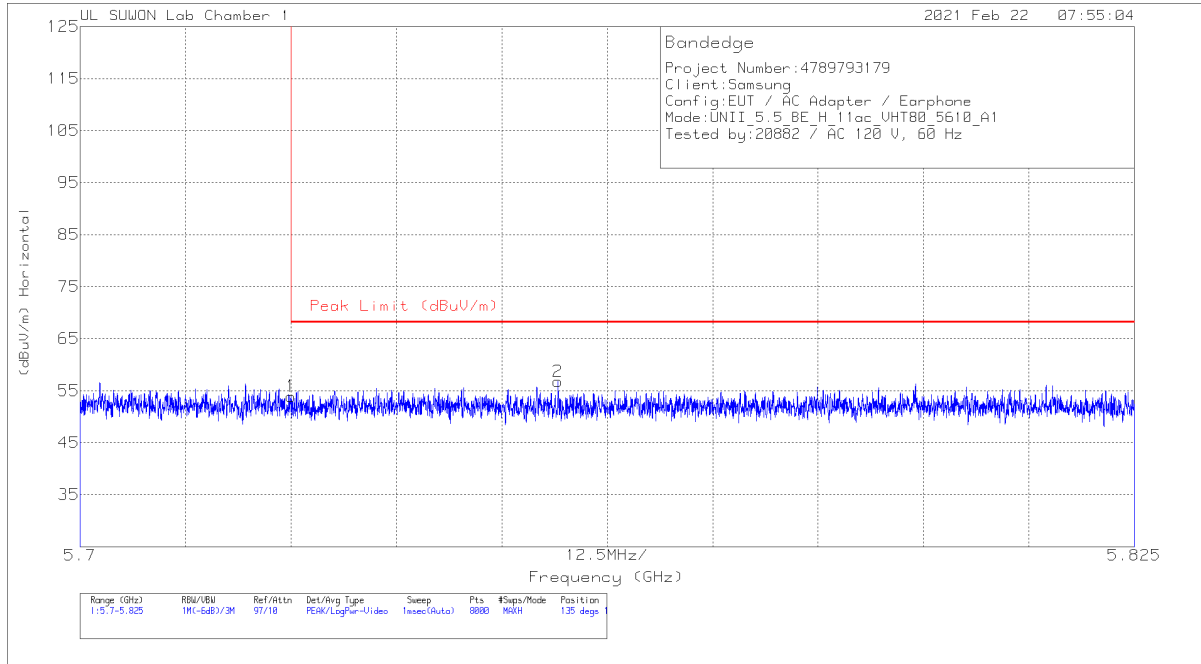
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	41.49	Pk	34.5	-21.3	0	54.69	-	-	74	-19.31	291	101	V
2	* 5.42027	42.69	Pk	34.5	-21.6	0	55.59	-	-	74	-18.41	291	101	V
3	5.46998	40.53	Pk	34.5	-21.3	0	53.73	-	-	68.2	-14.47	291	101	V
4	5.46994	41.7	Pk	34.5	-21.3	0	54.9	-	-	68.2	-13.3	291	101	V
5	* 5.45998	31.24	RMS	34.5	-21.3	.16	44.6	54	-9.4	-	-	291	101	V
6	* 5.45865	32.42	RMS	34.5	-21.3	.16	45.78	54	-8.22	-	-	291	101	V
7	5.46998	32.38	RMS	34.5	-21.3	.16	45.74	-	-	-	-	291	101	V
8	5.46641	32.55	RMS	34.5	-21.3	.16	45.91	-	-	-	-	291	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

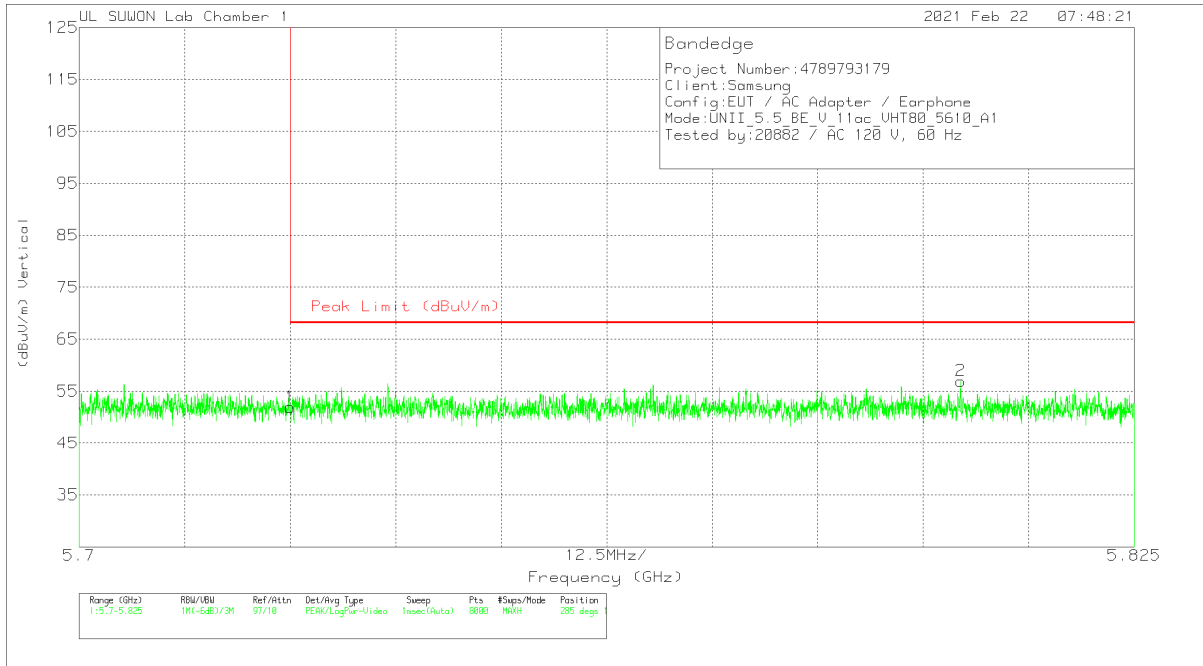


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.9	Pk	34.9	-20.9	0	53.9	68.2	-14.3	135	101	H
2	5.75665	42.87	Pk	34.9	-21	0	56.77	68.2	-11.43	135	101	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



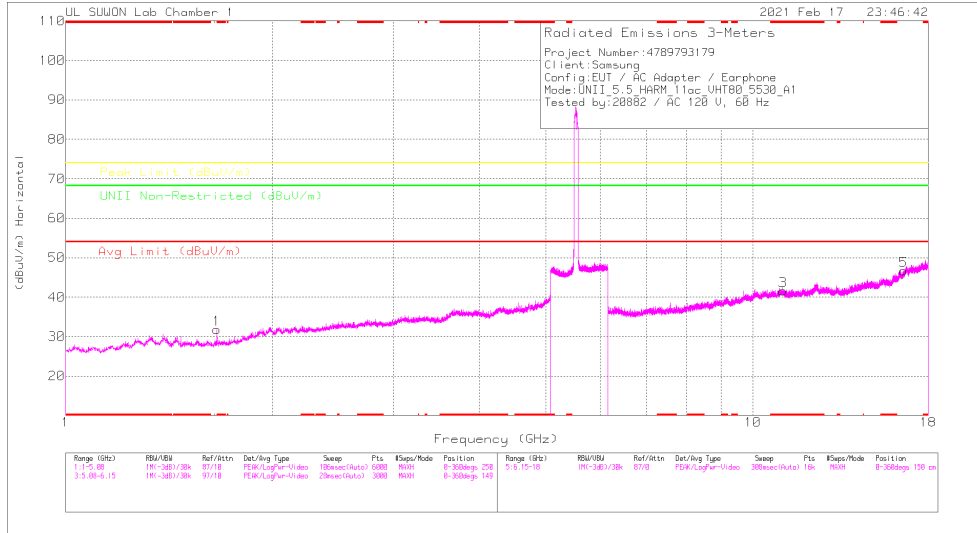
Trace Markers

Marker	Frequency(GHz)	MeterReading(dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	CorrectedReading(dBuV/m)	Peak Limit (dBuV/m)	PK Margin(dB)	Azimuth(Deg)	Height(cm)	Polarity
1	5.725	37.9	Pk	34.9	-20.9	0	51.9	68.2	-16.3	285	100	V
2	5.80444	42.86	Pk	35	-20.9	0	56.96	68.2	-11.24	285	100	V

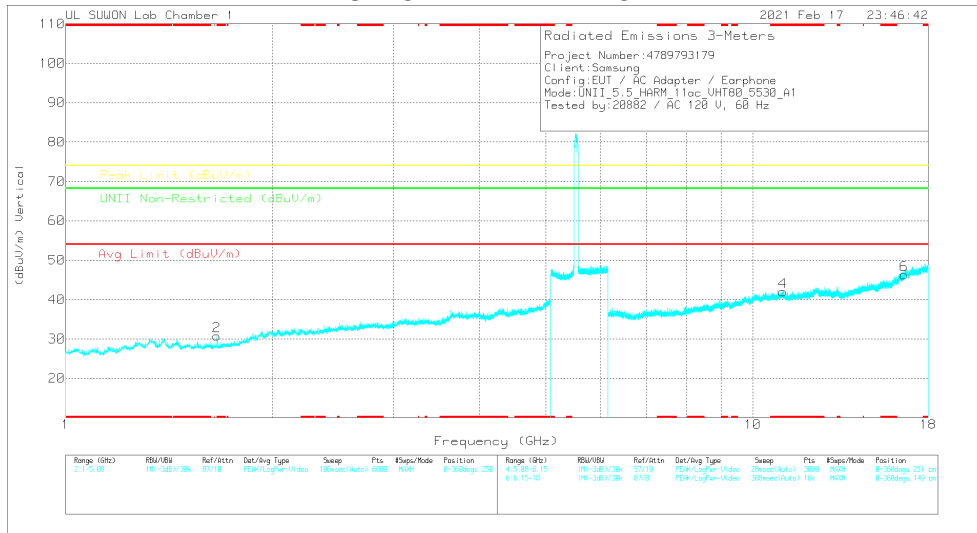
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

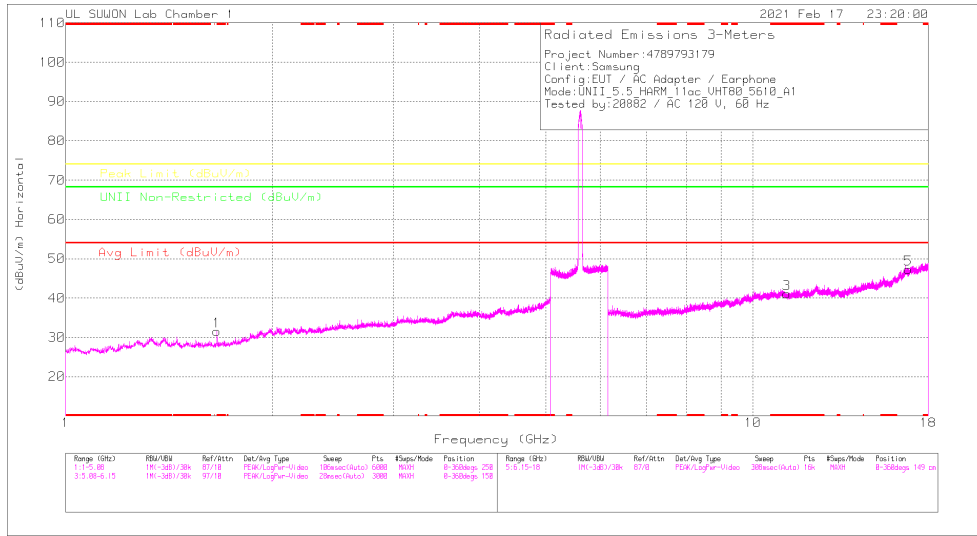
Radiated Emissions

Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00168717	50Hz_LPF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1.65955	45.29	PK-U	28.4	-35.7	0	39.98	-	-	-	-	68.2	-23.22	360	100	H
1.6599	45.94	PK-U	28.4	-35.8	0	38.54	-	-	-	-	68.2	-23.66	360	100	V

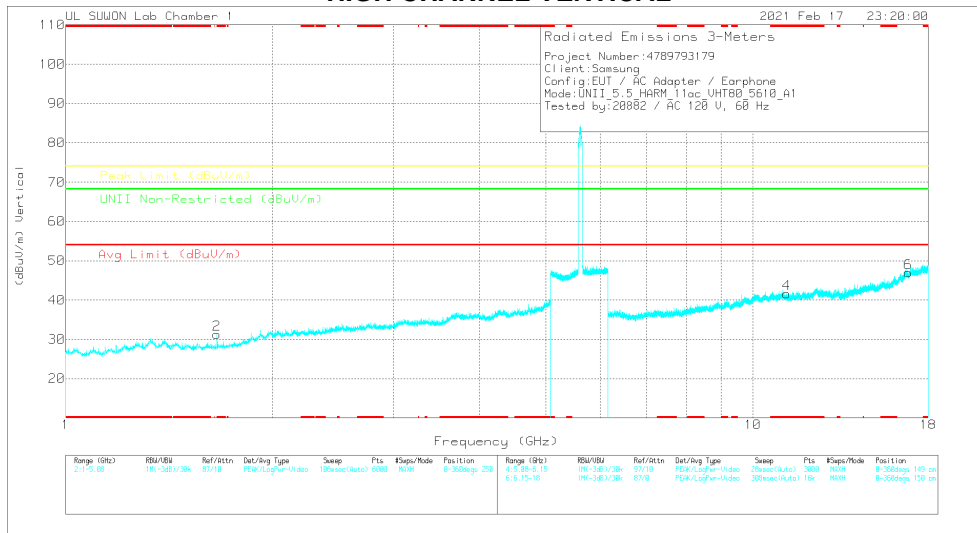
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00168717	50Hz_HPF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
* 11.05953	34.45	PK-U	38.3	-21.8	0	50.95	-	-	74	-23.05	-	-	360	100	H
* 11.06254	33.78	PK-U	38.3	-21.7	0	50.38	-	-	74	-23.62	-	-	360	100	V
16.58576	33.24	PK-U	41.2	-19.1	0	55.34	-	-	-	-	68.2	-12.86	360	100	H
16.58565	33.15	PK-U	41.2	-19.1	0	55.25	-	-	-	-	68.2	-12.95	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

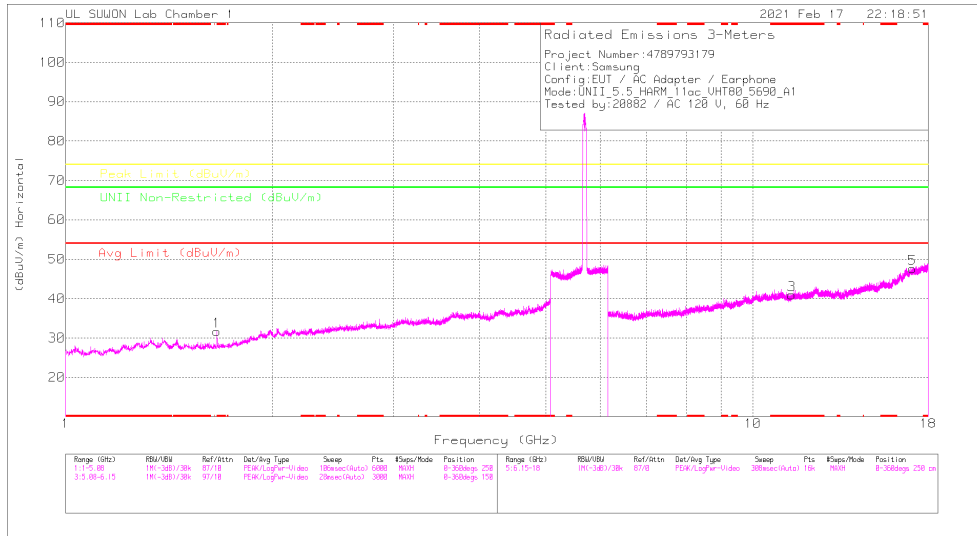
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	317_0016B717	6GHz_HPS(S)	DC Corr (dB)	Combined Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65951	46.03	PK-U	28.4	-35.7	0	38.73	-	-	-	-	68.2	-29.47	360	100	H
1.65987	46.21	PK-U	28.4	-35.8	0	38.81	-	-	-	-	68.2	-29.39	360	100	V

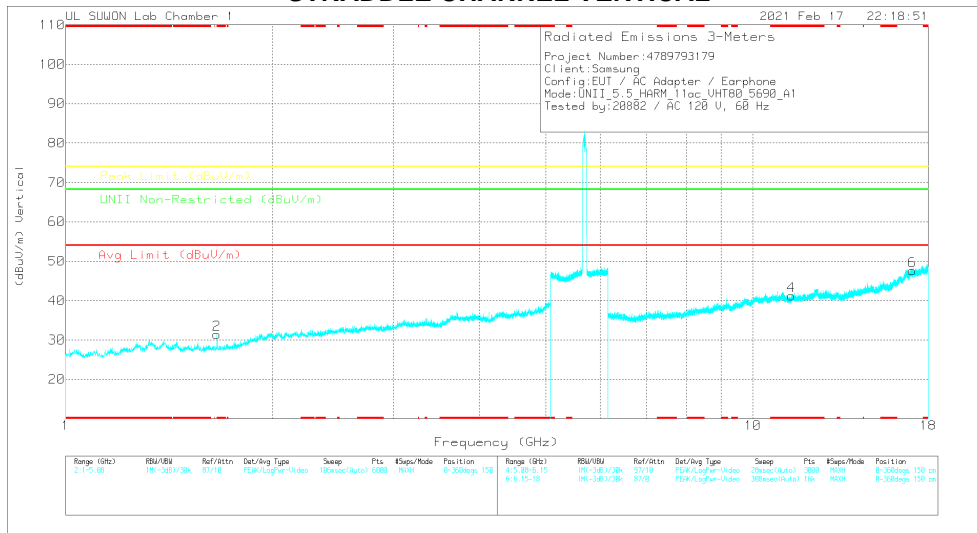
Frequency (GHz)	Meter Reading (dBuV)	Det	317_0016B717	6GHz_HPS(S)	DC Corr (dB)	Combined Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.20136	33.84	PK-U	38.4	-22.2	0	50.04	-	-	74	-23.96	-	-	360	100	H
* 11.2029	33.83	PK-U	38.4	-22.3	0	49.93	-	-	74	-24.07	-	-	360	100	V
16.82335	32.9	PK-U	41.6	-18.5	0	56	-	-	-	-	68.2	-12.2	360	100	H
16.82191	33.02	PK-U	41.6	-18.5	0	56.12	-	-	-	-	68.2	-12.08	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

STRADDLE CHANNEL HORIZONTAL



STRADDLE CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

STRADDLE CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	317_0016B717	6GHz_HF(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmth (Degs)	Height (cm)	Polarity
1.65955	46.5	PK-U	28.4	-35.7	0	39.2	-	-	-	-	68.2	-29	360	100	H
1.65959	46.72	PK-U	28.4	-35.7	0	39.42	-	-	-	-	68.2	-28.78	360	100	V

Frequency (GHz)	Meter Reading (dBuV)	Det	317_0016B717	6GHz_HF(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmth (Degs)	Height (cm)	Polarity
* 11.3893	54.02	PK-U	38.4	-22.2	0	50.22	-	-	74	-23.78	-	-	360	100	H
* 11.38912	33.84	PK-U	38.4	-22.2	0	50.04	-	-	74	-23.96	-	-	360	100	V
17.07523	32.84	PK-U	41.6	-17.5	0	56.94	-	-	-	-	68.2	-11.26	360	100	H
17.07518	32.51	PK-U	41.6	-17.5	0	56.61	-	-	-	-	68.2	-11.59	360	100	V

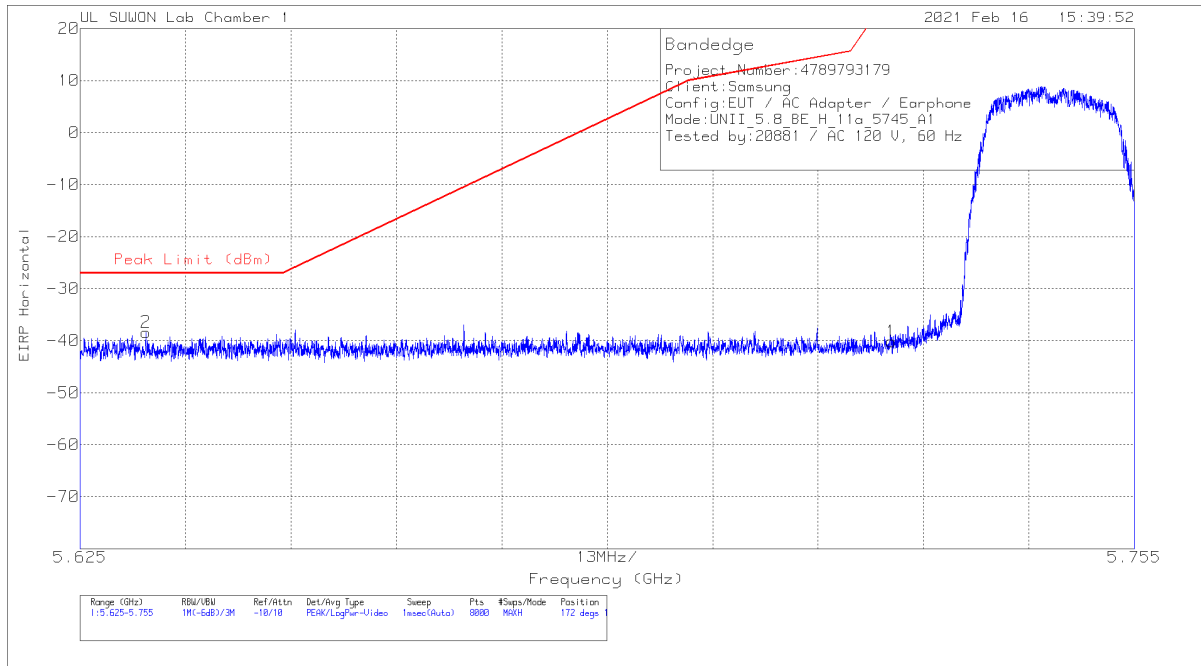
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.4. 5.8 GHz

11.4.1. TX ABOVE 1GHz 802.11a 1Tx MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK DATA

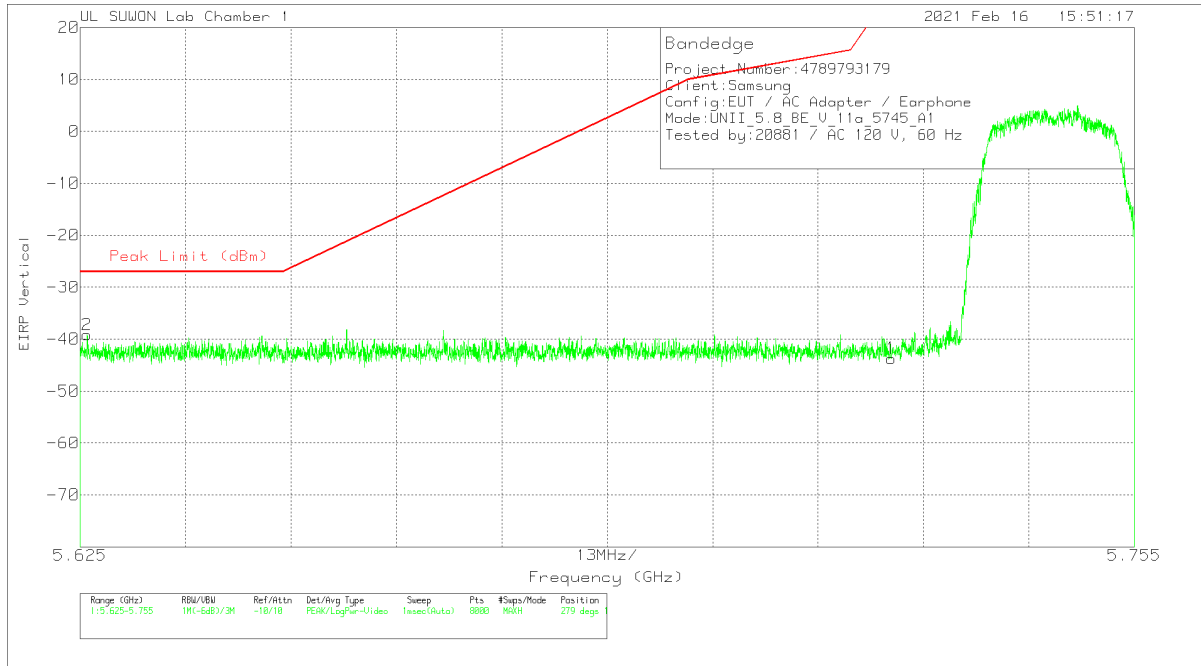


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-65.95	Pk	34.9	-20.9	11.8	0	-40.15	27	-67.15	172	100	H
2	5.63311	-63.9	Pk	34.7	-21	11.8	0	-38.4	-27	-11.4	172	100	H

Pk - Peak detector

VERTICAL PEAK DATA



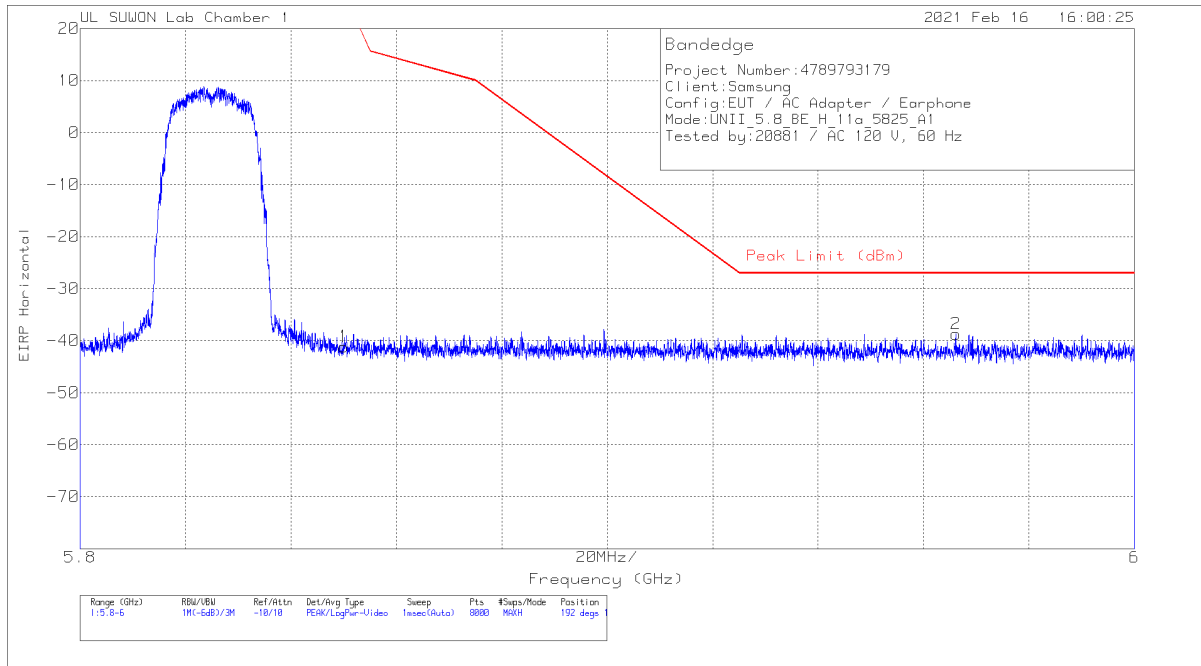
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-69.53	Pk	34.9	-20.9	11.8	0	-43.73	27	-70.73	279	109	V
2	5.62586	-64.67	Pk	34.7	-21	11.8	0	-39.17	-27	-12.17	279	109	V

Pk - Peak detector

BADEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

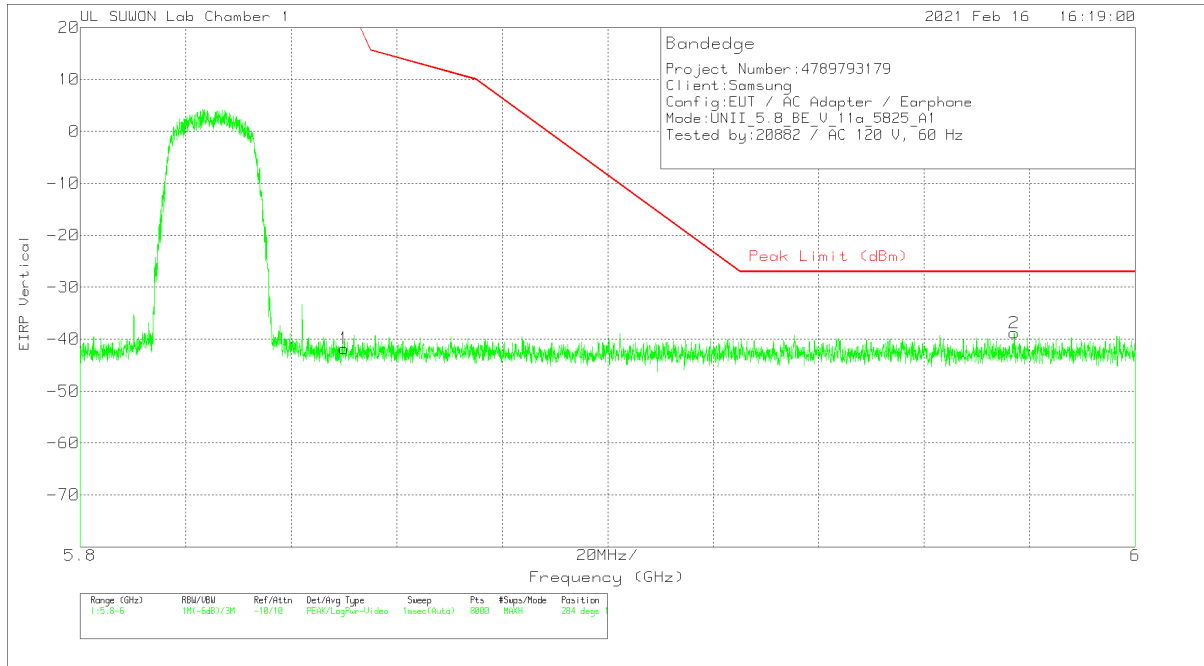


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-67.18	Pk	35.1	-20.9	11.8	0	-41.18	26.99	-68.17	192	103	H
2	5.96612	-65.11	Pk	35.2	-20.6	11.8	0	-38.71	-27	-11.71	192	103	H

Pk - Peak detector

VERTICAL PEAK DATA



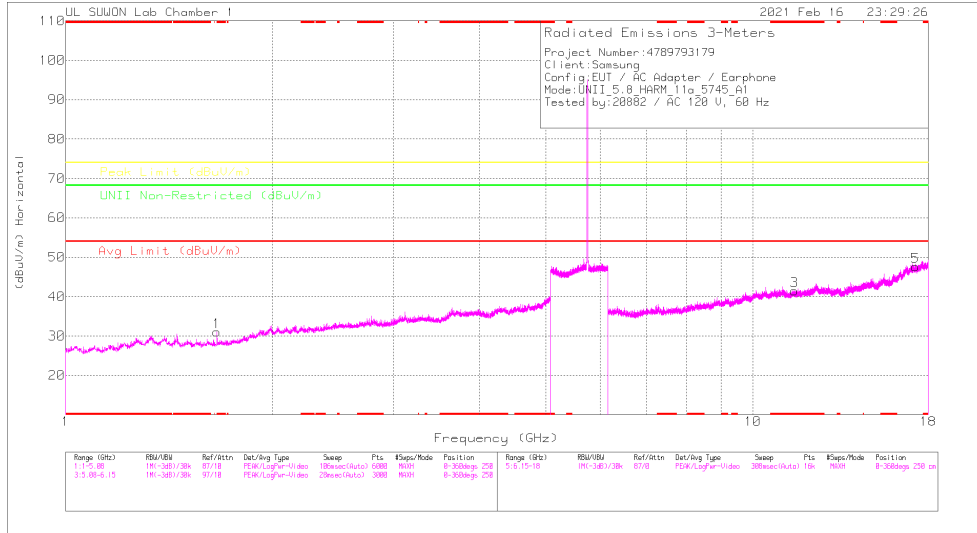
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-67.8	Pk	35.1	-20.9	11.8	0	-41.8	26.99	-68.79	284	109	V
2	5.97705	-65.21	Pk	35.2	-20.6	11.8	0	-38.81	-27	-11.81	284	109	V

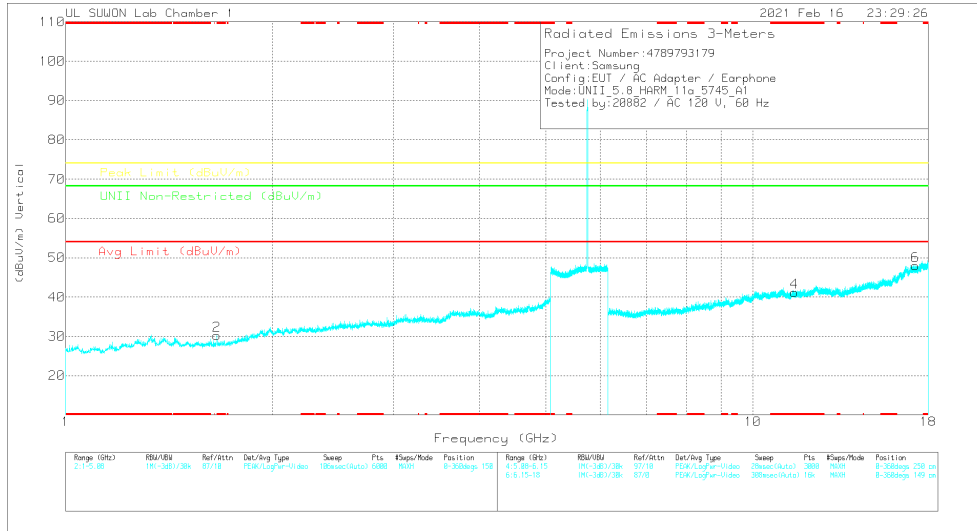
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

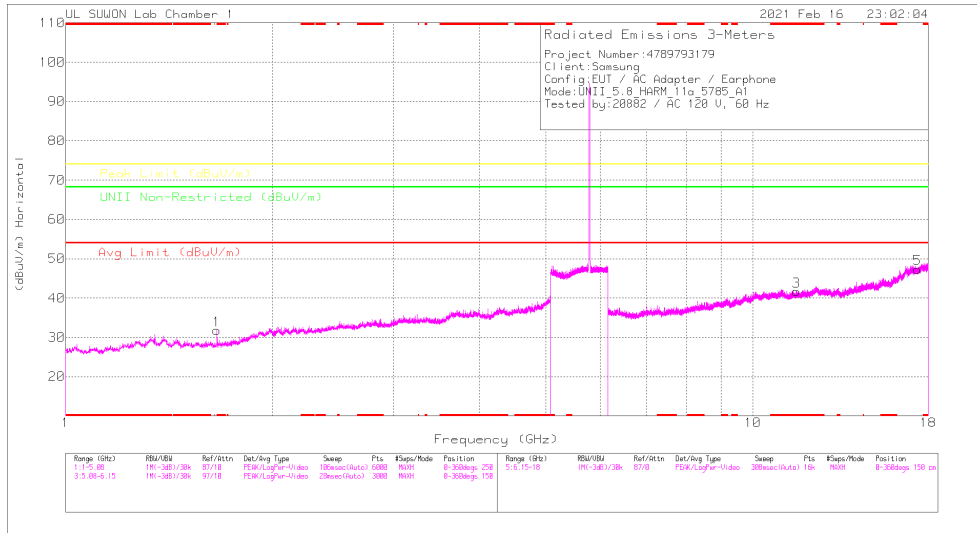
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_LPF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65933	45.33	PK-U	28.4	-35.7	0	38.03	-	-	-	-	68.2	-30.17	360	100	H
1.6598	45.58	PK-U	28.4	-35.8	0	38.18	-	-	-	-	68.2	-30.02	360	100	V

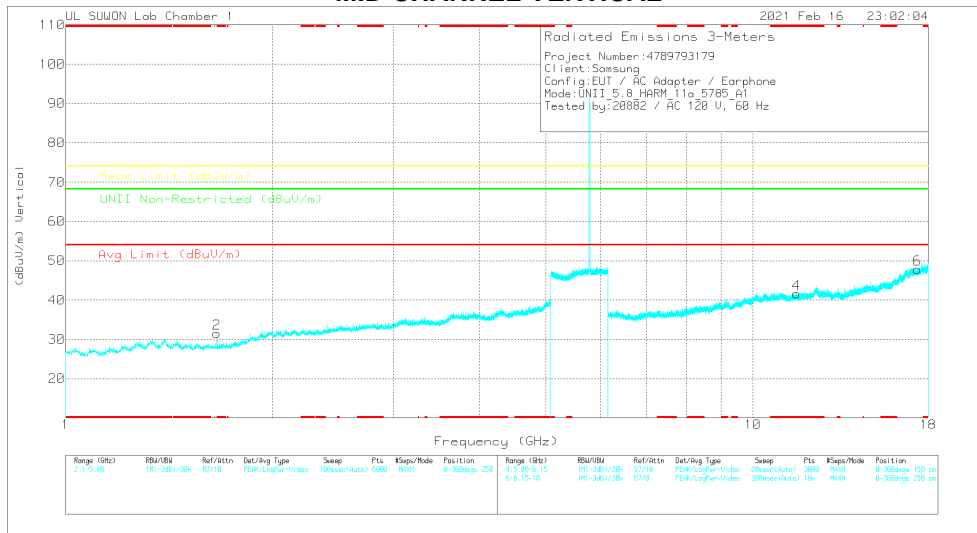
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	5GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.4987	33.97	PK-U	38.4	-22.3	0	50.07	-	-	74	-23.93	-	-	360	100	H
* 11.4988	34.25	PK-U	38.4	-22.3	0	50.35	-	-	74	-23.65	-	-	360	100	V
17.23258	33.04	PK-U	41.3	-17.5	0	56.84	-	-	-	-	68.2	-11.36	360	100	H
17.23405	33.16	PK-U	41.3	-17.5	0	56.96	-	-	-	-	68.2	-11.24	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

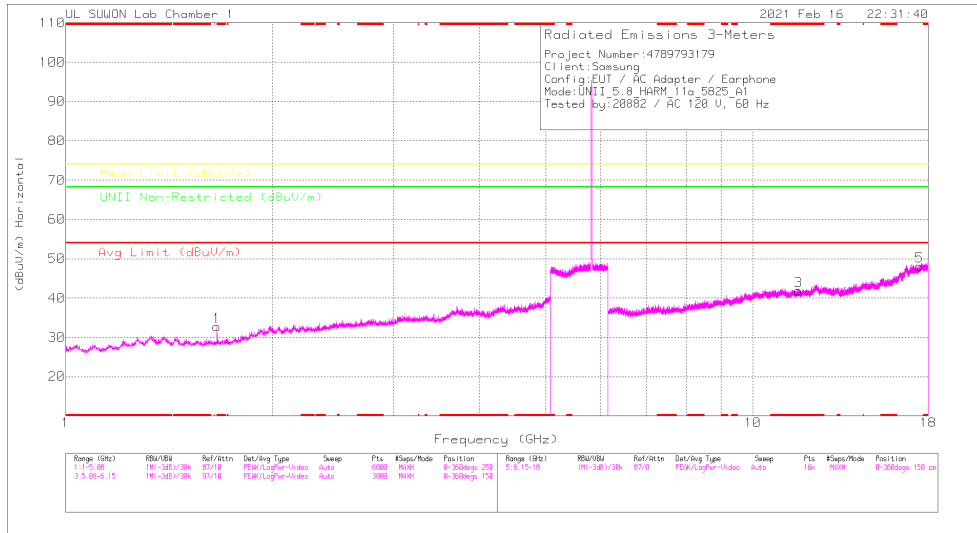
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_0016B717	5GHz_LFdB	DC Corr (dB)	Comsted Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
1.65882	45.8	PK-U	28.4	-35.7	0	38.5	-	-	-	-	68.2	-29.7	360	100	H
1.65951	46.26	PK-U	28.4	-35.7	0	38.96	-	-	-	-	68.2	-29.24	360	100	V

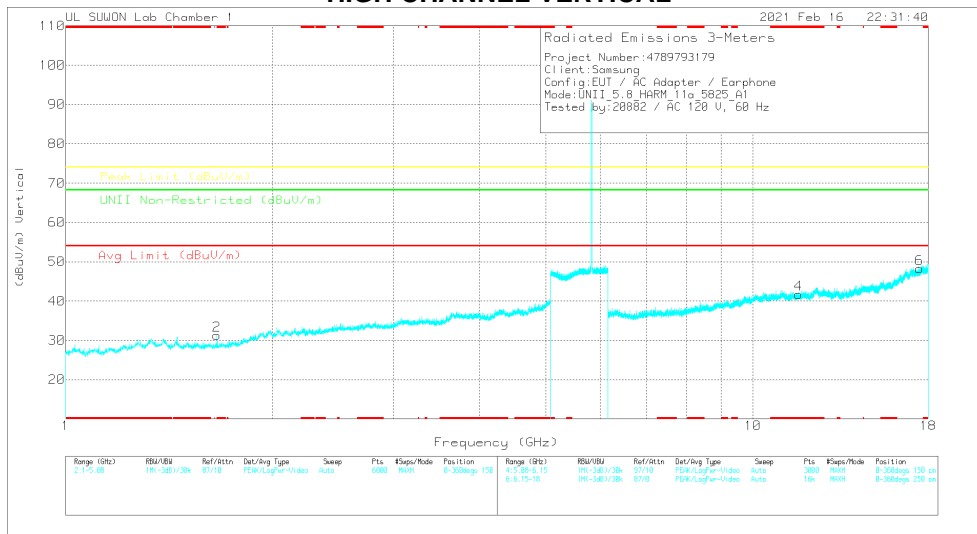
Frequency (GHz)	Meas Reading (dBuV)	Det	317_0016B717	5GHz_HFdB	DC Corr (dB)	Comsted Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
* 11.57239	33.64	PK-U	38.3	-22.3	0	49.64	-	-	74	-24.36	-	-	360	100	H
* 11.57324	33.77	PK-U	38.3	-22.3	0	49.77	-	-	74	-24.23	-	-	360	100	V
17.35304	33.39	PK-U	41.2	-17.5	0	57.09	-	-	-	-	68.2	-11.11	360	100	H
17.35183	33.31	PK-U	41.2	-17.6	0	56.91	-	-	-	-	68.2	-11.29	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	5GHz_HF[S]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
1.6599	46.4	PK-U	26.4	-35.8	0	30	-	-	-	-	68.2	-32.2	360	100	H
1.65846	46.19	PK-U	26.4	-35.7	0	38.89	-	-	-	-	68.2	-29.31	360	100	V

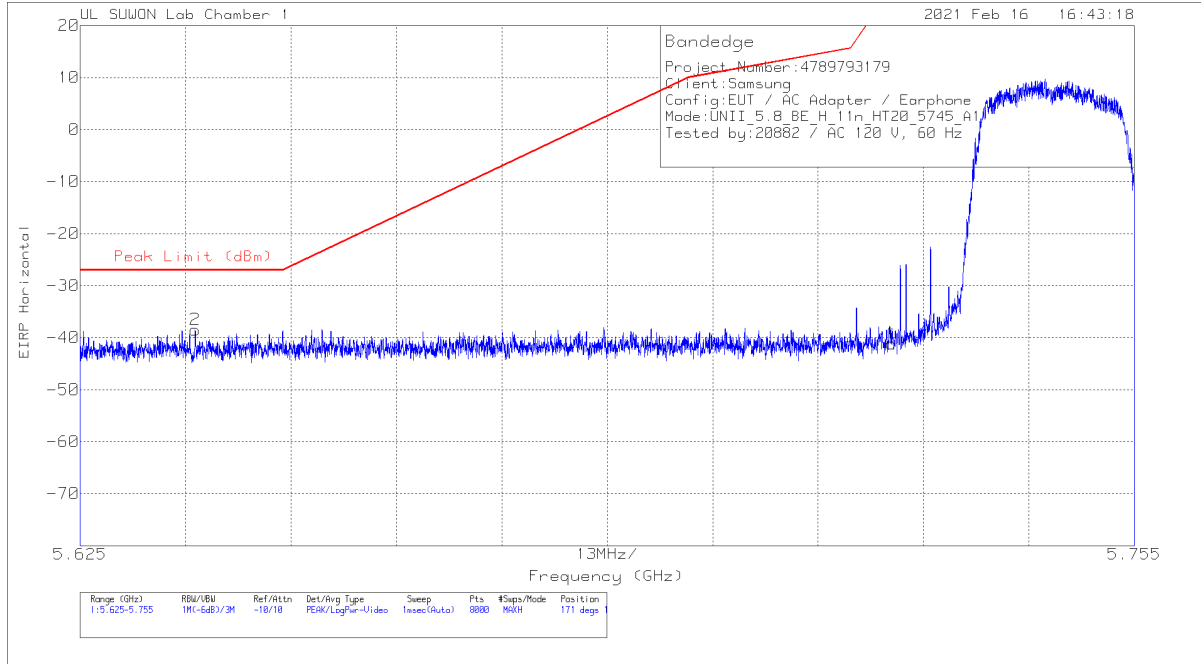
Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	6GHz_HF[S]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
* 11.65049	34.9	PK-U	38.3	-21.8	0	51.4	-	-	74	-22.6	-	-	360	100	H
* 11.64381	34.04	PK-U	38.3	-21.8	0	50.54	-	-	74	-23.46	-	-	360	100	V
17.4894	33.61	PK-U	41.2	-17.4	0	57.41	-	-	-	-	68.2	-10.79	360	100	H
17.4889	34.1	PK-U	41.2	-17.4	0	57.9	-	-	-	-	68.2	-10.3	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.4.2. TX ABOVE 1GHz 802.11n HT20 1Tx MODE IN THE 5.8GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK DATA

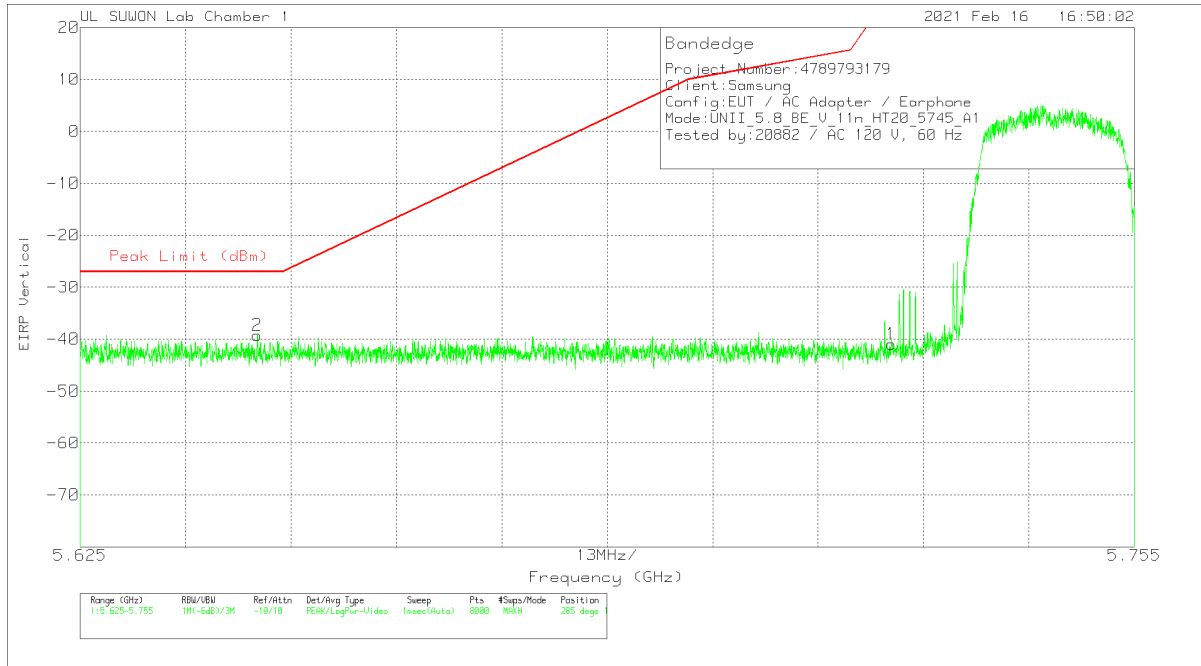


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-66.92	Pk	34.9	-20.9	11.8	0	-41.12	27	-68.12	171	100	H
2	5.63919	-64.08	Pk	34.8	-21	11.8	0	-38.48	-27	-11.48	171	100	H

Pk - Peak detector

VERTICAL PEAK DATA



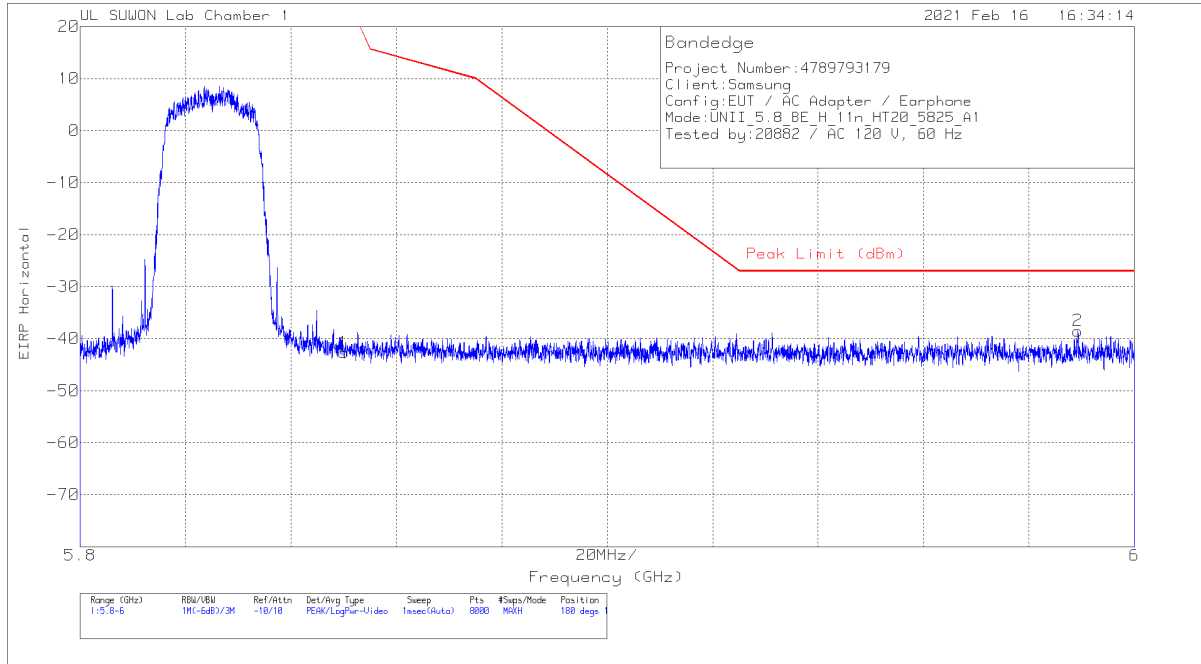
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-66.74	Pk		-20.9	11.8	0	-40.94	27	-67.94	285	100	V
2	5.64684	-64.96	Pk		-20.9	11.8	0	-39.26	-27	-12.26	285	100	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

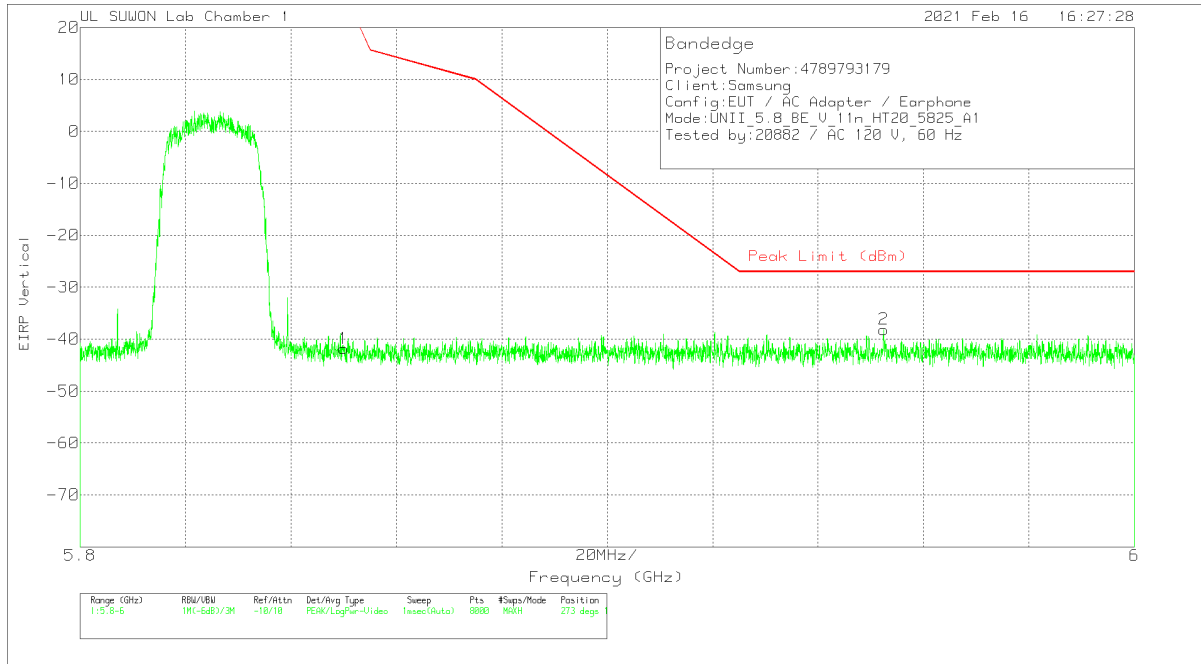


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-68.67	Pk	35.1	-20.9	11.8	0	-42.67	26.99	-69.66	180	103	H
2	5.98927	-64.99	Pk	35.2	-20.5	11.8	0	-38.49	-27	-11.49	180	103	H

Pk - Peak detector

VERTICAL PEAK DATA



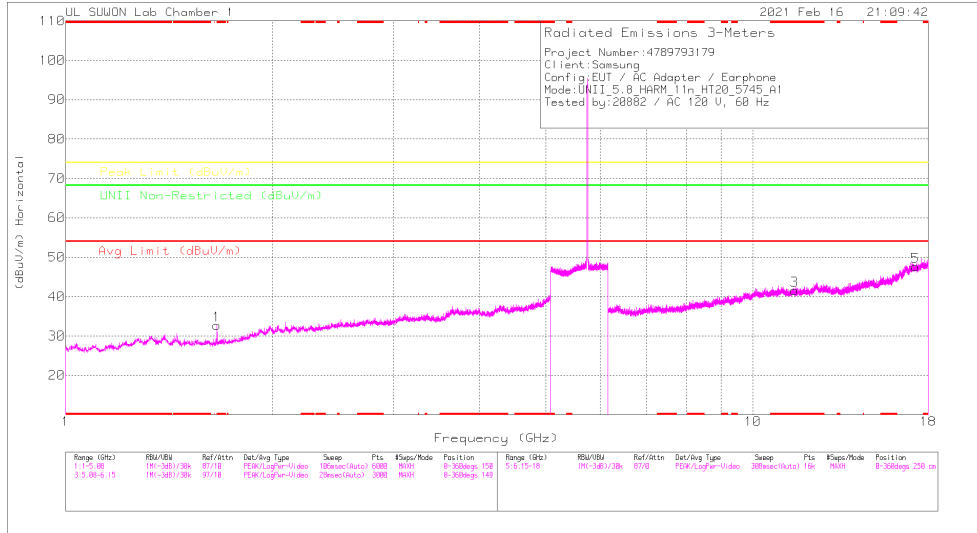
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-67.82	Pk	35.1	-20.9	11.8	0	-41.82	26.99	-68.81	273	102	V
2	5.95244	-64.32	PK	35.2	-20.8	11.8	0	-38.12	-27	-11.12	273	102	V

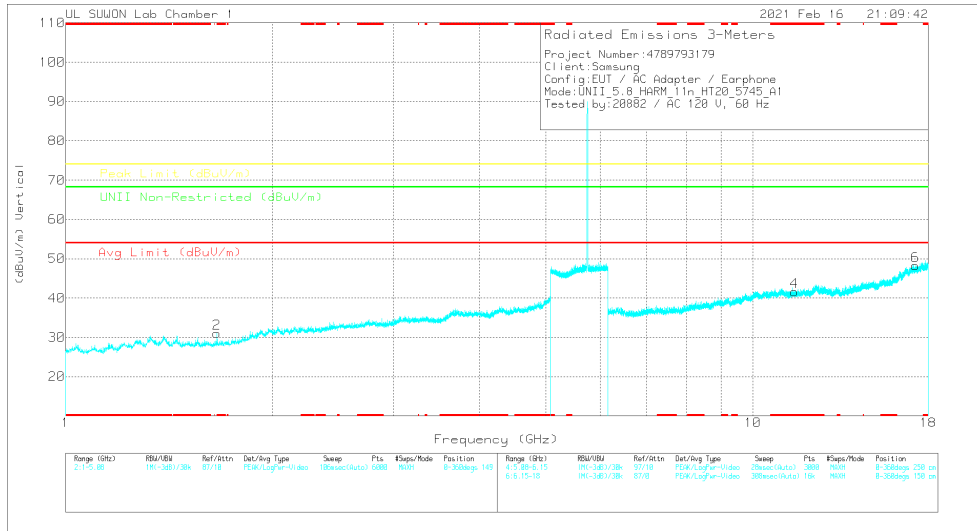
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

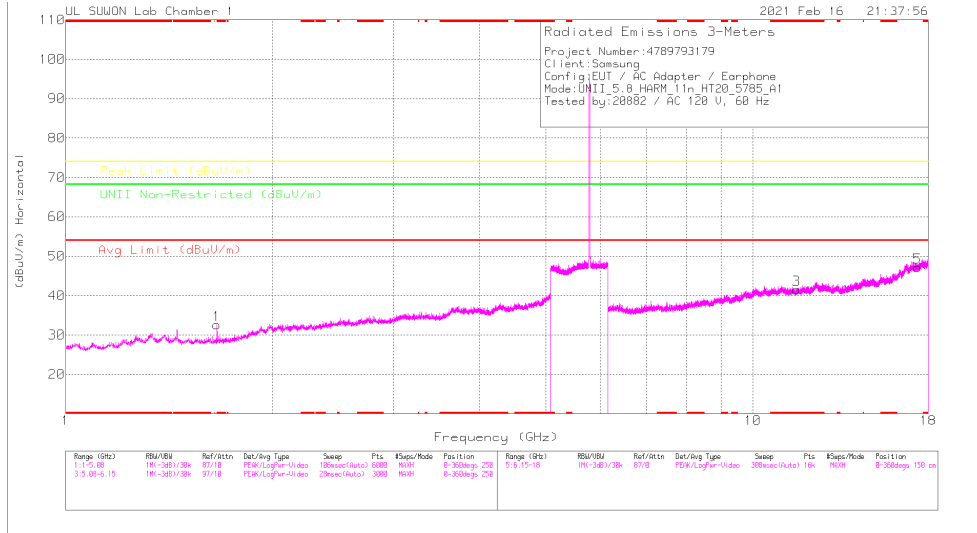
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	317_00168717	6GHz_HPSR	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.6596	46.77	PK-U	28.4	-35.8	0	39.37	-	-	-	-	68.2	-28.83	360	100	H
1.6599	46.95	PK-U	28.4	-35.8	0	39.55	-	-	-	-	68.2	-28.65	360	100	V

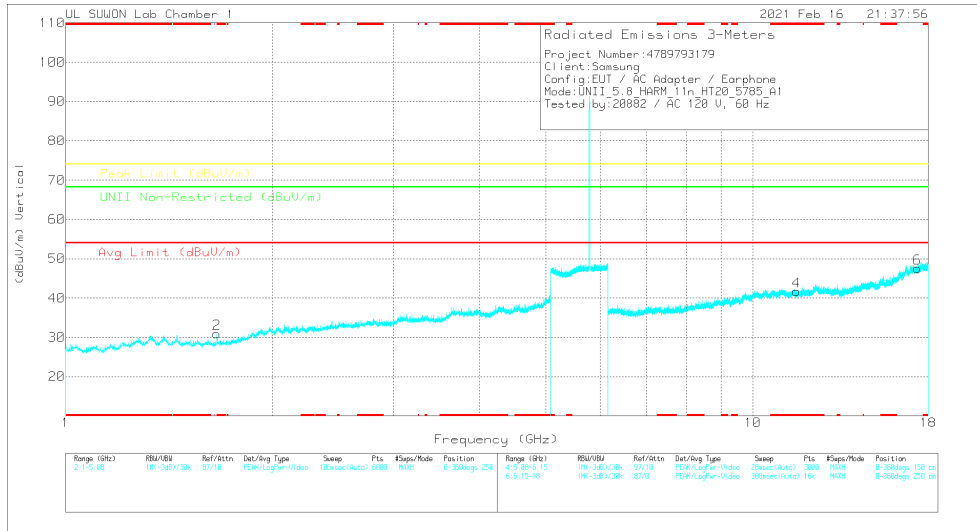
Frequency (GHz)	Meter Reading (dBuV)	Det	317_00168717	6GHz_HPSR	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 11.48984	34.42	PK-U	38.4	-22.2	0	50.62	-	74	-23.38	-	-	-	360	100	H
* 11.49276	34.73	PK-U	38.4	-22.2	0	50.93	-	74	-23.07	-	-	-	360	100	V
17.23364	33.87	PK-U	41.3	-17.5	0	57.67	-	-	-	-	68.2	-10.53	360	100	H
17.23237	33.42	PK-U	41.3	-17.5	0	57.22	-	-	-	-	68.2	-10.98	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

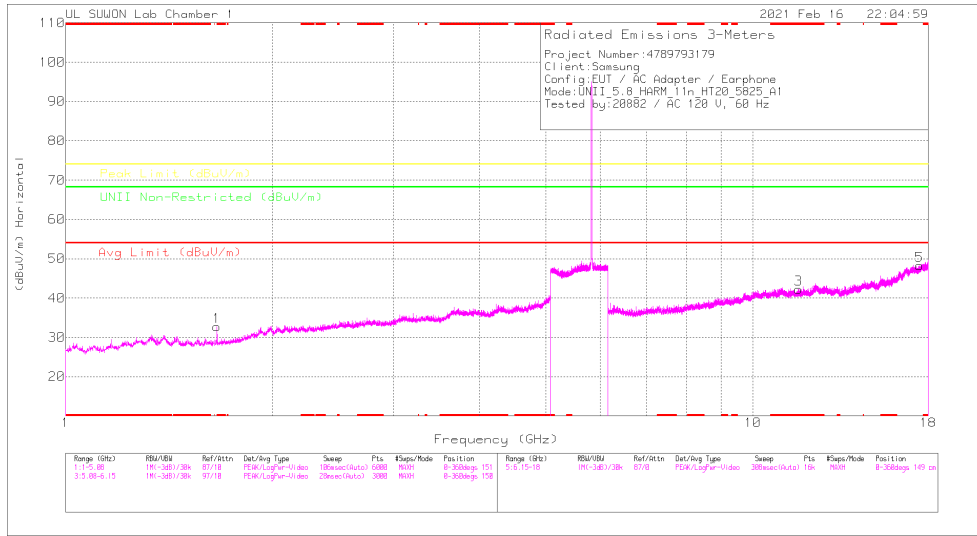
MID CHANNEL DATA

Radiated Emissions

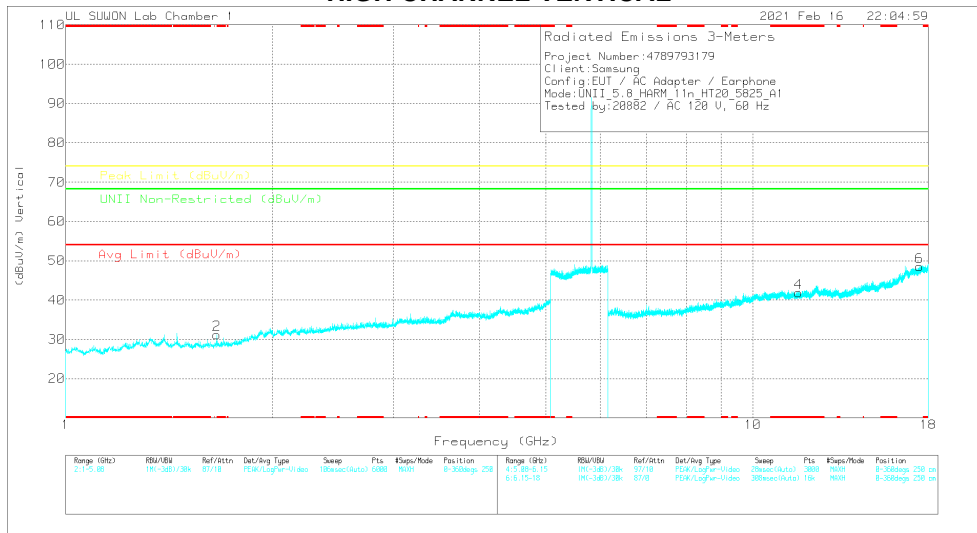
Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168717	5GHz_LPF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.65953	46.58	PK-U		-35.7	0	39.28	-	-	-	-	68.2	-28.92	360	100	H
1.6599	46.44	PK-U		-35.8	0	39.04	-	-	-	-	68.2	-29.16	360	100	V
* 11.57874	35.03	PK-U		-22.2	0	51.13	-	-	74	-22.87	-	-	360	100	H
* 11.57899	34.61	PK-U		-22.2	0	50.71	-	-	74	-23.29	-	-	360	100	V
17.35428	33.89	PK-U		-17.6	0	57.49	-	-	-	-	68.2	-10.71	360	100	H
17.35424	33.54	PK-U		-17.6	0	57.14	-	-	-	-	68.2	-11.06	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	5GHz_LP[S]	DC Corr (dB)	Corrected Reading (dBuV)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Admth (Deg)	Height (cm)	Polarity
1.6595	46.62	PK-U	28.4	-35.7	0	39.32	-	-	-	-	68.2	-28.88	360	100	H
1.6599	46.66	PK-U	28.4	-35.8	0	39.26	-	-	-	-	68.2	-28.94	360	100	V

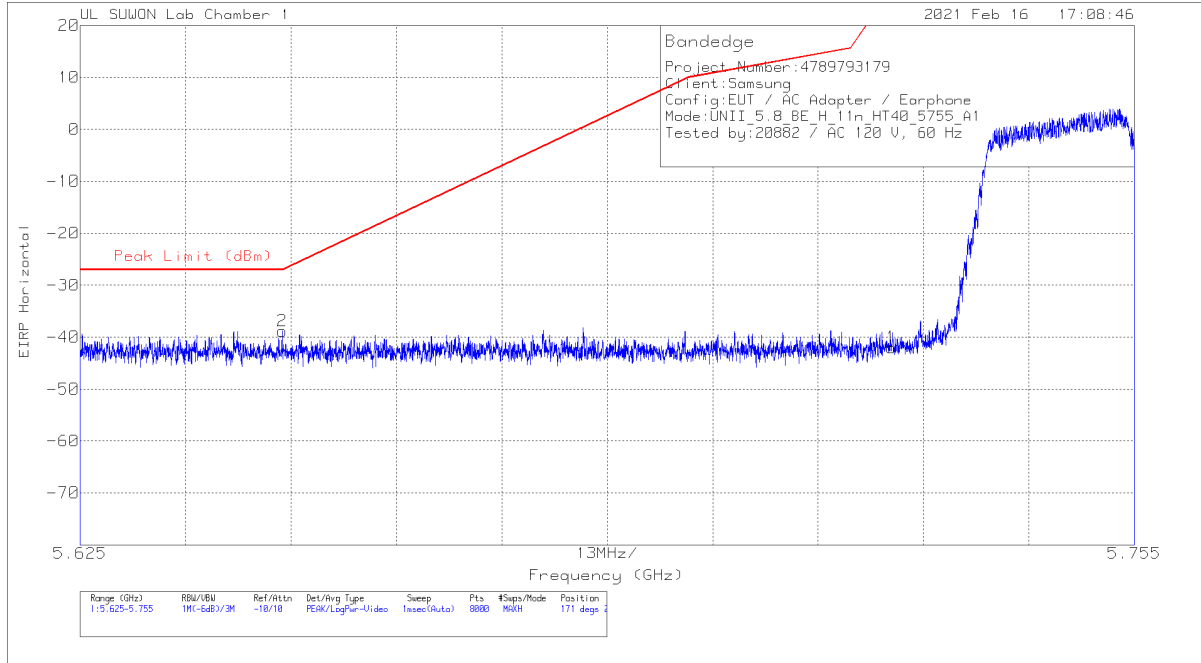
Frequency (GHz)	Max Reading (dBuV)	Det	317_00168717	5GHz_LP[S]	DC Corr (dB)	Corrected Reading (dBuV)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Admth (Deg)	Height (cm)	Polarity
* 11.64719	35.22	PK-U	38.3	-21.8	0	51.72	-	-	74	-22.28	-	-	360	100	H
* 11.64714	34.41	PK-U	38.3	-21.8	0	50.91	-	-	74	-23.09	-	-	360	100	V
17.47368	34.02	PK-U	41.2	-17.4	0	57.82	-	-	-	-	68.2	-10.38	360	100	H
17.47351	33.51	PK-U	41.2	-17.3	0	57.41	-	-	-	-	68.2	-10.79	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.4.3. TX ABOVE 1GHz 802.11n HT40 1Tx MODE IN THE 5.8GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK DATA

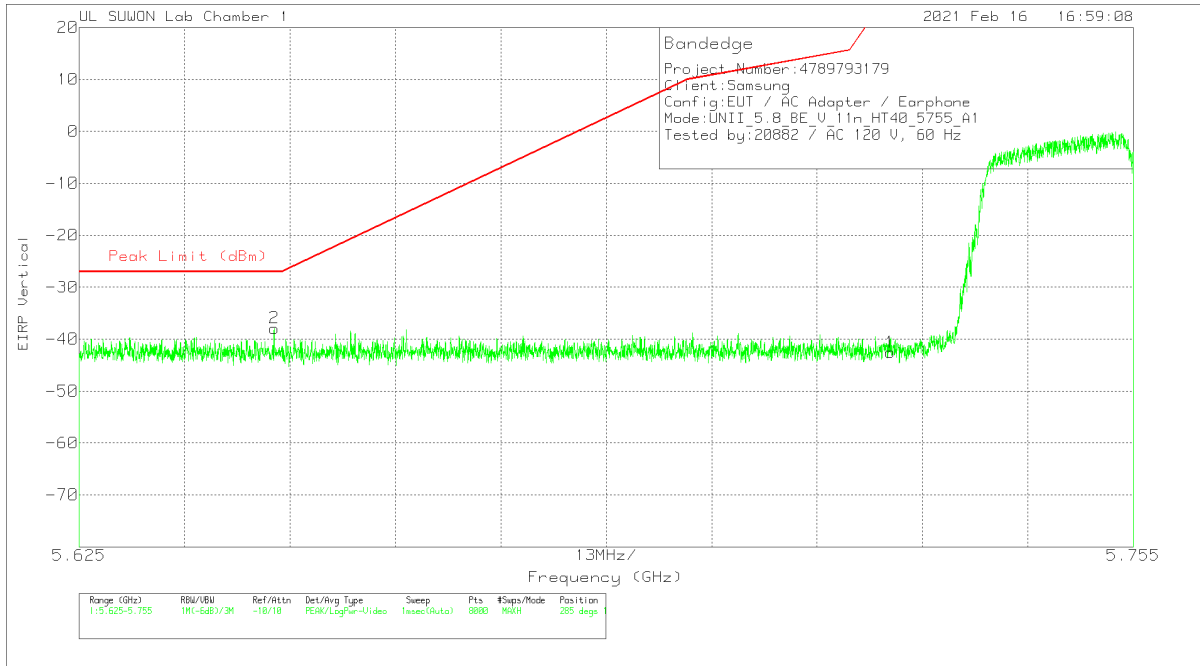


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-67.81	Pk	34.9	-20.9	11.8	0	-42.01	27	-69.01	171	261	H
2	5.6499	-64.42	Pk	34.8	-21	11.8	0	-38.82	-27	-11.82	171	261	H

Pk - Peak detector

VERTICAL PEAK DATA



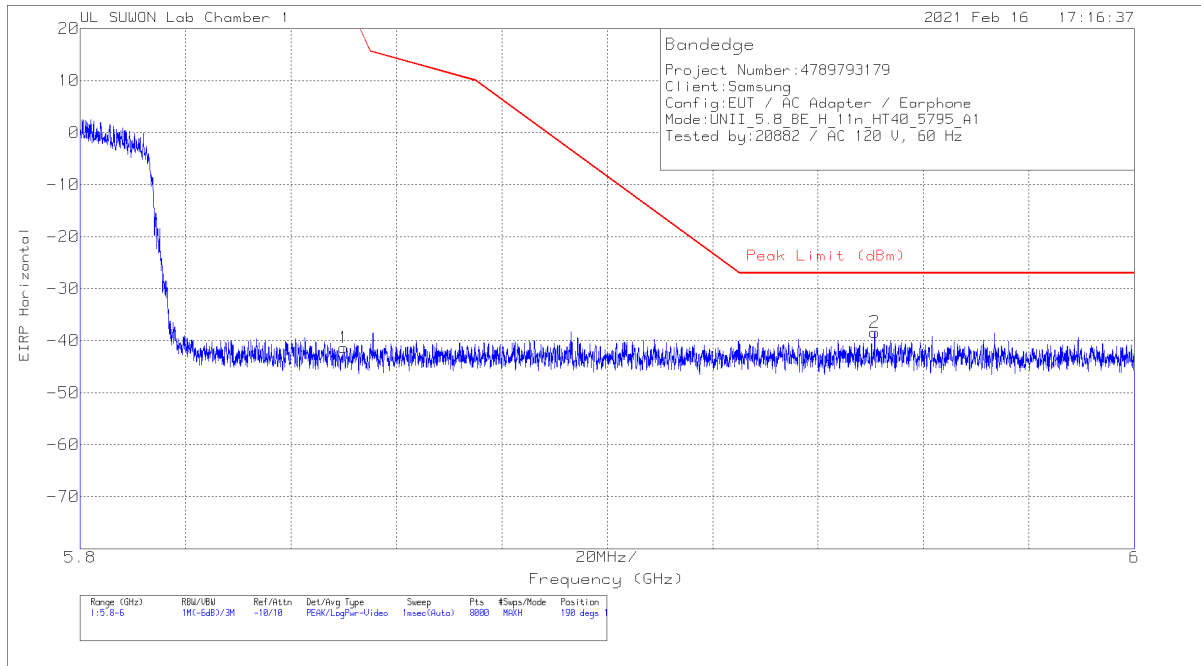
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-68.36	Pk	34.9	-20.9	11.8	0	-42.56	27	-69.56	285	100	V
2	5.64905	-63.58	Pk	34.8	-20.9	11.8	0	-37.88	-27	-10.88	285	100	V

PK - Peak detector

BADEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

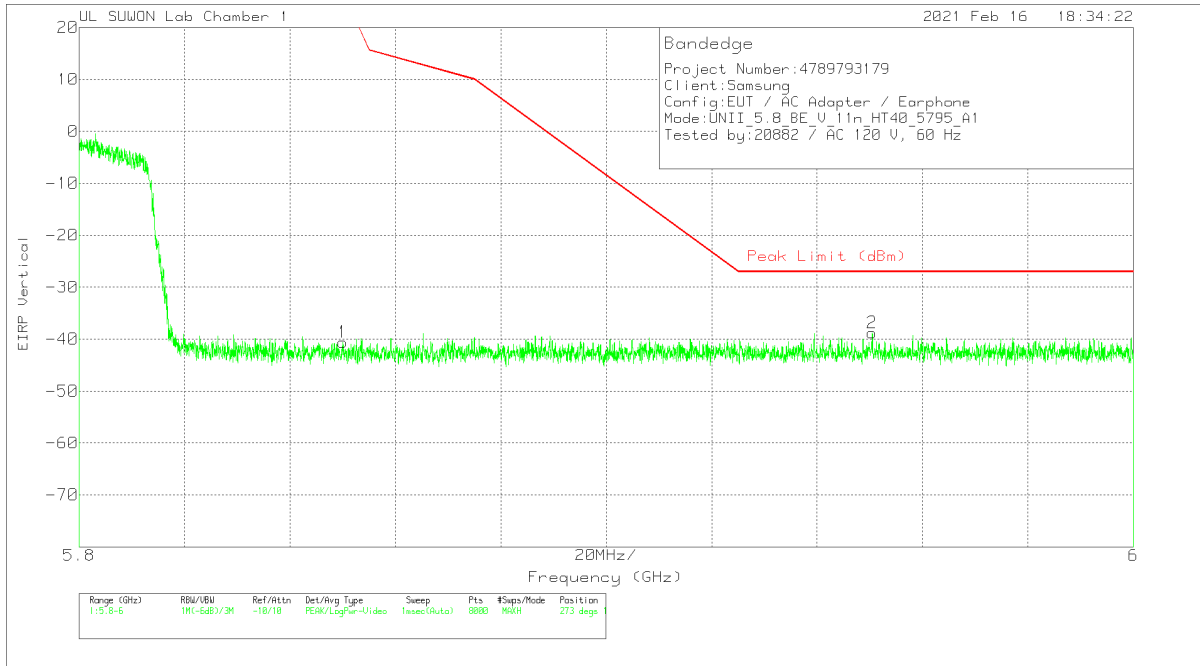


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-67.35	Pk	35.1	-20.9	11.8	0	-41.35	26.99	-68.34	190	100	H
2	5.95074	-64.7	Pk	35.2	-20.7	11.8	0	-38.4	-27	-11.4	190	100	H

Pk - Peak detector

VERTICAL PEAK DATA



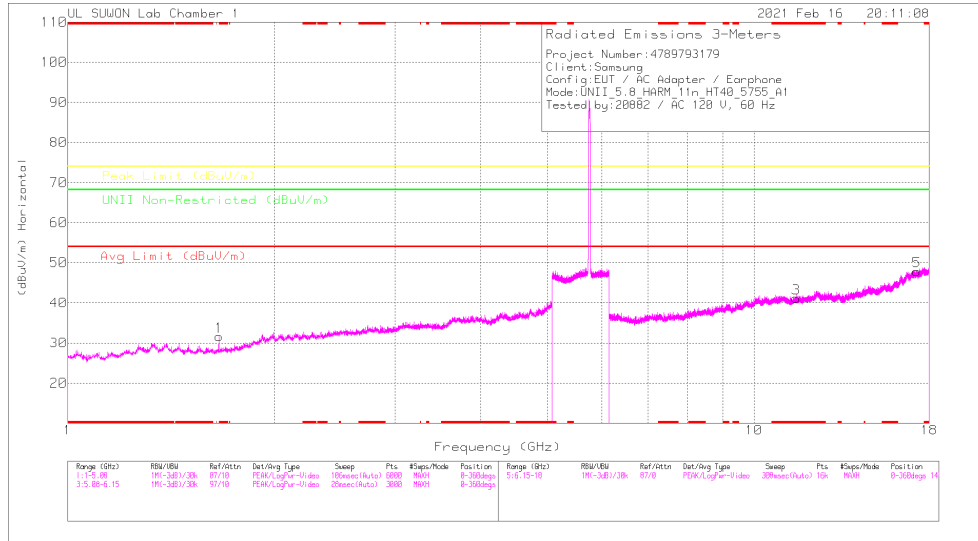
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-66.59	Pk	35.1	-20.9	11.8	0	-40.59	26.99	-67.58	273	128	V
2	5.95047	-65.08	Pk	35.2	-20.7	11.8	0	-38.78	-27	-11.78	273	128	V

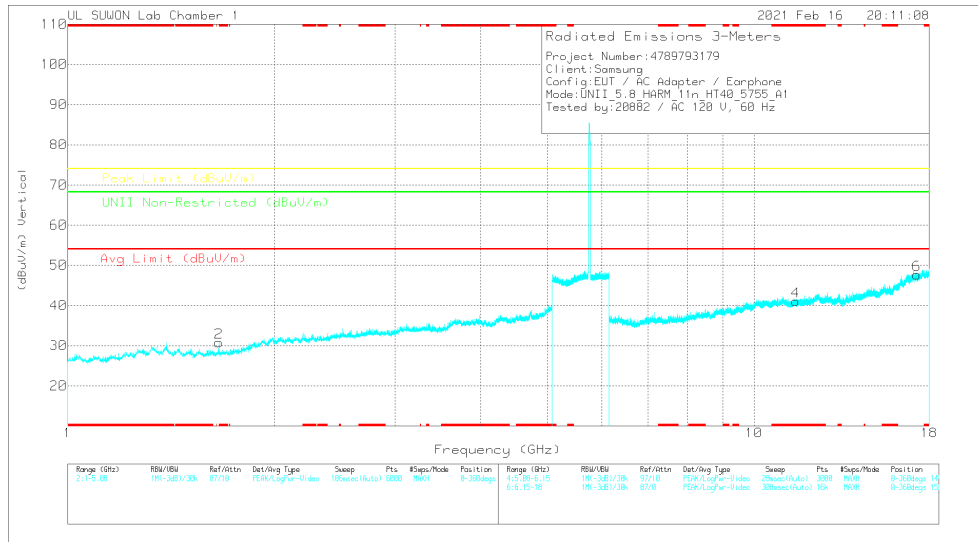
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

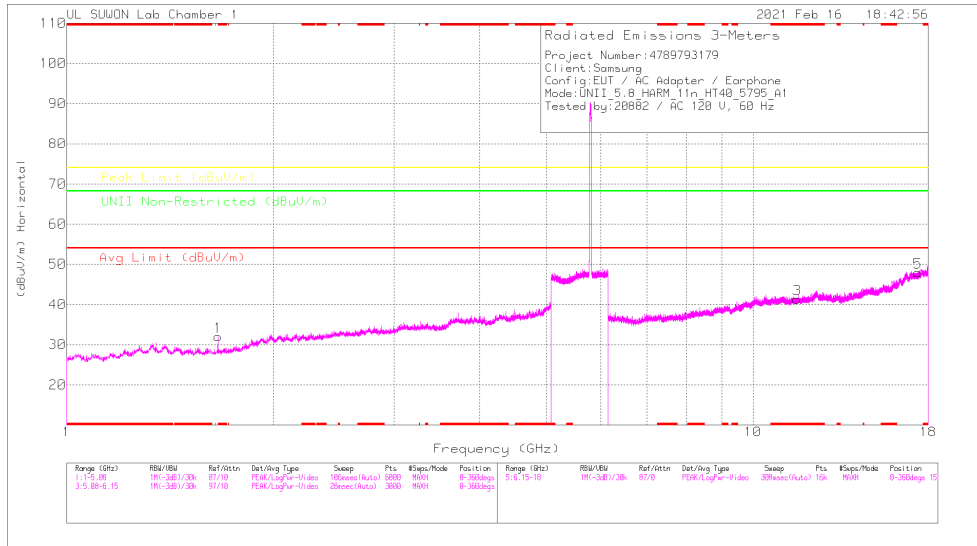
LOW CHANNEL DATA

Radiated Emissions

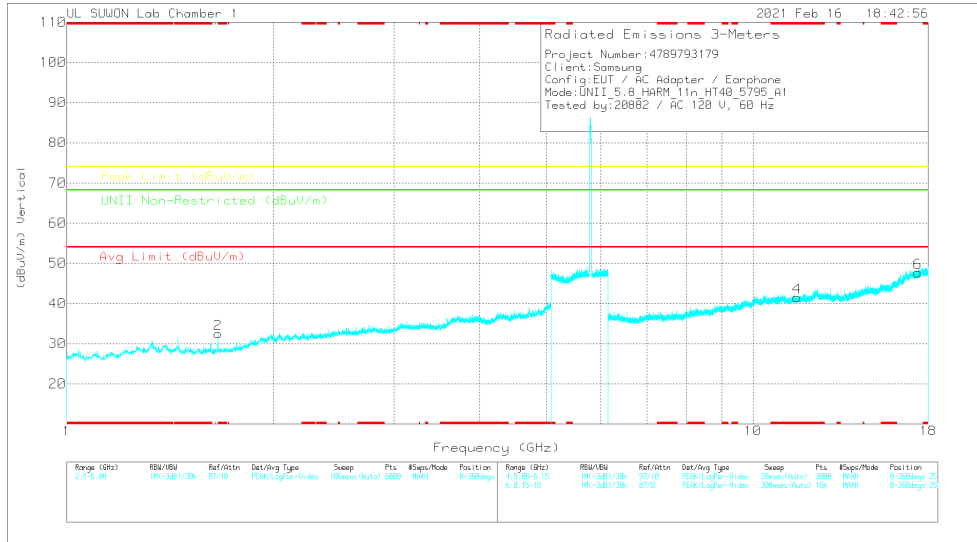
Frequency (GHz)	Meas Reading (dBuV)	Det	3117_0016B717	5GHz_LFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (m)	Polarity
1.65981	46.02	PK-U	28.4	-35.8	0	38.62	-	-	-	-	68.2	-29.58	360	100	H
1.65984	45.78	PK-U	28.4	-35.8	0	38.38	-	-	-	-	68.2	-29.82	360	100	V
11.5128	34.74	PK-U	38.3	-22.4	0	50.64	-	-	74	-23.36	-	-	360	100	H
11.51582	34.09	PK-U	38.3	-22.4	0	49.99	-	-	74	-24.01	-	-	360	100	V
17.26851	33	PK-U	41.2	-17.5	0	56.7	-	-	-	-	68.2	-11.5	360	100	H
17.26984	32.77	PK-U	41.2	-17.5	0	56.47	-	-	-	-	68.2	-11.73	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	3117_0168717	5GHz_LF(5B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (m)	Height (m)	Polarity
1.65965	46.16	PK-U	28.4	-35.7	0	38.96	-	-	-	-	68.2	-29.34	360	100	H
1.65994	45.96	PK-U	28.4	-35.8	0	38.56	-	-	-	-	68.2	-29.64	360	100	V

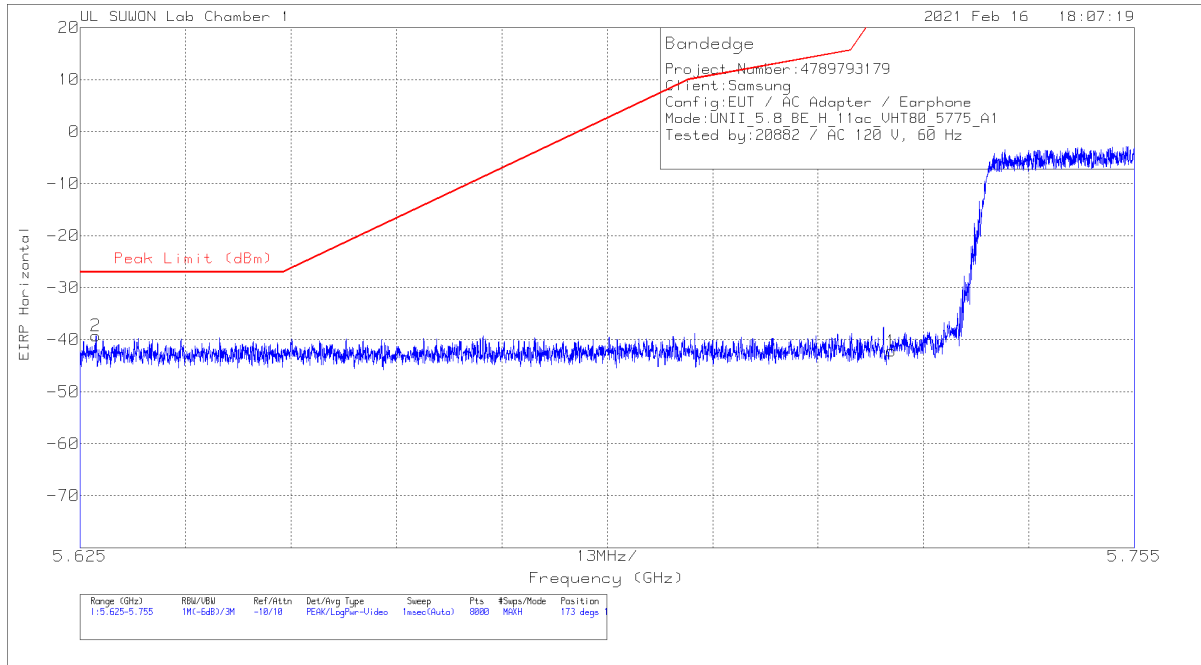
Frequency (GHz)	Max Reading (dBuV)	Det	3117_00168717	6GHz_HF(5B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (m)	Height (m)	Polarity
* 11.59253	34.09	PK-U	38.3	-22.1	0	50.29	-	-	74	-23.71	-	-	360	100	H
* 11.59064	34.07	PK-U	38.3	-22.2	0	50.17	-	-	74	-23.83	-	-	360	100	V
17.39215	33.31	PK-U	41.2	-17.7	0	56.81	-	-	-	-	68.2	-11.39	360	100	H
17.38918	33.15	PK-U	41.2	-17.7	0	56.65	-	-	-	-	68.2	-11.55	360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.4.4. TX ABOVE 1GHz 802.11ac VHT80 1Tx MODE IN THE 5.8GHz BAND

BANDEDGE (Lower side)

HORIZONTAL PEAK DATA

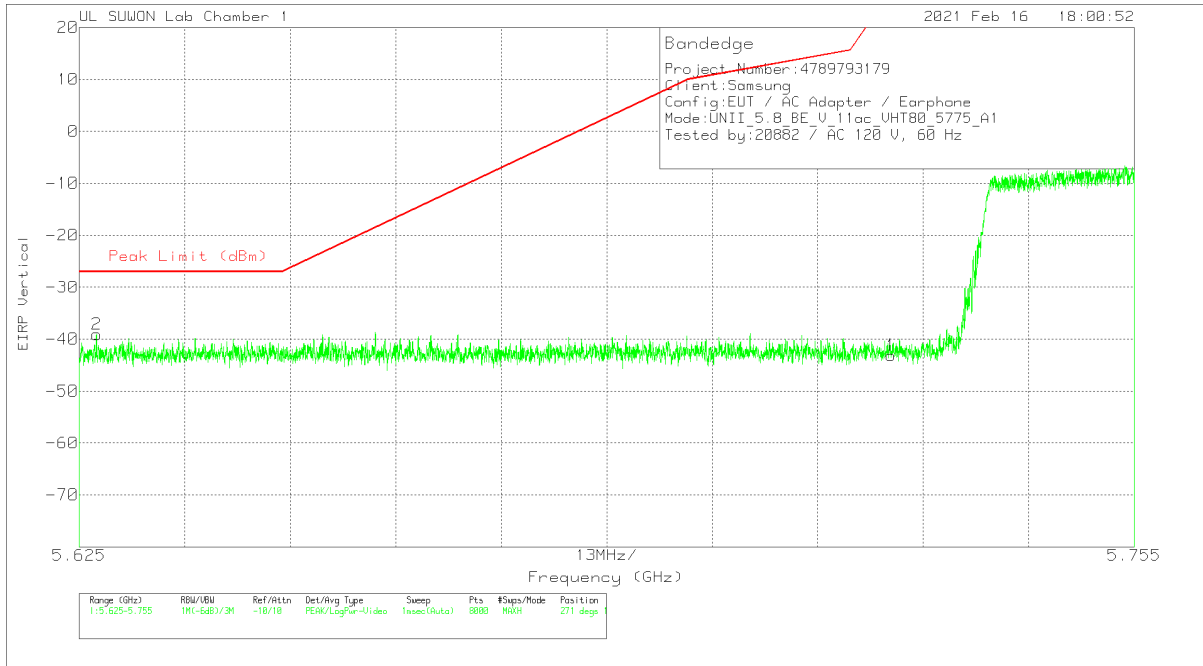


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-68	Pk	34.9	-20.9	11.8	0	-42.2	27	-69.2	173	101	H
2	5.62695	-64.76	Pk	34.7	-21	11.8	0	-39.26	-27	-12.26	173	101	H

Pk - Peak detector

VERTICAL PEAK DATA



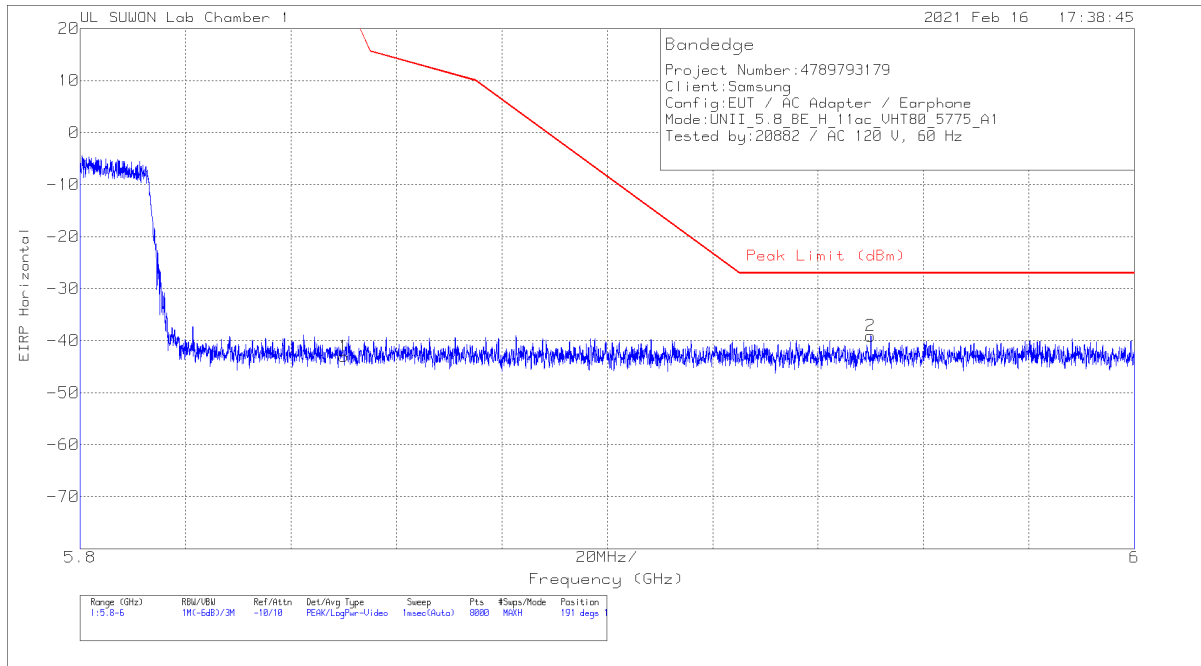
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-68.93	Pk	34.9	-20.9	11.8	0	-43.13	27	-70.13	271	111	V
2	5.62713	-64.58	Pk	34.7	-21	11.8	0	-39.08	-27	-12.08	271	111	V

PK - Peak detector

BANDEDGE (Upper side)

HORIZONTAL PEAK DATA

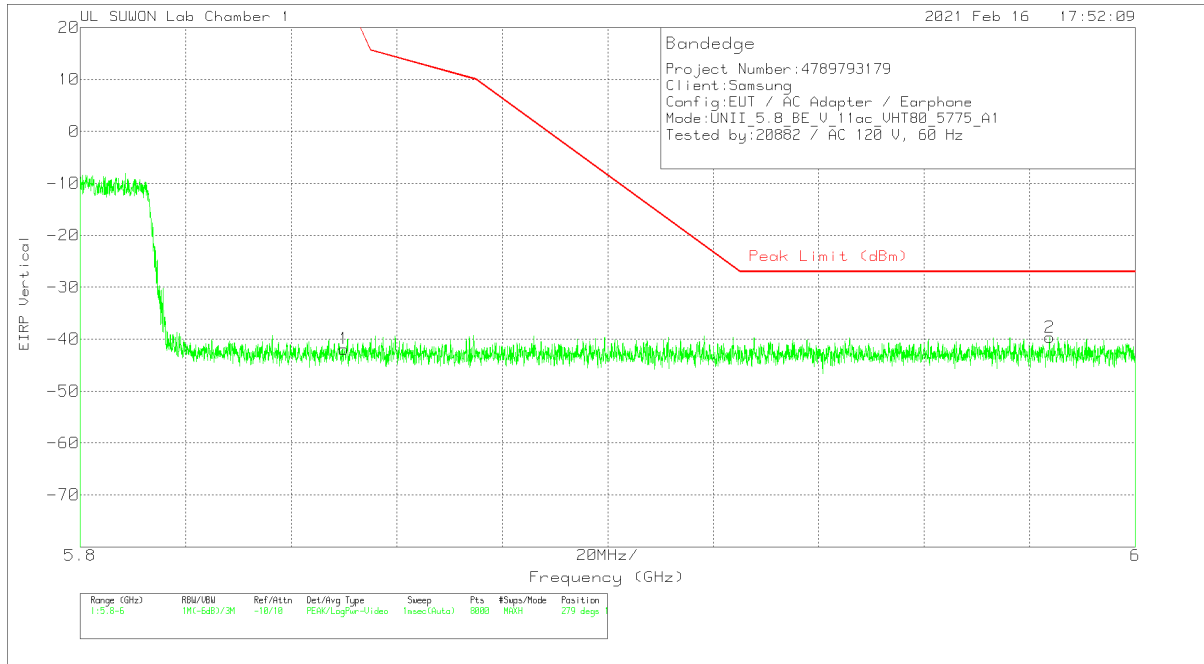


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-69.03	Pk	35.1	-20.9	11.8	0	-43.03	26.99	-70.02	191	100	H
2	5.94999	-65.38	Pk	35.2	-20.7	11.8	0	-39.08	-27	-12.08	191	100	H

Pk - Peak detector

VERTICAL PEAK DATA



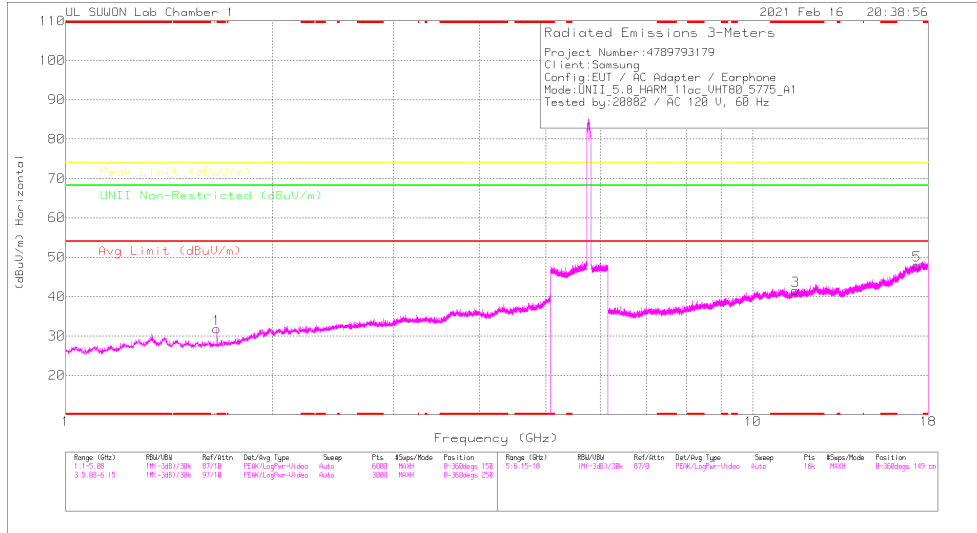
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168717	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-67.88	Pk	35.1	-20.9	11.8	0	-41.88	26.99	-68.87	279	117	V
2	5.98377	-65.94	Pk	35.2	-20.7	11.8	0	-39.64	-27	-12.64	279	117	V

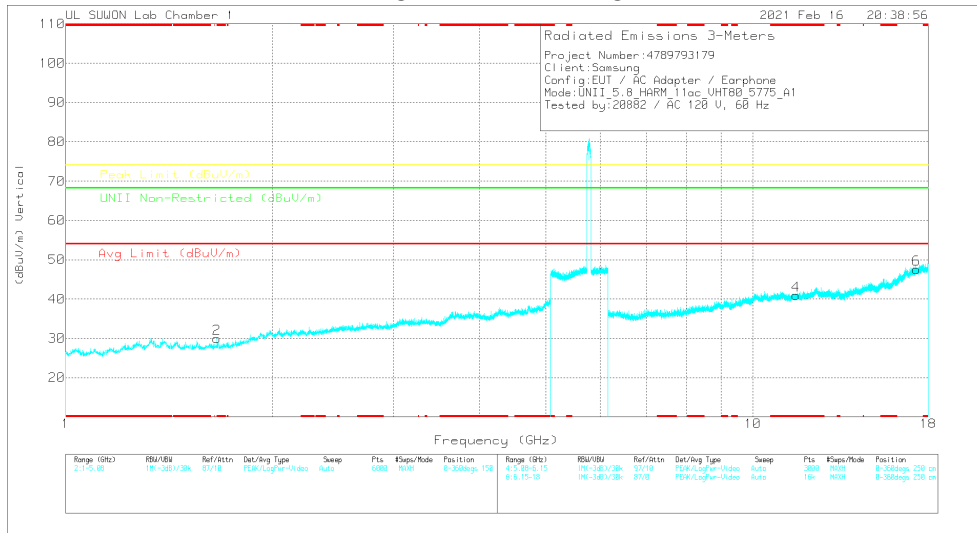
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Radiated Emissions

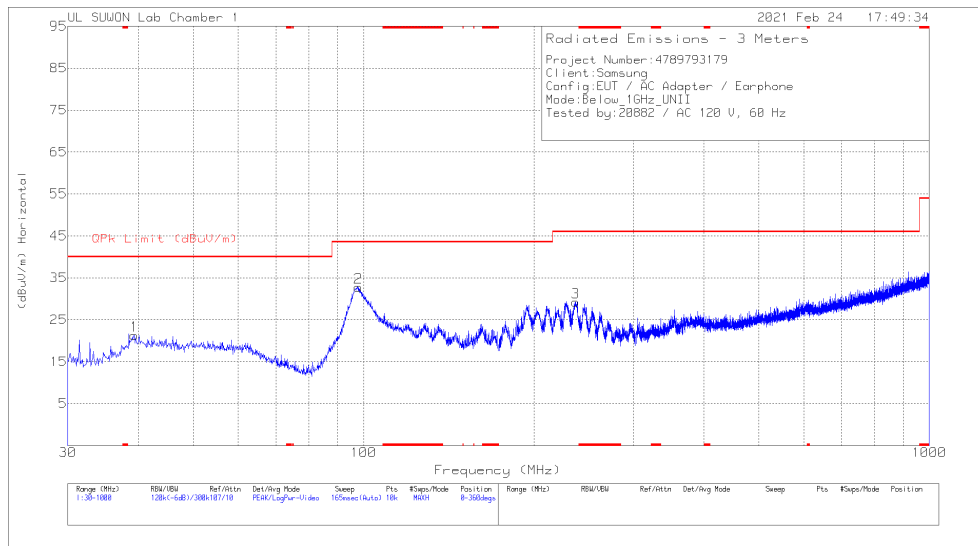
Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168717	5GHz_LF(5B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.65967	45.61	PK-U	28.4	-35.7	0	38.31	-	-	-	-	68.2	-29.89	360	100	H
1.65958	46	PK-U	28.4	-35.7	0	38.7	-	-	-	-	68.2	-29.5	360	100	V

Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168717	6GHz_HF(5B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.54313	33.56	PK-U	38.3	-22.3	0	49.56	-	-	74	-24.44	-	-	360	100	H
* 11.54385	33.76	PK-U	38.3	-22.3	0	49.76	-	-	74	-24.24	-	-	360	100	V
17.3269	32.9	PK-U	41.2	-17.5	0	56.6	-	-	-	-	68.2	-11.6	360	100	H
17.32594	32.45	PK-U	41.2	-17.5	0	56.15	-	-	-	-	68.2	-12.05	360	100	V

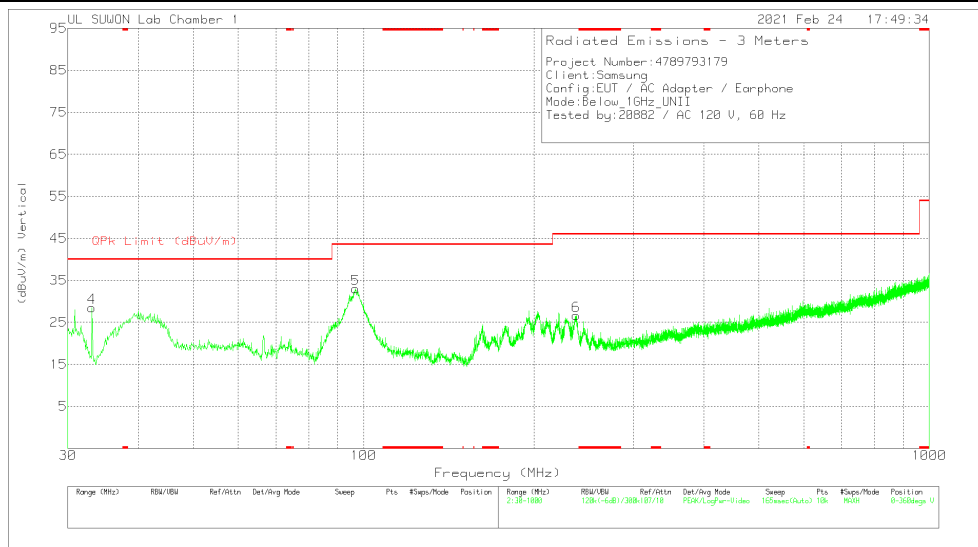
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

12. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	39.312	33.01	Pk	18.5	-30.2	21.31	40	-18.69	0-360	200	H
2	97.9	44.96	Pk	17.3	-29.5	32.76	43.52	-10.76	0-360	300	H
3	237.192	39.33	Pk	18	-28.1	29.23	46.02	-16.79	0-360	100	H
4	33.104	43.68	Pk	15.8	-31	28.48	40	-11.52	0-360	100	V
5	96.736	45.67	Pk	17	-29.7	32.97	43.52	-10.55	0-360	100	V
6	237.483	36.84	Pk	18	-28.2	26.64	46.02	-19.38	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

13. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
IC RSS-GEN Clause 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

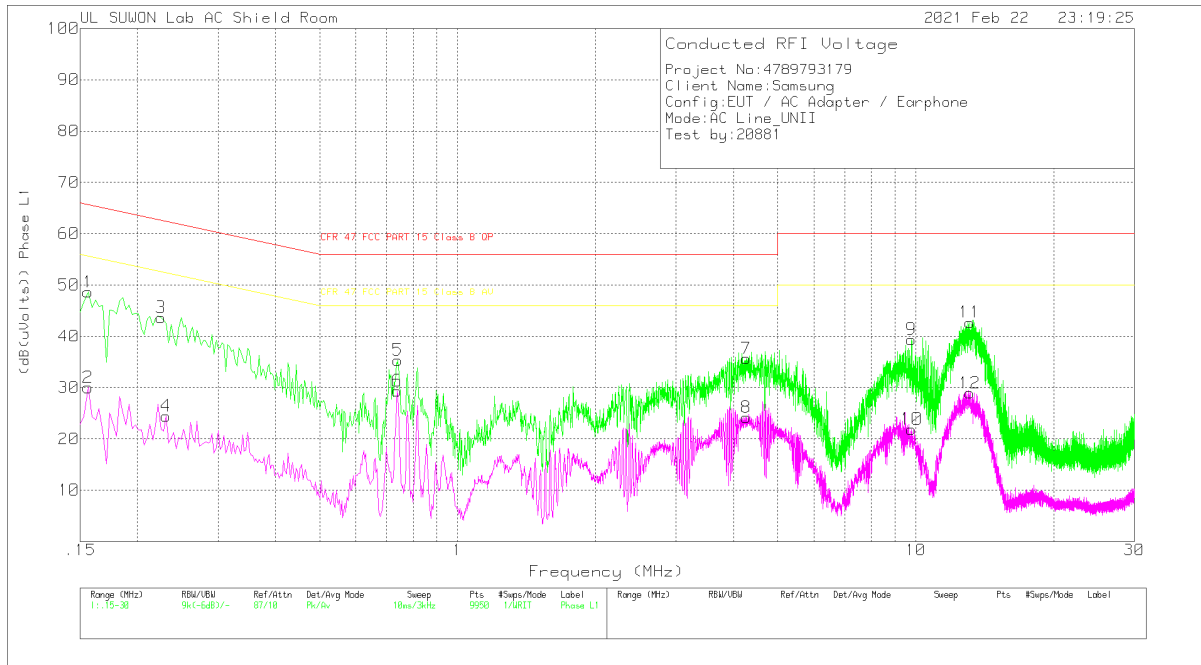
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

WORST EMISSIONS

LINE 1 DATA



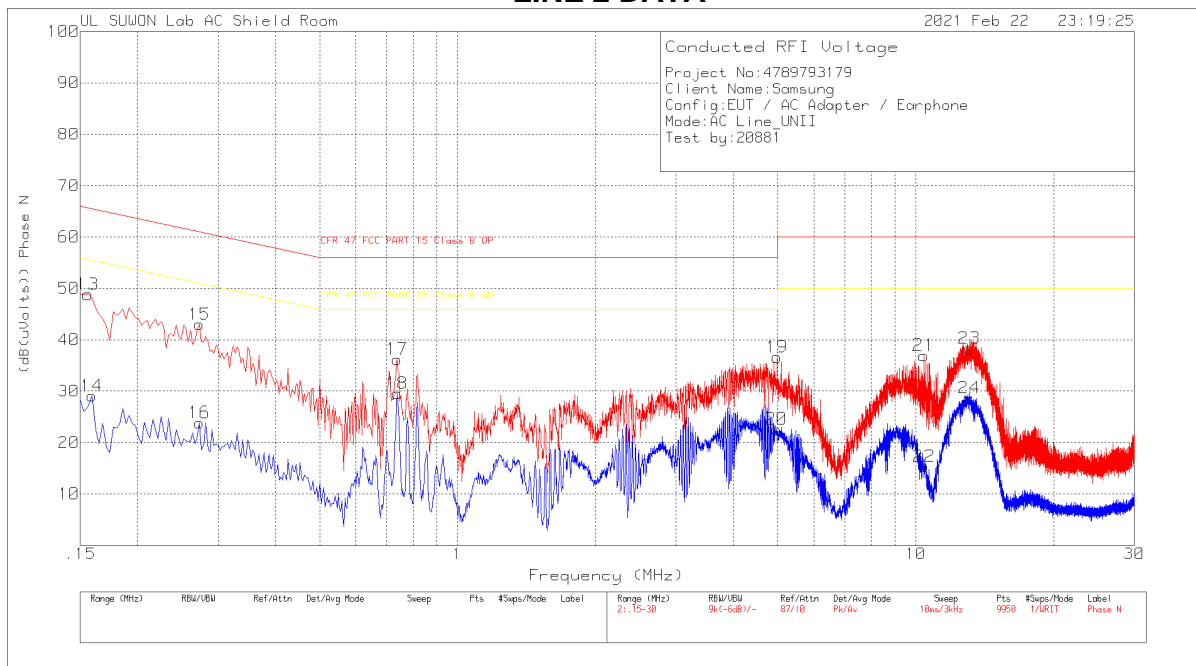
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.156	38.61	Pk	9.9	.1	48.61	65.67	-17.06	-	-
2	.156	20.02	Av	9.9	.1	30.02	-	-	55.67	-25.65
3	.225	33.64	Pk	9.8	.2	43.64	62.63	-18.99	-	-
4	.231	14.46	Av	9.8	.2	24.46	-	-	52.41	-27.95
5	.741	25.25	Pk	9.9	.2	35.35	56	-20.65	-	-
6	.738	19.26	Av	9.9	.2	29.36	-	-	46	-16.64
7	4.266	25.55	Pk	9.8	.3	35.65	56	-20.35	-	-
8	4.263	14.09	Av	9.8	.3	24.19	-	-	46	-21.81
9	9.792	29.07	Pk	9.9	.4	39.37	60	-20.63	-	-
10	9.792	11.59	Av	9.9	.4	21.89	-	-	50	-28.11
11	13.128	32.3	Pk	10	.4	42.7	60	-17.3	-	-
12	13.113	18.54	Av	10	.4	28.94	-	-	50	-21.06

Pk - Peak detector

Av - Average detection

LINE 2 DATA



Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.156	38.84	Pk	9.9	.1	48.84	65.67	-16.83	-	-
14	.159	19.08	Av	9.9	.1	29.08	-	-	55.52	-26.44
15	.273	33.09	Pk	9.7	.2	42.99	61.03	-18.04	-	-
16	.273	13.96	Av	9.7	.2	23.86	-	-	51.03	-27.17
17	.738	26.1	Pk	9.9	.2	36.2	56	-19.8	-	-
18	.738	19.47	Av	9.9	.2	29.57	-	-	46	-16.43
19	4.977	26.5	Pk	9.8	.3	36.6	56	-19.4	-	-
20	4.965	12.51	Av	9.8	.3	22.61	-	-	46	-23.39
21	10.407	26.53	Pk	10	.4	36.93	60	-23.07	-	-
22	10.431	4.95	Av	10	.4	15.35	-	-	50	-34.65
23	13.089	27.81	Pk	10.1	.4	38.31	60	-21.69	-	-
24	13.089	18.15	Av	10.1	.4	28.65	-	-	50	-21.35

Pk - Peak detector

Av - Average detection

14. DYNAMIC FREQUENCY SELECTION

14.1. OVERVIEW

14.1.1. LIMITS

FCC

§15.407 (h), FCC KDB 905462 D02 “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION” and KDB 905462 D03 “U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY”.