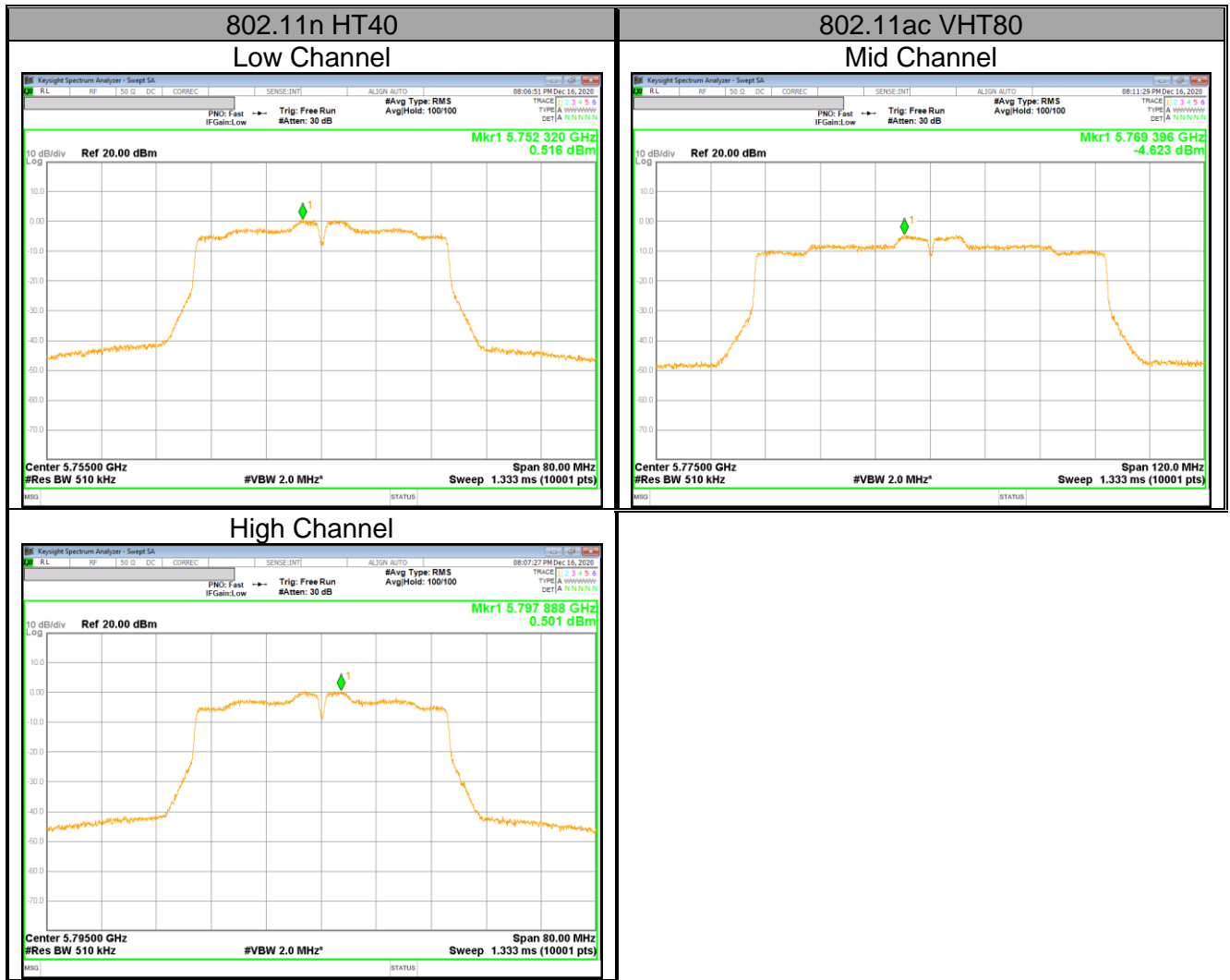


UNII 5.8 GHz Band





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 150 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.

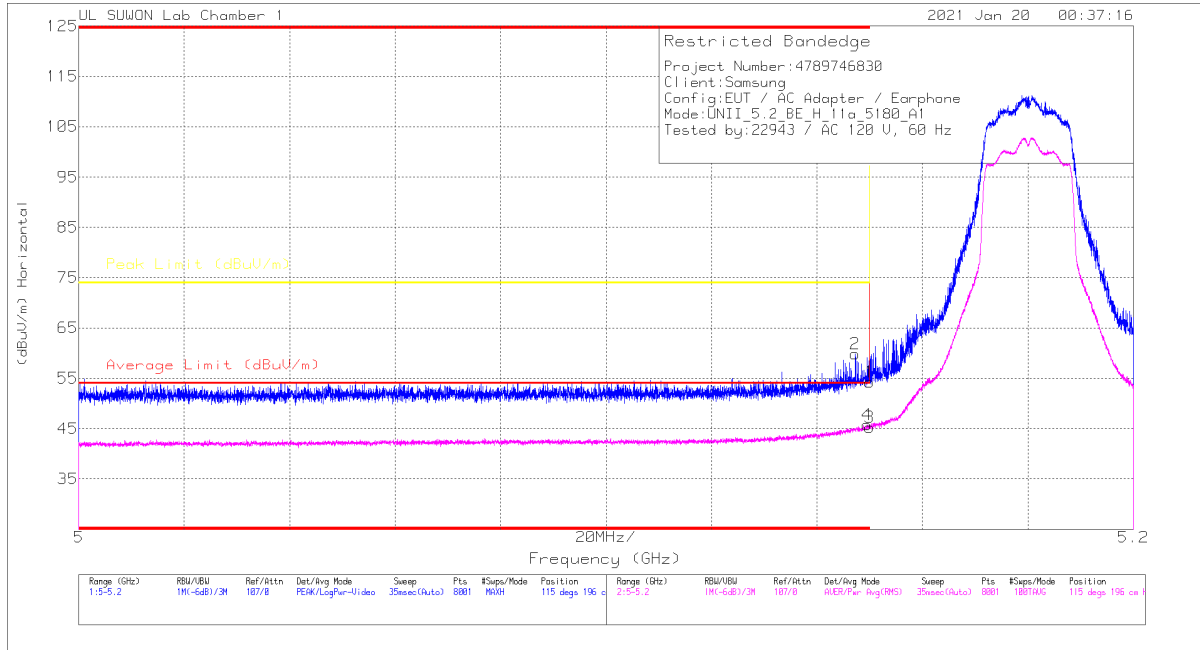
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

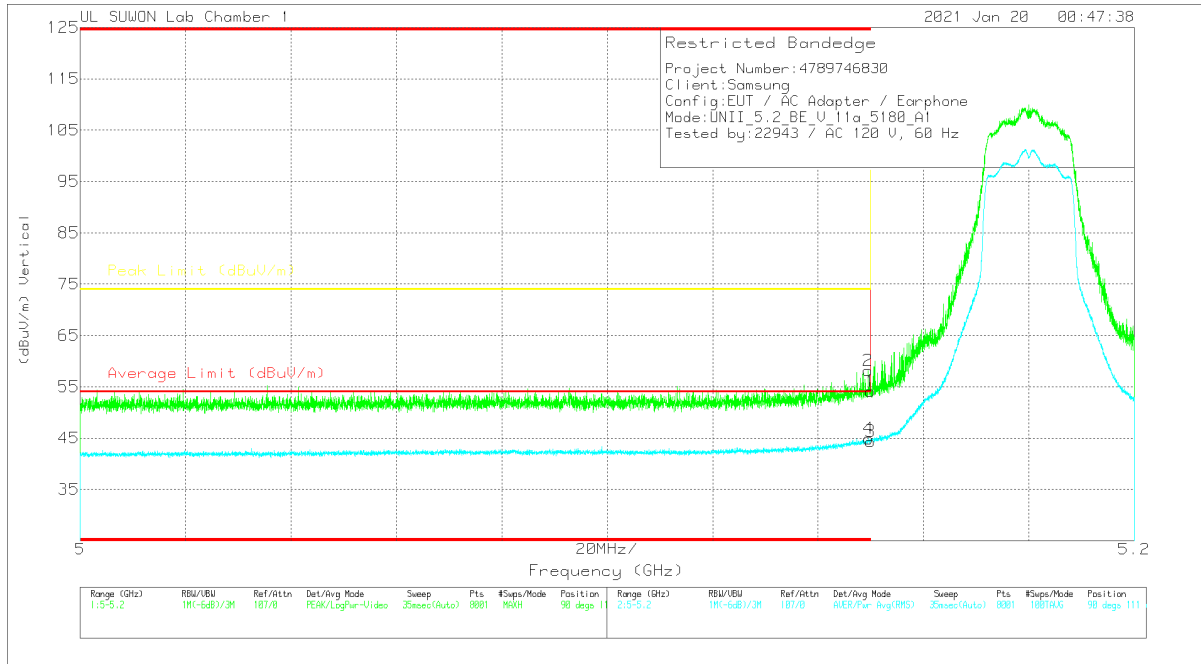
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	41.52	Pk	34.3	-21.6	0	54.22	-	-	74	-19.78	115	196	H
2	* 5.14728	47.22	Pk	34.3	-21.7	0	59.82	-	-	74	-14.18	115	196	H
3	5.15	32.53	RMS	34.3	-21.6	0	45.23	54	-8.77	-	-	115	196	H
4	* 5.14953	33.16	RMS	34.3	-21.7	0	45.76	54	-8.24	-	-	115	196	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	5.15	41.41	PK	34.3	-21.6	0	54.11	-	-	74	-19.89	90	111	V
2	* 5.14945	45.55	PK	34.3	-21.7	0	58.15	-	-	74	-15.85	90	111	V
3	5.15	31.65	RMS	34.3	-21.6	0	44.35	54	-9.65	-	-	90	111	V
4	* 5.1496	32.31	RMS	34.3	-21.7	0	44.91	54	-9.09	-	-	90	111	V

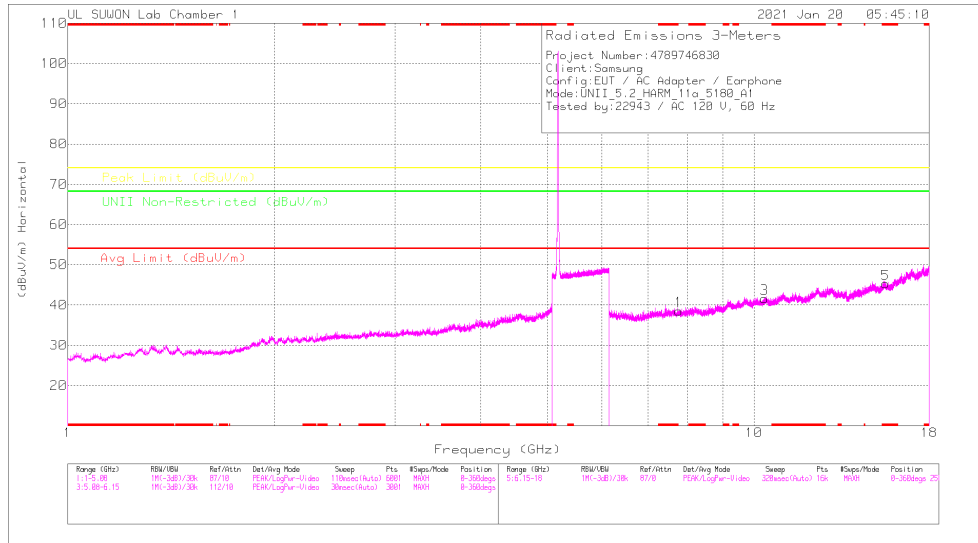
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

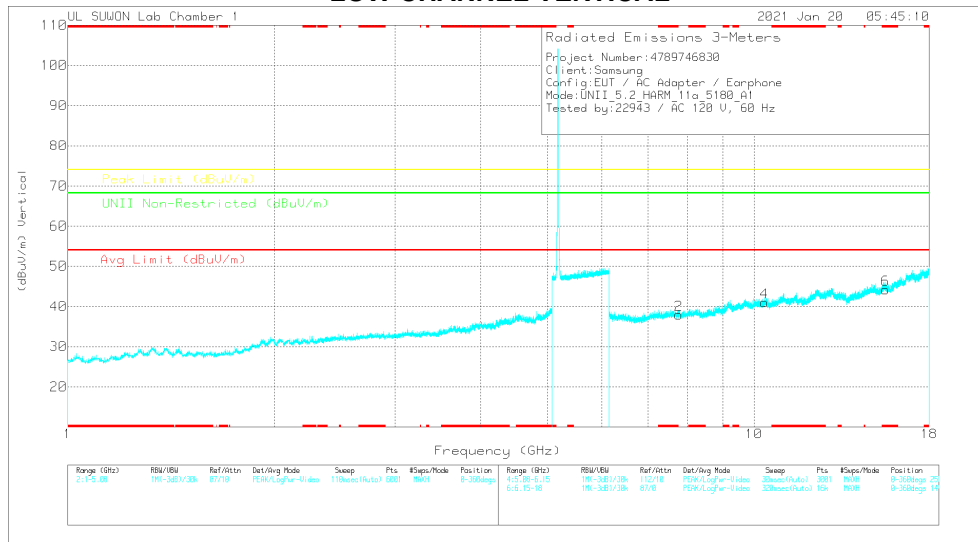
RMS - RMS detection

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.

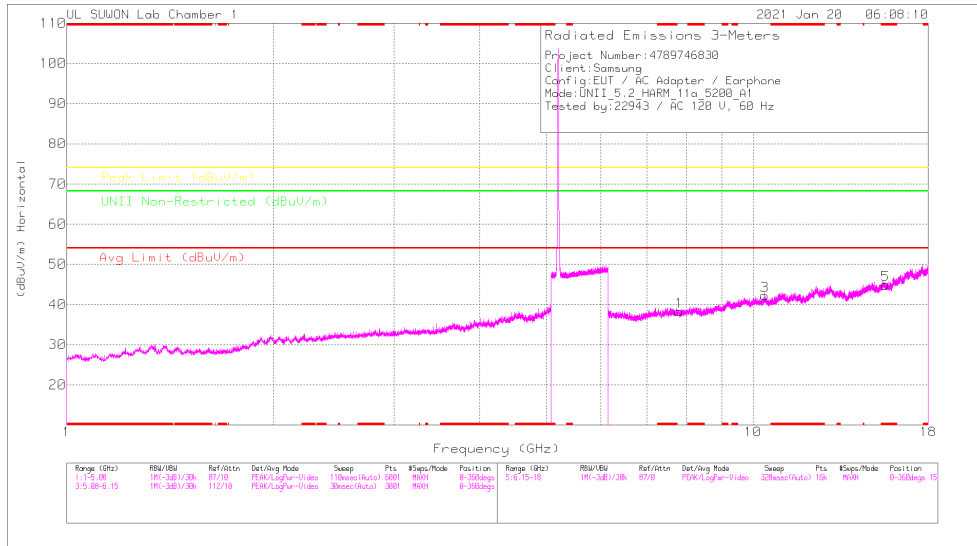
LOW CHANNEL DATA

Radiated Emissions

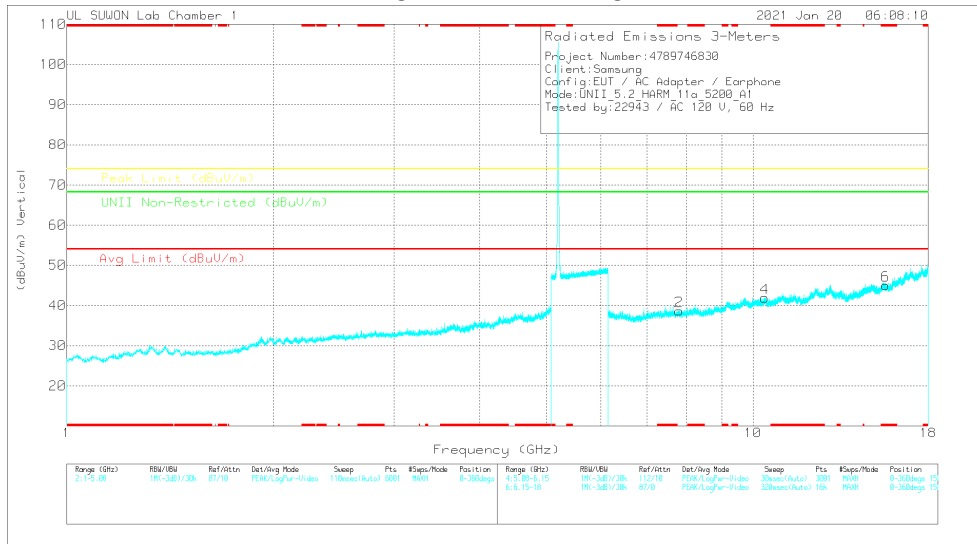
Frequency (GHz)	Main Reading (dBuV)	Det	317_00168717	6GHz_H(F)(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
7.76867	39.91	PK-U	35.8	-26.4	0	49.21	-	-	-	-	68.2	-18.99	0	100	H
7.77041	39.03	PK-U	35.8	-26.5	0	48.33	-	-	-	-	68.2	-19.87	0	100	V
10.36171	36.5	PK-U	37.8	-21.9	0	52.4	-	-	-	-	68.2	-15.8	0	100	H
10.36035	36.44	PK-U	37.8	-21.9	0	52.34	-	-	-	-	68.2	-15.86	0	100	V
* 15.53852	36.73	PK-U	40.1	-20.8	0	56.03	-	-	74	-17.97	-	-	0	100	H
* 15.53846	36.29	PK-U	40.1	-20.8	0	55.59	-	-	74	-18.41	-	-	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.

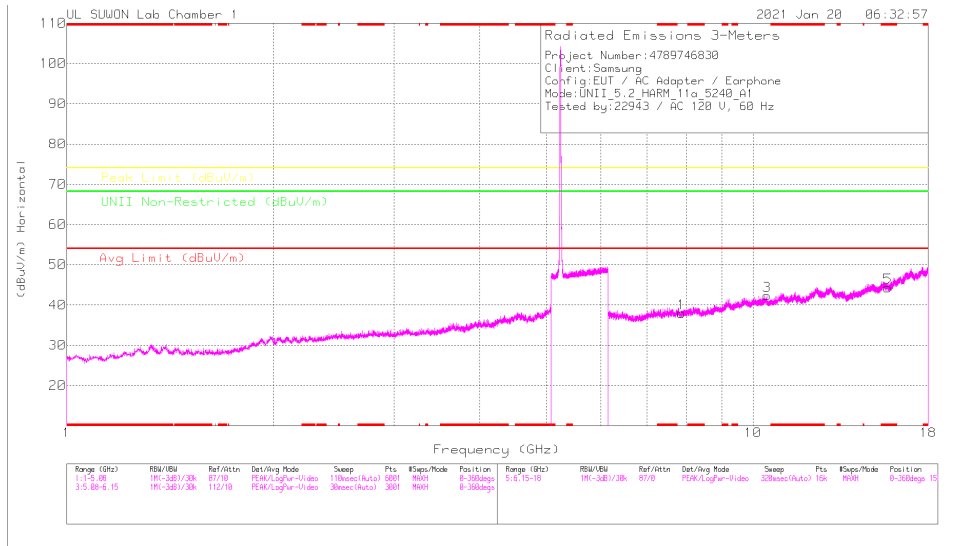
MID CHANNEL DATA

Radiated Emissions

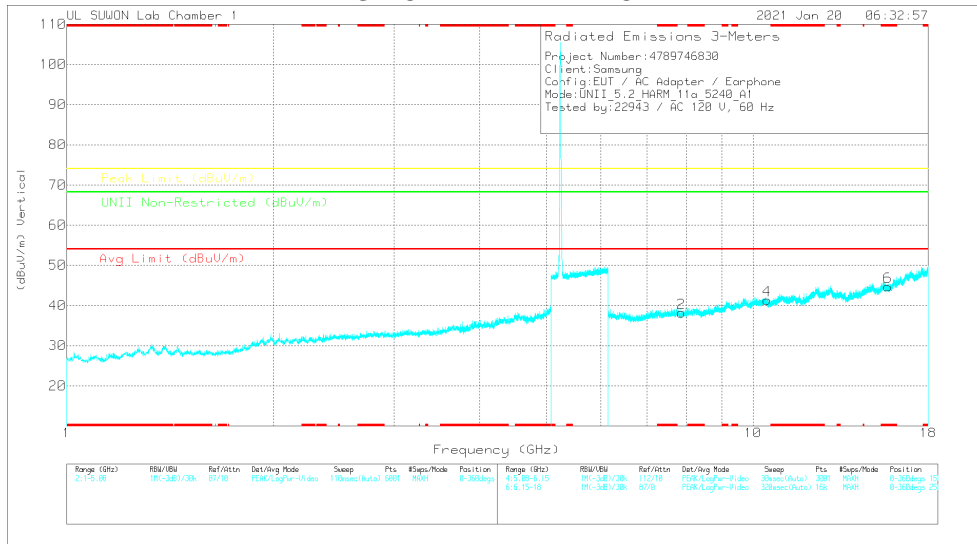
Frequency (GHz)	Meter Reading (dBm)	Det	317_00168717	6GHz_HFdB	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Dips)	Height (cm)	Polarity
7.80317	39.71	PK-U	35.8	-26.2	0	49.31	-	-	-	-	68.2	-18.89	0	100	H
7.79935	38.9	PK-U	35.8	-26.2	0	48.5	-	-	-	-	68.2	-19.7	0	100	V
10.39969	35.7	PK-U	37.8	-21.6	0	51.9	-	-	-	-	68.2	-16.3	0	100	H
10.40087	36.2	PK-U	37.8	-21.6	0	52.4	-	-	-	-	68.2	-15.8	0	100	V
* 15.59801	36.64	PK-U	40.1	-21.2	0	55.54	-	-	74	-18.46	-	-	0	100	H
* 15.60197	36.5	PK-U	40.1	-21.3	0	55.3	-	-	74	-18.7	-	-	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

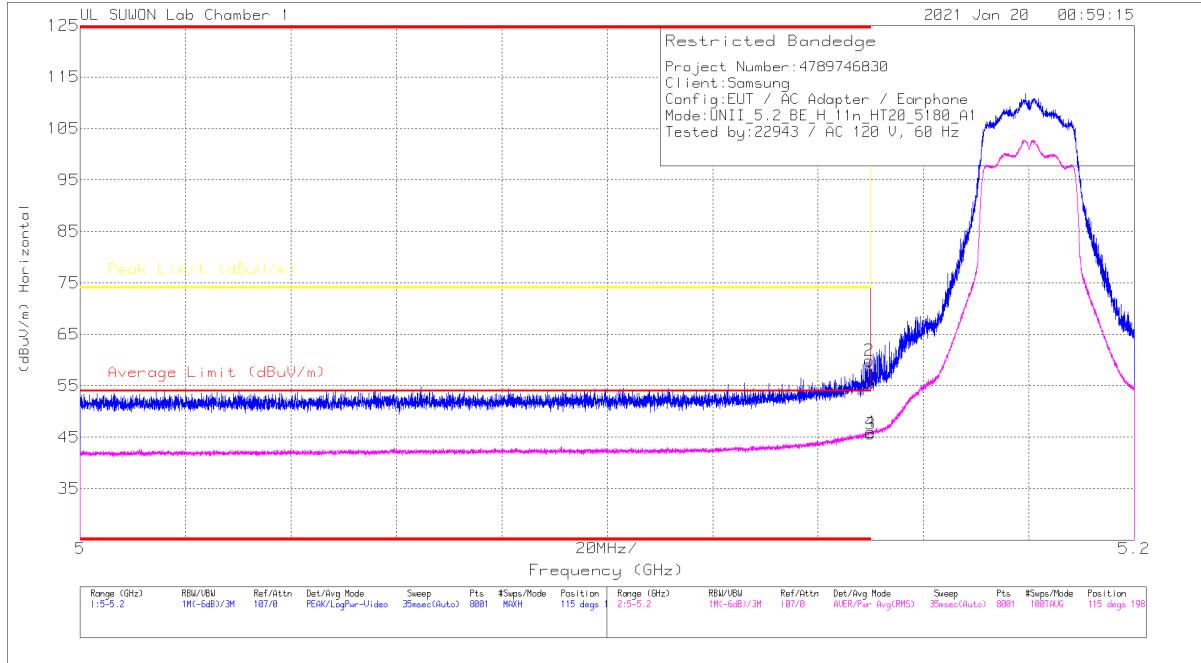
Frequency (GHz)	Max Reading (dBuV)	Det	0117_00160717	SQL_HF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.85929	39.12	PK-U	35.9	-26.5	0	48.52	-	-	-	-	68.2	-19.68	0	100	H
7.8605	39.03	PK-U	35.9	-26.4	0	48.53	-	-	-	-	68.2	-19.67	0	100	V
10.47861	36.3	PK-U	37.9	-22.3	0	51.9	-	-	-	-	68.2	-16.3	0	100	H
10.4791	35.84	PK-U	37.9	-22.3	0	51.44	-	-	-	-	68.2	-16.76	0	100	V
* 15.71838	36.68	PK-U	40.1	-21	0	55.78	-	-	74	-18.22	-	-	0	100	H
* 15.71902	36.57	PK-U	40.1	-21	0	55.67	-	-	74	-18.33	-	-	0	100	V

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

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

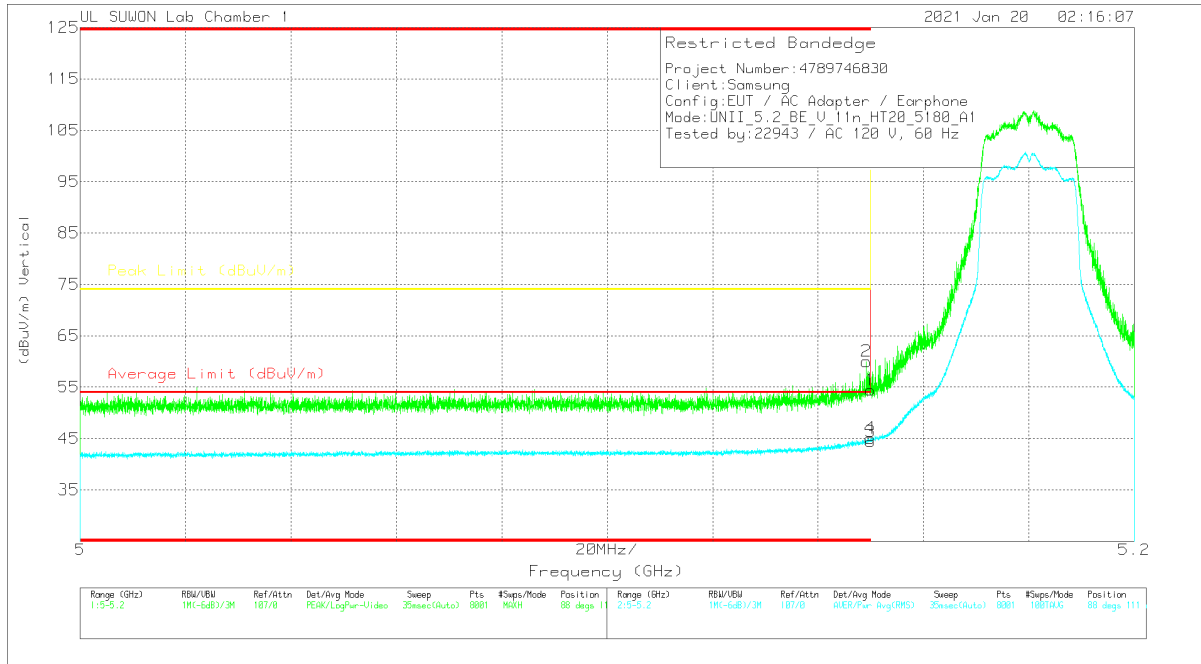
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	42.89	Pk	34.3	-21.6	0	55.59	-	-	74	-18.41	115	198	H
2	* 5.14975	47.31	Pk	34.3	-21.7	0	59.91	-	-	74	-14.09	115	198	H
3	5.15	32.92	RMS	34.3	-21.6	0	45.62	54	-8.38	-	-	115	198	H
4	* 5.14998	33.27	RMS	34.3	-21.6	0	45.97	54	-8.03	-	-	115	198	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	5.15	41.71	Pk	34.3	-21.6	0	54.41	-	-	74	-19.59	88	111	V
2	* 5.14918	47.41	Pk	34.3	-21.7	0	60.01	-	-	74	-13.99	88	111	V
3	5.15	31.7	RMS	34.3	-21.6	0	44.4	54	-9.6	-	-	88	111	V
4	* 5.1499	32.46	RMS	34.3	-21.7	0	45.06	54	-8.94	-	-	88	111	V

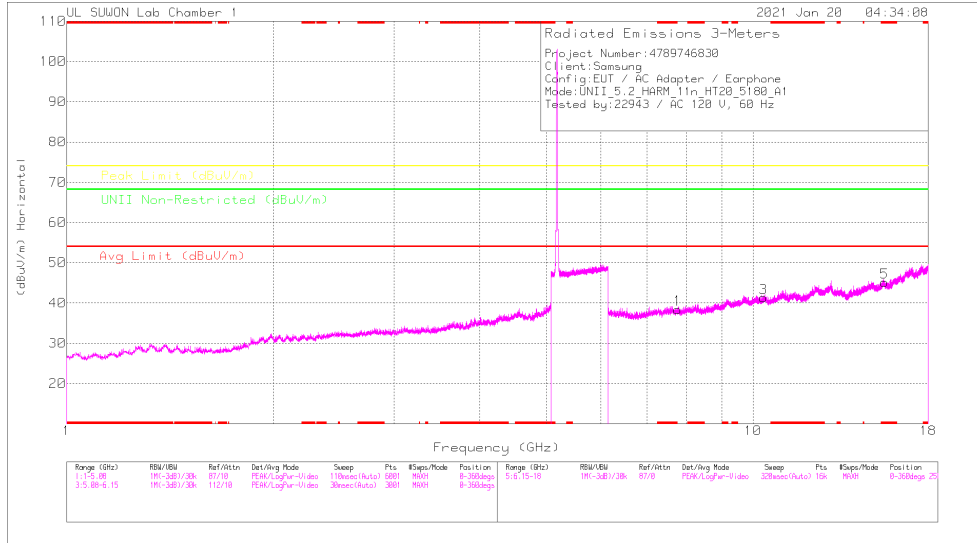
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

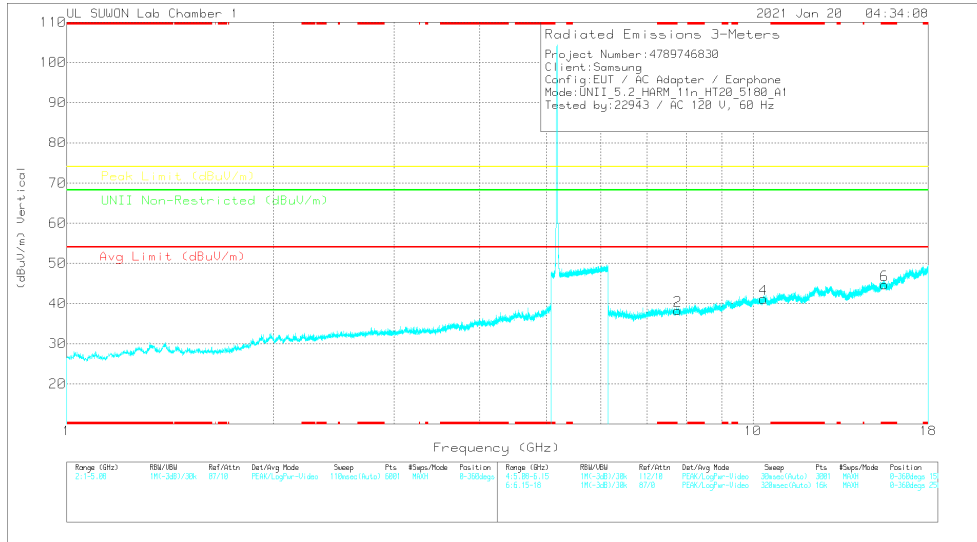
RMS - RMS detection

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

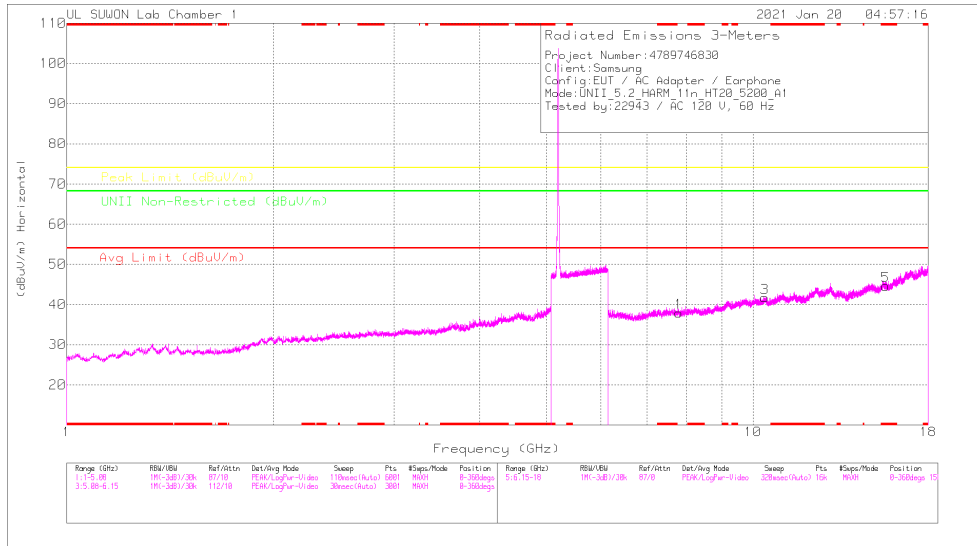
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	2117_00160717	@GHz_HF(dB)	OC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitud (Degs)	Height (cm)	Polarity
7.76807	39.79	PK-U	35.8	-26.4	0	49.19	-	-	-	-	68.2	-19.01	0	100	H
7.7694	39.3	PK-U	35.8	-26.4	0	48.7	-	-	-	-	68.2	-19.5	0	100	V
10.35925	36.09	PK-U	37.8	-22	0	51.89	-	-	-	-	68.2	-16.31	0	100	H
10.36138	35.88	PK-U	37.8	-21.9	0	51.78	-	-	-	-	68.2	-16.42	0	100	V
* 15.53886	36.23	PK-U	40.1	-20.8	0	55.53	-	-	74	-18.47	-	-	0	100	H
* 15.53829	36.47	PK-U	40.1	-20.8	0	55.77	-	-	74	-18.23	-	-	0	100	V

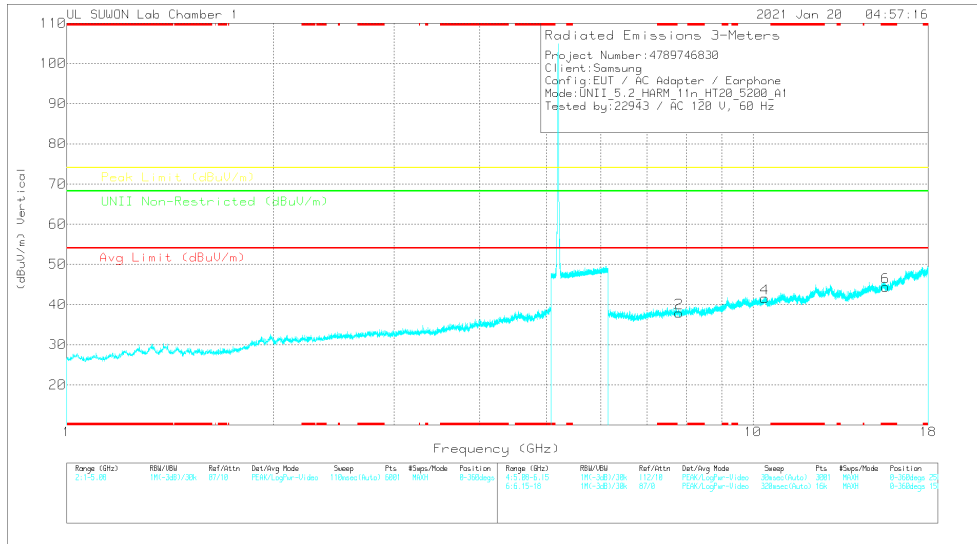
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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.

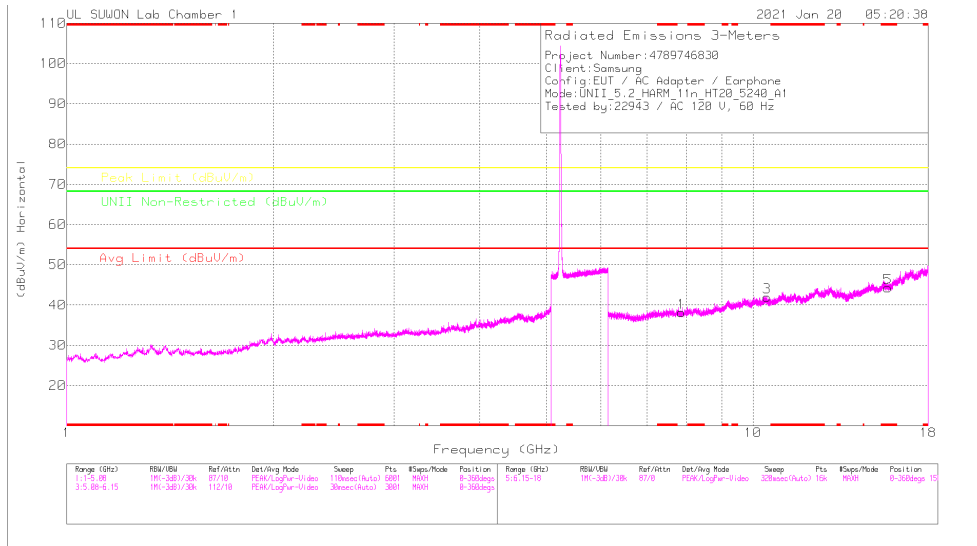
MID CHANNEL DATA

Radiated Emissions

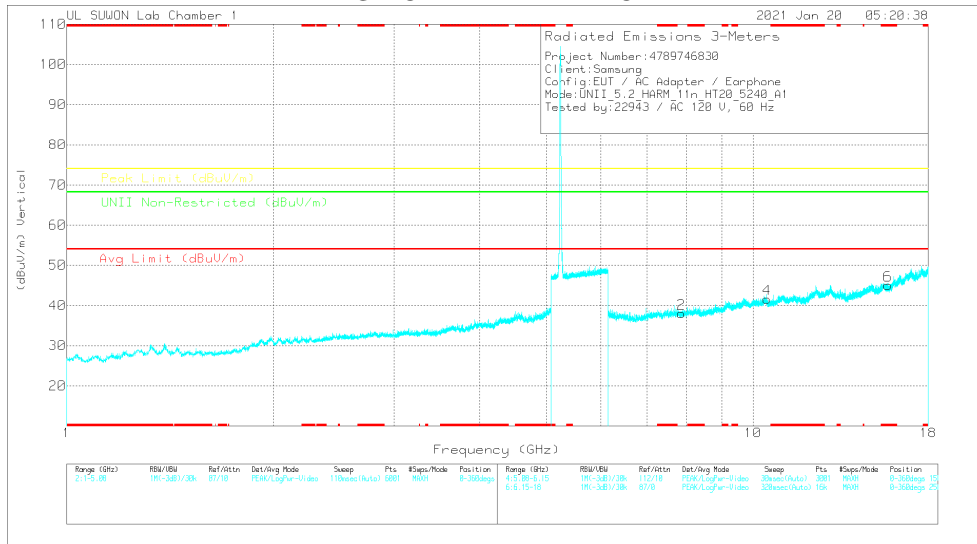
Frequency (GHz)	Mean Reading (dBm)	Det	317_00168717	6GHz_HPS[B]	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
7.80103	39.12	PK-U	35.8	-26.2	0	48.72	-	-	-	-	68.2	-19.48	0	100	H
7.79986	39.33	PK-U	35.8	-26.2	0	48.93	-	-	-	-	68.2	-19.27	0	100	V
10.402	36.21	PK-U	37.8	-21.6	0	52.41	-	-	-	-	68.2	-15.79	0	100	H
10.40006	35.76	PK-U	37.8	-21.6	0	51.96	-	-	-	-	68.2	-16.24	0	100	V
* 15.60013	36.9	PK-U	40.1	-21.3	0	55.7	-	-	74	-18.3	-	-	0	100	H
* 15.59901	37.23	PK-U	40.1	-21.3	0	56.03	-	-	74	-17.97	-	-	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

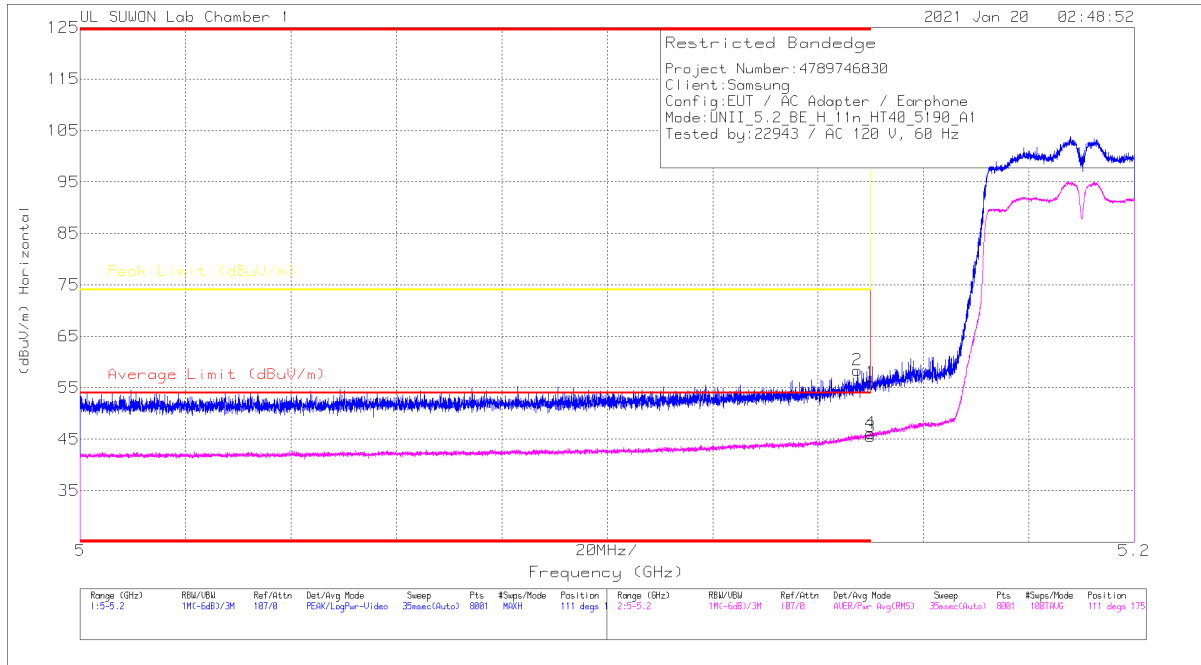
Frequency (GHz)	Meas. Reading (dBuV)	Det.	2177_20160717	@GHz_HF@dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg. Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
7.86031	39.01	PK-U		-26.4	0	48.51	-	-	-	-	68.2	-19.69	0	100	H
7.8605	39.06	PK-U		-26.4	0	48.56	-	-	-	-	68.2	-19.64	0	100	V
10.47594	36.2	PK-U		-22.3	0	51.9	-	-	-	-	68.2	-16.3	0	100	H
10.47627	36.5	PK-U		-22.3	0	52.1	-	-	-	-	68.2	-16.1	0	100	V
* 15.71819	36.76	PK-U		-21	0	55.96	-	-	74	-18.14	-	-	0	100	H
* 15.71836	36.52	PK-U		-21	0	55.62	-	-	74	-18.38	-	-	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

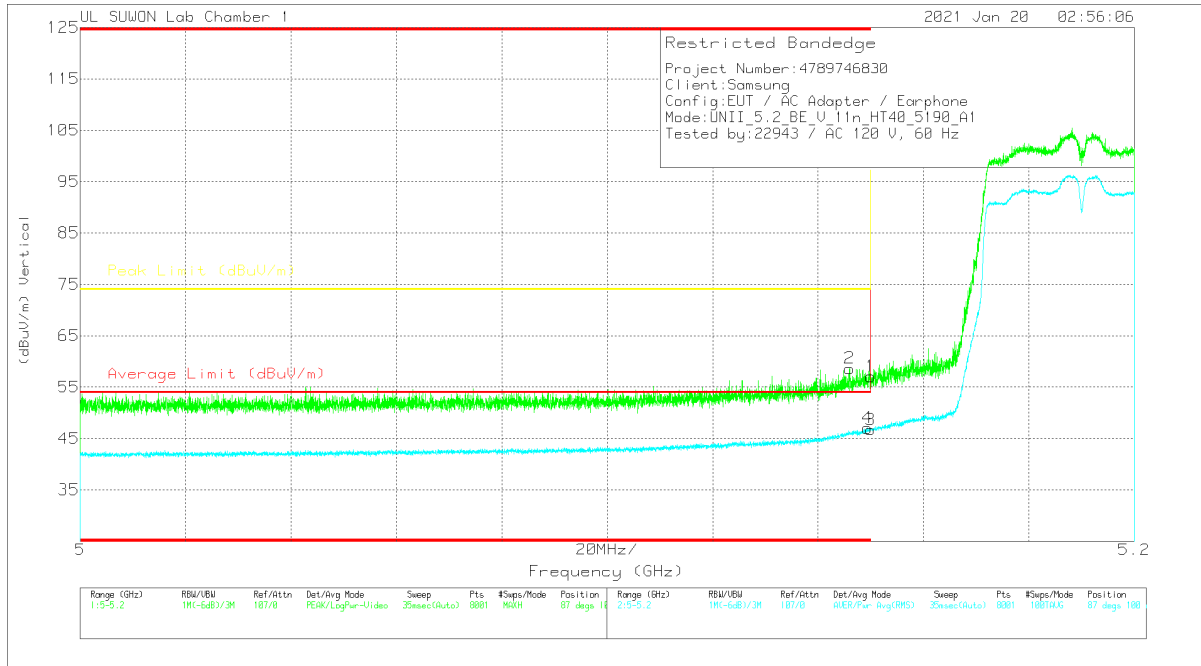
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	43.25	Pk	34.3	-21.6	0	55.85	-	-	74	-18.05	111	175	H
2	* 5.14748	45.81	Pk	34.3	-21.7	0	58.41	-	-	74	-15.59	111	175	H
3	5.15	32.8	RMS	34.3	-21.6	0	45.5	54	-8.5	-	-	111	175	H
4	* 5.14993	33.54	RMS	34.3	-21.7	0	46.14	54	-7.86	-	-	111	175	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	5.15	44.39	Pk	34.3	-21.6	0	57.99	-	-	74	-16.91	87	100	V
2	* 5.14598	46.05	Pk	34.3	-21.7	0	58.65	-	-	74	-15.35	87	100	V
3	5.15	34.02	RMS	34.3	-21.6	0	46.72	54	-7.28	-	-	87	100	V
4	* 5.14933	34.46	RMS	34.3	-21.7	0	47.06	54	-6.94	-	-	87	100	V

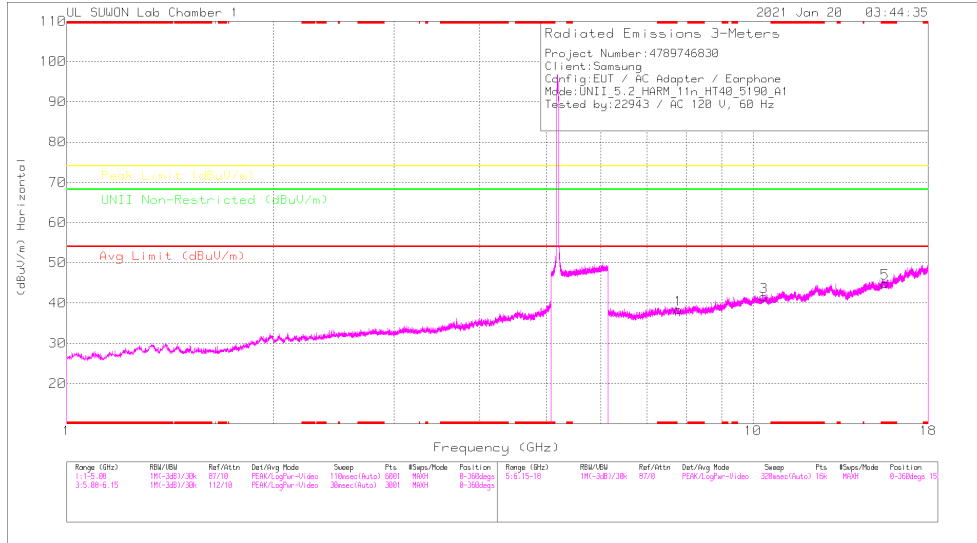
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

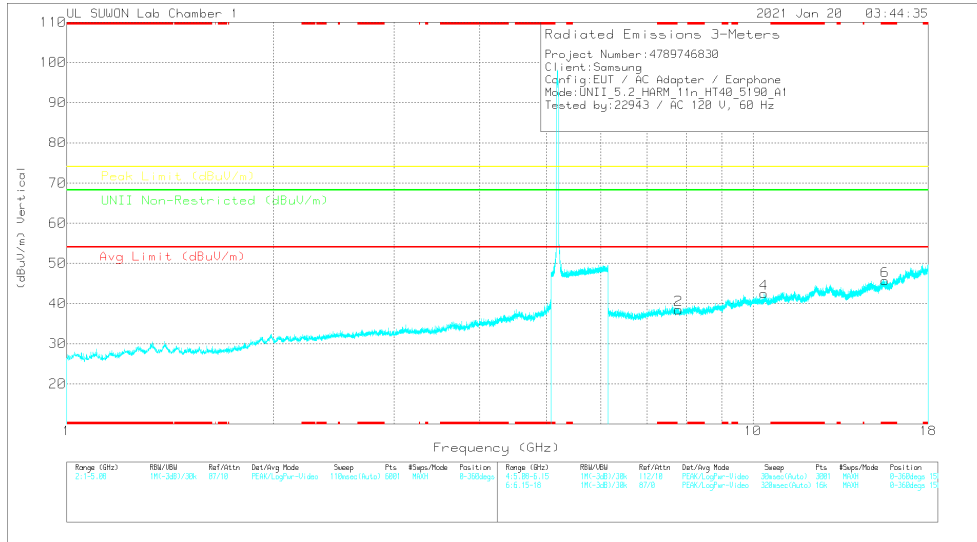
RMS - RMS detection

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.

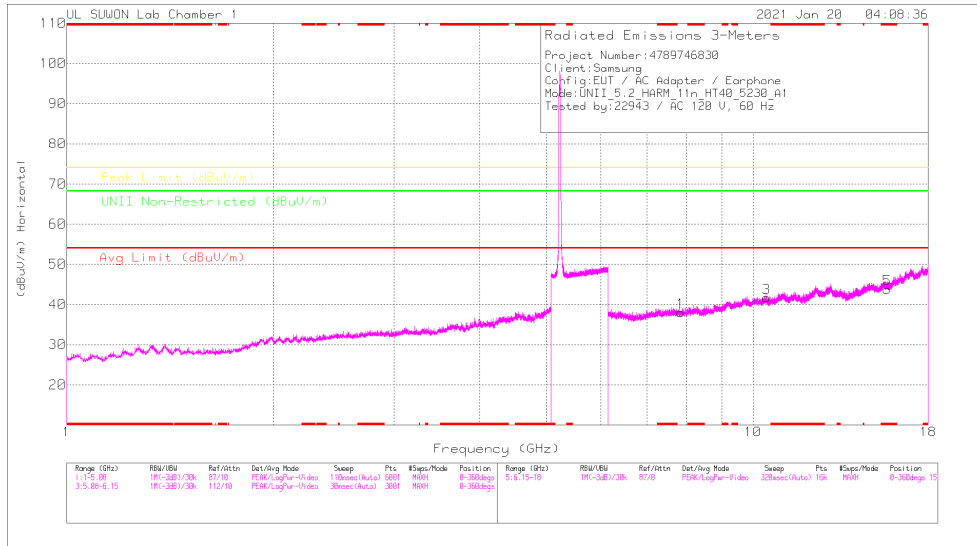
LOW CHANNEL DATA

Radiated Emissions

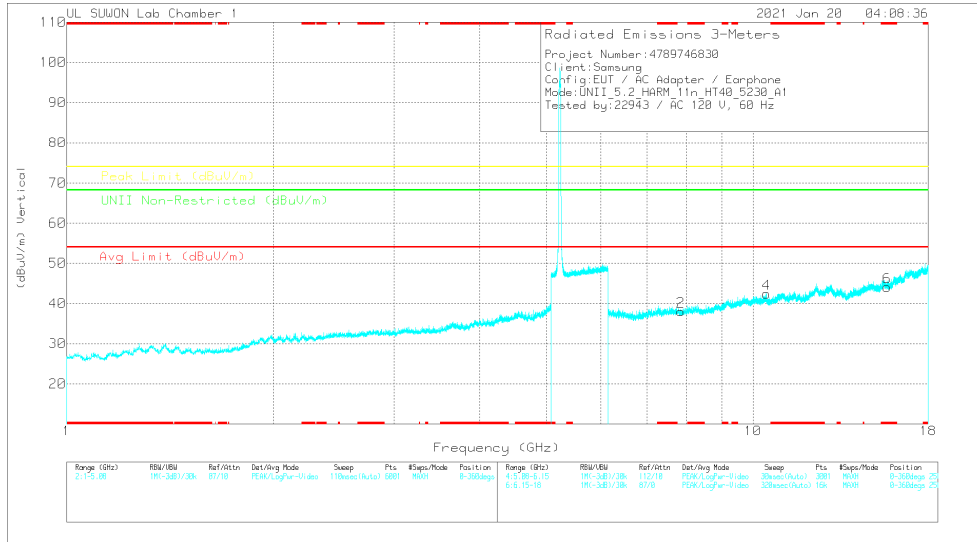
Frequency (GHz)	Meter Reading (dBuV)	Det	317_00168717	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Dips)	Height (cm)	Polarity
7.78325	39.9	PK-U	35.8	-26.4	0	49.3	-	-	-	-	68.2	-18.9	0	100	H
7.78637	39.17	PK-U	35.8	-26.3	0	48.67	-	-	-	-	68.2	-19.53	0	100	V
10.3808	35.57	PK-U	37.8	-21.7	0	51.67	-	-	-	-	68.2	-16.53	0	100	H
10.37868	36.02	PK-U	37.8	-21.7	0	52.12	-	-	-	-	68.2	-16.08	0	100	V
* 15.57179	37.1	PK-U	40.1	-21.2	0	56	-	-	74	-18	-	-	0	100	H
* 15.57181	36.7	PK-U	40.1	-21.2	0	55.6	-	-	74	-18.4	-	-	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

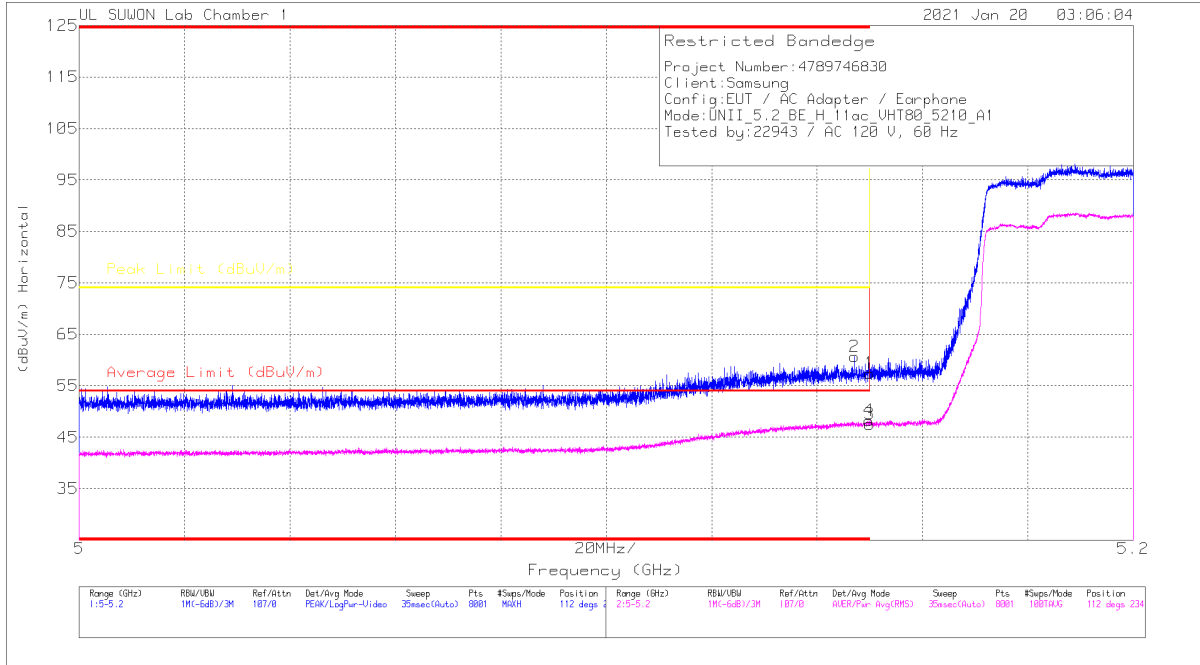
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	6GHz_HFdB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Dips)	Height (cm)	Polarity
7.84637	39.14	PK-U	35.9	-26.3	0	48.74	-	-	-	-	68.2	-19.46	0	100	H
7.84659	39.78	PK-U	35.9	-26.3	0	49.38	-	-	-	-	68.2	-18.82	0	100	V
10.45835	36.67	PK-U	37.8	-22	0	52.47	-	-	-	-	68.2	-15.73	0	100	H
10.46174	36.15	PK-U	37.8	-22	0	51.95	-	-	-	-	68.2	-16.25	0	100	V
* 15.68942	36.83	PK-U	40.1	-21.1	0	55.83	-	-	74	-18.17	-	-	0	100	H
* 15.69183	37.37	PK-U	40.1	-21.1	0	56.37	-	-	74	-17.63	-	-	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

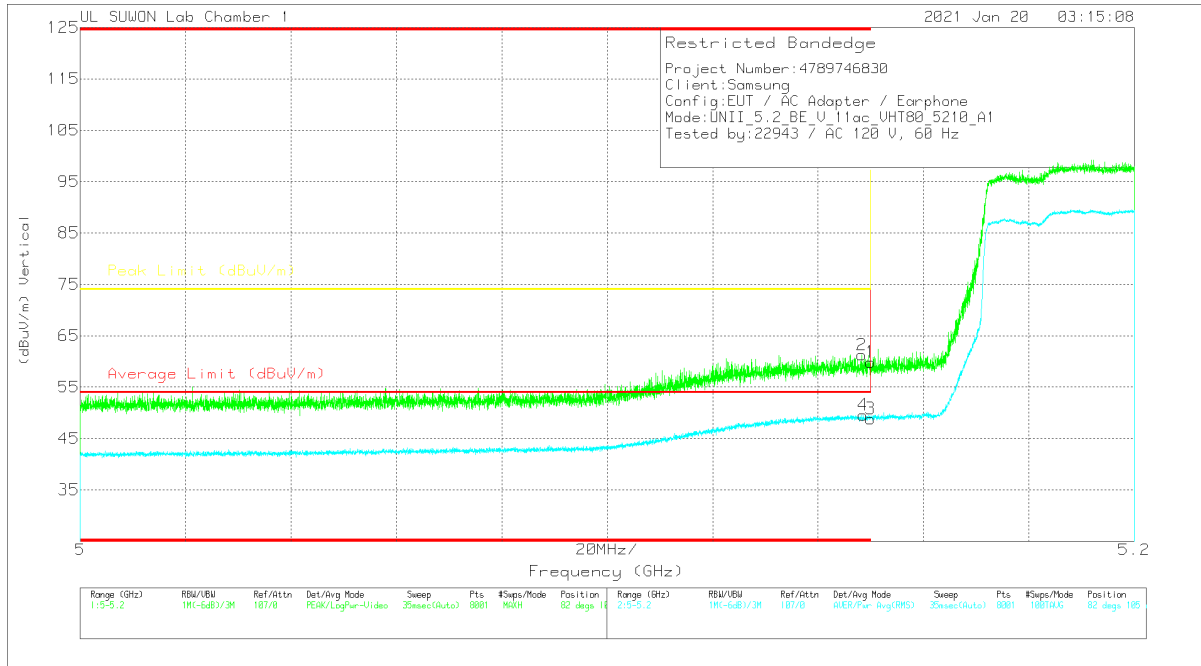
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	44.73	Pk	34.3	-21.6	0	57.43	-	-	74	-16.57	112	234	H
2	* 5.1471	48.07	Pk	34.3	-21.7	0	60.67	-	-	74	-13.33	112	234	H
3	5.15	34.85	RMS	34.3	-21.6	0	47.55	54	-6.45	-	-	112	234	H
4	* 5.1498	35.64	RMS	34.3	-21.7	0	48.24	54	-5.76	-	-	112	234	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	5.15	47.17	Pk	34.3	-21.6	0	59.87	-	-	74	-14.13	82	105	V
2	* 5.14833	48.68	Pk	34.3	-21.7	0	61.28	-	-	74	-12.72	82	105	V
3	5.15	36.15	RMS	34.3	-21.6	0	48.85	54	-5.15	-	-	82	105	V
4	* 5.1485	36.97	RMS	34.3	-21.7	0	49.57	54	-4.43	-	-	82	105	V

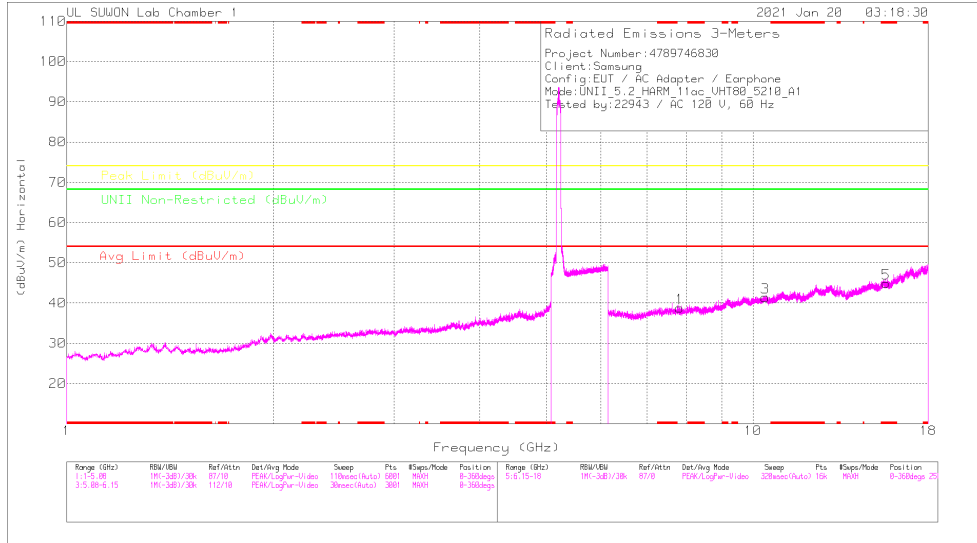
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

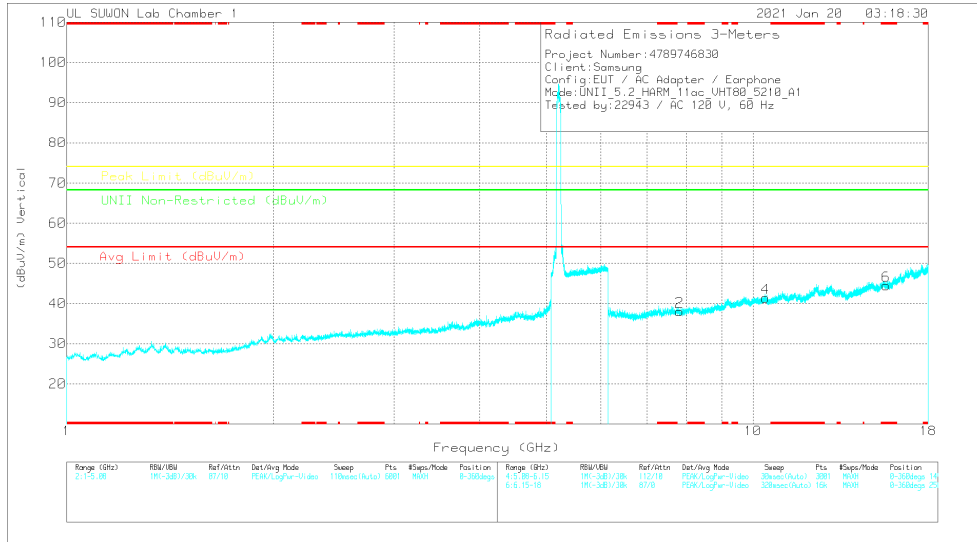
RMS - RMS detection

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	317_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)	Asmuth (Degs)	Height (cm)	Polarity
7.81675	38.9	PK-U	35.9	-26.3	0	48.5	-	-	-	-	68.2	-19.7	0	100	H
7.81488	38.93	PK-U	35.9	-26.3	0	48.53	-	-	-	-	68.2	-19.67	0	100	V
10.42116	35.39	PK-U	37.8	-21.5	0	51.69	-	-	-	-	68.2	-16.51	0	100	H
10.41955	35.69	PK-U	37.8	-21.5	0	51.99	-	-	-	-	68.2	-16.21	0	100	V
* 15.6309	36.61	PK-U	40.1	-21.3	0	55.41	-	-	74	-18.59	-	-	0	100	H
* 15.62832	36.47	PK-U	40.1	-21.3	0	55.27	-	-	74	-18.73	-	-	0	100	V

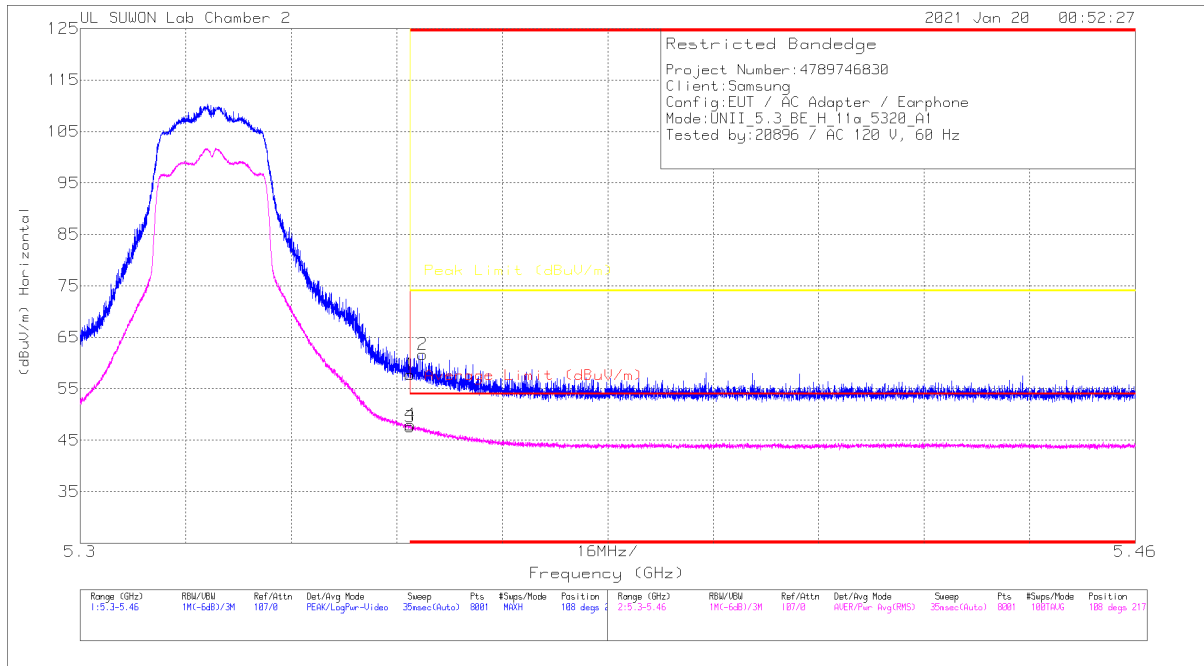
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak

11.2. 5.3 GHz

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

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

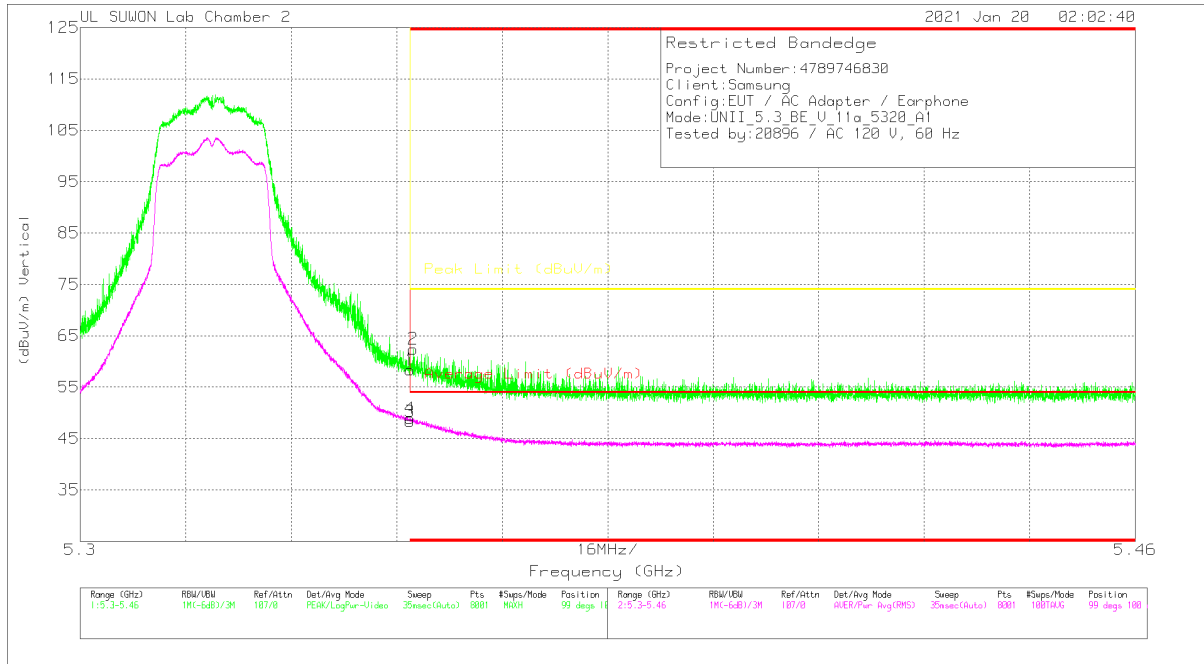
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35002	40.99	Pk	34.5	-17.7	0	57.79	-	-	74	-16.21	108	217	H
2	* 5.35194	44.88	Pk	34.5	-17.7	0	61.68	-	-	74	-12.32	108	217	H
3	* 5.35002	30.79	RMS	34.5	-17.7	0	47.59	54	-6.41	-	-	108	217	H
4	* 5.35006	31.2	RMS	34.5	-17.7	0	48	54	-6	-	-	108	217	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_00168724	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	* 5.35002	41.57	Pk	34.5	-17.7	0	58.37	-	-	74	-15.63	99	100	V
2	* 5.35046	45.62	Pk	34.5	-17.7	0	62.42	-	-	74	-11.58	99	100	V
3	* 5.35002	31.5	RMS	34.5	-17.7	0	48.3	54	-5.7	-	-	99	100	V
4	* 5.35004	32.13	RMS	34.5	-17.7	0	48.93	54	-5.07	-	-	99	100	V

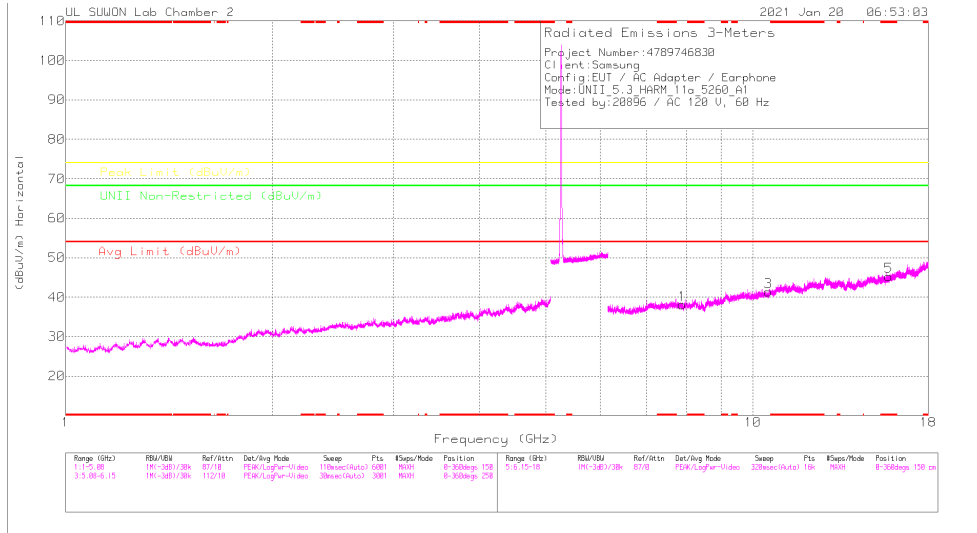
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

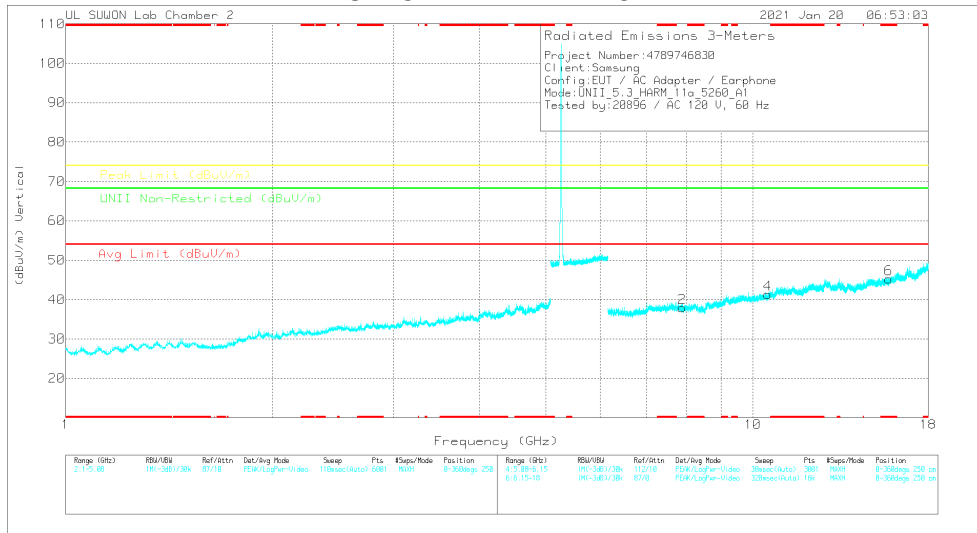
RMS - RMS detection

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

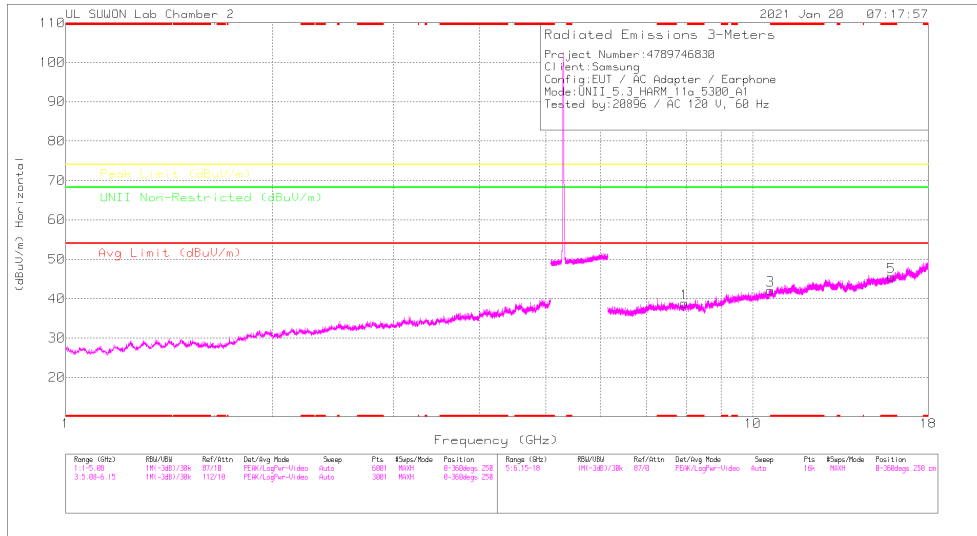
Radiated Emissions

Frequency (GHz)	Mean Reading (dBuV)	Det	317_00168724	6GHz_H(F)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 (Deg)	Height (cm)	Polarity
7.89381	36.32	PK-U	36	-23.6	0	48.72	-	-	-	-	68.2	-19.48	0	100	H
7.89869	36.02	PK-U	36	-23.7	0	48.32	-	-	-	-	68.2	-19.88	0	100	V
10.52264	33.56	PK-U	37.8	-19.8	0	51.56	-	-	-	-	68.2	-16.64	0	100	H
10.52284	34.27	PK-U	37.8	-19.7	0	52.37	-	-	-	-	68.2	-15.83	0	100	V
* 15.77069	35.05	PK-U	40.3	-19.5	0	55.85	-	-	74	-18.15	-	-	0	100	H
* 15.77074	34.51	PK-U	40.3	-19.5	0	55.31	-	-	74	-18.69	-	-	0	100	V

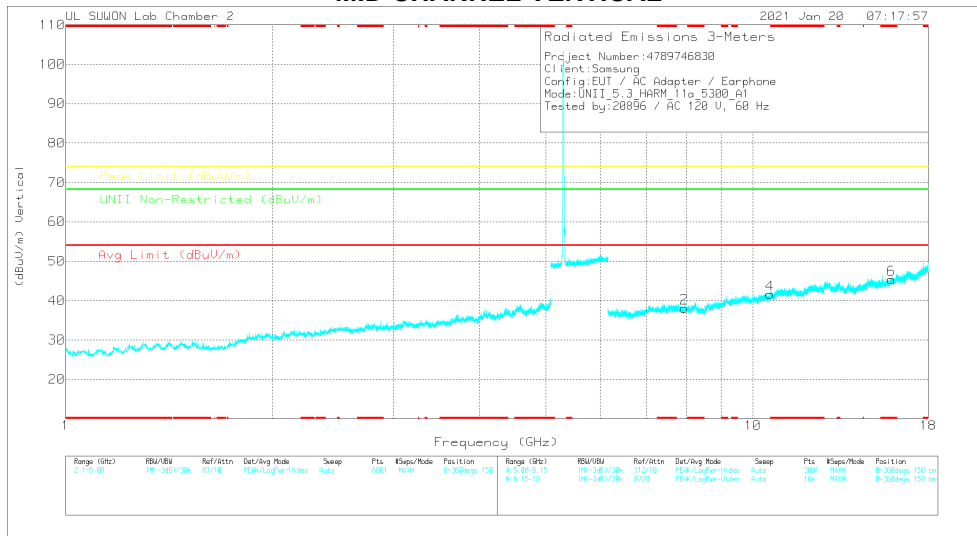
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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.

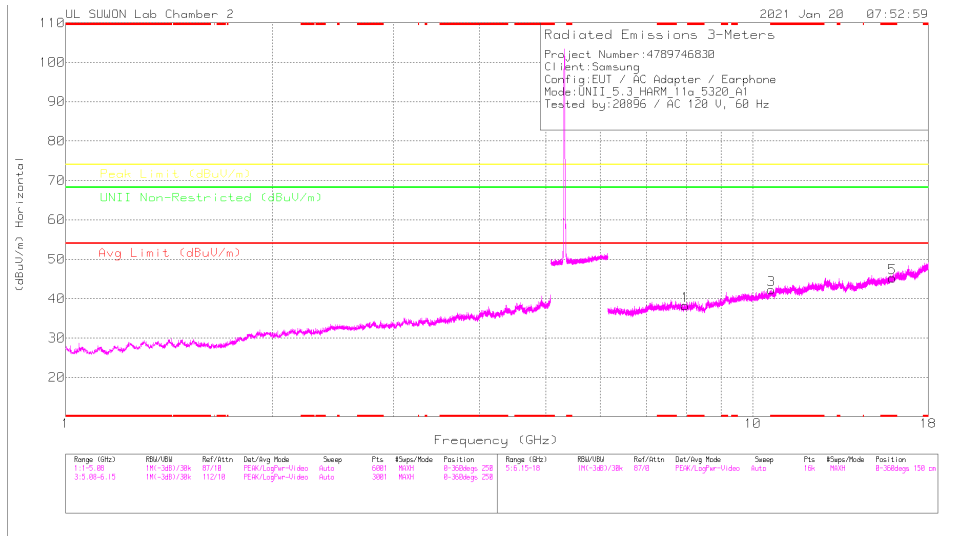
MID CHANNEL DATA

Radiated Emissions

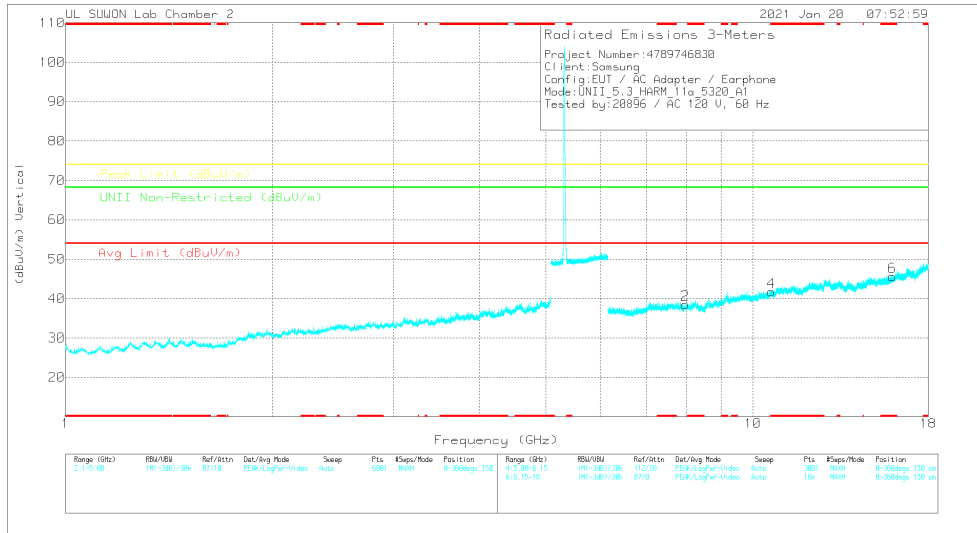
Frequency (GHz)	Max Reading (dBuV)	Det	317_00168724	@GHz_HF@dB	OC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
7.95257	36.51	PK-U	36	-23.1	0	49.41	-	-	-	-	68.2	-18.79	0	100	H
7.94962	35.41	PK-U	36	-23.2	0	48.21	-	-	-	-	68.2	-19.99	0	100	V
*10.6025	33.93	PK-U	37.9	-18.8	0	53.03	-	-	74	-20.97	-	-	0	100	H
10.59745	33.41	PK-U	37.9	-18.9	0	52.41	-	-	-	-	68.2	-15.79	0	100	V
*15.90378	34.31	PK-U	40.5	-19	0	55.81	-	-	74	-18.19	-	-	0	100	H
*15.90292	34.57	PK-U	40.5	-19	0	56.07	-	-	74	-17.93	-	-	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)	Main Reading (dBuV)	Det	317_06168724	6GHz_HF[S]	DC Corr (dB)	Combed 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
7.97822	35.74	PK-U	36	-23.3	0	48.44	-	-	-	-	68.2	-19.76	0	100	H
7.97808	35.77	PK-U	36	-23.3	0	48.47	-	-	-	-	68.2	-19.73	0	100	V
*10.6396	34.03	PK-U	37.9	-18.9	0	53.03	-	-	74	-20.97	-	-	0	100	H
*10.64149	33.56	PK-U	37.9	-19	0	52.46	-	-	74	-21.54	-	-	0	100	V
*15.96049	34.57	PK-U	40.6	-19.2	0	55.97	-	-	74	-18.03	-	-	0	100	H
*15.96086	34.34	PK-U	40.6	-19.2	0	55.74	-	-	74	-18.26	-	-	0	100	V

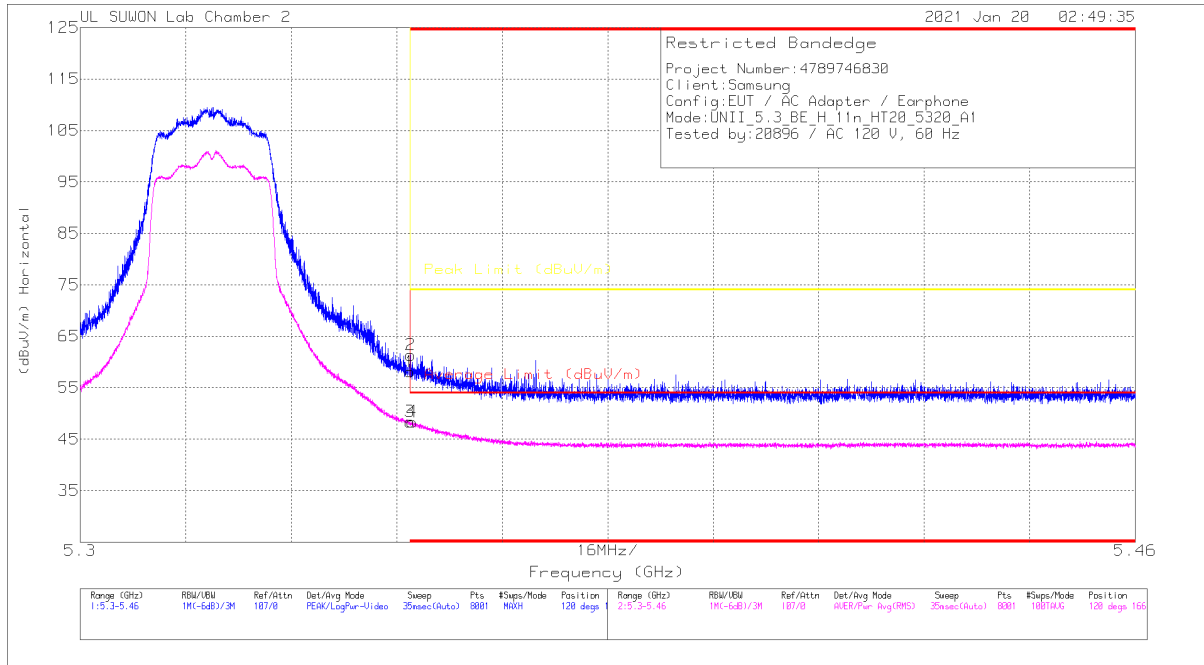
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

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

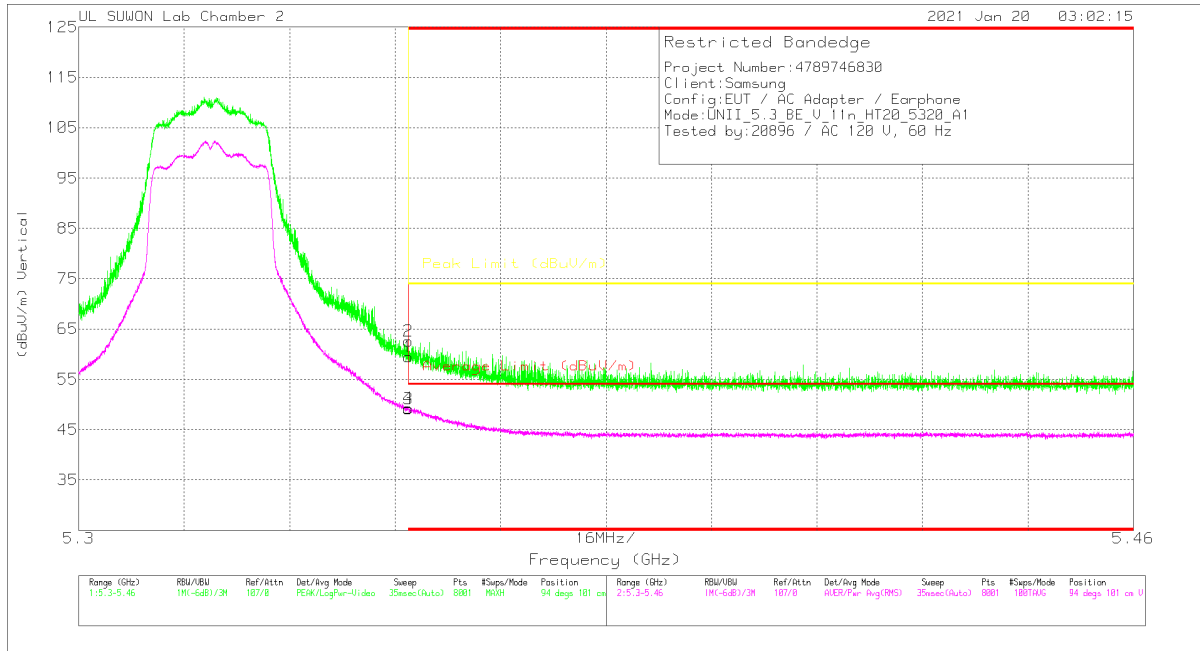
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Acimth (Degs)	Height (cm)	Polarity
1	* 5.35002	41.28	Pk	34.5	-17.7	0	58.08	-	-	74	-15.92	120	166	H
2	* 5.35008	44.57	Pk	34.5	-17.7	0	61.37	-	-	74	-12.63	120	166	H
3	* 5.35002	31.61	RMS	34.5	-17.7	0	48.41	54	-5.59	-	-	120	166	H
4	* 5.35036	31.57	RMS	34.5	-17.7	0	48.37	54	-5.63	-	-	120	166	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



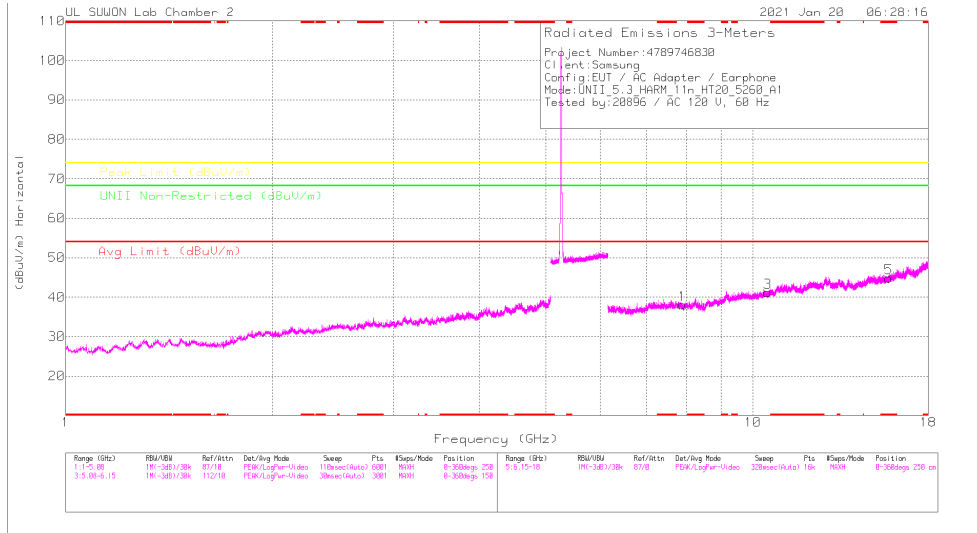
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 5.35002	42.7	Pk	34.5	-17.7	0	59.5	-	-	74	-14.5	94	101	V
2	* 5.35004	45.83	Pk	34.5	-17.7	0	62.63	-	-	74	-11.37	94	101	V
3	* 5.35002	32.28	RMS	34.5	-17.7	0	49.08	54	-4.92	-	-	94	101	V
4	* 5.35004	32.49	RMS	34.5	-17.7	0	49.29	54	-4.71	-	-	94	101	V

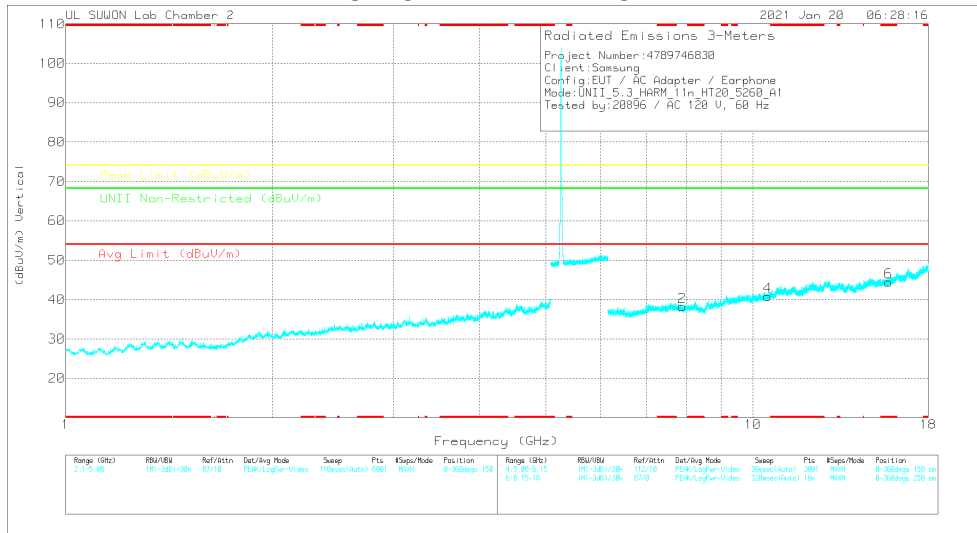
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

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

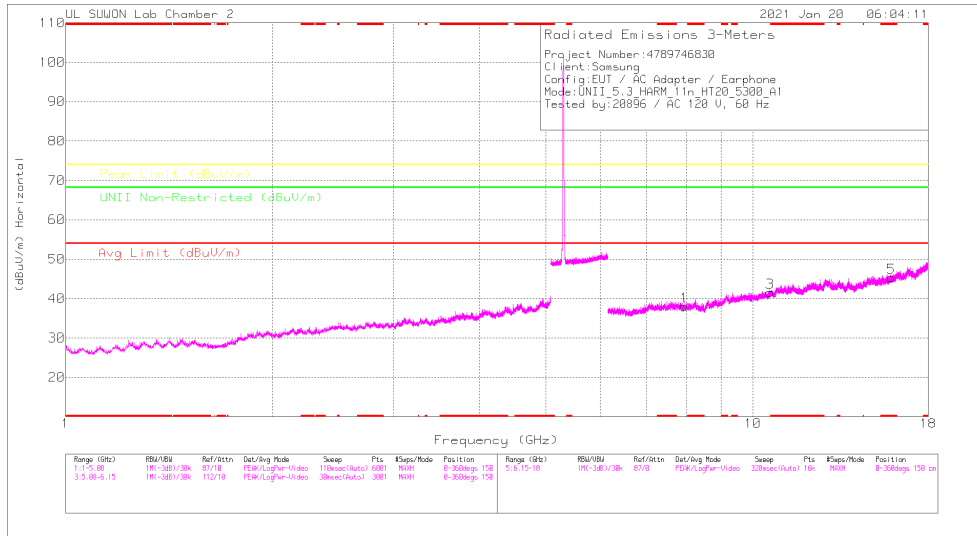
Radiated Emissions

Frequency (GHz)	Mask Reading (dBm)	Det	317_00168724	6GHz_H(F)(dB)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBm)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
7.8927	36.35	PK-U	36	-23.6	0	48.75	-	-	-	-	68.2	-19.45	0	100	H
7.89617	36.42	PK-U	36	-23.6	0	48.82	-	-	-	-	68.2	-19.38	0	100	V
10.51951	33.63	PK-U	37.8	-19.8	0	51.63	-	-	-	-	68.2	-16.57	0	100	H
10.51848	34.31	PK-U	37.8	-19.8	0	52.31	-	-	-	-	68.2	-15.89	0	100	V
* 15.77687	34.53	PK-U	40.3	-19.4	0	55.43	-	-	74	-18.57	-	-	0	100	H
* 15.7788	35.47	PK-U	40.3	-19.5	0	56.27	-	-	74	-17.73	-	-	0	100	V

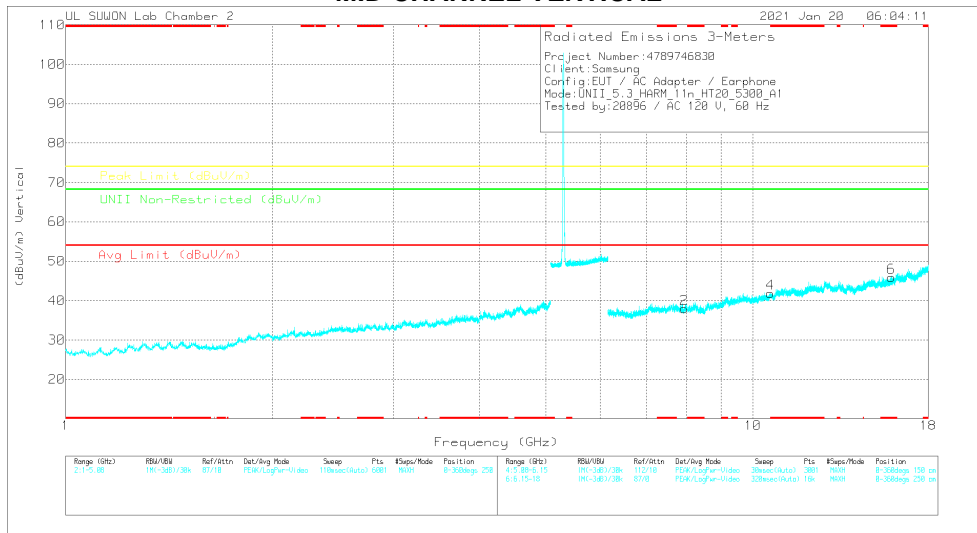
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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.

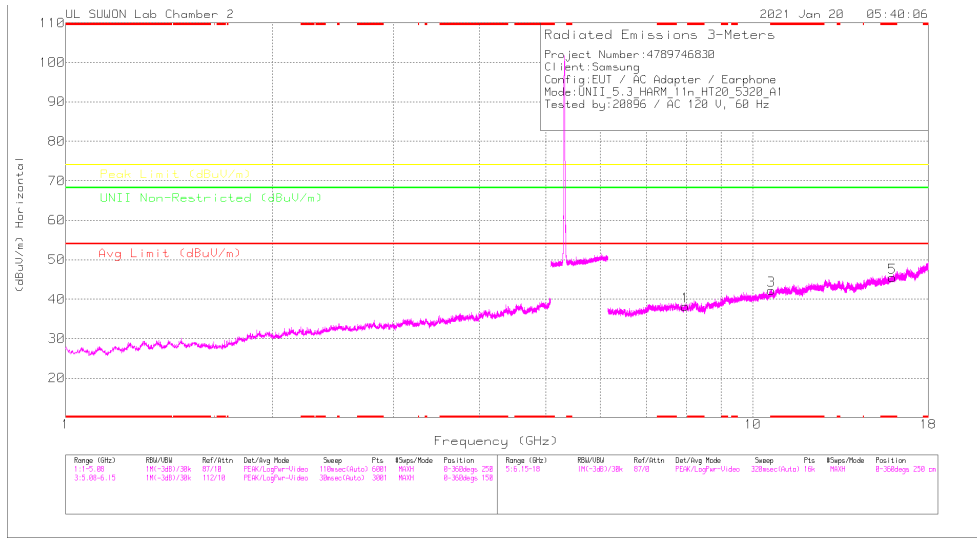
MID CHANNEL DATA

Radiated Emissions

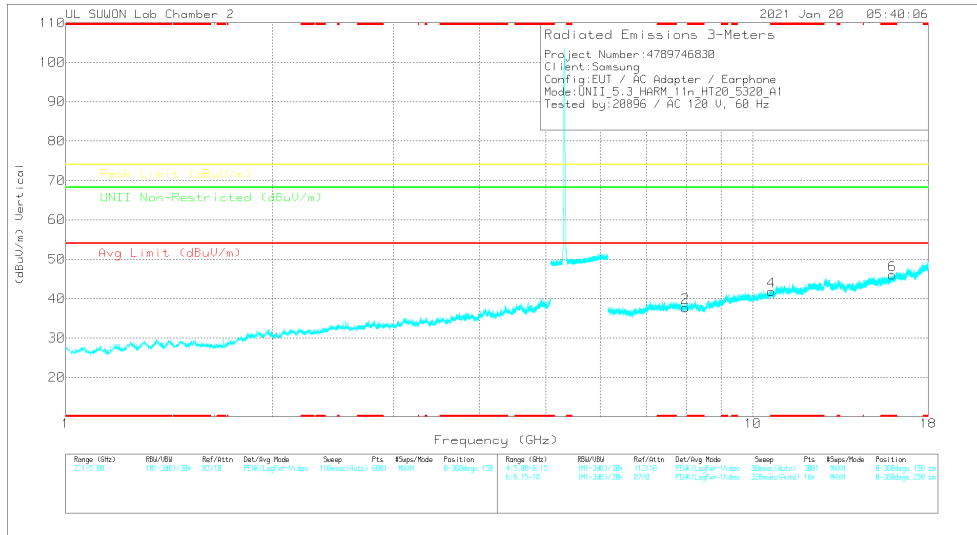
Frequency (GHz)	Max Reading (dBuV)	Det	317.00160724	@GHz_HF@dB	OC Cor (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
7.94647	36.18	PK-U	36	-23.2	0	48.98	-	-	-	-	68.2	-19.22	0	100	H
7.94747	35.39	PK-U	36	-23.2	0	48.19	-	-	-	-	68.2	-20.01	0	100	V
10.59645	33.66	PK-U	37.9	-18.8	0	52.76	-	-	-	-	68.2	-15.42	0	100	H
* 10.60472	32.99	PK-U	37.9	-18.8	0	52.09	-	-	74	-21.91	-	-	0	100	V
* 15.89982	34.31	PK-U	40.5	-19	0	55.81	-	-	74	-18.19	-	-	0	100	H
* 15.89946	34.81	PK-U	40.5	-18.9	0	56.41	-	-	74	-17.59	-	-	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)	Main Reading (dBuV)	Det	317_00168724	6GHz_HF[dB]	DC Cor (dB)	Composed Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmuth (Diags)	Height (cm)	Polarity
7.97917	36.03	PK-U	36	-23.4	0	48.53	-	-	-	-	68.2	-19.57	0	100	H
7.98105	35.83	PK-U	36	-23.3	0	48.53	-	-	-	-	68.2	-19.67	0	100	V
*10.63875	33.12	PK-U	37.9	-19	0	52.02	-	74	-21.98	-	-	-	0	100	H
*10.6429	33.27	PK-U	37.9	-19	0	52.17	-	74	-21.83	-	-	-	0	100	V
*15.96255	34.4	PK-U	40.6	-19.3	0	55.7	-	74	-18.3	-	-	-	0	100	H
*15.95982	34.33	PK-U	40.6	-19.2	0	55.73	-	74	-18.27	-	-	-	0	100	V

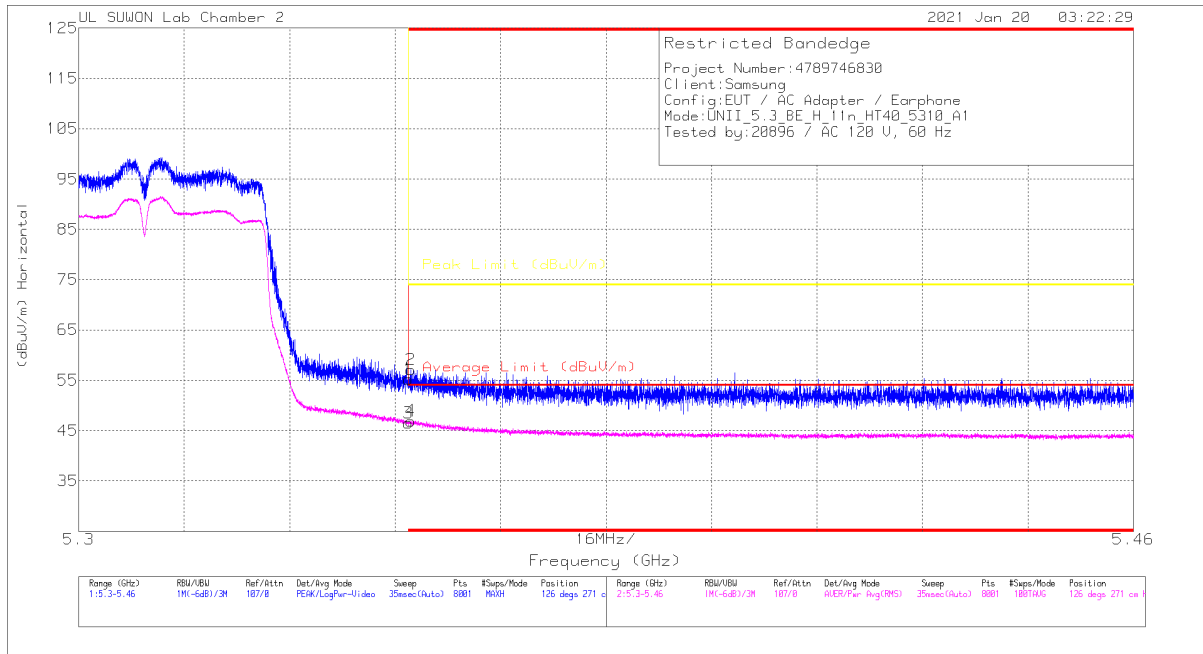
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

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



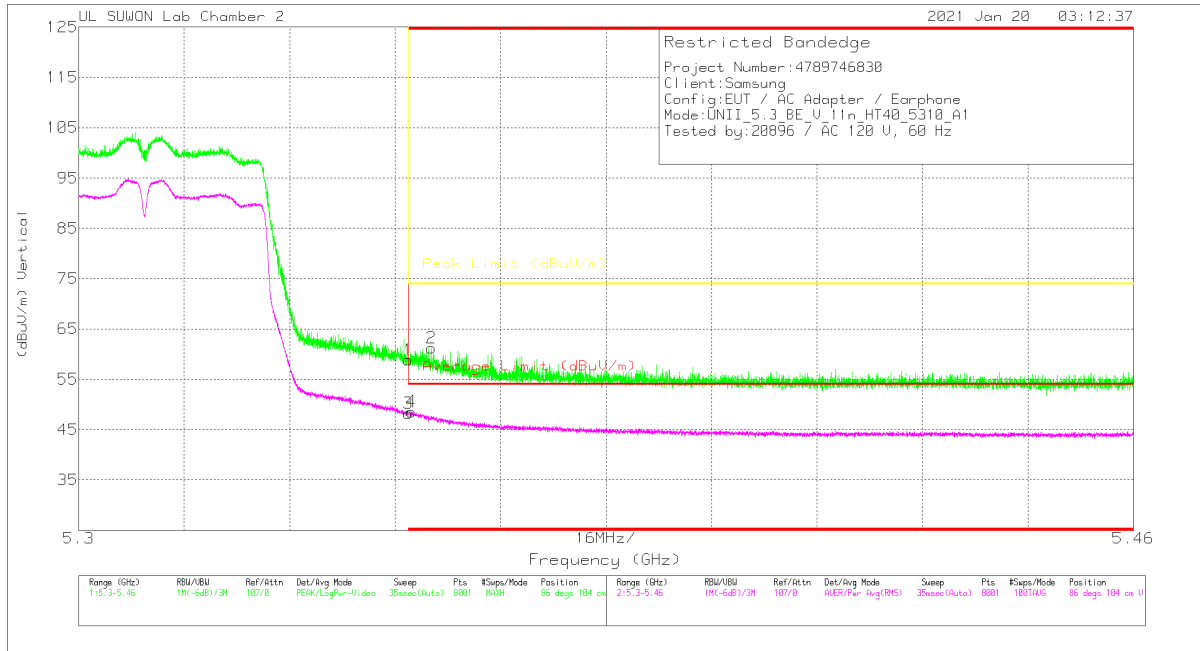
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 5.35002	38.4	PK	34.5	-17.7	0	55.2	-	-	74	-18.8	126	271	H
2	* 5.35036	40.26	PK	34.5	-17.7	0	57.06	-	-	74	-16.94	126	271	H
3	* 5.35002	29.66	RMS	34.5	-17.7	0	46.46	54	-7.54	-	-	126	271	H
4	* 5.35038	30.15	RMS	34.5	-17.7	0	46.95	54	-7.05	-	-	126	271	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_00168724	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	* 5.35002	42.04	Pk	34.5	-17.7	0	58.84	-	-	74	-15.16	86	104	V
2	* 5.35352	44.4	Pk	34.5	-17.7	0	61.2	-	-	74	-12.8	86	104	V
3	* 5.35002	31.41	RMS	34.5	-17.7	0	48.21	54	-5.79	-	-	86	104	V
4	* 5.35048	31.77	RMS	34.5	-17.7	0	48.57	54	-5.43	-	-	86	104	V

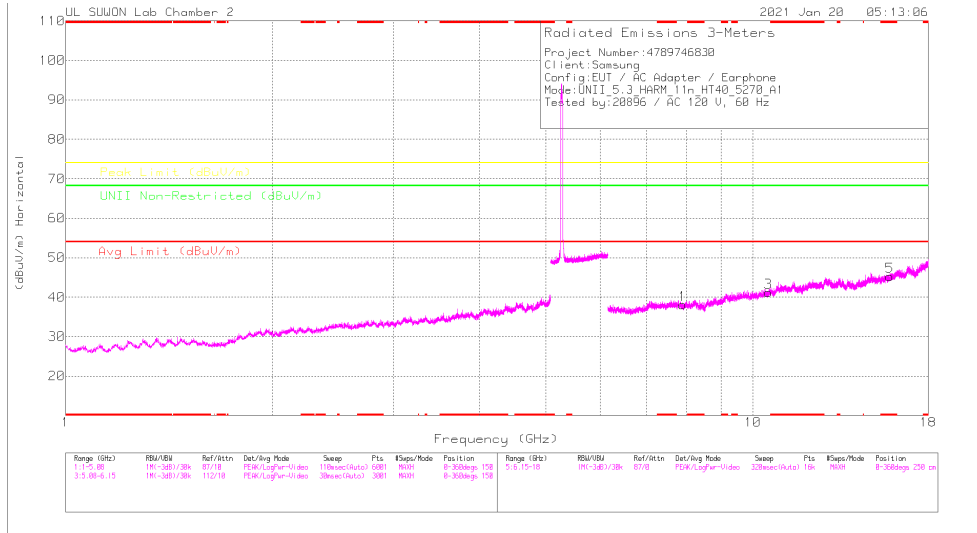
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

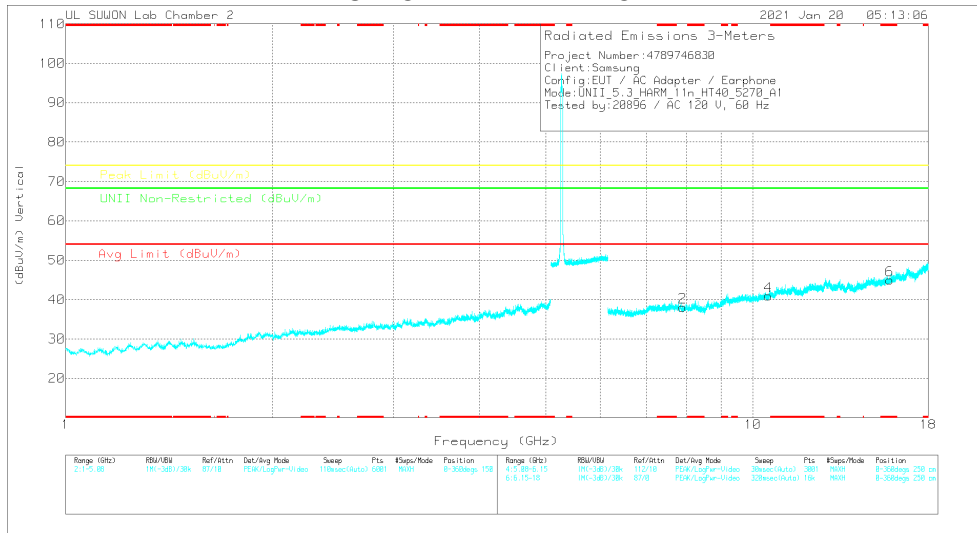
RMS - RMS detection

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.

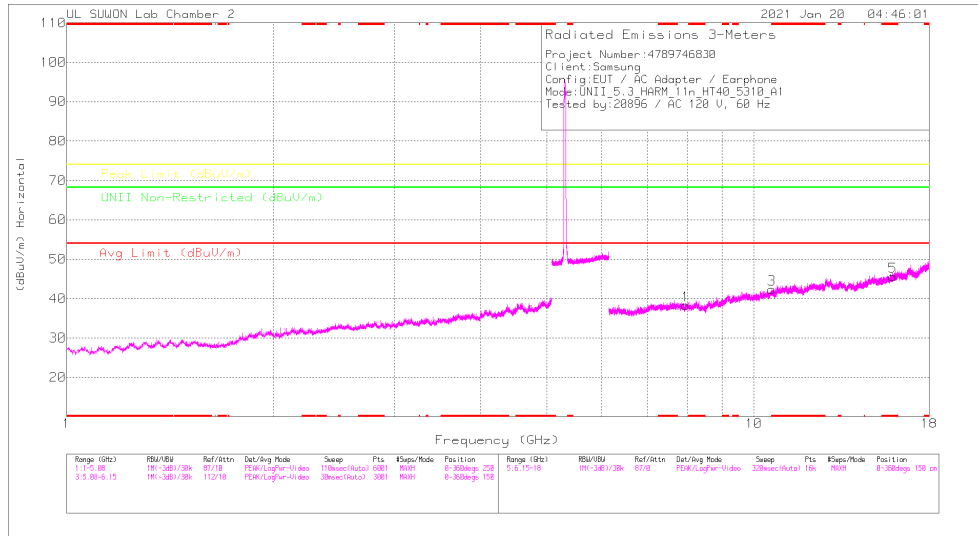
LOW CHANNEL DATA

Radiated Emissions

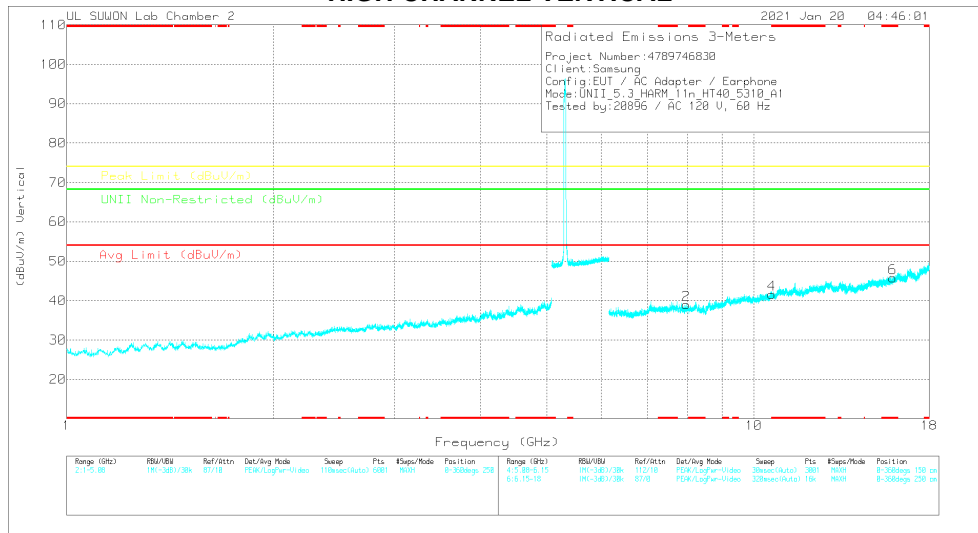
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168724	6GHz_HF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
7.90652	36.6	PK-U	36	-23.5	0	49.1	-	-	-	-	68.2	-19.1	0	100	H
7.90298	36.76	PK-U	36	-23.5	0	49.26	-	-	-	-	68.2	-18.94	0	100	V
10.54	34.08	PK-U	37.8	-19.8	0	52.08	-	-	-	-	68.2	-16.12	0	100	H
10.54247	33.48	PK-U	37.9	-19.7	0	51.68	-	-	-	-	68.2	-16.52	0	100	V
*15.81412	34.78	PK-U	40.4	-19.5	0	55.68	-	-	74	-18.32	-	-	0	100	H
*15.81461	35.32	PK-U	40.4	-19.4	0	56.32	-	-	74	-17.68	-	-	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

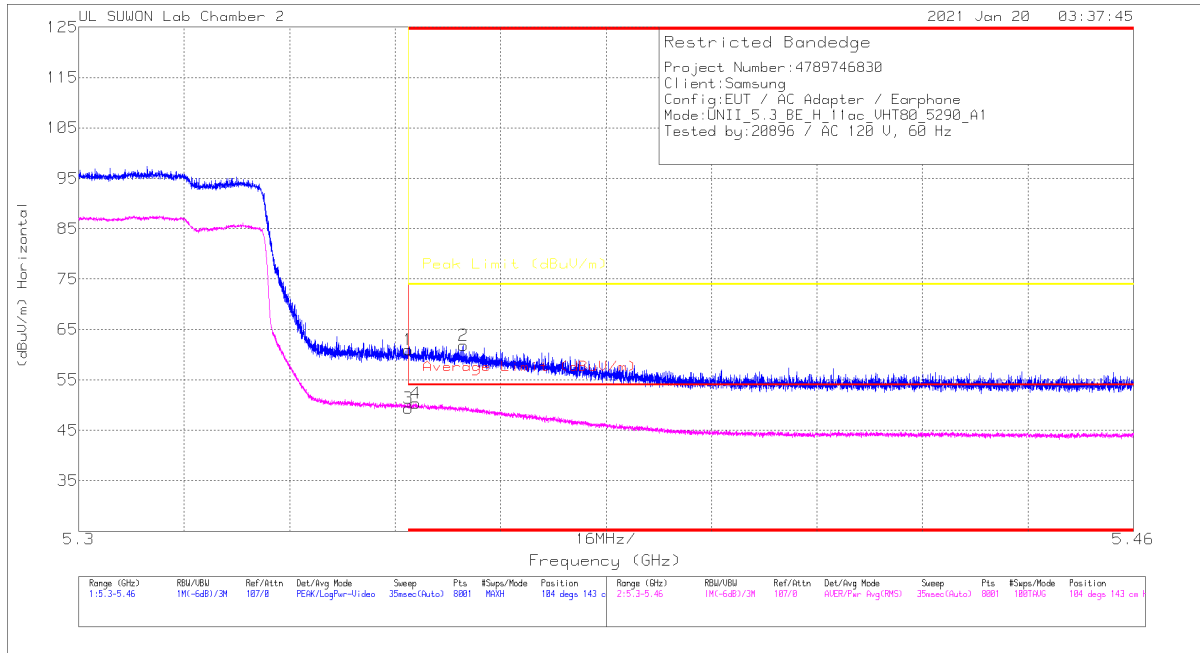
Frequency (GHz)	Meas Reading (dBuV)	Det	0117_00168724	SQL_HF(S)	DC Corr (dB)	Commod Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
7.96019	36.05	PK-U	36	-23.1	0	49.95	-	-	-	-	68.2	-19.25	0	100	H
7.97019	36.27	PK-U	36	-23.3	0	49.97	-	-	-	-	68.2	-19.23	0	100	V
*10.61762	33.36	PK-U	37.9	-18.9	0	52.36	-	-	74	-21.64	-	-	0	100	H
*10.61716	33.69	PK-U	37.9	-18.9	0	52.69	-	-	74	-21.31	-	-	0	100	V
*15.93628	35.61	PK-U	40.6	-19.1	0	57.11	-	-	74	-16.89	-	-	0	100	H
*15.9329	34.29	PK-U	40.6	-18.9	0	55.99	-	-	74	-18.01	-	-	0	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

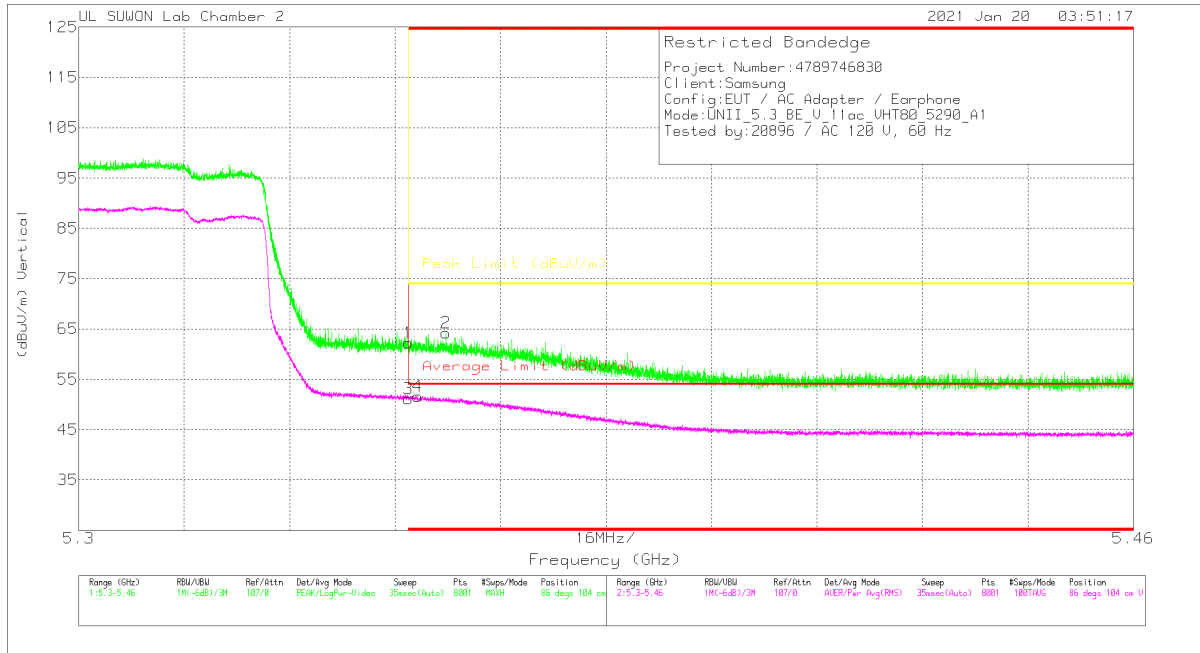


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 5.35002	44.2	Pk	34.5	-17.7	0	61	-	-	74	-13	104	143	H
2	* 5.35836	45.08	Pk	34.5	-17.7	0	61.88	-	-	74	-12.12	104	143	H
3	* 5.35002	32.58	RMS	34.5	-17.7	0	49.38	54	-4.62	-	-	104	143	H
4	* 5.35116	33.59	RMS	34.5	-17.7	0	50.39	54	-3.61	-	-	104	143	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_00168724	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	* 5.35002	45.38	Pk	34.5	-17.7	0	62.18	-	-	74	-11.82	86	104	V
2	* 5.35568	47.45	Pk	34.5	-17.7	0	64.25	-	-	74	-9.75	86	104	V
3	* 5.35002	34.37	RMS	34.5	-17.7	0	51.17	54	-2.83	-	-	86	104	V
4	* 5.35142	34.88	RMS	34.5	-17.7	0	51.68	54	-2.32	-	-	86	104	V

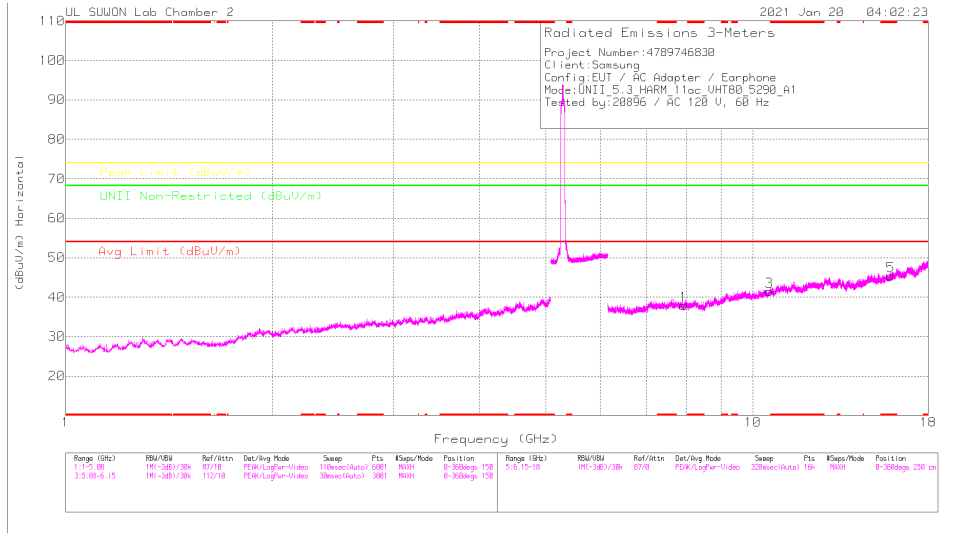
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

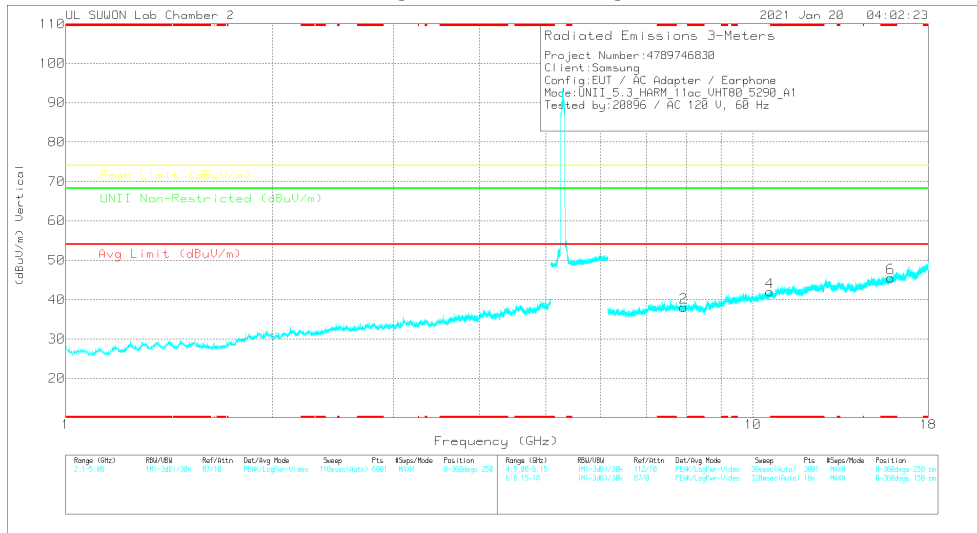
RMS - RMS detection

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	317_00168724	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)	Asimuth (Degs)	Height (cm)	Polarity
7.93984	35.79	PK-U	36	-23.3	0	48.49	-	-	-	-	68.2	-19.71	0	100	H
7.9358	35.95	PK-U	36	-23.4	0	48.55	-	-	-	-	68.2	-19.65	0	100	V
10.57585	33.34	PK-U	37.9	-19	0	52.24	-	-	-	-	68.2	-15.96	0	100	H
10.58056	34.46	PK-U	37.9	-19	0	53.36	-	-	-	-	68.2	-14.84	0	100	V
* 15.87117	34.6	PK-U	40.5	-19.1	0	56	-	-	74	-19	-	-	0	100	H
* 15.86911	34.45	PK-U	40.5	-19.4	0	55.55	-	-	74	-18.45	-	-	0	100	V

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

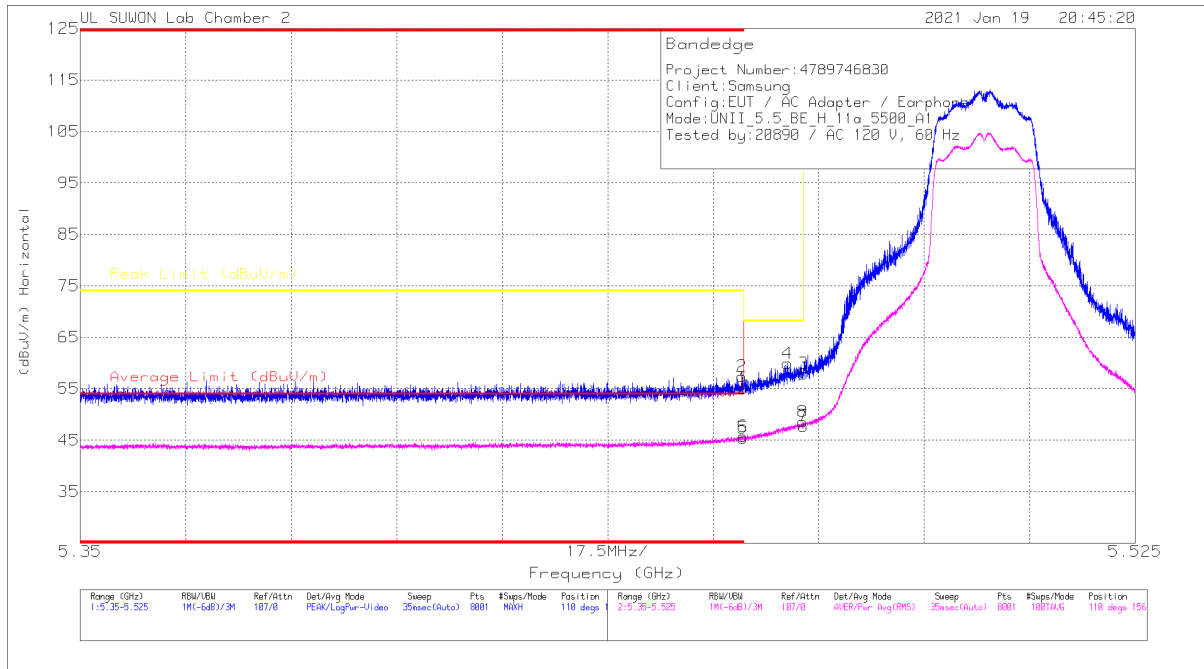
PK-U - U-NII: Maximum Peak

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

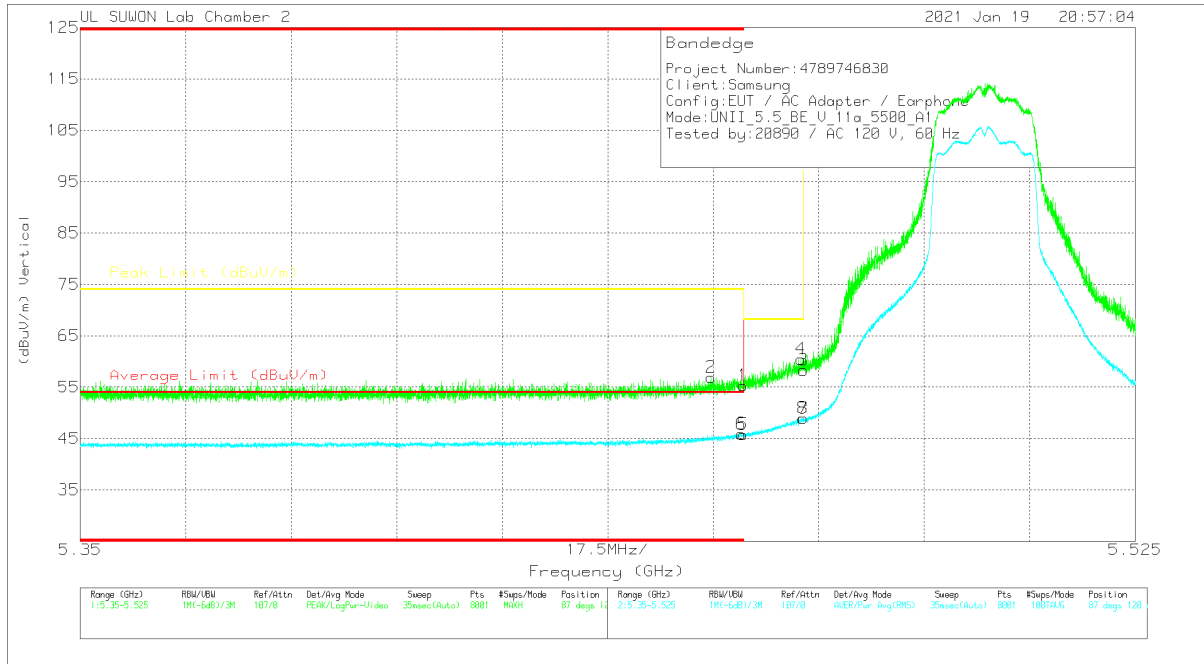
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45599	38.13	Pk	34.6	-17.7	0	55.03	-	-	74	-18.97	110	156	H
2	* 5.45977	40.48	Pk	34.6	-17.7	0	57.38	-	-	74	-16.62	110	156	H
3	5.46998	41.02	Pk	34.6	-17.7	0	57.92	-	-	68.2	-10.28	110	156	H
4	5.46729	43.03	Pk	34.6	-17.7	0	59.93	-	-	68.2	-8.27	110	156	H
5	* 5.45599	28.51	RMS	34.6	-17.7	0	45.41	54	-8.59	-	-	110	156	H
6	* 5.45994	28.83	RMS	34.6	-17.7	0	45.73	54	-8.27	-	-	110	156	H
7	5.46998	30.85	RMS	34.6	-17.7	0	47.75	-	-	-	-	110	156	H
8	5.46983	31.65	RMS	34.6	-17.7	0	48.55	-	-	-	-	110	156	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_00168724	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	* 5.45999	38.43	Pk	34.6	-17.7	0	55.33	-	-	74	-18.67	87	120	V
2	5.45465	40.02	Pk	34.6	-17.7	0	56.32	-	-	74	-17.08	87	120	V
3	5.46998	41.41	Pk	34.6	-17.7	0	58.31	-	-	68.2	-9.89	87	120	V
4	5.46953	43.58	Pk	34.6	-17.7	0	60.48	-	-	68.2	-7.72	87	120	V
5	* 5.45999	28.9	RMS	34.6	-17.7	0	45.8	54	-8.2	-	-	87	120	V
6	* 5.45982	28.9	RMS	34.6	-17.6	0	45.9	54	-8.1	-	-	87	120	V
7	5.46998	32.01	RMS	34.6	-17.7	0	48.91	-	-	-	-	87	120	V
8	5.4699	32.05	RMS	34.6	-17.7	0	48.95	-	-	-	-	87	120	V

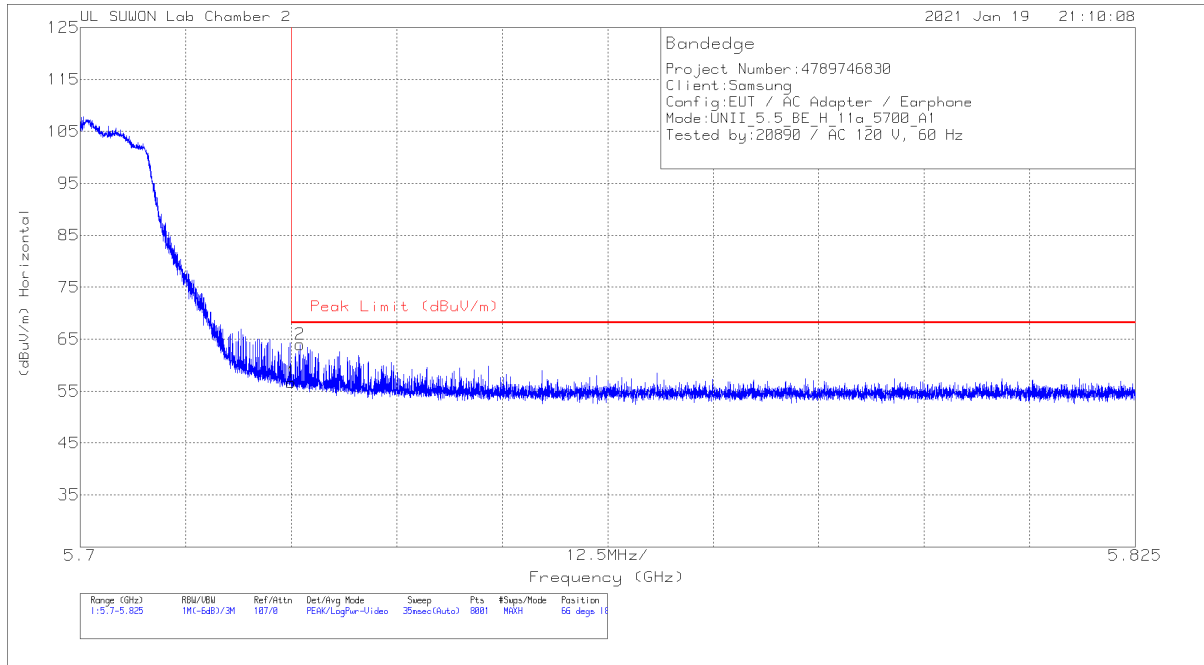
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

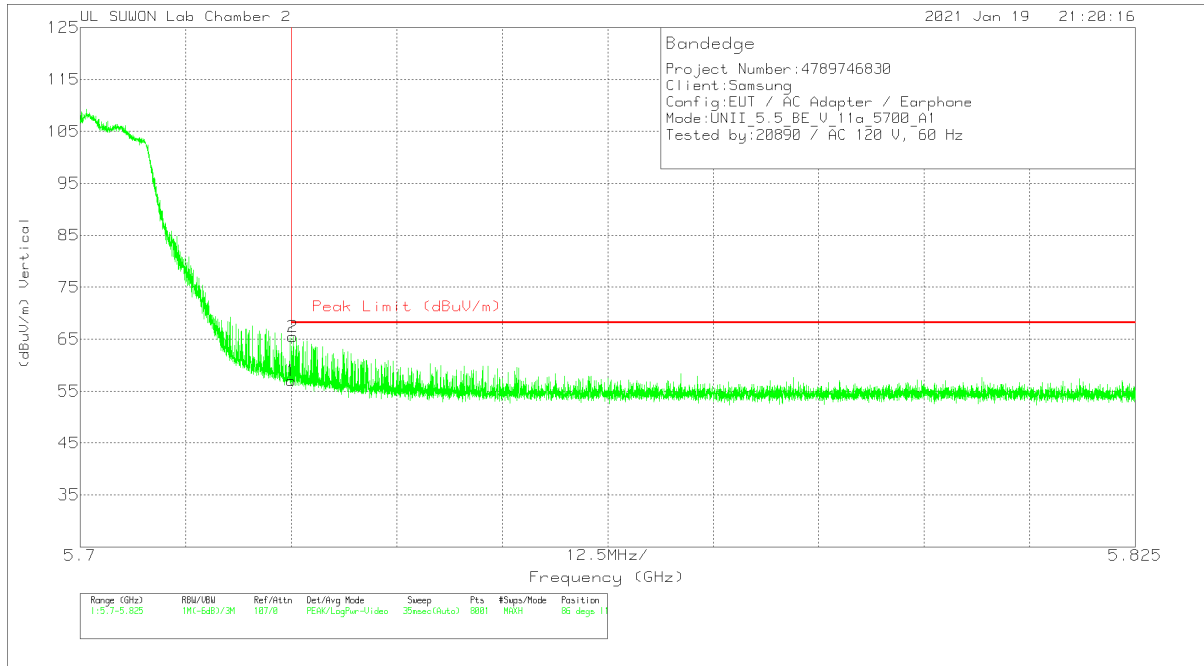


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	39.06	Pk	34.7	-17.1	0	56.66	68.2	-11.54	66	185	H
2	5.72606	46.38	Pk	34.7	-17.1	0	63.98	68.2	-4.22	66	185	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



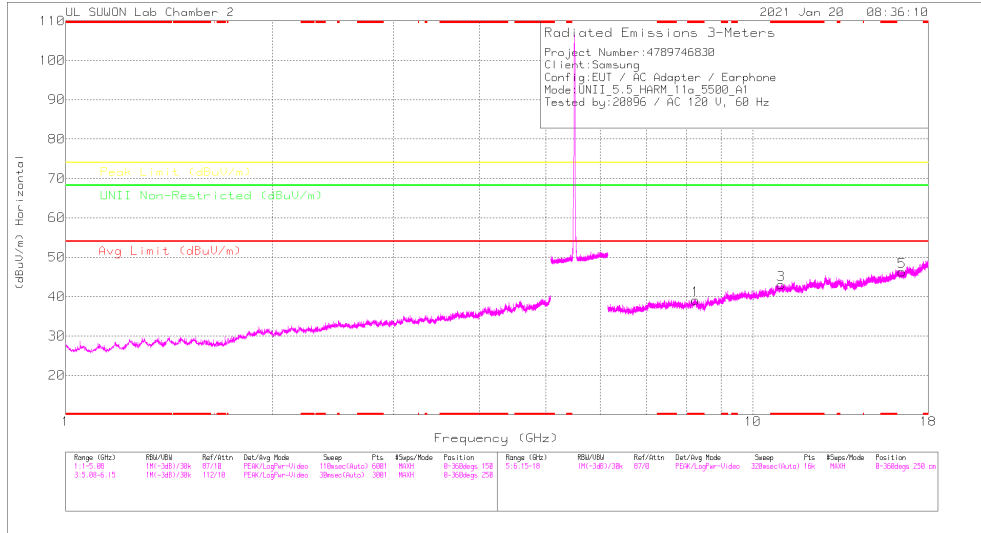
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	39.41	Pk	34.7	-17.1	0	57.01	68.2	-11.19	86	114	V
2	5.72519	47.88	Pk	34.7	-17.1	0	65.48	68.2	-2.72	86	114	V

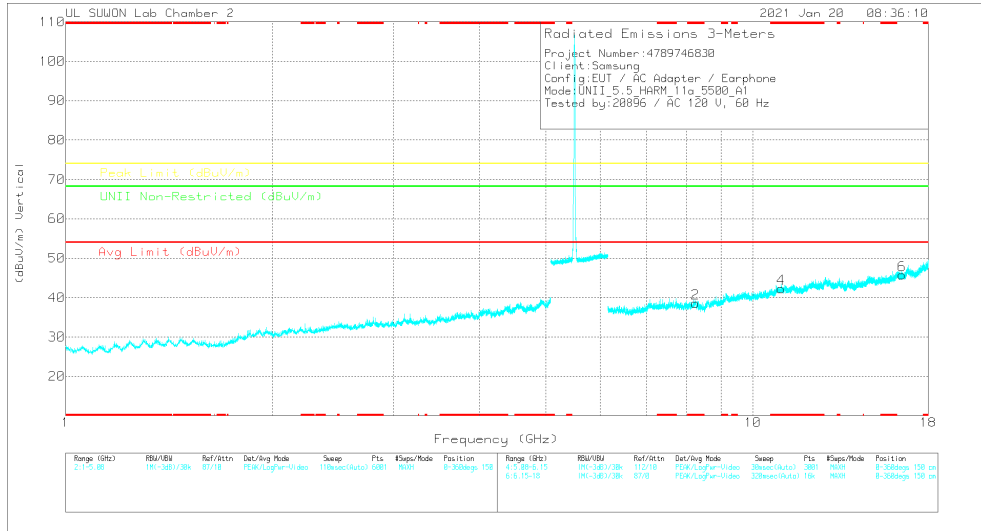
Pk - Peak detector

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

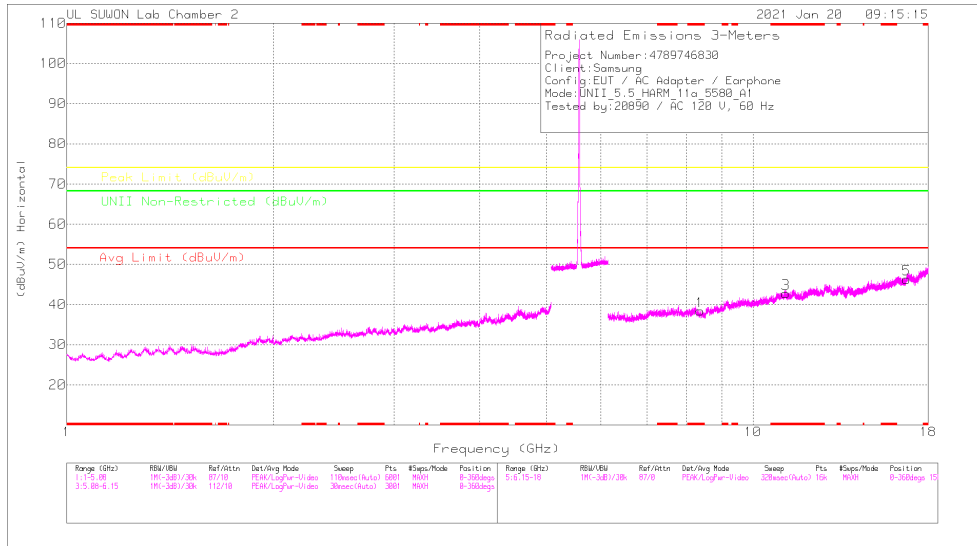
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168724	6GHz_H(FdB)	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
* 8.24584	35.52	PK-U	35.9	-22.2	0	49.22	-	-	74	-24.78	-	-	0	100	H
* 8.24942	35.7	PK-U	35.9	-22.2	0	50.4	-	-	74	-23.6	-	-	0	100	V
* 10.99932	34.27	PK-U	38.2	-19.7	0	52.77	-	-	74	-21.23	-	-	0	100	H
* 11.0043	34.64	PK-U	38.2	-19.7	0	53.14	-	-	74	-20.86	-	-	0	100	V
16.49633	34.79	PK-U	40.8	-19.5	0	56.09	-	-	-	-	68.2	-12.11	0	100	H
16.49801	34.77	PK-U	40.8	-19.5	0	56.07	-	-	-	-	68.2	-12.13	0	100	V

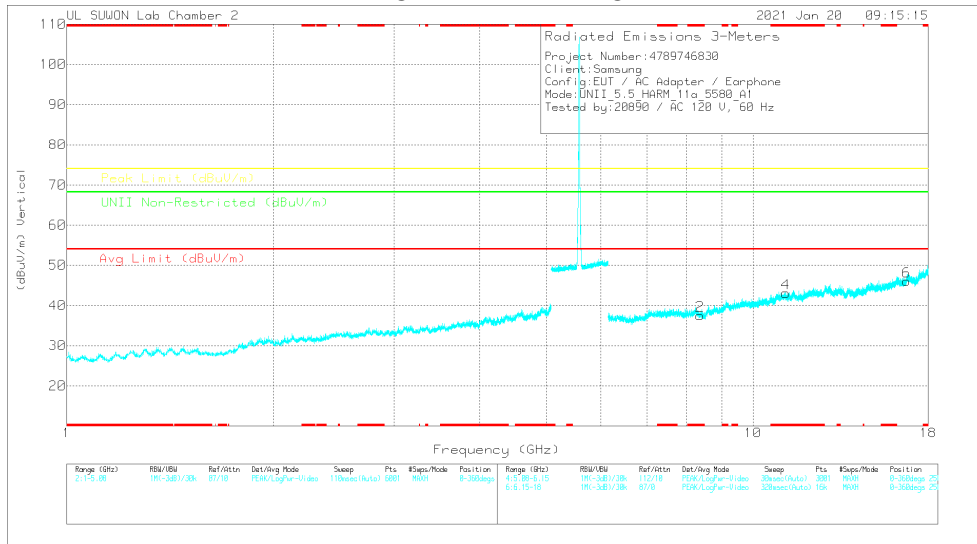
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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.

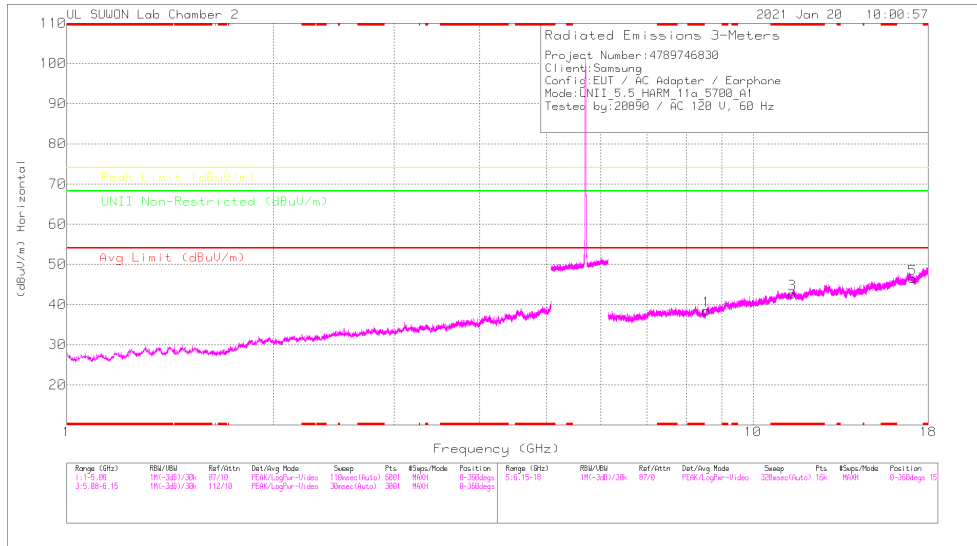
MID CHANNEL DATA

Radiated Emissions

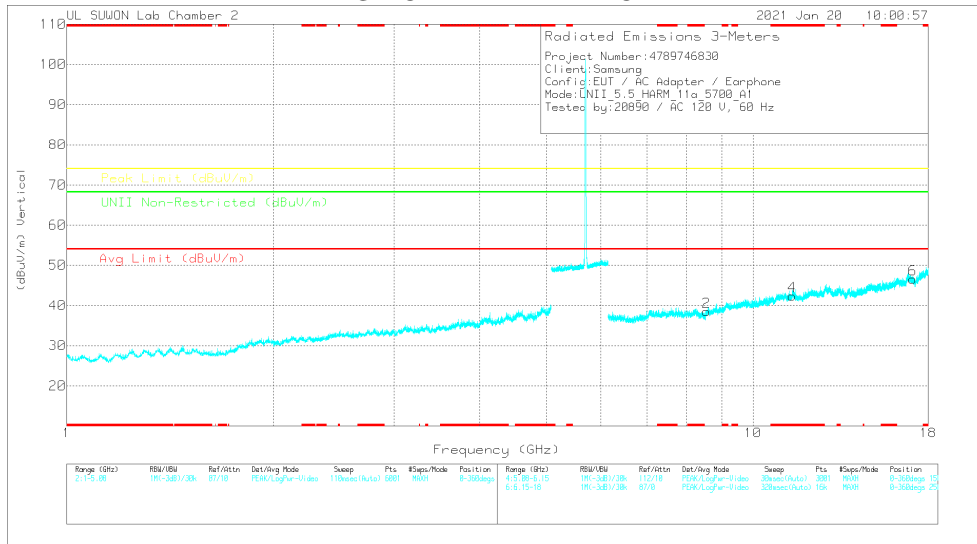
Frequency (GHz)	Max Reading (dBuV)	Det	2197_00160724	@GHz_HF@dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 8.37912	35.96	PK-U	36	-22.9	0	49.06	-	-	74	-24.94	-	-	0	100	H
* 8.3722	35.77	PK-U	36	-22.9	0	48.87	-	-	74	-25.13	-	-	0	100	V
* 11.1353	33.99	PK-U	38.3	-19	0	53.28	-	-	74	-20.72	-	-	0	100	H
* 11.16901	33.79	PK-U	38.3	-19.2	0	52.99	-	-	74	-21.11	-	-	0	100	V
16.74316	35.3	PK-U	41.1	-18.9	0	57.5	-	-	-	-	68.2	-10.7	0	100	H
16.74028	35	PK-U	41.1	-18.8	0	57.3	-	-	-	-	68.2	-10.9	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

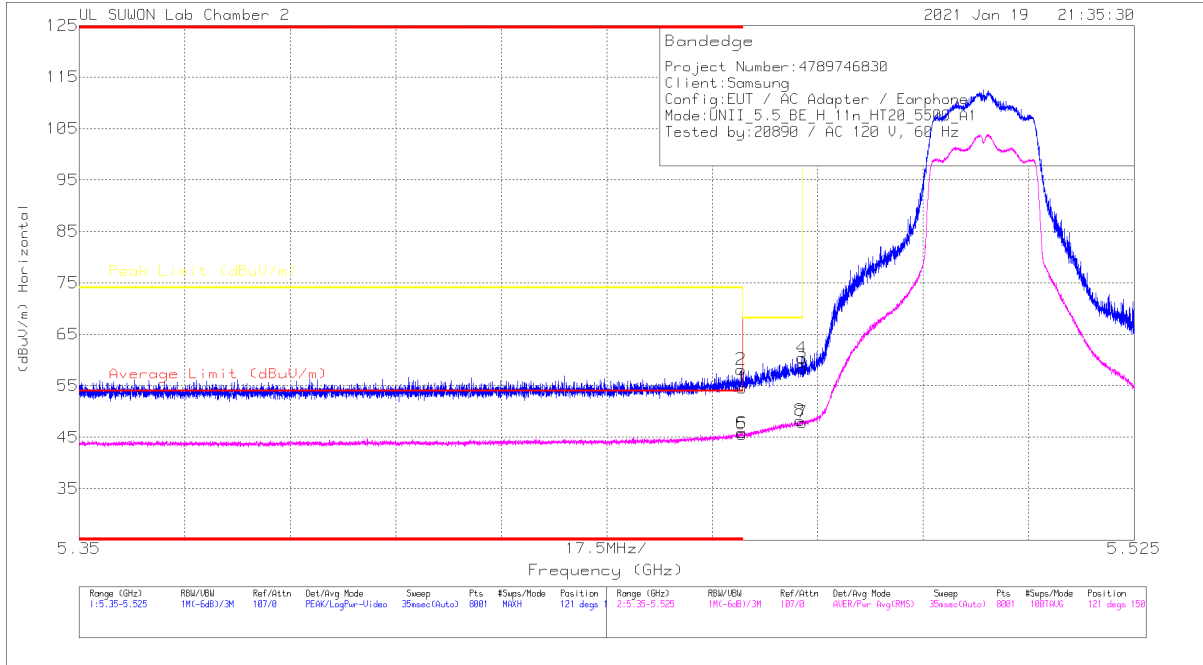
Frequency (GHz)	Meas. Reading (dBuV)	Det	317_00168724	6GHz_HF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asymm (Dips)	Height (cm)	Polarity
8.55387	34.89	PK-U	36.1	-21.6	0	49.39	-	-	-	-	68.2	-18.81	0	100	H
8.54733	34.42	PK-U	36	-21.7	0	48.72	-	-	-	-	68.2	-19.48	0	100	V
* 11.39337	34.09	PK-U	38.3	-19.4	0	52.99	-	-	74	-21.01	-	-	0	100	H
* 11.40658	34.53	PK-U	38.3	-19.5	0	53.33	-	-	74	-20.67	-	-	0	100	V
17.0942	34.27	PK-U	41	-18.3	0	56.97	-	-	-	-	68.2	-11.23	0	100	H
17.09074	34.19	PK-U	41	-18.3	0	56.89	-	-	-	-	68.2	-11.31	0	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

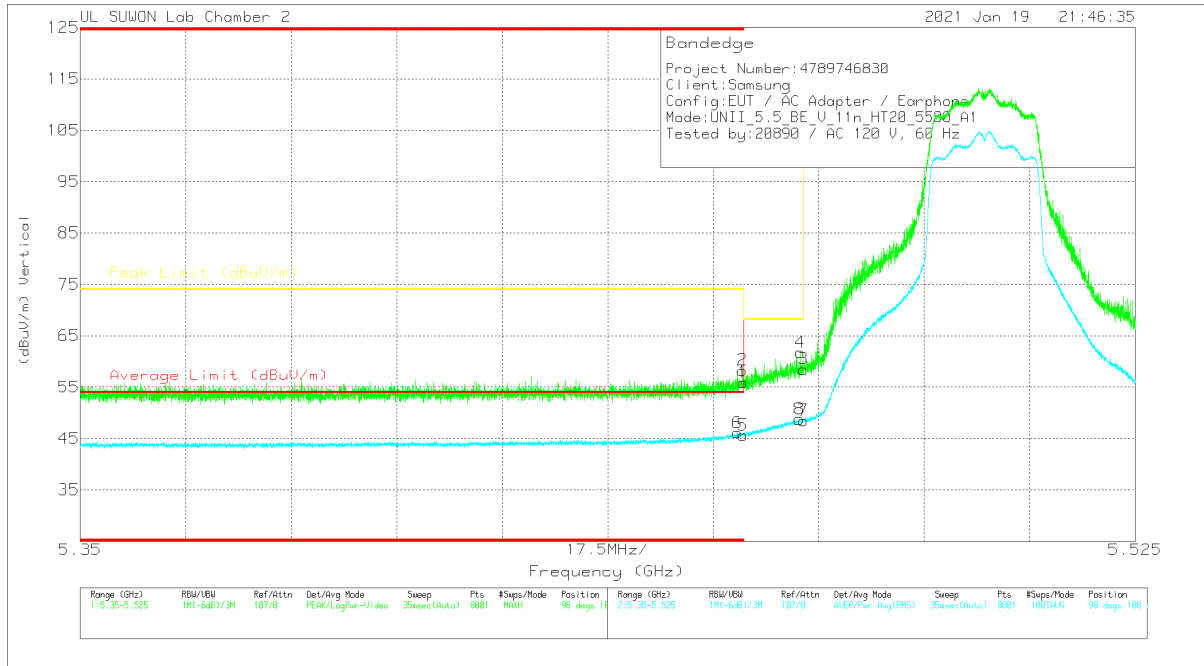
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45999	37.67	Pk	34.6	-17.7	0	54.57	-	-	74	-19.43	121	150	H
2	* 5.45979	41.23	Pk	34.6	-17.7	0	58.13	-	-	74	-15.87	121	150	H
3	5.46998	41.47	Pk	34.6	-17.7	0	58.37	-	-	68.2	-9.83	121	150	H
4	5.46983	43.53	Pk	34.6	-17.7	0	60.43	-	-	68.2	-7.77	121	150	H
5	* 5.45999	28.69	RMS	34.6	-17.7	0	45.59	54	-8.41	-	-	121	150	H
6	* 5.4599	28.97	RMS	34.6	-17.7	0	45.87	54	-8.13	-	-	121	150	H
7	5.46998	30.96	RMS	34.6	-17.7	0	47.86	-	-	-	-	121	150	H
8	5.46955	31.33	RMS	34.6	-17.7	0	48.23	-	-	-	-	121	150	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_00168724	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	* 5.45999	39.03	Pk	34.6	-17.7	0	55.93	-	-	74	-18.07	98	108	V
2	* 5.45981	41.39	Pk	34.6	-17.7	0	58.29	-	-	74	-15.71	98	108	V
3	5.46998	41.63	Pk	34.6	-17.7	0	58.53	-	-	68.2	-9.67	98	108	V
4	5.46942	44.98	Pk	34.6	-17.7	0	61.78	-	-	68.2	-6.42	98	108	V
5	* 5.45999	28.75	RMS	34.6	-17.7	0	45.65	54	-8.35	-	-	98	108	V
6	* 5.45903	29.13	RMS	34.6	-17.6	0	46.13	54	-7.87	-	-	98	108	V
7	5.46998	31.56	RMS	34.6	-17.7	0	48.46	-	-	-	-	98	108	V
8	5.46928	31.88	RMS	34.6	-17.7	0	48.78	-	-	-	-	98	108	V

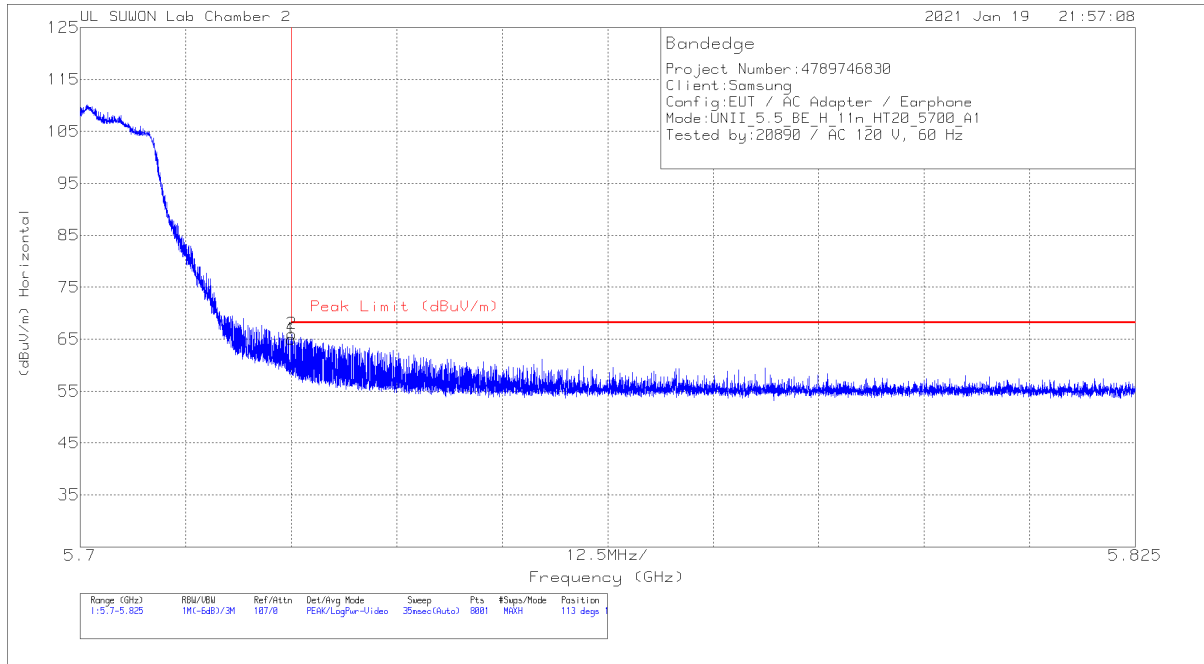
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

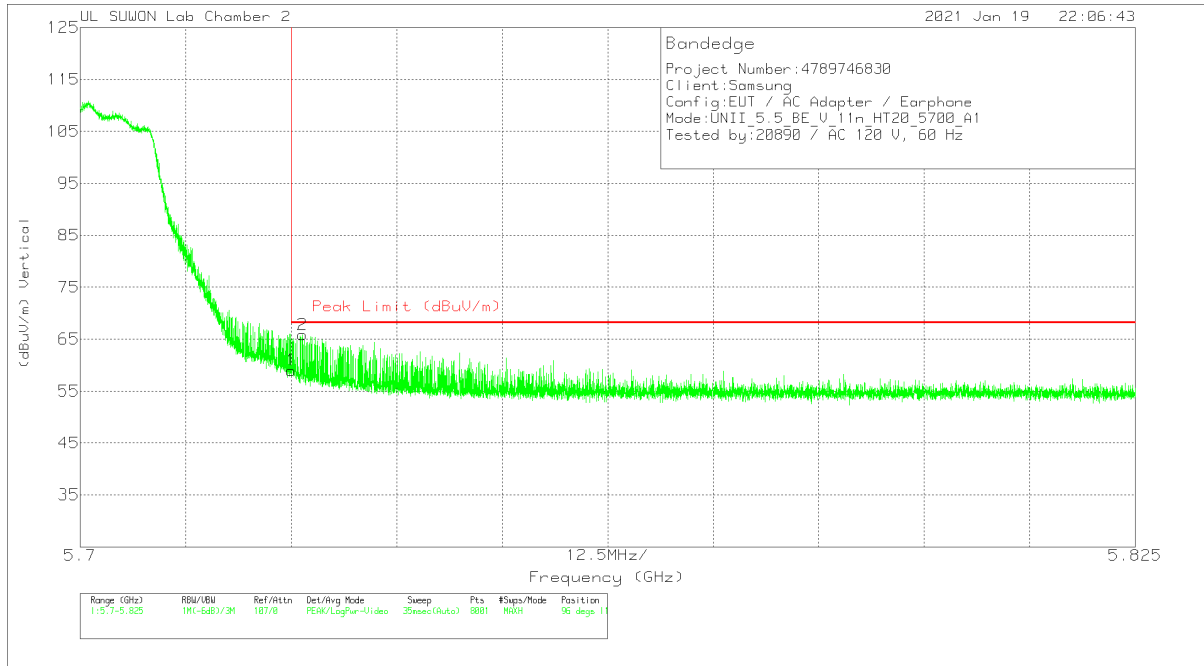


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	47.47	Pk	34.7	-17.1	0	65.07	68.2	-3.13	113	187	H
2	5.72508	48.42	Pk	34.7	-17.1	0	66.02	68.2	-2.18	113	187	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



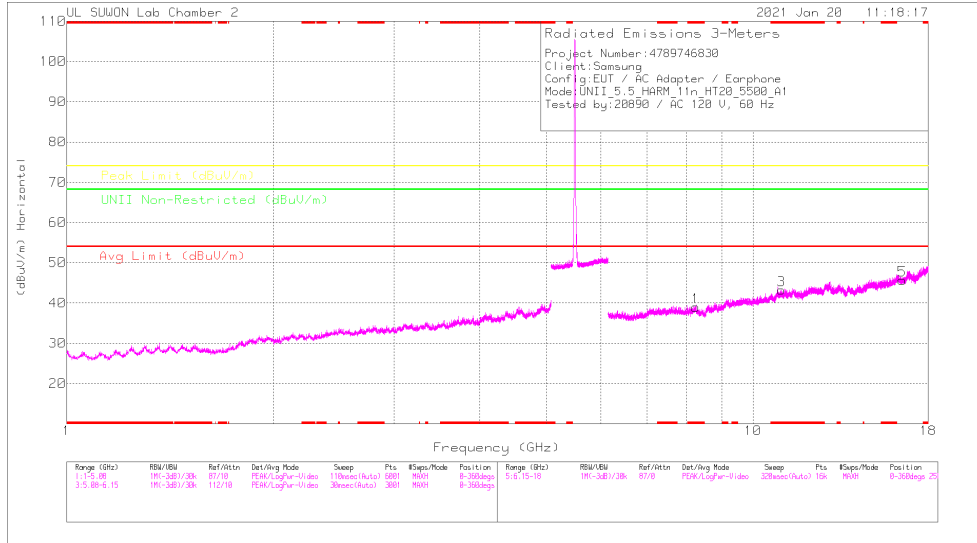
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	41.41	Pk	34.7	-17.1	0	59.01	68.2	-9.19	96	116	V
2	5.72634	48.25	Pk	34.7	-17.1	0	65.85	68.2	-2.35	96	116	V

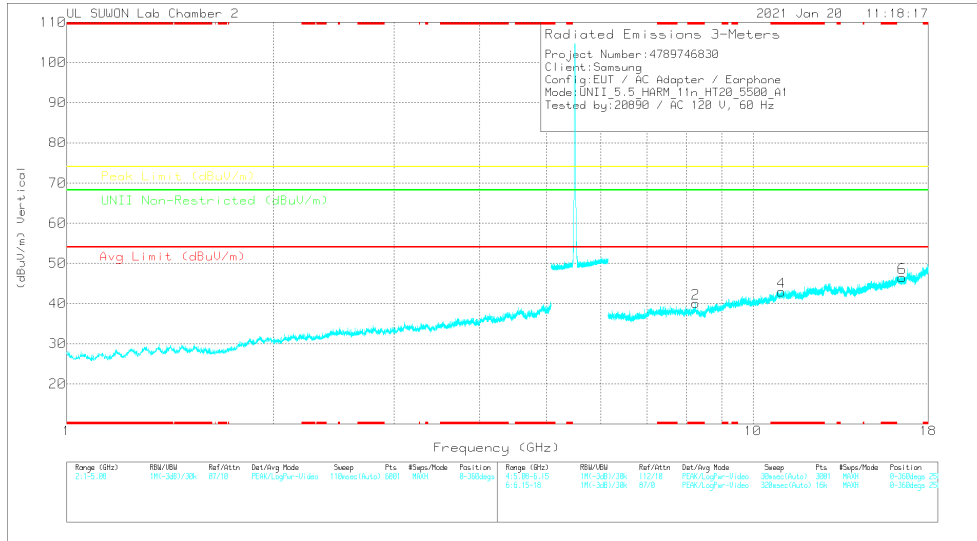
Pk - Peak detector

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.

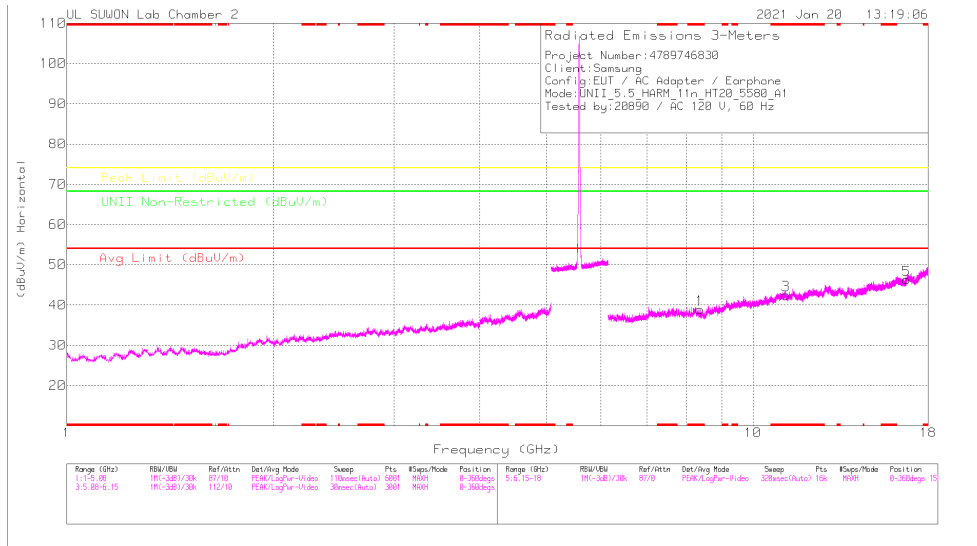
LOW CHANNEL DATA

Radiated Emissions

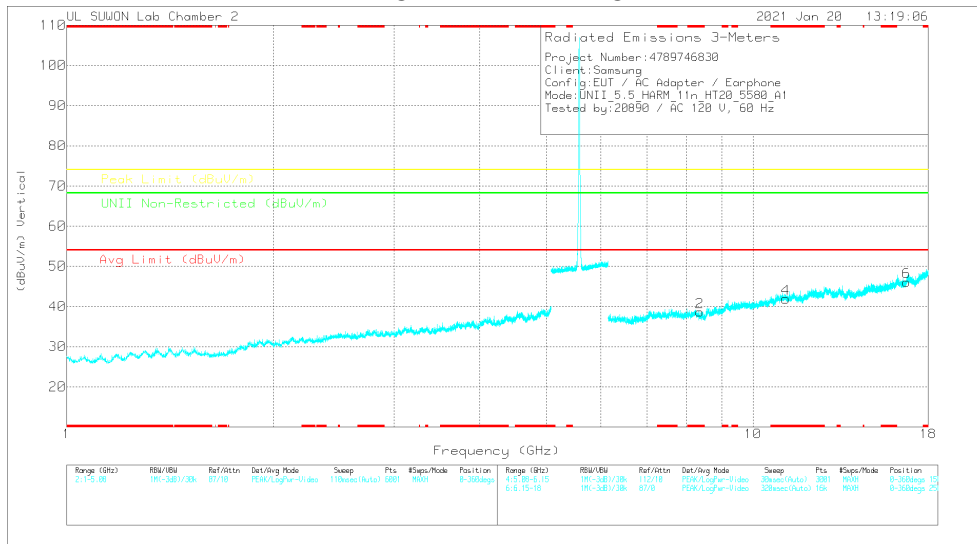
Frequency (GHz)	Main Reading (dBuV)	Det	317.00168724	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Magn (dB)	Peak Limit (dBuV/m)	Magn (dB)	UNII Non-Restricted (dBuV/m)	Magn (dB)	Asymth (Shape)	Height (cm)	Polarity
* 8.2483	35.65	PK-U	35.9	-22.3	0	49.25	-	-	74	-24.75	-	-	0	100	H
* 8.25612	35.54	PK-U	35.9	-22.2	0	49.24	-	-	74	-24.76	-	-	0	100	V
* 11.00437	34.4	PK-U	38.2	-19.7	0	52.9	-	-	74	-21.1	-	-	0	100	H
* 11.00195	34.47	PK-U	38.2	-19.8	0	52.67	-	-	74	-21.13	-	-	0	100	V
16.494	34.83	PK-U	40.8	-19.5	0	56.13	-	-	-	-	68.2	-12.07	0	100	H
16.50279	34.9	PK-U	40.8	-19.3	0	56.4	-	-	-	-	68.2	-11.8	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

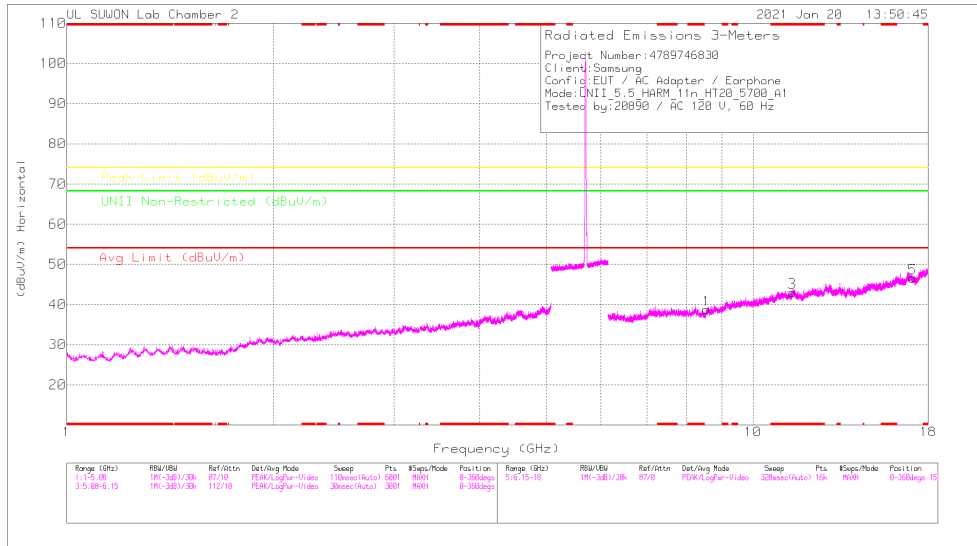
Radiated Emissions

Frequency (GHz)	Meas Reading (dBm)	Det	317_00168724	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
* 8.3751	35.52	PK-U	36	-22.9	0	48.62	-	-	74	-25.38	-	-	0	100	H
* 8.36916	35.43	PK-U	36	-22.9	0	48.53	-	-	74	-25.47	-	-	0	100	V
* 11.15105	33.88	PK-U	38.3	-18.9	0	53.28	-	-	74	-20.72	-	-	0	100	H
* 11.15649	35.9	PK-U	38.3	-19	0	55.2	-	-	74	-18.8	-	-	0	100	V
16.73106	34.7	PK-U	41.1	-18.7	0	57.1	-	-	-	-	68.2	-11.1	0	100	H
16.73589	34.57	PK-U	41.1	-18.8	0	56.87	-	-	-	-	68.2	-11.33	0	100	V

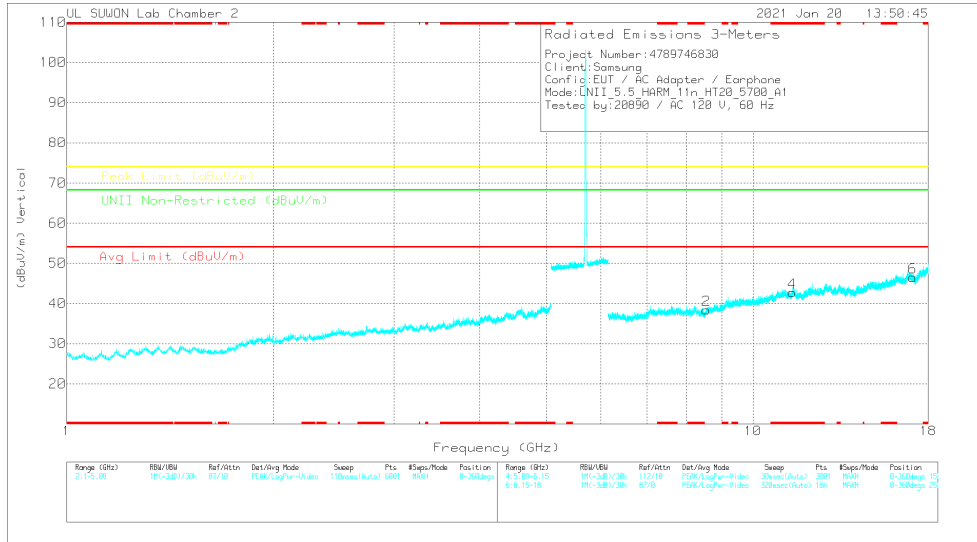
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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	317_00168724	6GHz_HPSSE	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 (Height)	Height (cm)	Polarity
8.54957	34.55	PK-U	36	-21.5	0	49.05	-	-	-	-	68.2	-19.15	0	100	H
8.54619	35.34	PK-U	36	-21.7	0	49.64	-	-	-	-	68.2	-18.56	0	100	V
* 11.39413	34.23	PK-U	38.3	-19.5	0	53.03	-	-	74	-20.97	-	-	0	100	H
* 11.40551	33.81	PK-U	38.3	-19.3	0	52.81	-	-	74	-21.19	-	-	0	100	V
17.10639	34.33	PK-U	41	-18.2	0	57.13	-	-	-	-	68.2	-11.07	0	100	H
17.09949	34.76	PK-U	41	-18.3	0	57.46	-	-	-	-	68.2	-10.74	0	100	V

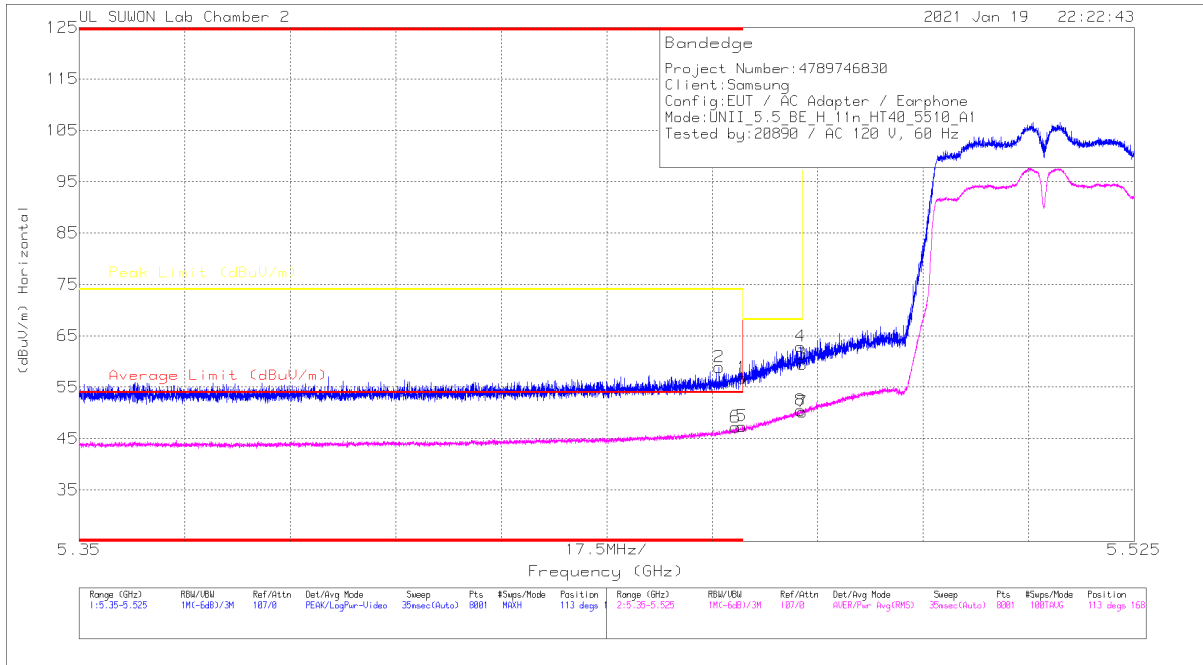
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

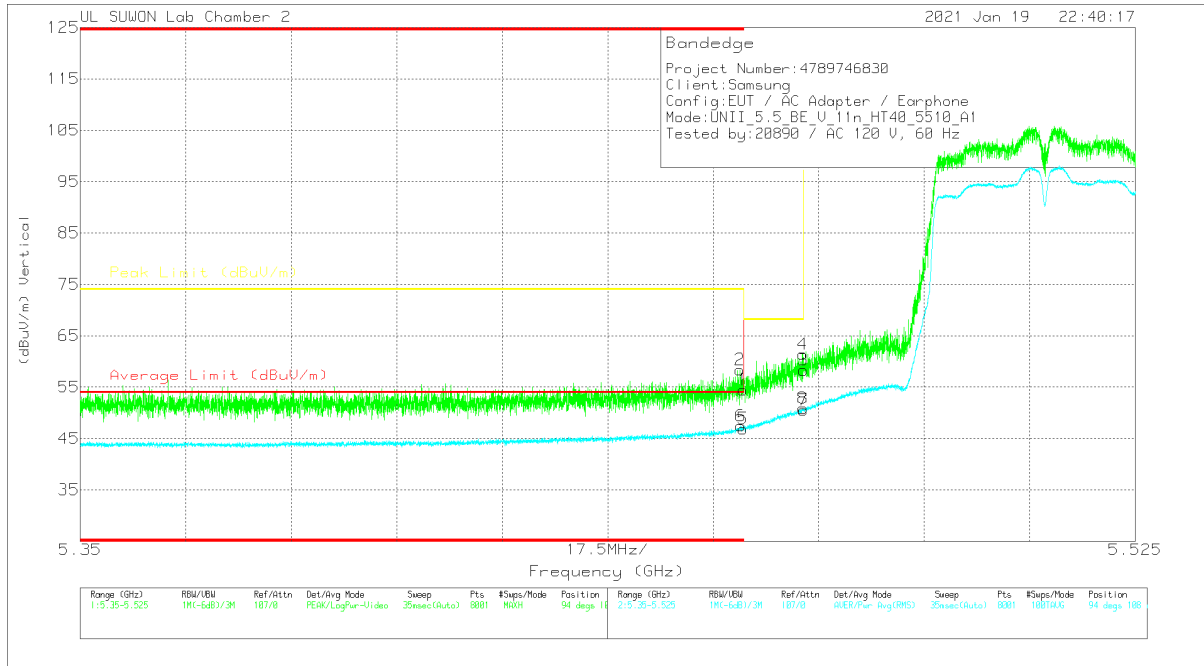
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45999	39.91	Pk	34.6	-17.7	0	56.81	-	-	74	-17.19	113	168	H
2	* 5.45614	42.01	Pk	34.6	-17.7	0	58.91	-	-	74	-15.09	113	168	H
3	5.46998	42.55	Pk	34.6	-17.7	0	59.45	-	-	68.2	-8.75	113	168	H
4	5.46998	46.03	Pk	34.6	-17.7	0	62.93	-	-	68.2	-5.27	113	168	H
5	* 5.45999	30.5	RMS	34.6	-17.7	0	47.4	54	-6.6	-	-	113	168	H
6	* 5.45885	30.34	RMS	34.6	-17.7	0	47.24	54	-6.76	-	-	113	168	H
7	5.46998	33.25	RMS	34.6	-17.7	0	50.15	-	-	-	-	113	168	H
8	5.46968	33.58	RMS	34.6	-17.7	0	50.48	-	-	-	-	113	168	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



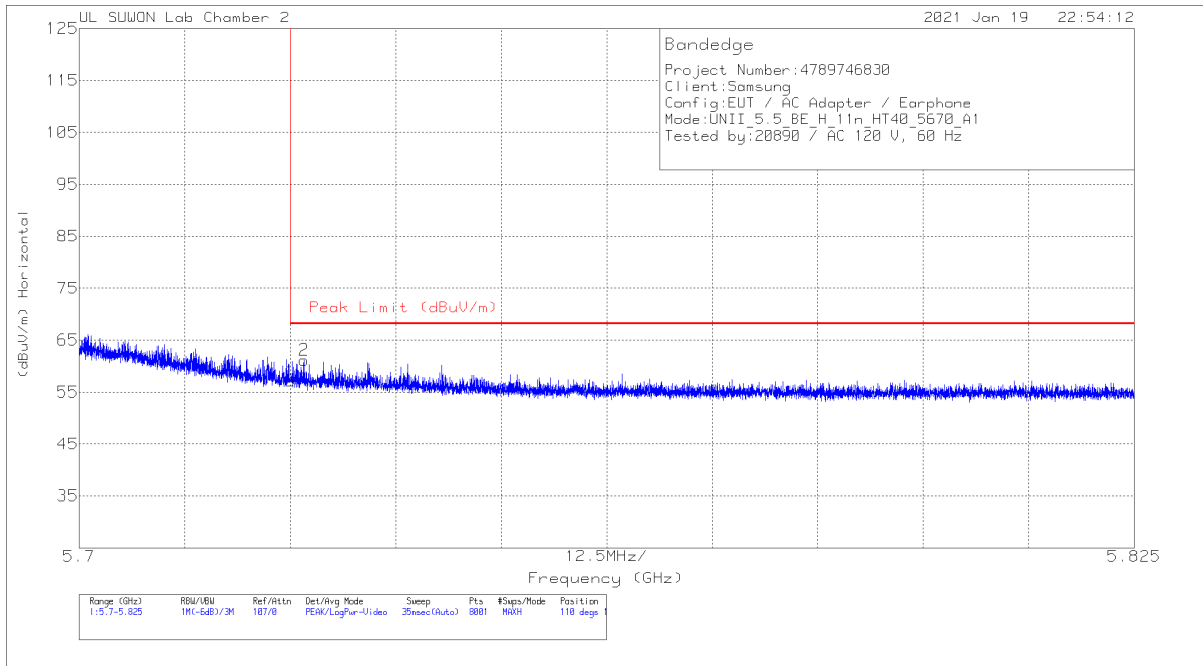
Trace Markers

Marker	Frequency (Ghz)	Meter Reading (dBuV)	Det	3117_00168724	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	* 5.45999	37.56	Pk	34.6	-17.7	0	54.46	-	-	74	-19.54	94	108	V
2	* 5.45946	41.36	Pk	34.6	-17.6	0	58.36	-	-	74	-15.64	94	108	V
3	5.46998	41.42	Pk	34.6	-17.7	0	58.32	-	-	68.2	-9.88	94	108	V
4	5.46985	44.5	Pk	34.6	-17.7	0	61.4	-	-	68.2	-6.8	94	108	V
5	* 5.45999	30	RMS	34.6	-17.7	0	46.9	54	-7.1	-	-	94	108	V
6	* 5.45957	30.46	RMS	34.6	-17.6	0	47.46	54	-6.54	-	-	94	108	V
7	5.46998	33.6	RMS	34.6	-17.7	0	50.5	-	-	-	-	94	108	V
8	5.4699	33.97	RMS	34.6	-17.7	0	50.87	-	-	-	-	94	108	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

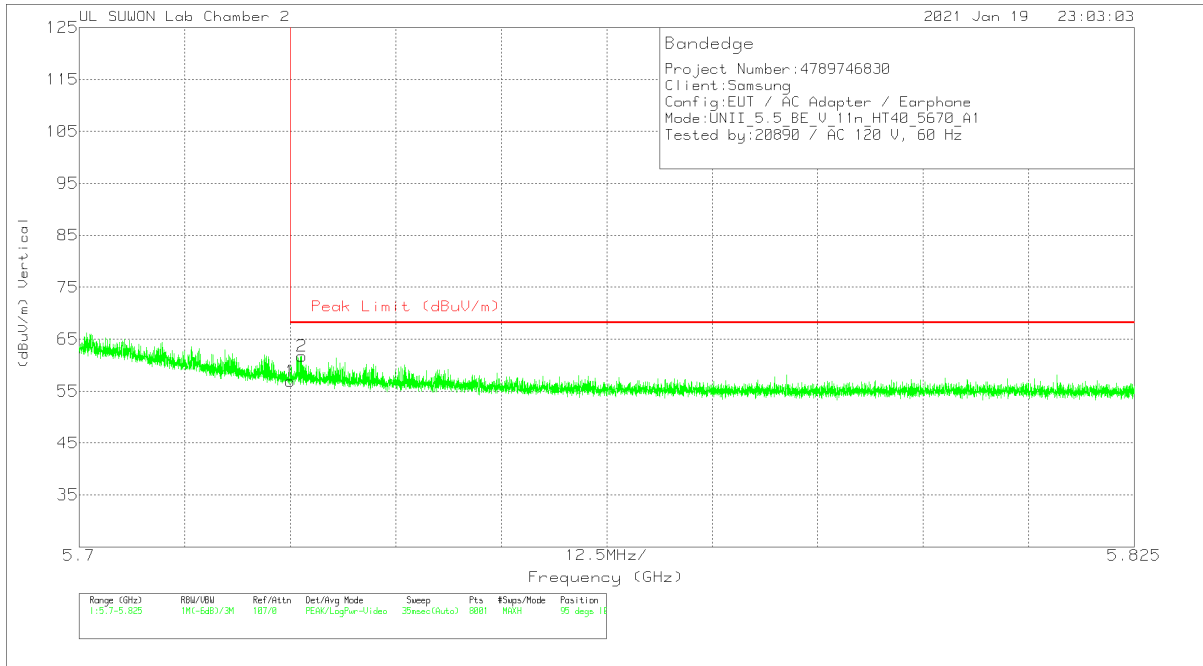


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	39.54	Pk	34.7	-17.1	0	57.14	68.2	-11.06	110	151	H
2	5.72663	43.54	Pk	34.7	-17.1	0	61.14	68.2	-7.06	110	151	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



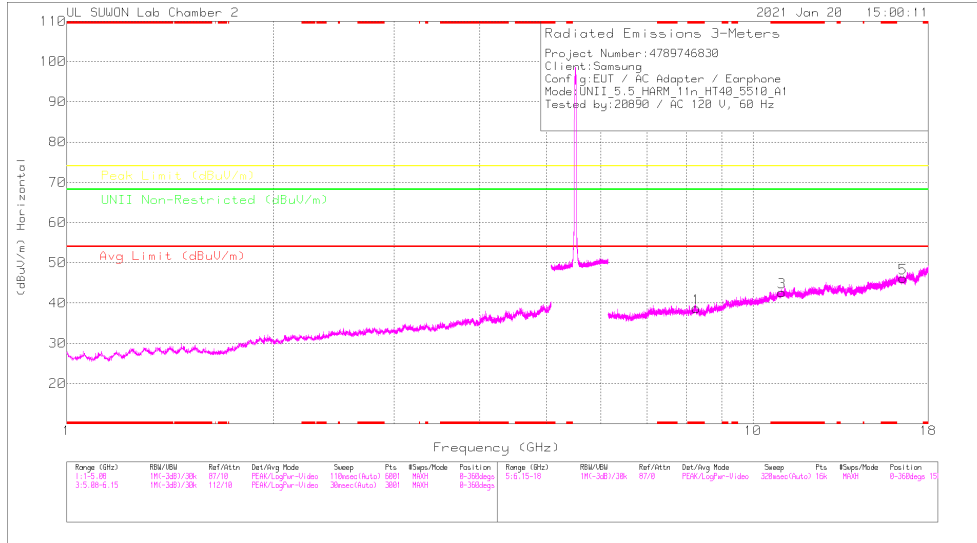
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	39.27	Pk	34.7	-17.1	0	56.87	68.2	-11.33	95	106	V
2	5.72638	44.12	Pk	34.7	-17.1	0	61.72	68.2	-6.48	95	106	V

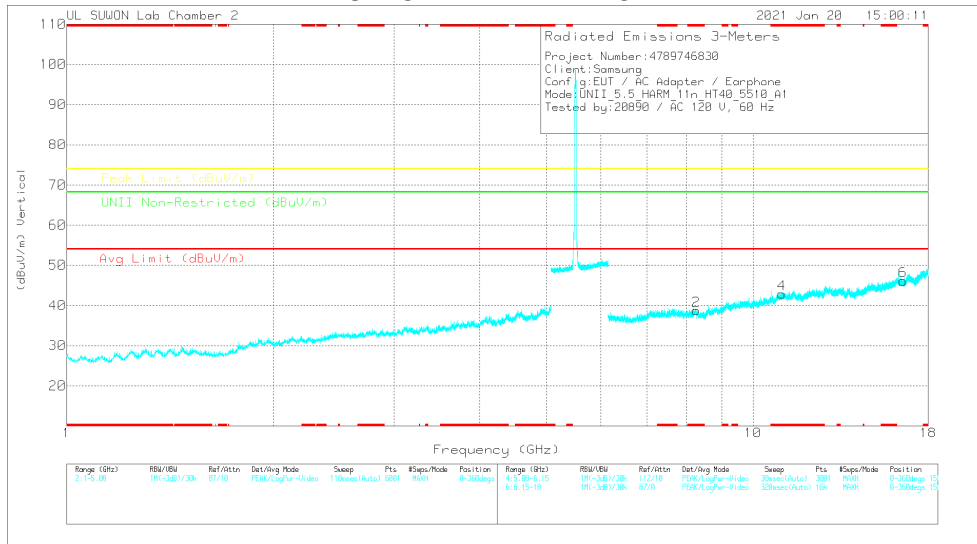
Pk - Peak detector

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.

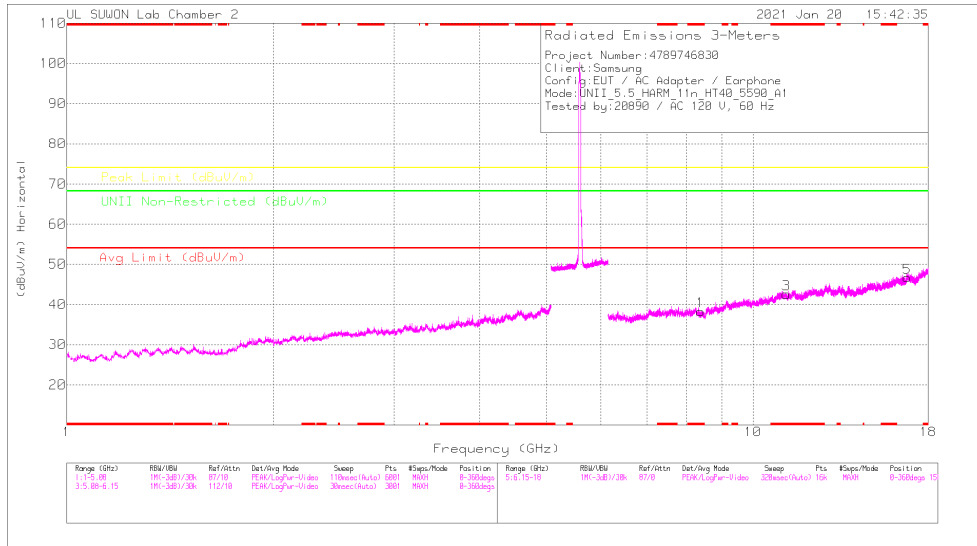
LOW CHANNEL DATA

Radiated Emissions

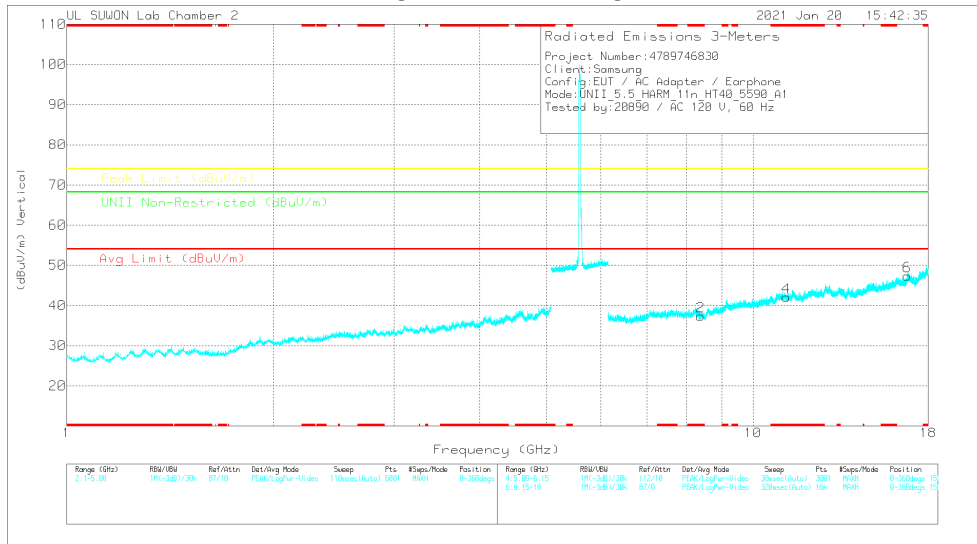
Frequency (GHz)	Mask Reading (dBuV)	Det	317_00168724	6GHz_HPS[B]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmth (dBpts)	Height (cm)	Polarity
* 8.25799	35.1	PK-U	35.9	-22.2	0	48.3	-	-	74	-25.2	-	-	0	100	H
* 8.27656	35.1	PK-U	35.9	-22.3	0	48.7	-	-	74	-25.3	-	-	0	100	V
* 11.03003	34.32	PK-U	38.2	-19.8	0	52.72	-	-	74	-21.28	-	-	0	100	H
* 11.02905	34.37	PK-U	38.2	-19.8	0	52.77	-	-	74	-21.23	-	-	0	100	V
16.52992	35.23	PK-U	40.9	-19.3	0	56.83	-	-	-	-	68.2	-11.37	0	100	H
16.52365	35.24	PK-U	40.9	-19.4	0	56.74	-	-	-	-	68.2	-11.46	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.

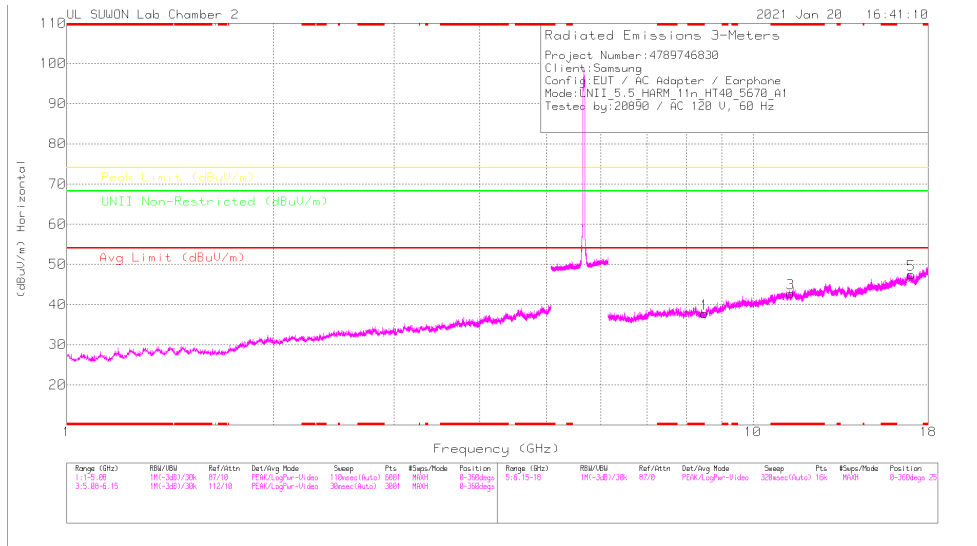
MID CHANNEL DATA

Radiated Emissions

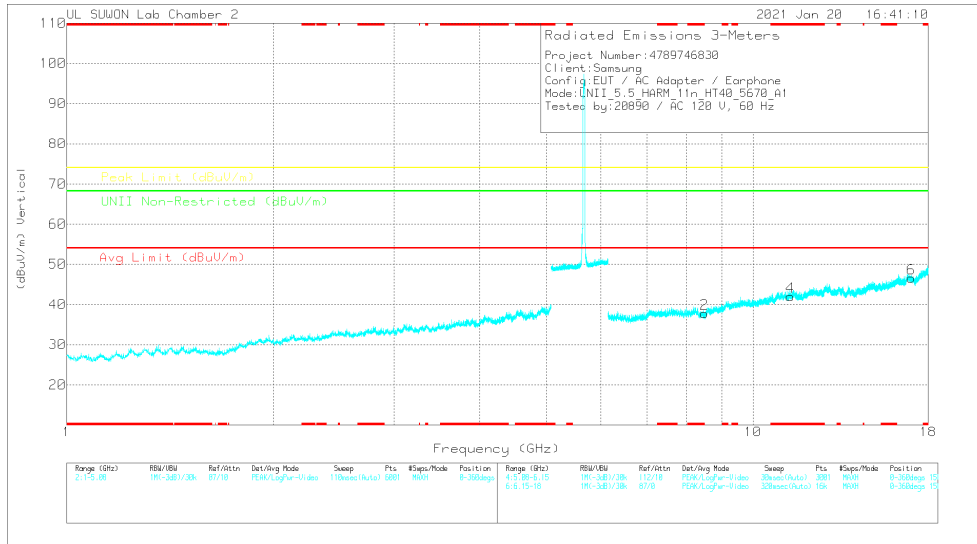
Frequency (GHz)	Meas Reading (dBuV)	Det	2117_00160724	@GHz_HF@dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Admth (Degs)	Height (cm)	Polarity
* 8.38729	35.19	PK-U	36	-23.1	0	48.09	-	-	74	-25.91	-	-	0	100	H
* 8.38111	36.04	PK-U	36	-22.9	0	49.14	-	-	74	-24.86	-	-	0	100	V
* 11.17367	34.36	PK-U	38.3	-19.1	0	53.66	-	-	74	-20.44	-	-	0	100	H
* 11.17826	33.34	PK-U	38.3	-19	0	52.64	-	-	74	-21.36	-	-	0	100	V
16.7692	34.8	PK-U	41.2	-18.5	0	57.5	-	-	-	-	68.2	-10.7	0	100	H
16.77065	34.58	PK-U	41.2	-18.4	0	57.38	-	-	-	-	68.2	-10.82	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

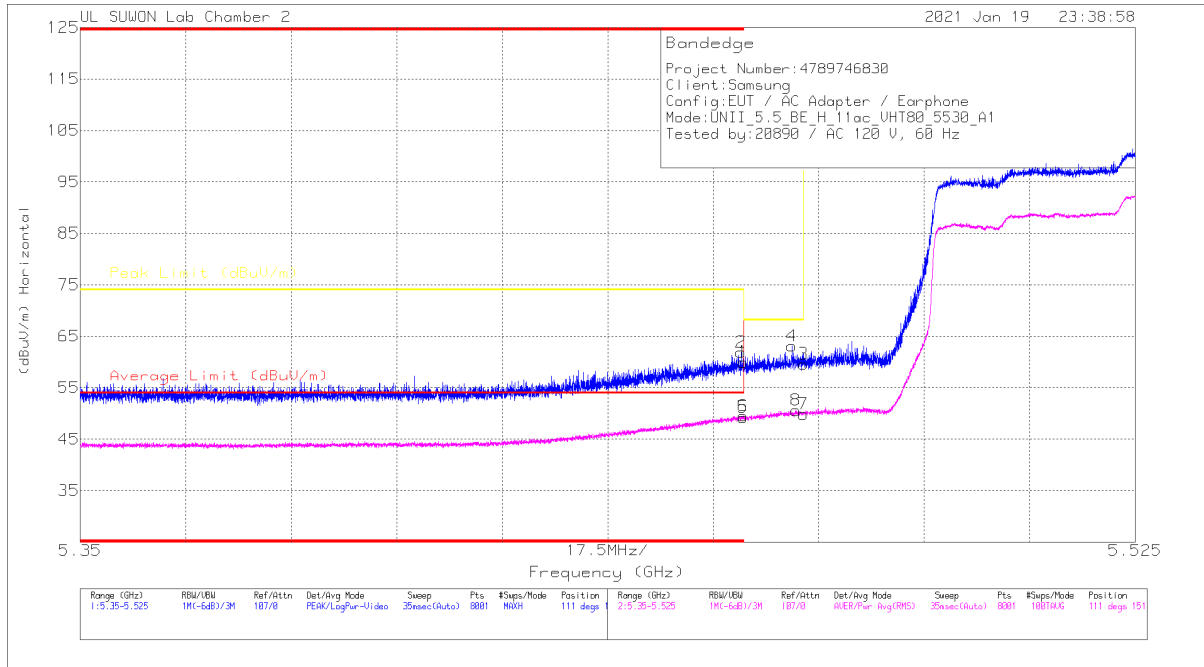
Frequency (GHz)	Major Reading (dBuV)	Dir	317_0168724	IS24_HPS(S)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.50262	35.58	PK-U	36	-22.7	0	48.88	-	-	-	-	68.2	-19.32	0	100	H
8.50074	35.22	PK-U	36	-22.6	0	48.82	-	-	-	-	68.2	-19.58	0	100	V
* 11.33952	34.32	PK-U	38.3	-19.5	0	53.12	-	-	74	-20.88	-	-	0	100	H
* 11.34077	34.08	PK-U	38.3	-19.5	0	52.88	-	-	74	-21.12	-	-	0	100	V
17.0053	34.67	PK-U	41.1	-18	0	57.77	-	-	-	-	68.2	-10.43	0	100	H
17.00519	34.59	PK-U	41.1	-18	0	57.69	-	-	-	-	68.2	-10.51	0	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

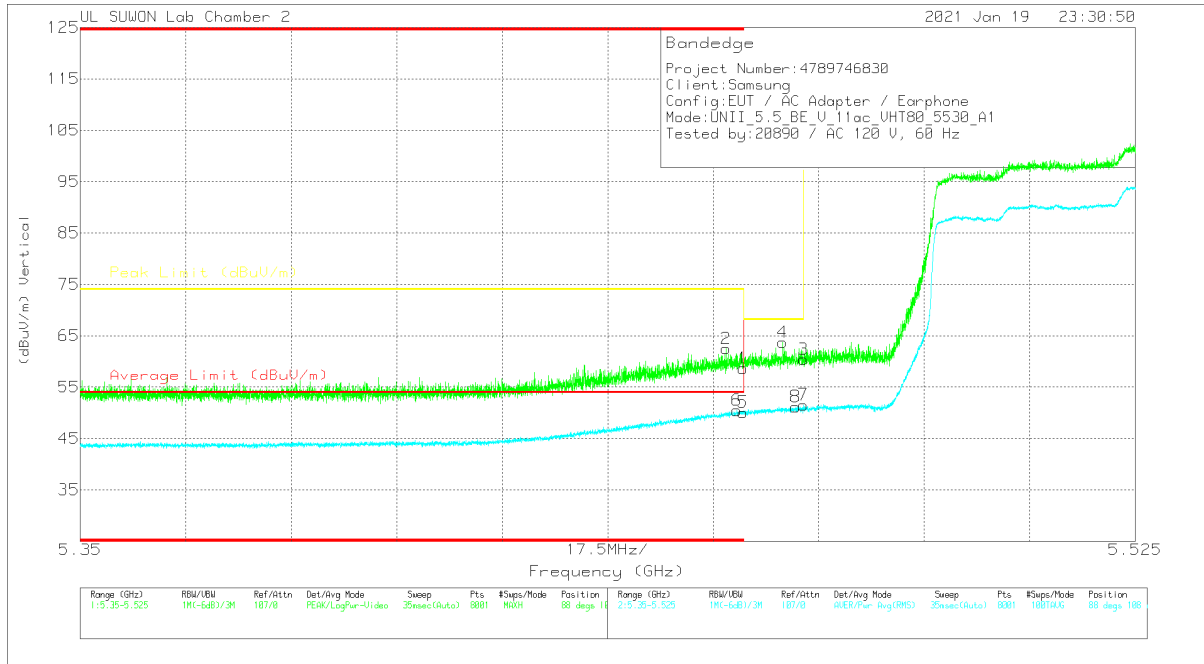
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45999	43.07	Pk		-17.7	0	59.97	-	-	74	-14.03	111	151	H
2	* 5.45959	44.88	Pk		-17.6	0	61.88	-	-	74	-12.12	111	151	H
3	5.46998	42.69	Pk		-17.7	0	59.59	-	-	68.2	-8.61	111	151	H
4	5.46804	46.21	Pk		-17.7	0	63.11	-	-	68.2	-5.09	111	151	H
5	* 5.45999	32.32	RMS		-17.7	0	49.22	54	-4.78	-	-	111	151	H
6	* 5.45992	32.63	RMS		-17.7	0	49.53	54	-4.47	-	-	111	151	H
7	5.46998	32.97	RMS		-17.7	0	49.87	-	-	-	-	111	151	H
8	5.46874	33.7	RMS		-17.7	0	50.6	-	-	-	-	111	151	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_00168724	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	* 5.45999	41.78	Pk	34.6	-17.7	0	58.88	-	-	74	-15.32	88	108	V
2	* 5.45714	45.6	Pk	34.6	-17.7	0	62.5	-	-	74	-11.5	88	108	V
3	5.46998	43.53	Pk	34.6	-17.7	0	60.43	-	-	68.2	-7.77	88	108	V
4	5.46648	46.82	Pk	34.6	-17.7	0	63.72	-	-	68.2	-4.48	88	108	V
5	* 5.45999	33.18	RMS	34.6	-17.7	0	50.08	54	-3.92	-	-	88	108	V
6	* 5.45892	33.58	RMS	34.6	-17.7	0	50.48	54	-3.52	-	-	88	108	V
7	5.46998	34.62	RMS	34.6	-17.7	0	51.62	-	-	-	-	88	108	V
8	5.46865	34.25	RMS	34.6	-17.7	0	51.15	-	-	-	-	88	108	V

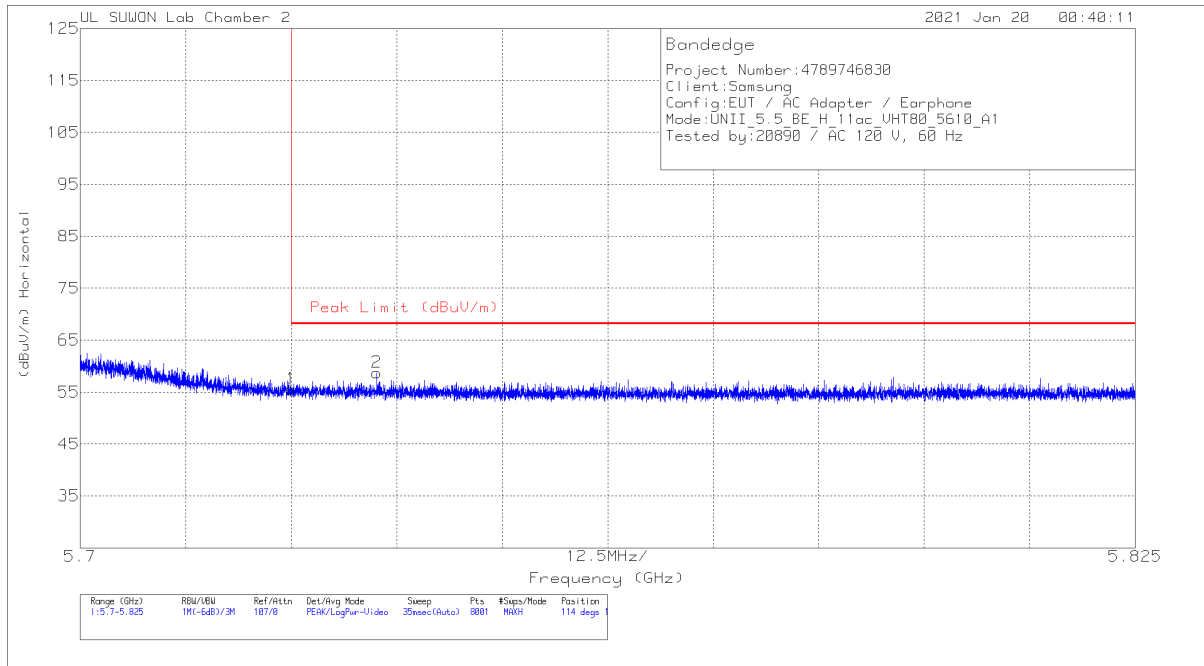
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BADEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

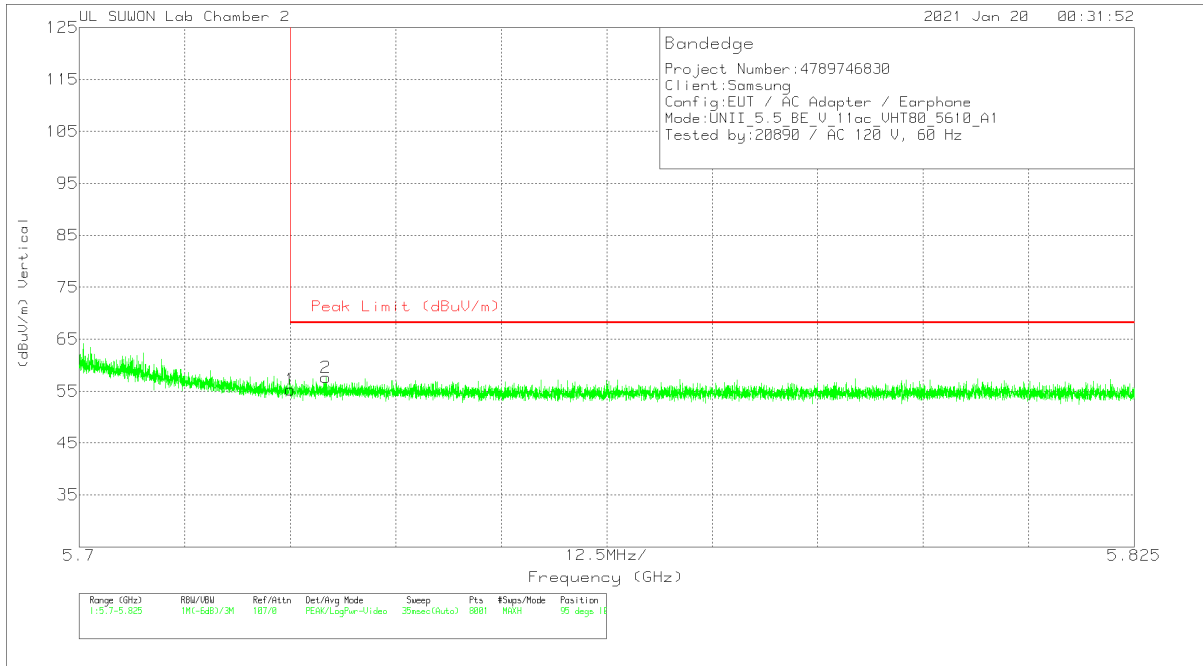


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	38.01	Pk	34.7	-17.1	0	55.61	68.2	-12.59	114	154	H
2	5.73516	41.07	Pk	34.7	-17	0	58.77	68.2	-9.43	114	154	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE DATA



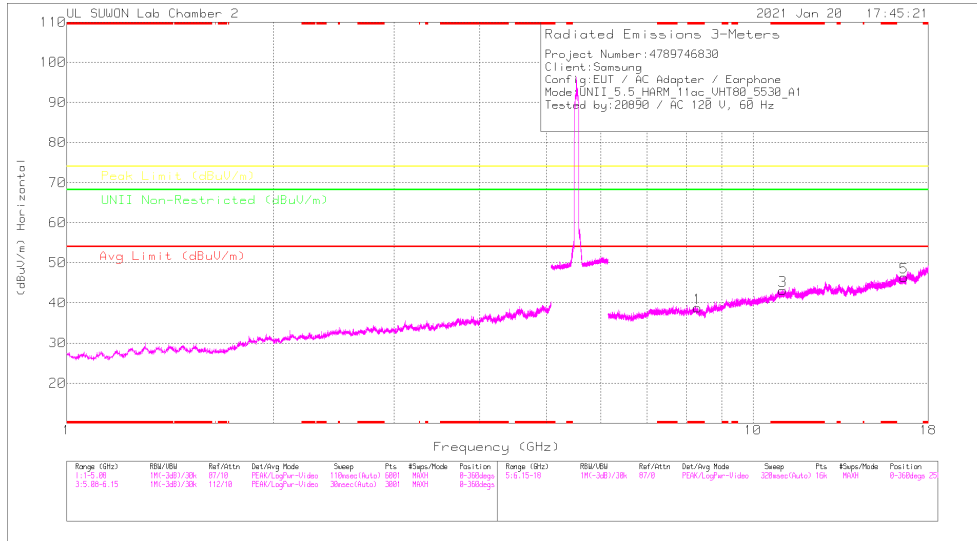
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	37.69	Pk	34.7	-17.1	0	55.29	68.2	-12.91	95	108	V
2	5.72922	39.91	Pk	34.7	-17	0	57.61	68.2	-10.59	95	108	V

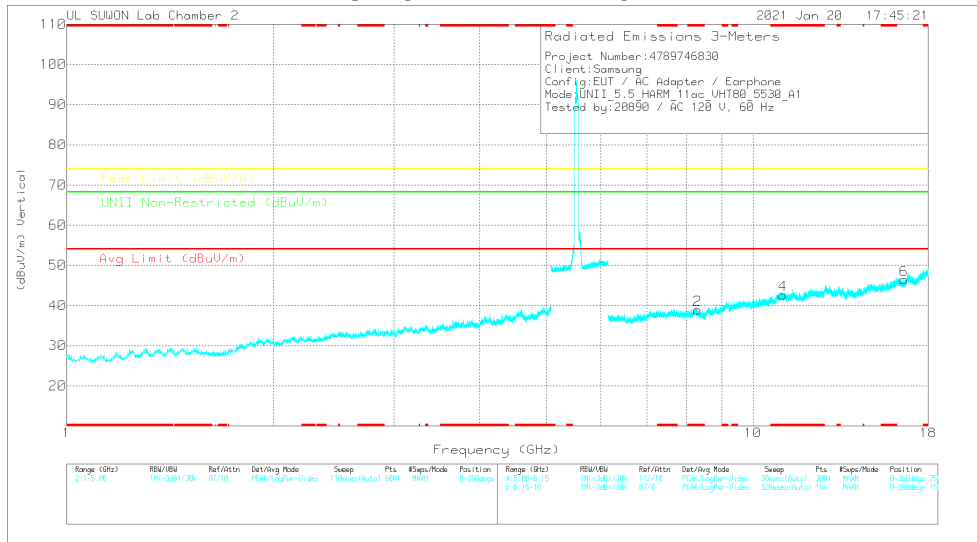
Pk - Peak detector

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.

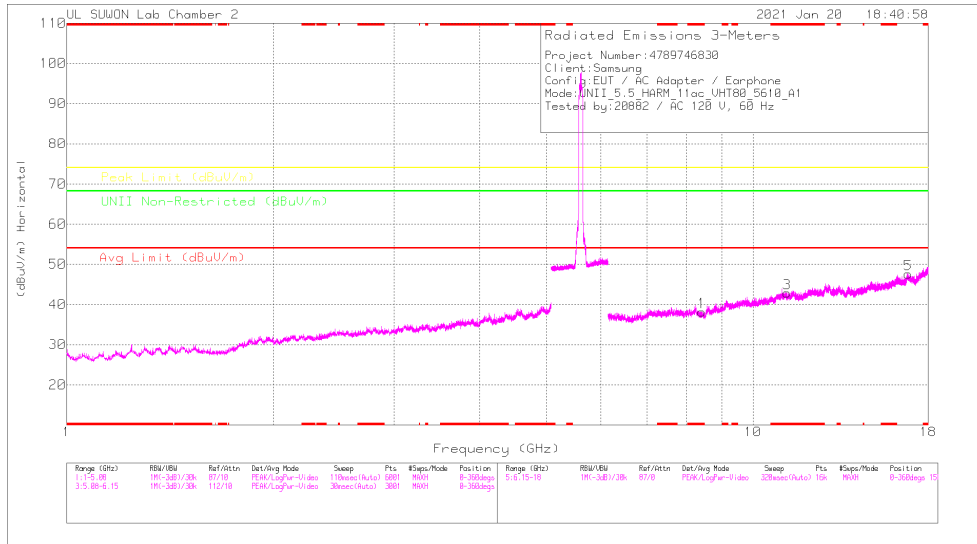
LOW CHANNEL DATA

Radiated Emissions

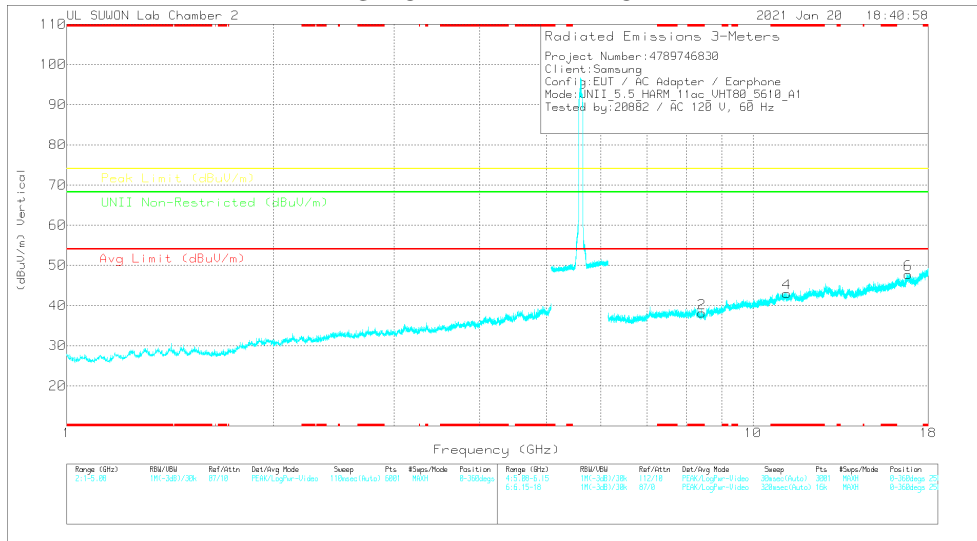
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168724	6GHz_HPSIS	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
* 8.29949	35.31	PK-U	35.9	-22.1	0	49.11	-	-	74	-24.89	-	-	0	100	H
* 8.30073	34.94	PK-U	36	-21.9	0	49.04	-	-	74	-24.96	-	-	0	100	V
* 11.0471	35.05	PK-U	38.2	-19.7	0	53.55	-	-	74	-20.45	-	-	0	100	H
* 11.04897	34.44	PK-U	38.2	-19.7	0	52.94	-	-	74	-21.06	-	-	0	100	V
16.59524	34.79	PK-U	41	-19.2	0	56.59	-	-	-	-	68.2	-11.61	0	100	H
16.59413	34.69	PK-U	41	-19.2	0	56.49	-	-	-	-	68.2	-11.71	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)	Meas. Reading (dBuV)	Det	317_00168724	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 (Degs)	Height (m)	Polarity
* 8.42879	34.54	PK-U	36	-22.5	0	48.44	-	-	74	-25.56	-	-	0	100	H
* 8.42554	34.81	PK-U	36	-22.6	0	48.21	-	-	74	-25.79	-	-	0	100	V
* 11.21492	35.06	PK-U	38.3	-19.4	0	53.96	-	-	74	-20.04	-	-	0	100	H
* 11.21184	33.96	PK-U	38.3	-19.4	0	52.86	-	-	74	-21.14	-	-	0	100	V
16.82968	34.75	PK-U	41.2	-17.9	0	58.05	-	-	-	-	68.2	-10.15	0	100	H
16.82716	34.43	PK-U	41.2	-18	0	57.63	-	-	-	-	68.2	-10.57	0	100	V

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

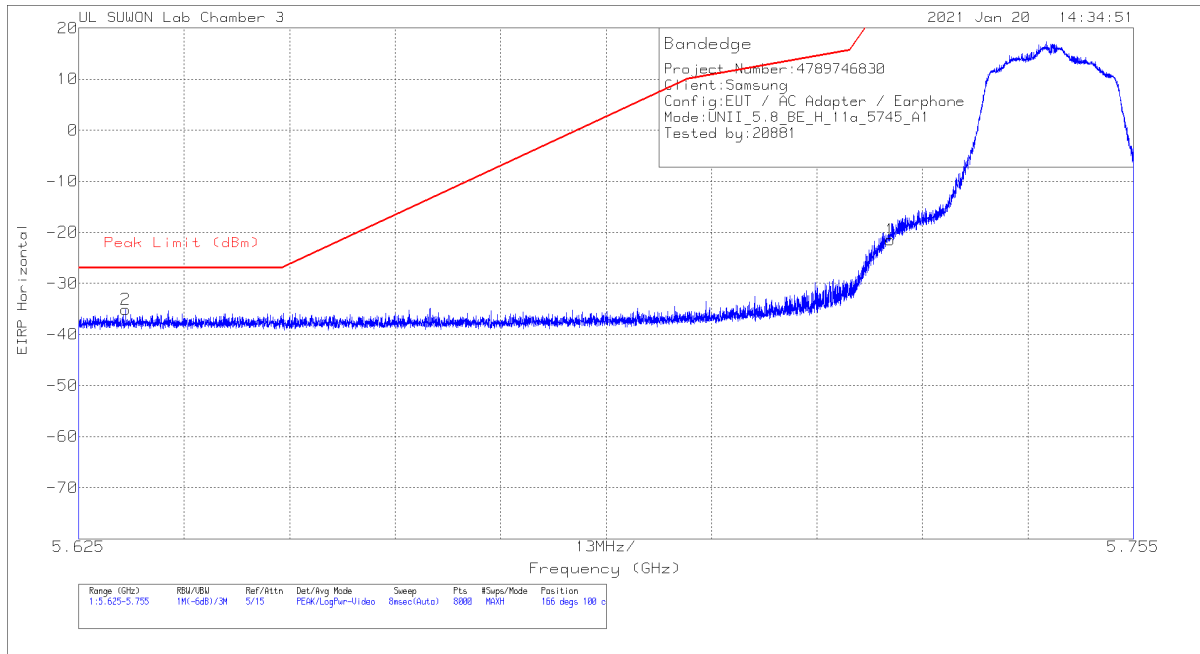
PK-U - U-NII: Maximum Peak

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

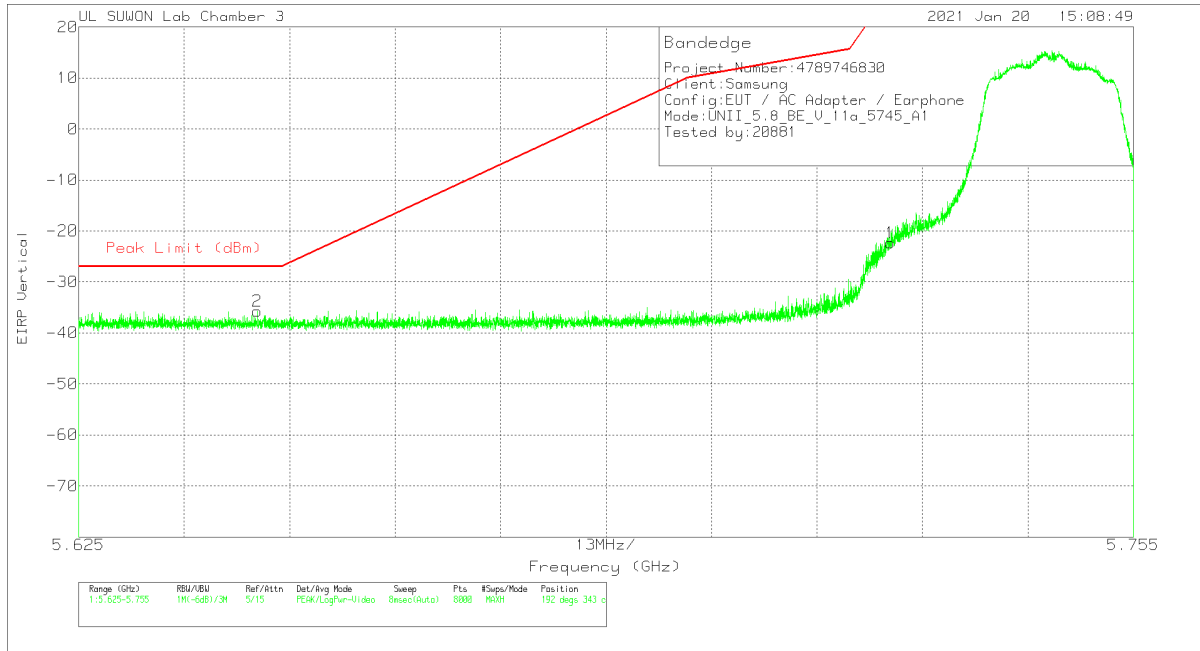


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00218957	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	-51.38	Pk	35.6	-17.5	11.8	0	-21.48	27	-48.48	166	100	H
2	5.63079	-64.56	Pk	35.5	-17.8	11.8	0	-35.06	-27	-8.06	166	100	H

Pk - Peak detector

VERTICAL PEAK DATA



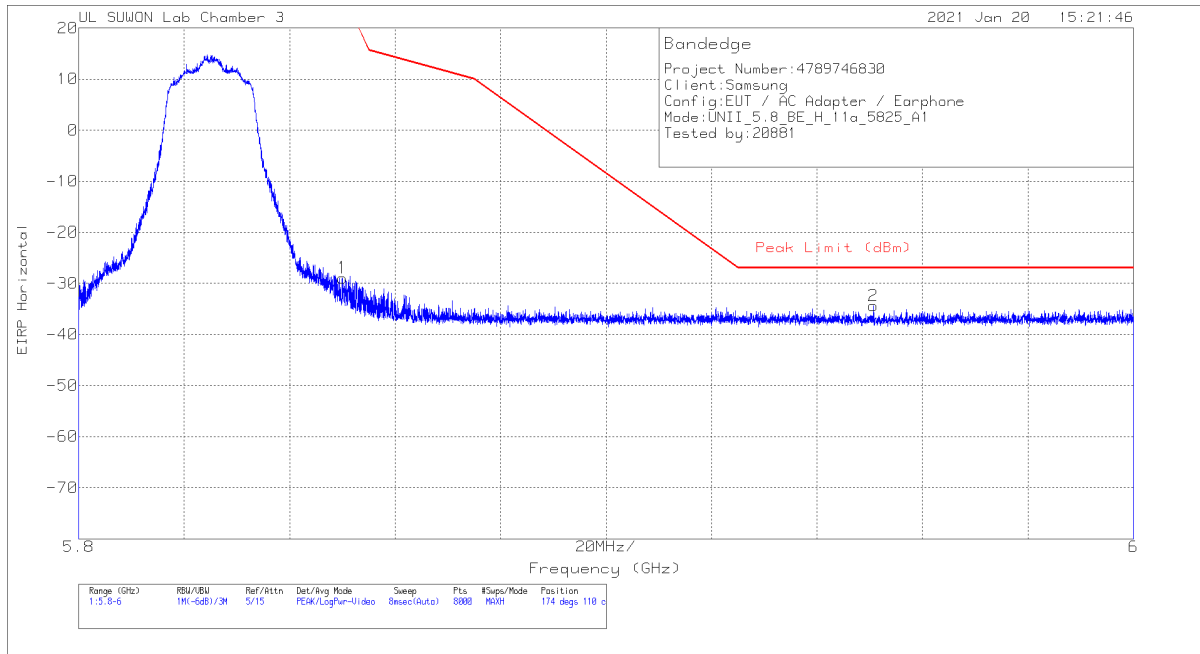
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00218957	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	-52.23	Pk	35.6	-17.5	11.8	0	-22.33	27	-49.33	192	343	V
2	5.64701	-65.31	Pk	35.5	-17.7	11.8	0	-35.71	-27	-8.71	192	343	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

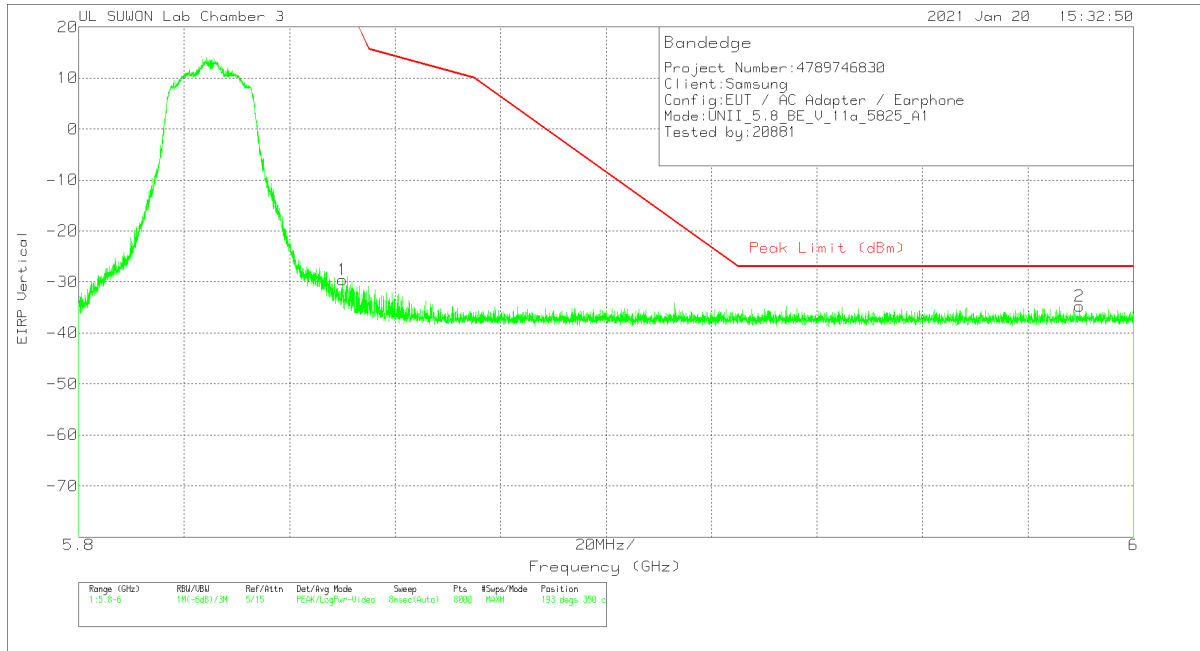


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00218957	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	-59.31	Pk	35.9	-17.3	11.8	0	-28.91	26.99	-55.9	174	110	H
2	5.95067	-64.85	Pk	36	-17.3	11.8	0	-34.35	-27	-7.35	174	110	H

Pk - Peak detector

VERTICAL PEAK DATA



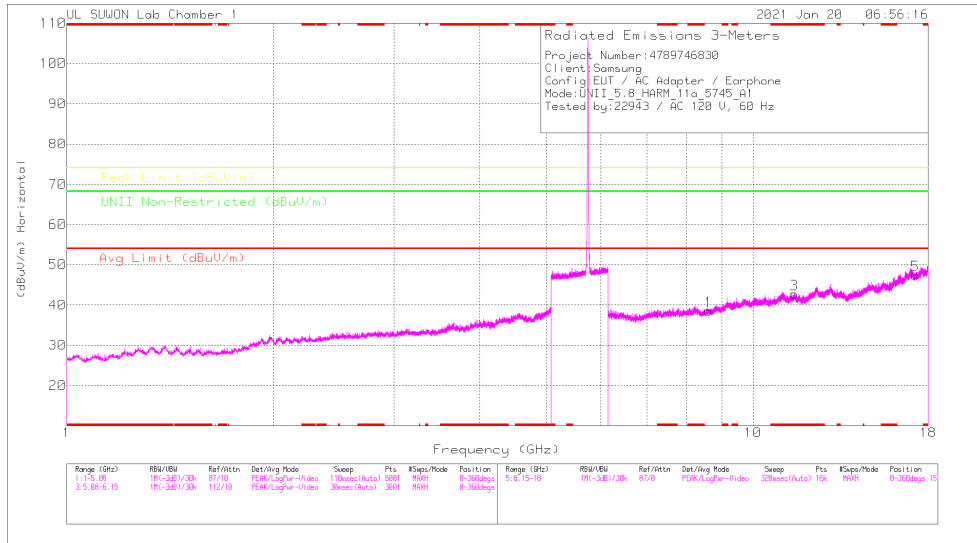
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00218957	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	-60.03	Pk	35.9	-17.3	11.8	0	-29.63	26.99	-56.62	193	350	V
2	5.9898	-65.29	Pk	36	-17.2	11.8	0	-34.69	-27	-7.69	193	350	V

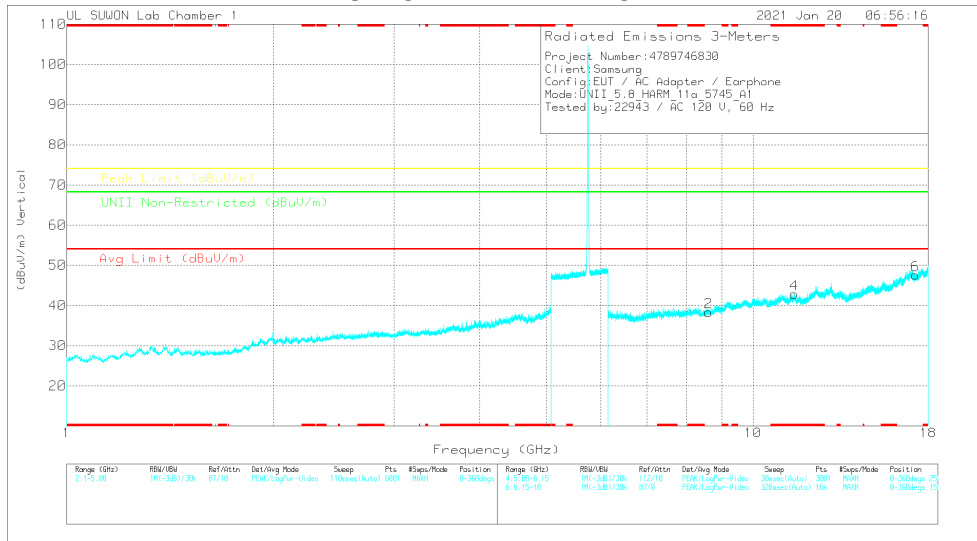
Pk - Peak detector

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.

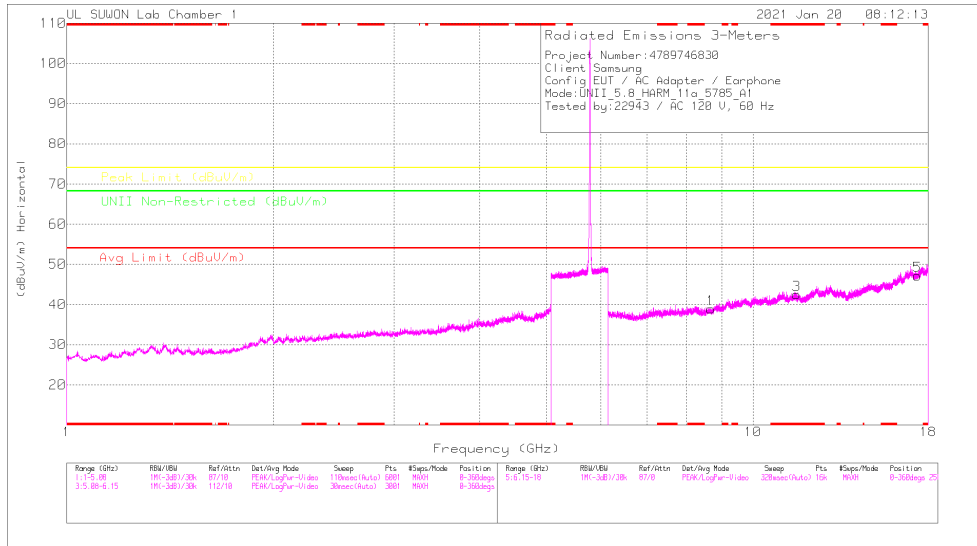
LOW CHANNEL DATA

Radiated Emissions

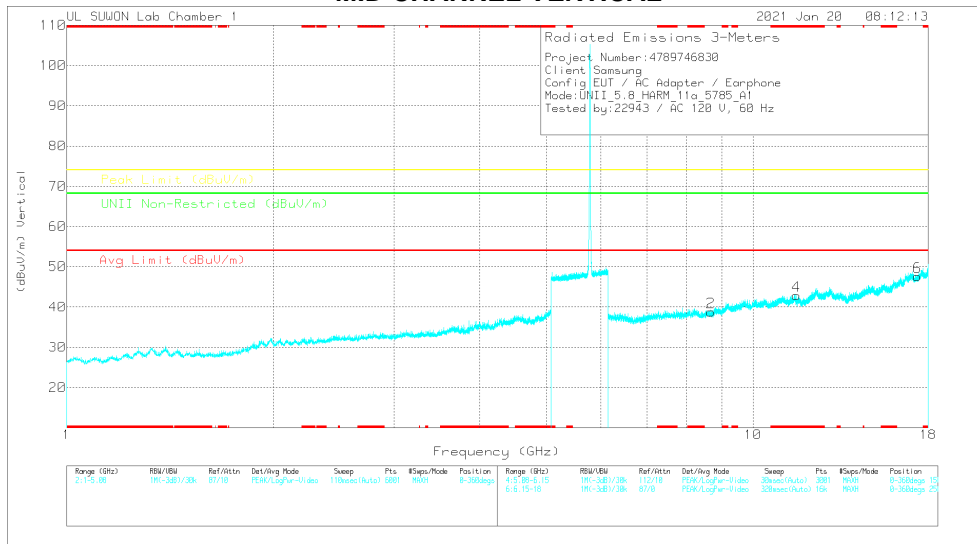
Frequency (GHz)	Max Reading (dBuV)	Det	317.30160717	@GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitud (Degs)	Height (cm)	Polarity
8.6188	37.15	PK-U	36.3	-24.5	0	48.95	-	-	-	-	68.2	-19.25	0	100	H
8.61611	37.31	PK-U	36.3	-24.6	0	49.01	-	-	-	-	68.2	-19.19	0	100	V
*11.49	36.72	PK-U	35.4	-22.2	0	52.92	-	74	-	-21.98	-	-	0	100	H
*11.49197	37.02	PK-U	38.4	-22.2	0	53.22	-	74	-	-20.78	-	-	0	100	V
17.23332	35.02	PK-U	41.3	-17.5	0	58.82	-	-	-	-	68.2	-9.38	0	100	H
17.2338	35.18	PK-U	41.3	-17.5	0	58.98	-	-	-	-	68.2	-9.22	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.

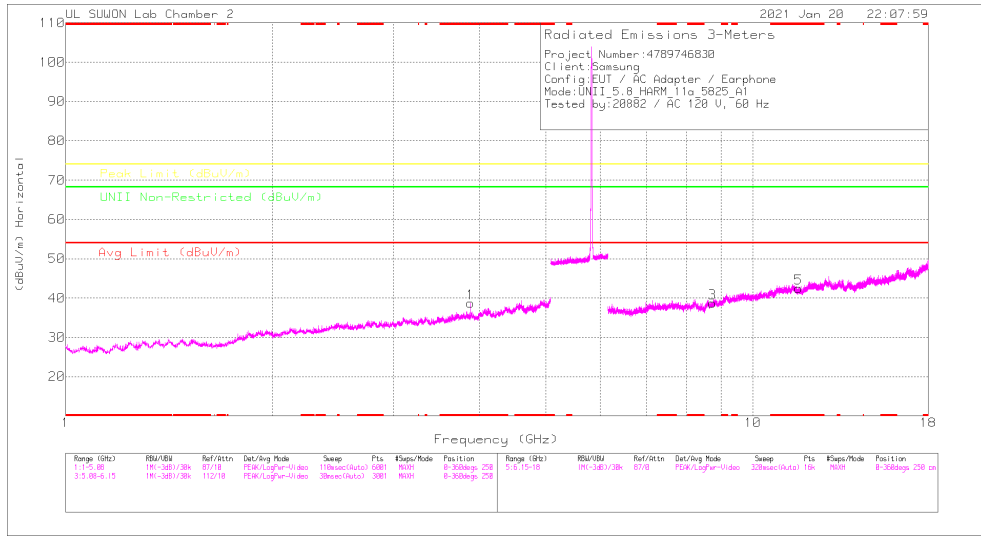
MID CHANNEL DATA

Radiated Emissions

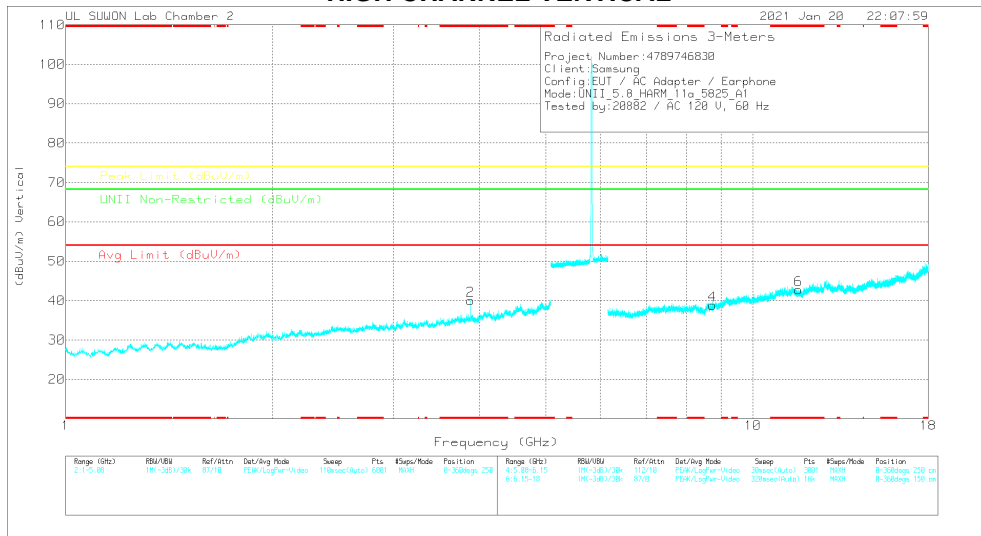
Frequency (GHz)	Meter Reading (dBuV)	Det	317_00168717	6GHz_HPSDR	DC Cor (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margn (dB)	Peak Limit (dBuV/m)	Margn (dB)	UNII Non-Restricted (dBuV/m)	Margn (dB)	Altitude (Degs)	Height (cm)	Polarity
8.67634	38.78	PK-U	36.3	-25.1	0	49.98	-	-	-	-	68.2	-18.22	0	100	H
8.67754	38.23	PK-U	36.3	-25.2	0	49.33	-	-	-	-	68.2	-18.87	0	100	V
* 11.56656	37.44	PK-U	38.3	-22.3	0	53.44	-	74	-20.56	-	-	-	0	100	H
* 11.58971	36.48	PK-U	38.3	-22.1	0	52.68	-	-	74	-21.32	-	-	0	100	V
17.35455	34.76	PK-U	41.2	-17.6	0	56.38	-	-	-	-	68.2	-9.82	0	100	H
17.35742	34.7	PK-U	41.2	-17.6	0	56.3	-	-	-	-	68.2	-9.9	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)	Meas Reading (dBuV)	Det	3117_00168724	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
* 3.88314	42.8	PK-U	33.4	-28.4	0	47.8	-	-	74	-26.2	-	-	118	120	H
* 3.88326	33.78	ADR	33.4	-28.4	0	38.78	54	-15.22	-	-	-	-	118	120	H
* 3.88352	43.68	PK-U	33.4	-28.4	0	48.68	-	-	74	-25.92	-	-	93	138	V
* 3.88336	34.91	ADR	33.4	-28.4	0	39.91	54	-14.09	-	-	-	-	93	138	V

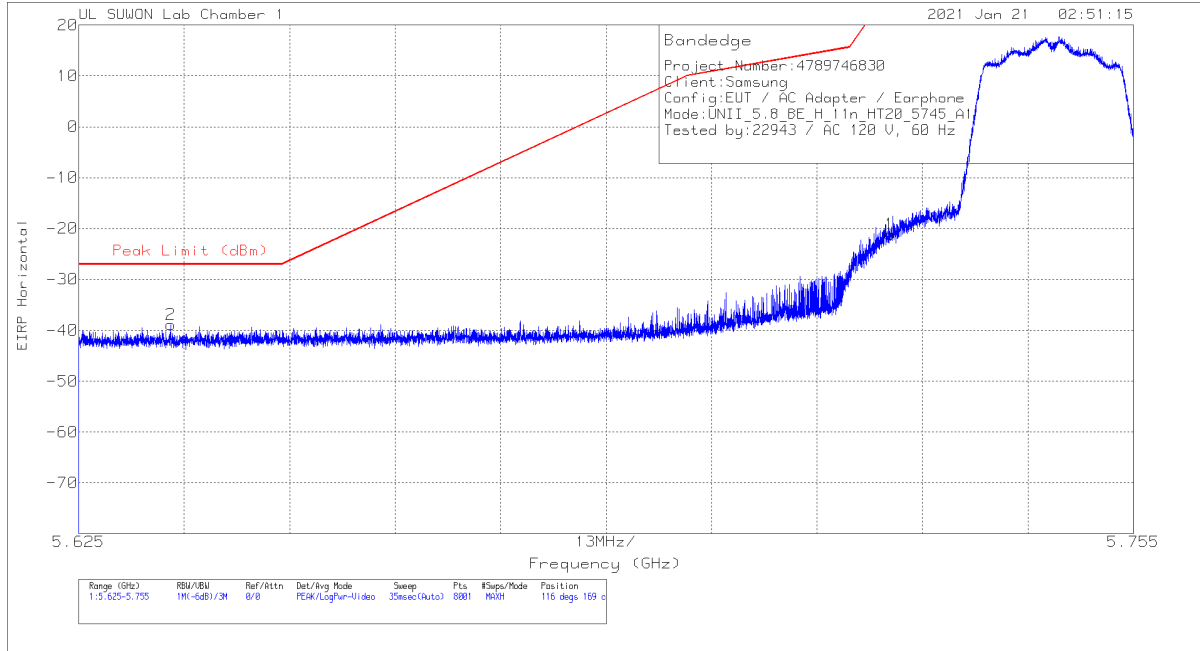
Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
8.74058	35	PK-U	36.3	-22.6	0	48.7	-	-	-	-	-	-19.5	0	100	H
8.74076	34.94	PK-U	36.3	-22.6	0	48.64	-	-	-	-	-	-19.56	0	100	V
* 11.653	33.74	PK-U	38.4	-19.2	0	52.94	-	-	74	-21.06	-	-	0	100	H
* 11.65431	33.95	PK-U	38.4	-19.2	0	53.15	-	-	74	-20.85	-	-	0	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

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK DATA

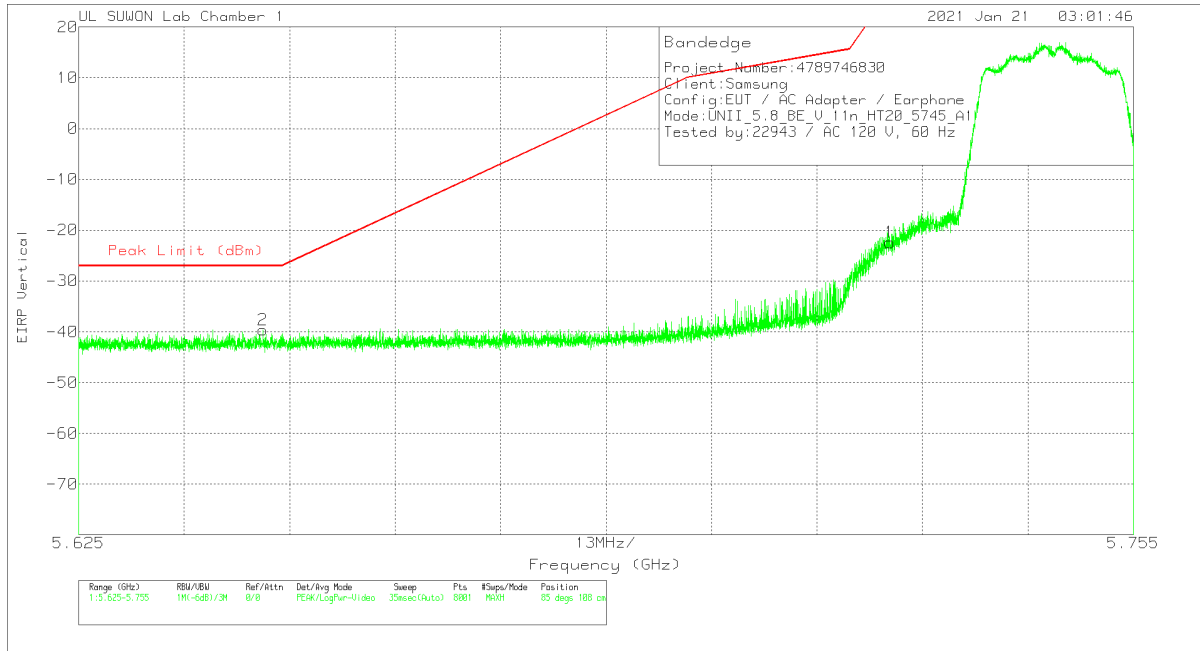


Trace Markers

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	5.72499	-46.98	Pk	34.9	-20.9	11.8	0	-21.18	26.97	-48.15	116	169	H
2	5.63631	-64.3	Pk	34.7	-21.1	11.8	0	-38.9	-27	-11.9	116	169	H

Pk - Peak detector

VERTICAL PEAK DATA



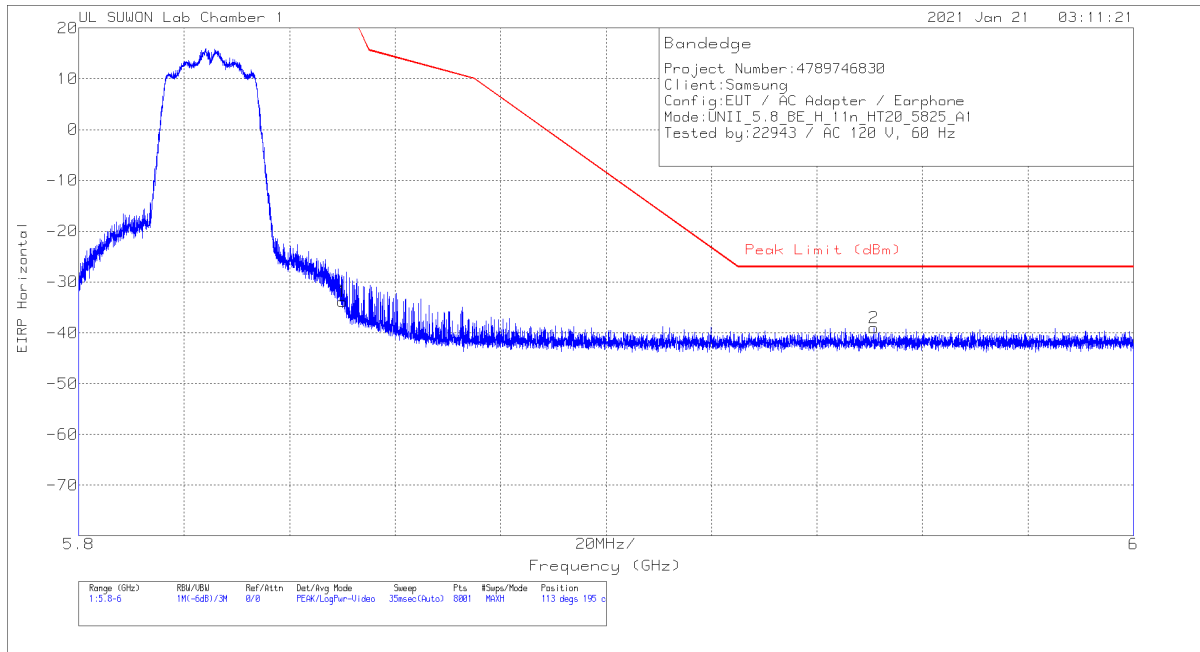
Trace Markers

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	5.72499	-48.23	Pk	34.9	-20.9	11.8	0	-22.43	26.97	-49.4	85	108	V
2	5.6477	-65.3	Pk	34.8	-20.9	11.8	0	-39.6	-27	-12.6	85	108	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

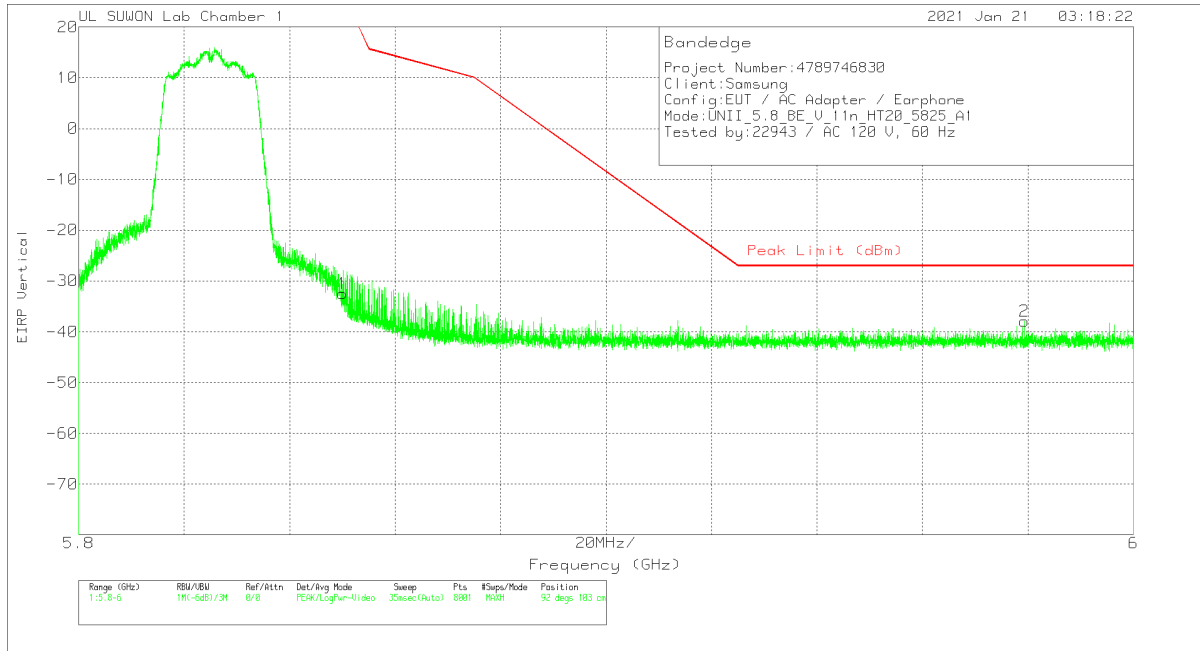


Trace Markers

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	5.85003	-59.79	Pk	35.1	-20.9	11.8	0	-33.79	26.94	-60.73	113	195	H
2	5.95075	-65.27	Pk	35.2	-20.7	11.8	0	-38.97	-27	-11.97	113	195	H

Pk - Peak detector

VERTICAL PEAK DATA



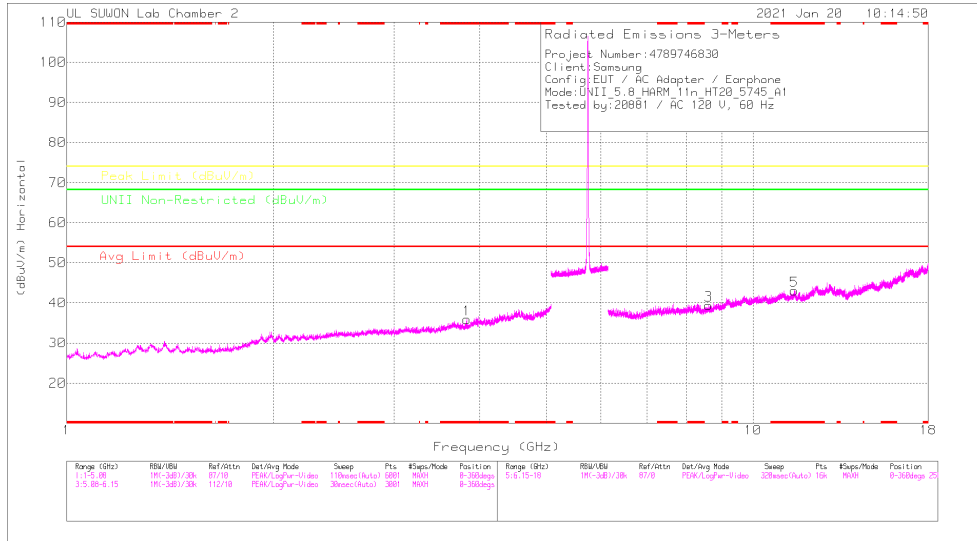
Trace Markers

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	5.85003	-58.5	Pk	35.1	-20.9	11.8	0	-32.5	26.94	-59.44	92	103	V
2	5.97933	-64.17	Pk	35.2	-20.7	11.8	0	-37.87	-27	-10.87	92	103	V

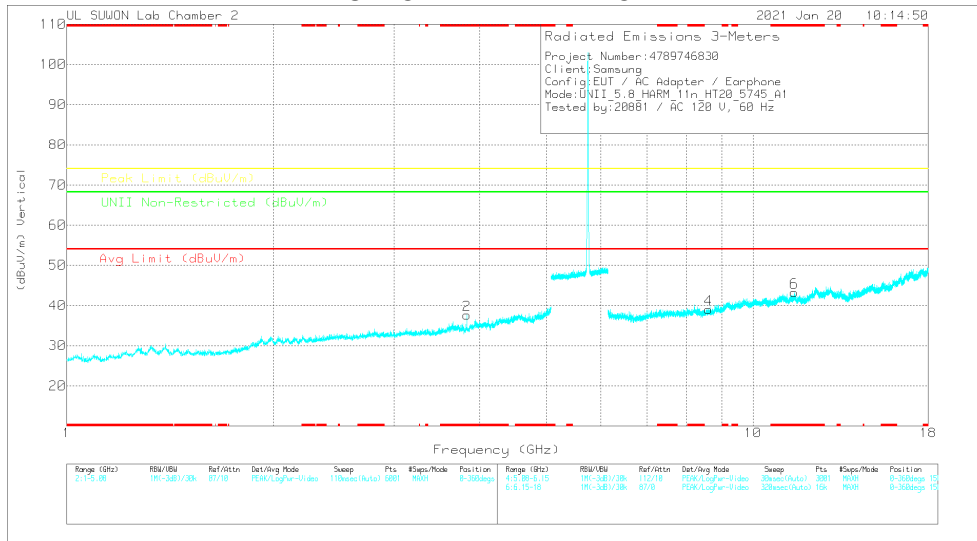
Pk - Peak detector

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_LF15dB	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
* 3.83004	46.43	PK-U	33.2	-32.8	0	46.83	-	-	74	-27.17	-	-	110	256	H
* 3.83003	36.37	ADR	33.2	-32.8	0	36.77	54	-17.23	-	-	-	-	110	256	H
* 3.83007	46.74	PK-U	33.2	-32.8	0	47.14	-	-	74	-26.86	-	-	88	114	V
* 3.82997	36.88	ADR	33.2	-32.8	0	37.28	54	-16.72	-	-	-	-	88	114	V

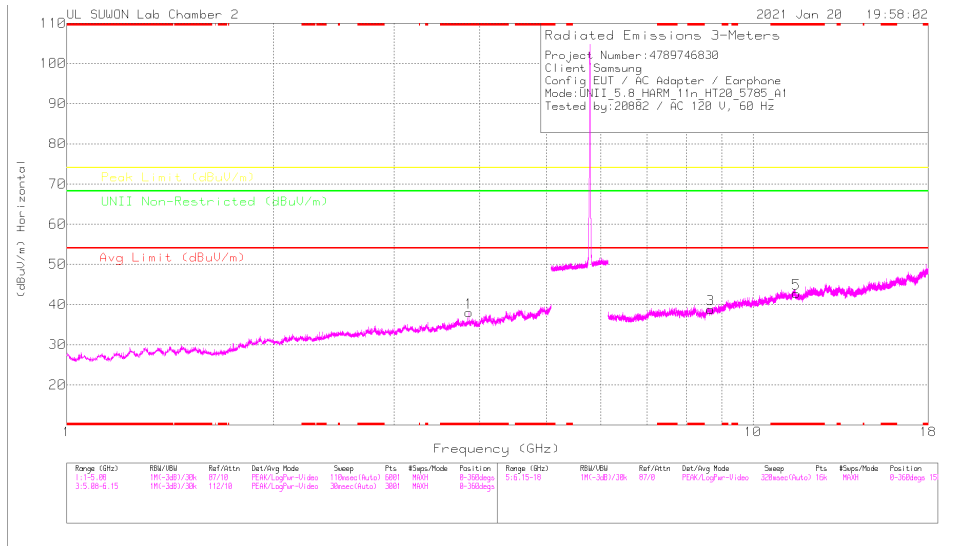
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168717	6GHz_HP15dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
8.61053	37.41	PK-U	36.3	-24.5	0	49.21	-	-	-	-	68.2	-18.99	0	100	H
8.61114	37.09	PK-U	36.3	-24.5	0	48.89	-	-	-	-	68.2	-19.31	0	100	V
* 11.48654	36.91	PK-U	38.4	-22.2	0	53.11	-	-	74	-20.89	-	-	0	100	H
* 11.48927	37.45	PK-U	38.4	-22.2	0	53.65	-	-	74	-20.35	-	-	0	100	V

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

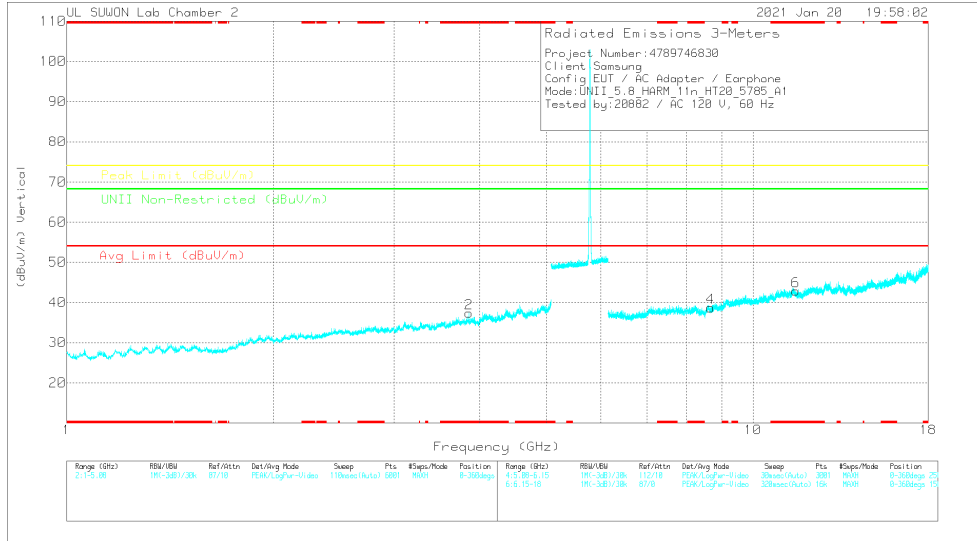
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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_00168724	5GHz_LF15dB	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
* 3.8566	42.63	PK-U	33.4	-28.5	0	47.53	-	-	74	-26.47	-	-	119	109	H
* 3.85668	32.79	ADR	33.4	-28.5	0	37.69	54	-16.31	-	-	-	-	119	109	H
* 3.85688	42.8	PK-U	33.4	-28.5	0	47.7	-	-	74	-26.3	-	-	90	142	V
* 3.85664	33.51	ADR	33.4	-28.5	0	38.41	54	-15.59	-	-	-	-	90	142	V

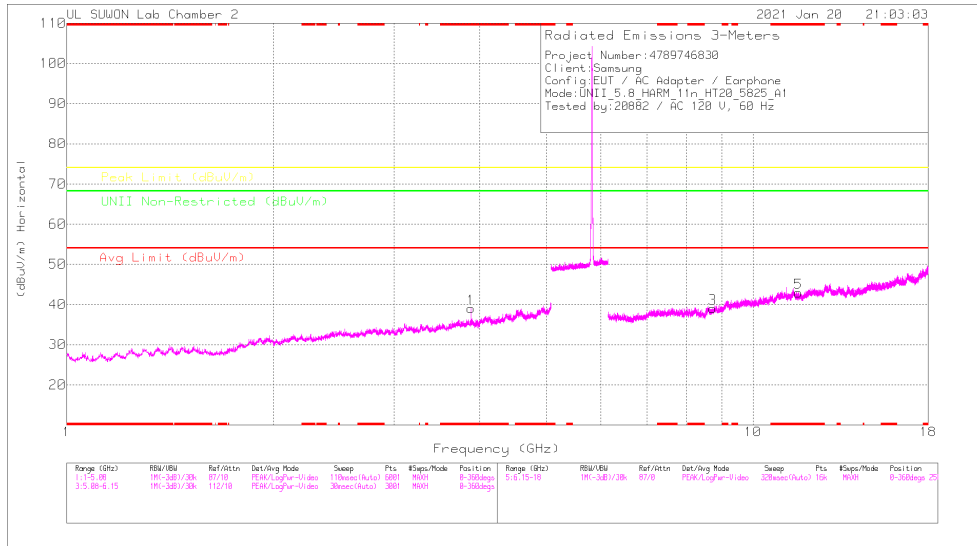
Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	5GHz_HF15dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
* 8.67339	34.81	PK-U	36.2	-21.9	0	49.11	-	-	-	-	68.2	-19.09	0	100	H
* 8.67494	34.91	PK-U	36.2	-21.9	0	49.21	-	-	-	-	68.2	-18.99	0	100	V
* 11.55699	33.66	PK-U	38.3	-19	0	52.96	-	-	74	-21.04	-	-	0	100	H
* 11.55667	33.8	PK-U	38.3	-19	0	53.1	-	-	74	-20.9	-	-	0	100	V

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

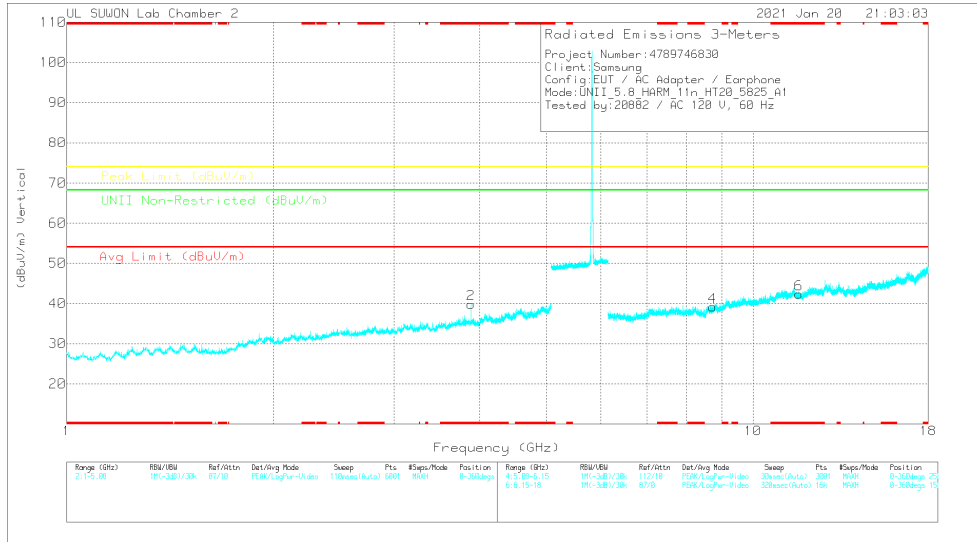
PK-U - U-NII: Maximum Peak

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)	Master Reading (dBuV)	Det	3117_00168724	50Hz_LF[SRE]	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	
* 3.88304	42.42	PK-U	33.4	-28.3	0	47.52	-	-	74	-26.48	-	-	-	127	100	H
* 3.88332	33.83	ADR	33.4	-28.4	0	38.83	54	-15.17	-	-	-	-	-	127	100	H
* 3.88306	42.48	PK-U	33.4	-28.3	0	47.58	-	-	74	-26.42	-	-	-	89	123	V
* 3.88326	33.58	ADR	33.4	-28.4	0	38.58	54	-15.42	-	-	-	-	-	89	123	V

Frequency (GHz)	Master Reading (dBuV)	Det	3117_00168724	60Hz_HF[SRE]	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
8.72243	35.5	PK-U	36.2	-22.6	0	49.1	-	-	-	-	68.2	-19.1	0	100	H
8.73476	34.98	PK-U	36.2	-22.6	0	48.58	-	-	-	-	68.2	-19.62	0	100	V
* 11.64547	34.43	PK-U	38.4	-19.5	0	53.33	-	-	74	-20.67	-	-	0	100	H
* 11.64418	33.75	PK-U	38.4	-19.4	0	52.75	-	-	74	-21.25	-	-	0	100	V

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

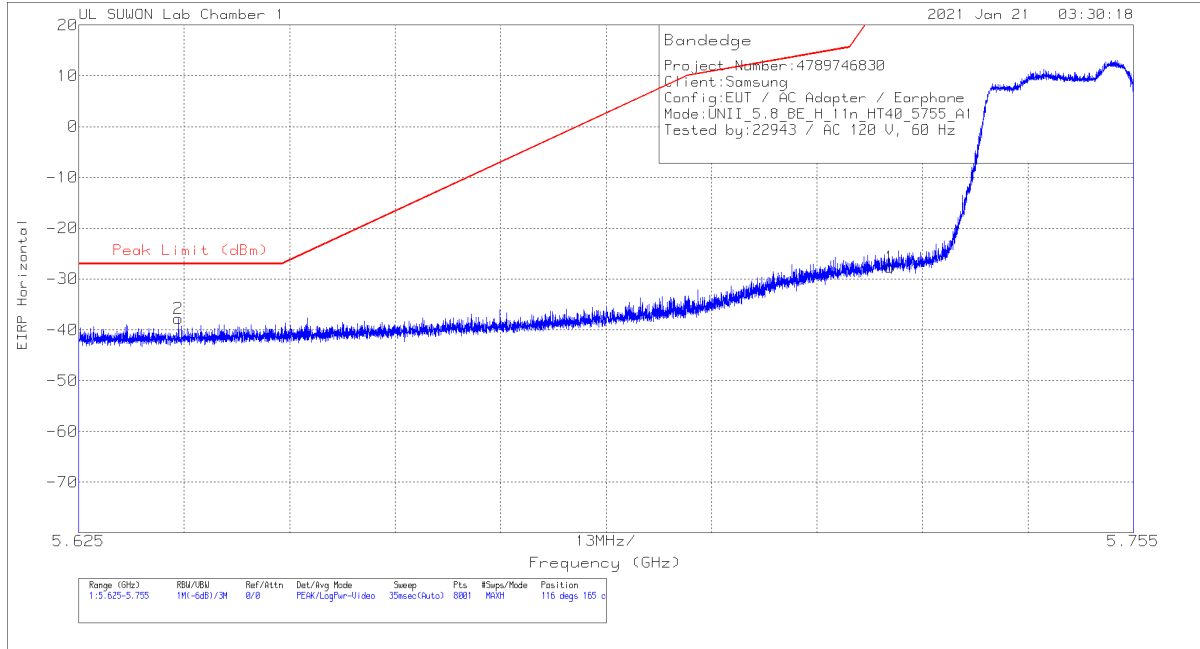
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK DATA

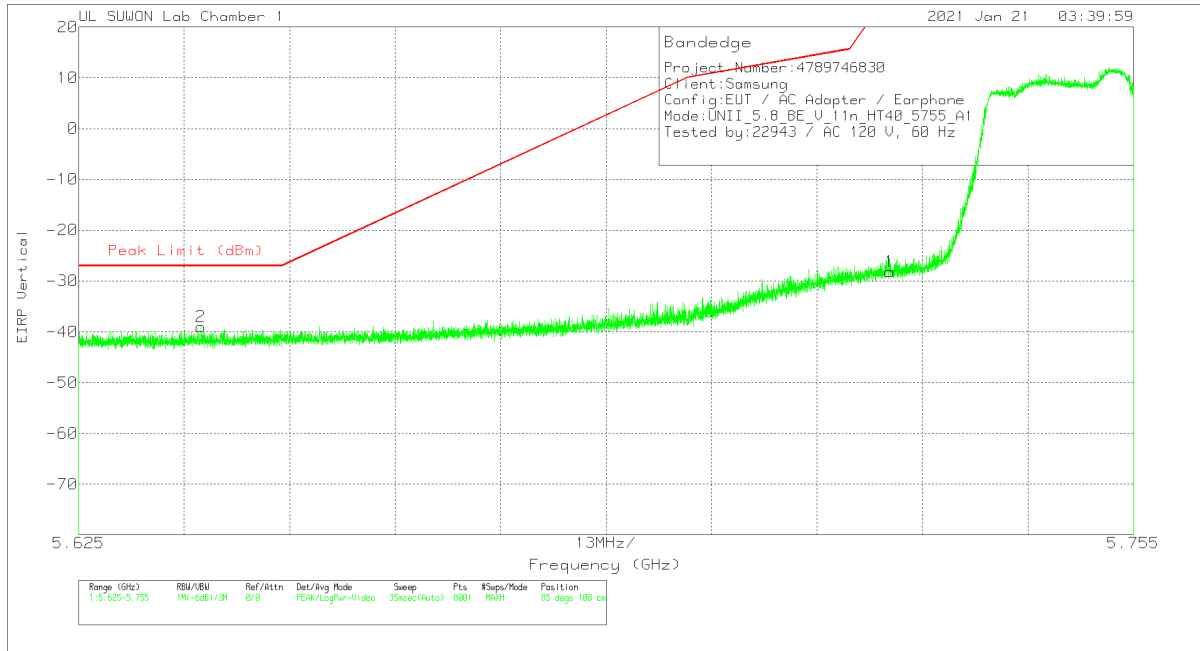


Trace Markers

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	5.72499	-53.43	Pk	34.9	-20.9	11.8	0	-27.63	26.97	-54.6	116	165	H
2	5.6373	-63.27	Pk	34.7	-21	11.8	0	-37.77	-27	-10.77	116	165	H

Pk - Peak detector

VERTICAL PEAK DATA



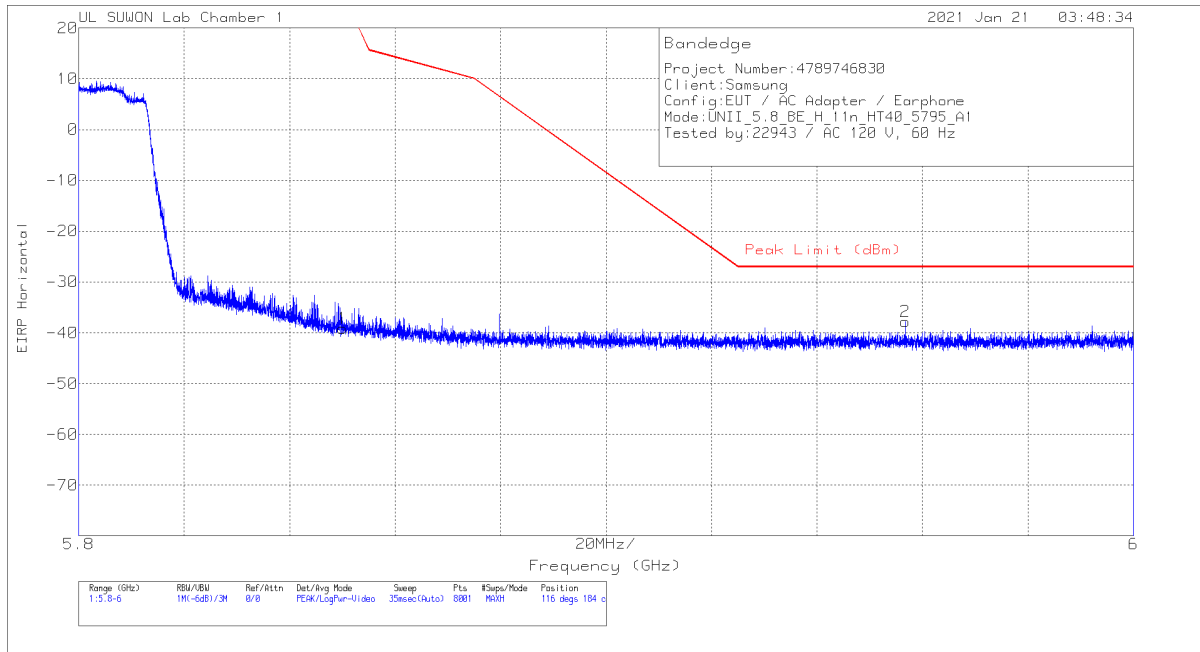
Trace Markers

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	5.72499	-53.98	Pk	34.9	-20.9	11.8	0	-28.18	26.97	-55.15	85	108	V
2	5.64006	-64.57	Pk	34.8	-21	11.8	0	-38.97	-27	-11.97	85	108	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK DATA

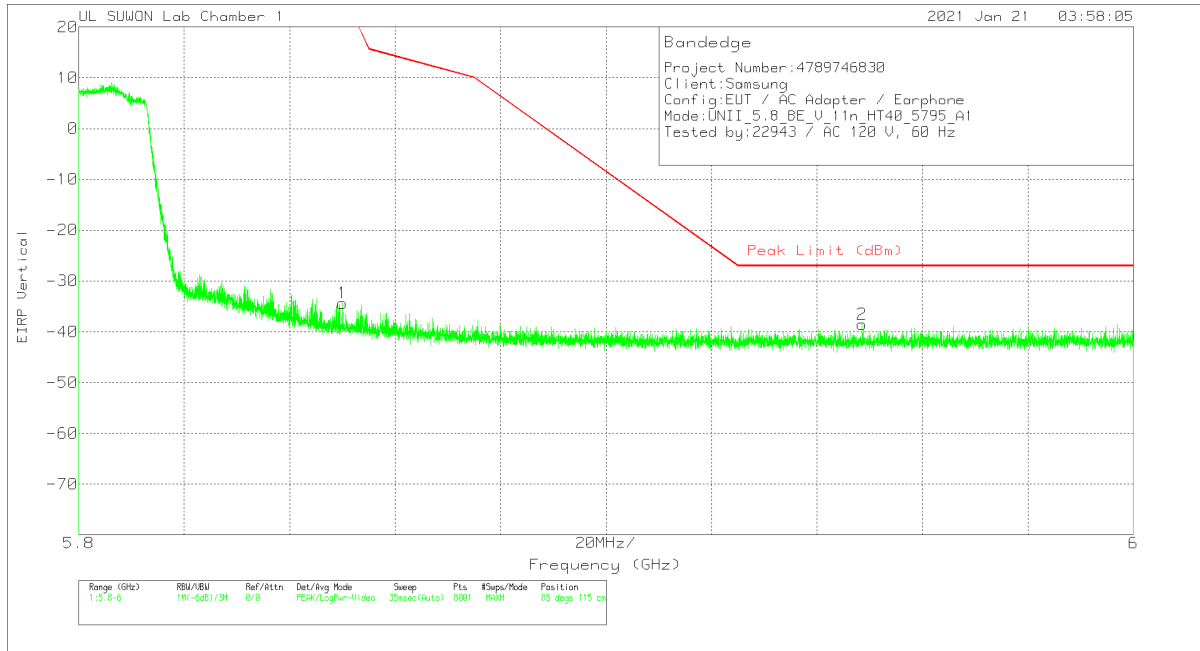


Trace Markers

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	5.85003	-65.12	Pk	35.1	-20.9	11.8	0	-39.12	26.94	-66.06	116	184	H
2	5.9567	-64.11	Pk	35.2	-20.7	11.8	0	-37.81	-27	-10.81	116	184	H

Pk - Peak detector

VERTICAL PEAK DATA



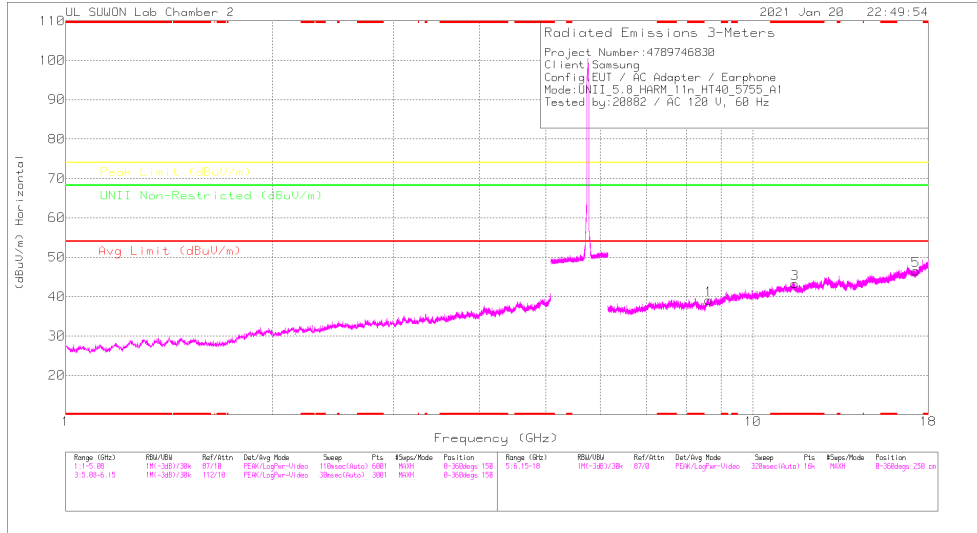
Trace Markers

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	5.85003	-60.39	Pk	35.1	-20.9	11.8	0	-34.39	26.94	-61.33	85	115	V
2	5.94855	-64.77	Pk	35.2	-20.7	11.8	0	-38.47	-27	-11.47	85	115	V

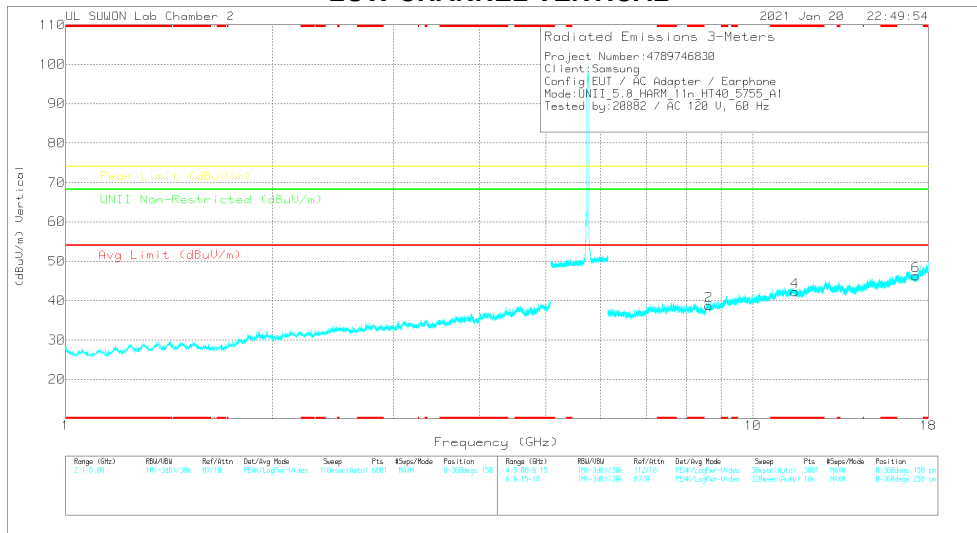
Pk - Peak detector

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.

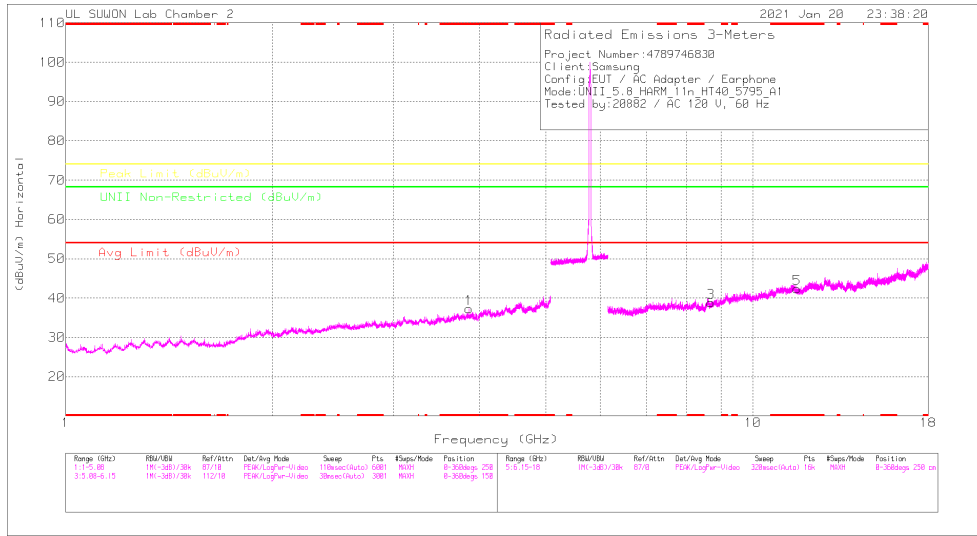
LOW CHANNEL DATA

Radiated Emissions

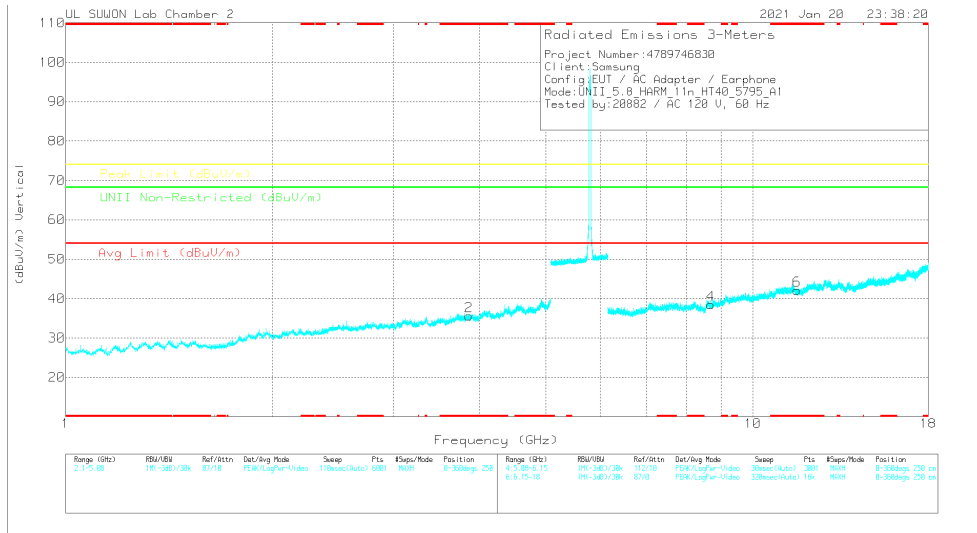
Frequency (GHz)	Meas Reading (dBm)	Det	317_00168724	6GHz_HPS(B)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
8.62962	33.84	PK-U	36.1	-21.2	0	48.74	-	-	-	-	68.2	-19.46	0	100	H
8.63108	34.03	PK-U	36.1	-21.3	0	48.83	-	-	-	-	68.2	-19.37	0	100	V
* 11.50608	34.2	PK-U	38.3	-19.2	0	53.3	-	-	74	-20.7	-	-	0	100	H
* 11.50923	34.85	PK-U	38.3	-19.2	0	53.95	-	-	74	-20.05	-	-	0	100	V
17.26408	33.85	PK-U	40.9	-18.5	0	56.25	-	-	-	-	68.2	-11.95	0	100	H
17.26469	34.21	PK-U	40.9	-18.4	0	56.71	-	-	-	-	68.2	-11.49	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)	Mask Reading (dBuV)	Det	3117_00168724	5GHz_LF[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
* 3.86364	41.83	PK-U	33.4	-28.5	0	46.73	-	74	-27.27	-	-	-	118	106	H
* 3.86326	32.1	ADR	33.4	-28.5	0	37	54	-17	-	-	-	-	118	106	H
* 3.86338	42.37	PK-U	33.4	-28.5	0	47.27	-	74	-26.73	-	-	-	95	127	V
* 3.86332	33.03	ADR	33.4	-28.5	0	37.93	54	-16.07	-	-	-	-	95	127	V

Frequency (GHz)	Mask Reading (dBuV)	Det	0117_00168724	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 (Degs)	Height (cm)	Polarity
8.69312	35.26	PK-U	36.2	-22.2	0	49.26	-	-	-	-	68.2	-18.94	0	100	H
8.6935	35.03	PK-U	36.2	-22.3	0	46.93	-	-	-	-	68.2	-19.27	0	100	V
* 11.58821	34.28	PK-U	38.4	-19.4	0	53.28	-	-	74	-20.72	-	-	0	100	H
* 11.58892	33.68	PK-U	38.4	-19.4	0	52.68	-	-	74	-21.32	-	-	0	100	V

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

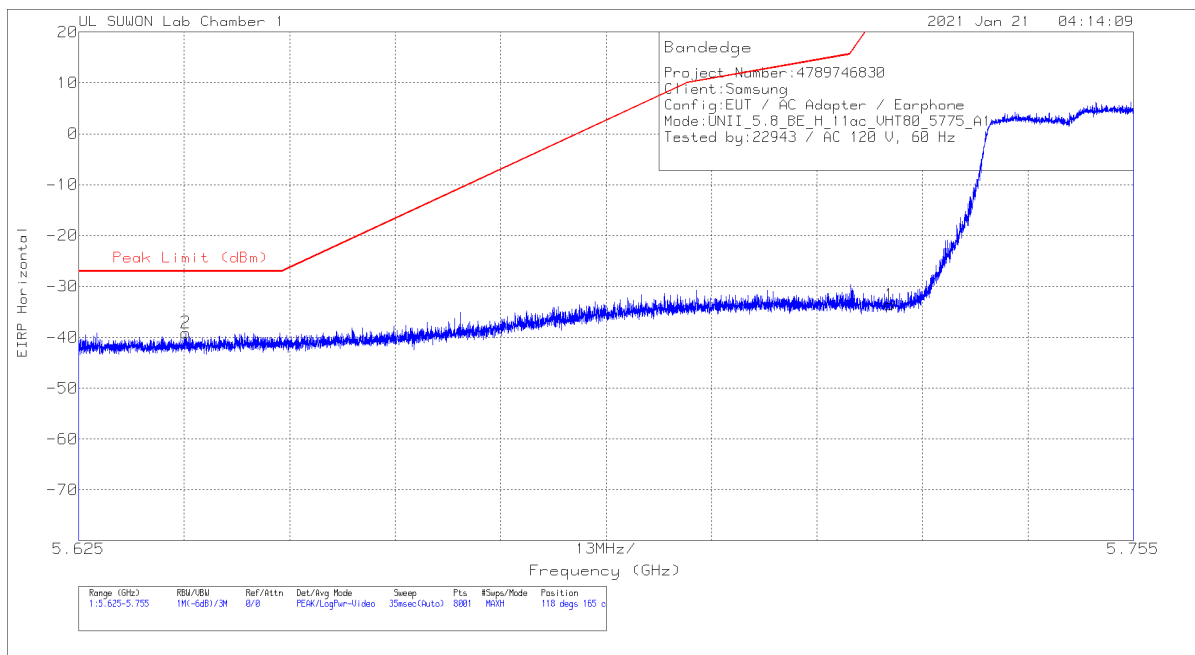
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (Lower side)

HORIZONTAL PEAK DATA

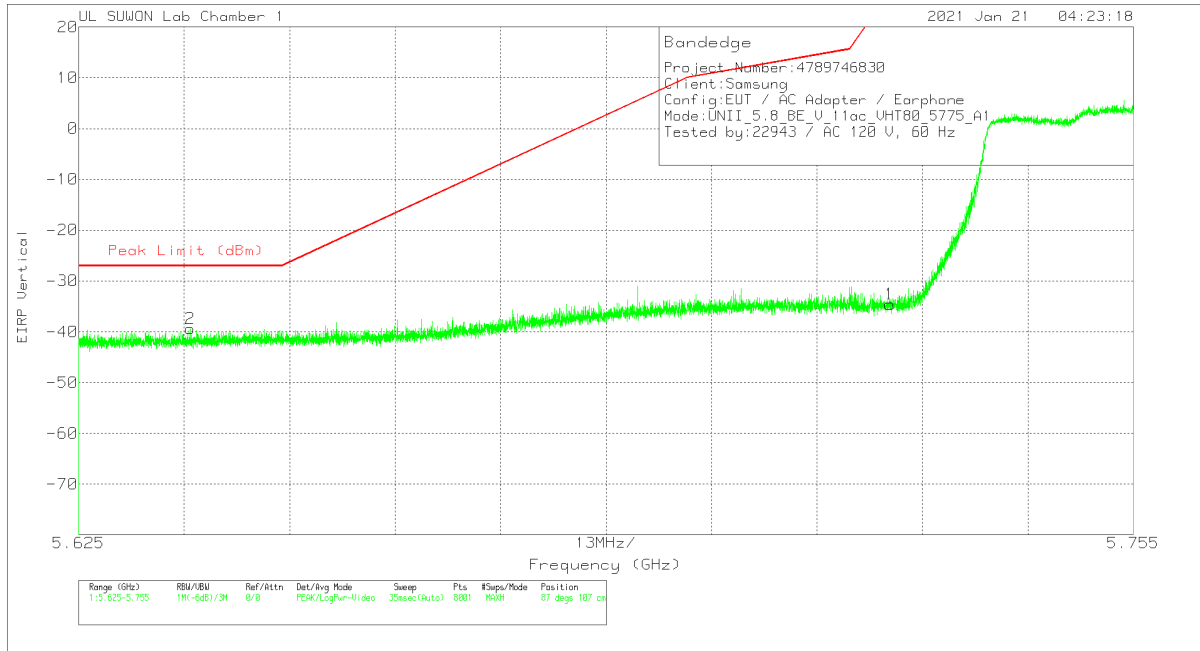


Trace Markers

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	5.72499	-59.39	Pk	34.9	-20.9	11.8	0	-33.59	26.97	-60.56	118	165	H
2	5.63818	-64.58	Pk	34.7	-21	11.8	0	-39.08	-27	-12.08	118	165	H

Pk - Peak detector

VERTICAL PEAK DATA



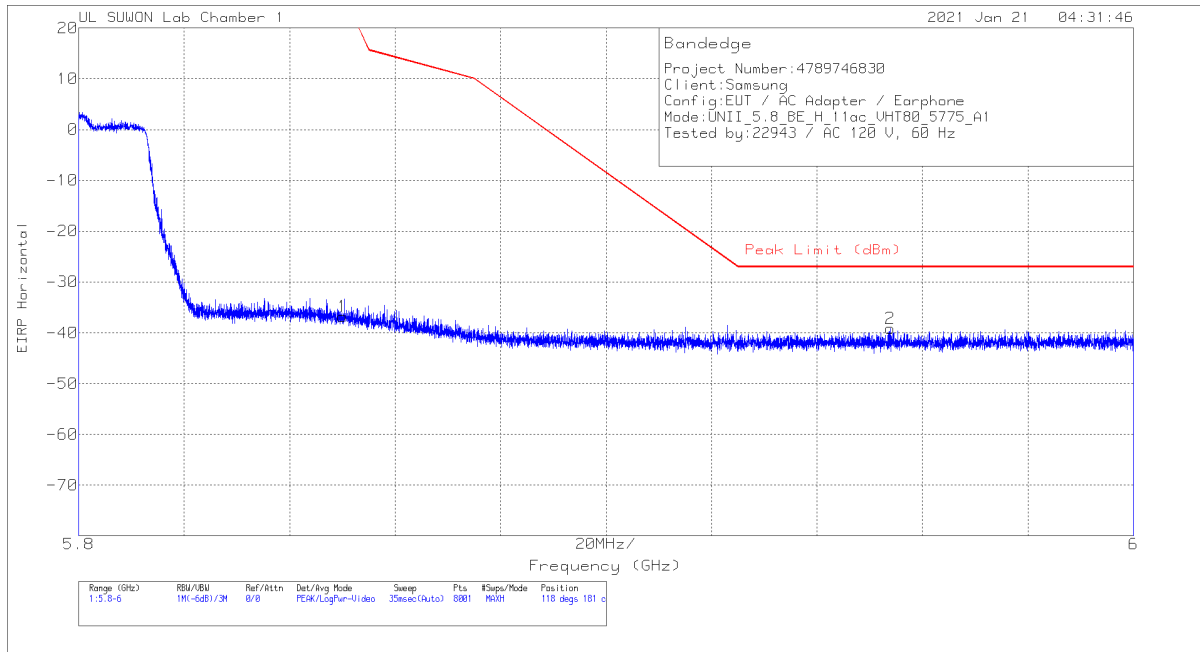
Trace Markers

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	5.72499	-60.34	Pk	34.9	-20.9	11.8	0	-34.54	26.97	-61.51	87	107	V
2	5.63875	-64.88	Pk	34.7	-21	11.8	0	-39.38	-27	-12.38	87	107	V

Pk - Peak detector

BANDEDGE (Upper side)

HORIZONTAL PEAK DATA

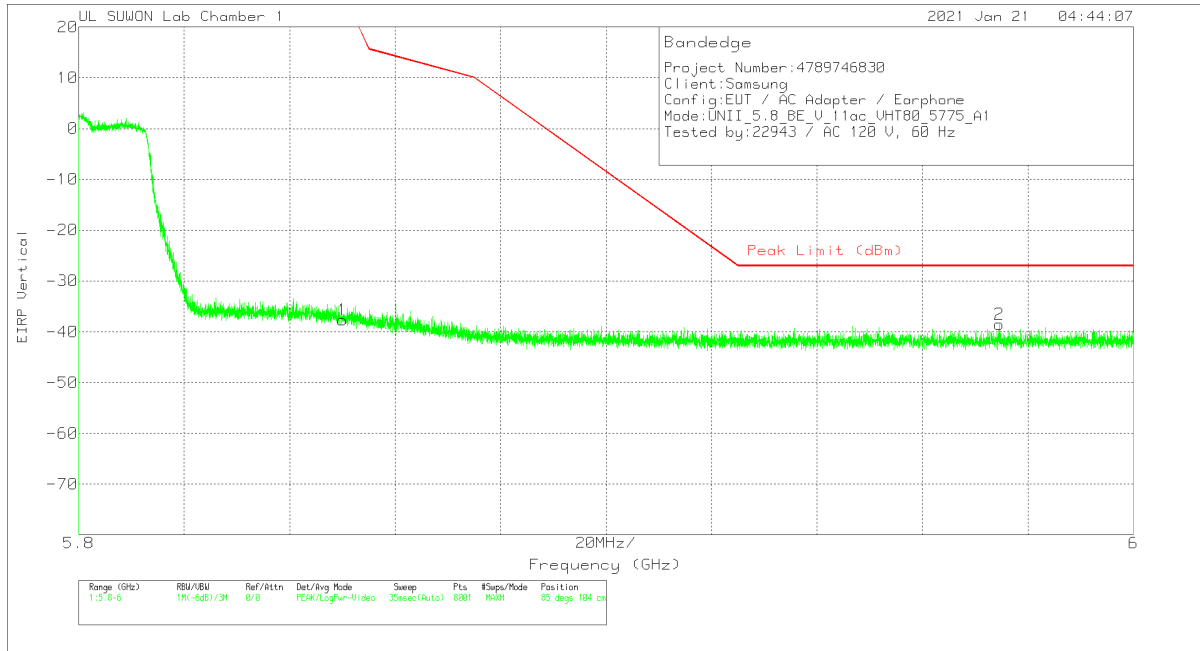


Trace Markers

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	5.85003	-62.8	Pk	35.1	-20.9	11.8	0	-36.8	26.94	-63.74	118	181	H
2	5.95393	-65.58	Pk	35.2	-20.6	11.8	0	-39.18	-27	-12.18	118	181	H

Pk - Peak detector

VERTICAL PEAK DATA



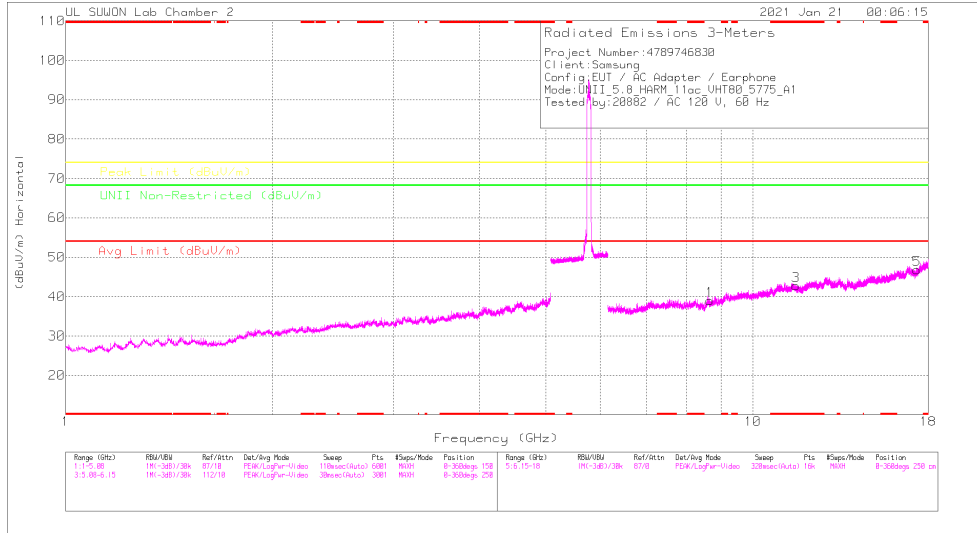
Trace Markers

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	5.85003	-63.64	Pk	35.1	-20.9	11.8	0	-37.64	26.94	-64.58	85	104	V
2	5.97455	-64.89	Pk	35.2	-20.6	11.8	0	-38.49	-27	-11.49	85	104	V

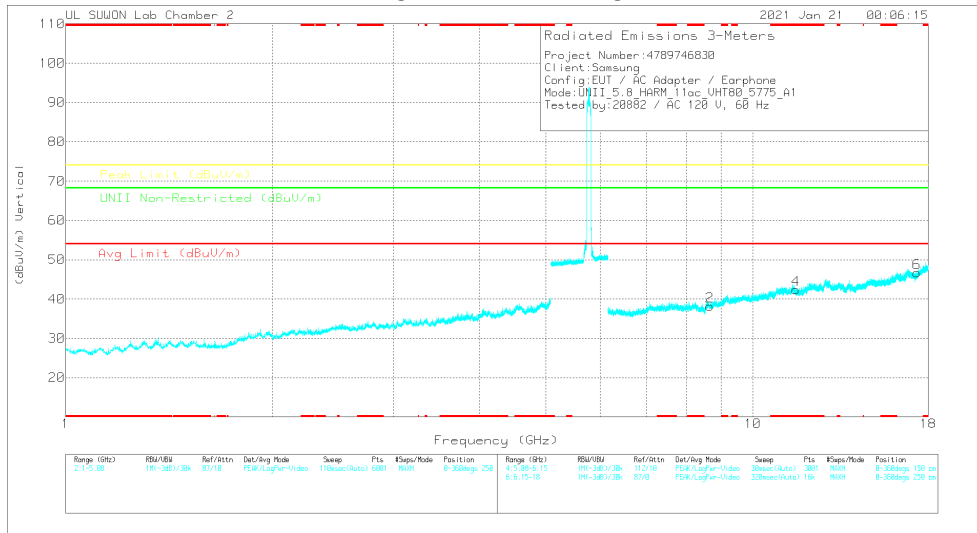
Pk - Peak detector

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

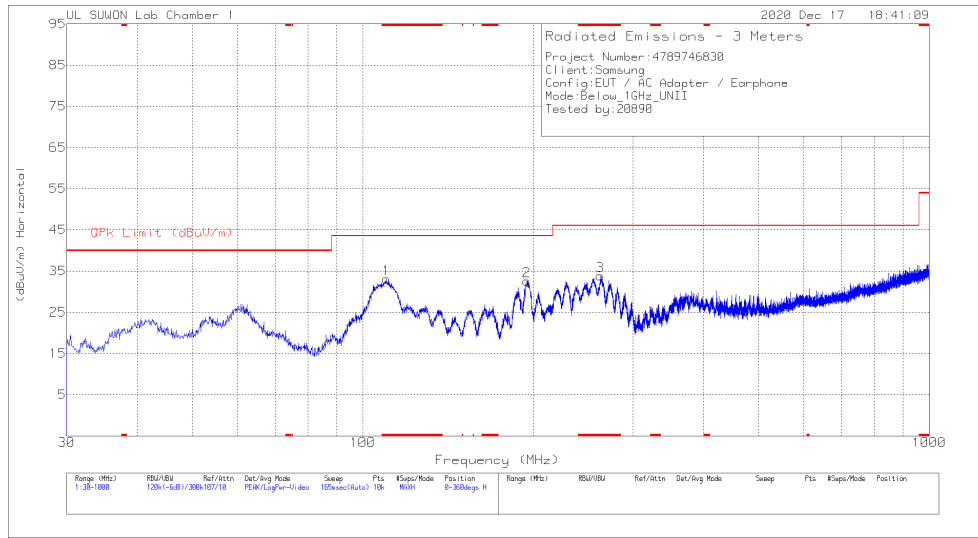
Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168724	6GHz_HF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
8.6586	34.26	PK-U	36.2	-21.8	0	48.66	-	-	-	-	68.2	-19.54	0	100	H
8.65904	35.23	PK-U	36.2	-21.8	0	49.63	-	-	-	-	68.2	-18.57	0	100	V
* 11.55109	33.85	PK-U	38.3	-19.1	0	53.05	-	-	74	-20.95	-	-	0	100	H
* 11.5489	33.82	PK-U	38.3	-19	0	53.12	-	-	74	-20.88	-	-	0	100	V
17.32582	34.38	PK-U	40.9	-18.4	0	56.88	-	-	-	-	68.2	-11.32	0	100	H
17.32753	34.96	PK-U	40.9	-18.5	0	57.36	-	-	-	-	68.2	-10.84	0	100	V

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

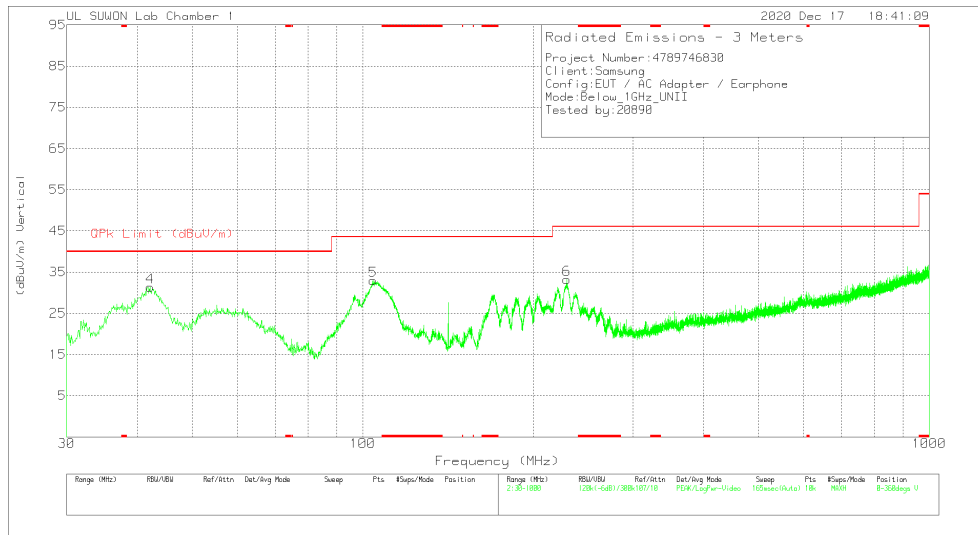
PK-U - U-NII: Maximum Peak

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	* 110.122	45.52	Pk	17.2	-29.6	33.12	43.52	-10.4	0-360	300	H
2	194.803	43.84	Pk	17.4	-28.6	32.64	43.52	-10.88	0-360	100	H
3	* 262.412	43.15	Pk	18.5	-27.8	33.85	46.02	-12.17	0-360	100	H
4	42.125	42.8	Pk	19.1	-30.6	31.3	40	-8.7	0-360	100	V
5	104.205	45.05	Pk	17.7	-29.8	32.95	43.52	-10.57	0-360	100	V
6	229.141	43.97	Pk	17.6	-28.3	33.27	46.02	-12.75	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.

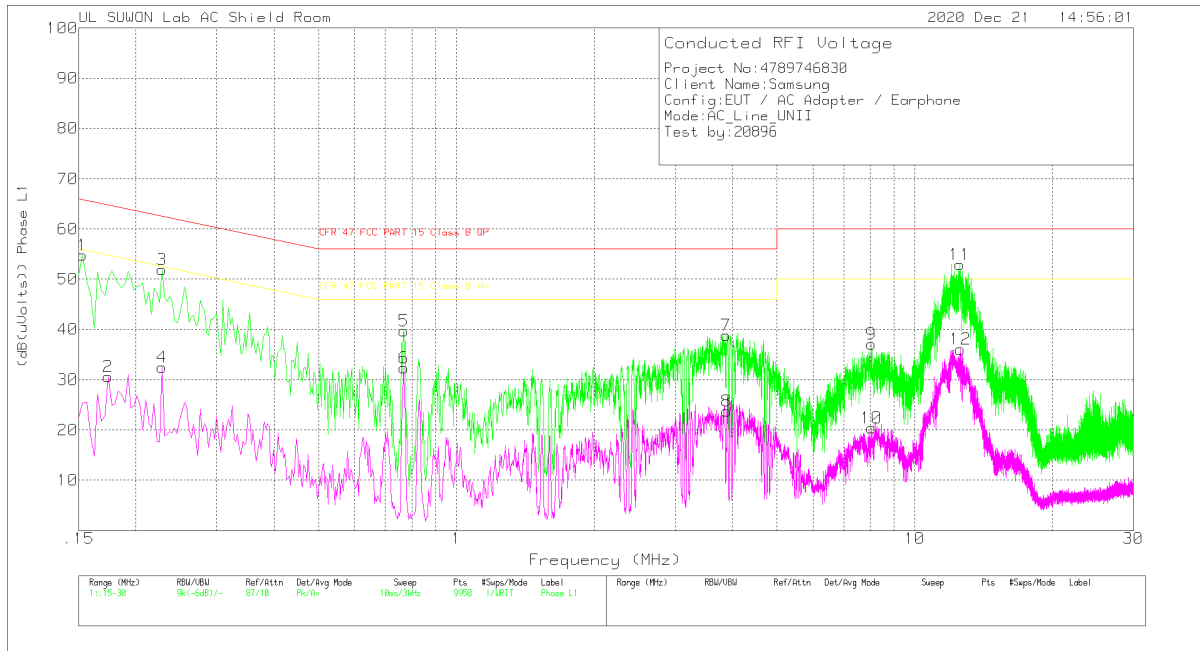
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

WORST EMISSIONS

LINE 1 DATA



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With 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	.153	44.84	Pk	9.8	.1	54.74	65.84	-11.1	-	-
2	.174	20.37	Av	10	.2	30.57	-	-	54.77	-24.2
3	.228	41.91	Pk	9.8	.2	51.91	62.52	-10.61	-	-
4	.228	22.54	Av	9.8	.2	32.54	-	-	52.52	-19.98
5	.768	29.72	Pk	9.8	.2	39.72	56	-16.28	-	-
6	.768	22.39	Av	9.8	.2	32.39	-	-	46	-13.61
7	3.879	28.76	Pk	9.8	.3	38.86	56	-17.14	-	-
8	3.891	13.69	Av	9.8	.3	23.79	-	-	46	-22.21
9	8.055	26.87	Pk	9.9	.3	37.07	60	-22.93	-	-
10	8.055	10.19	Av	9.9	.3	20.39	-	-	50	-29.61
11	12.534	42.65	Pk	10	.3	52.95	60	-7.05	-	-
12	12.567	25.74	Av	10	.3	36.04	-	-	50	-13.96

Pk - Peak detector

Av - Average detection

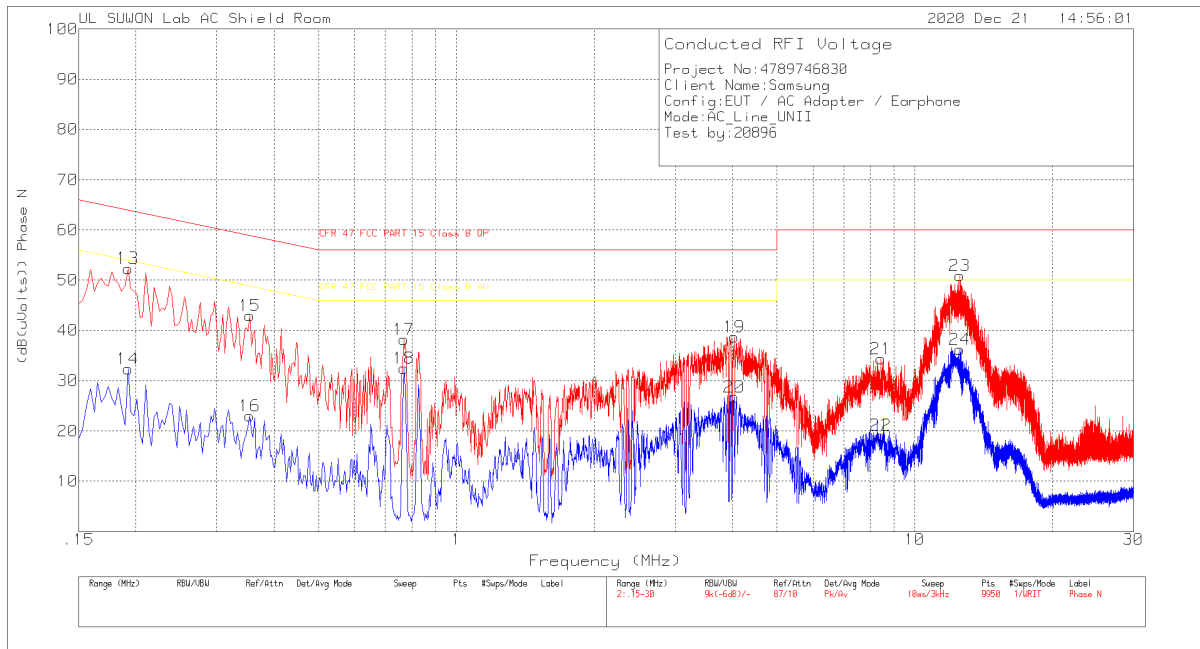
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With 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)
12.5342	34.23	Qp	10	.3	44.53	60	-15.47	-	-

Qp - Quasi-Peak detector

LINE 2 DATA



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOSS 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	.192	42.26	Pk	9.9	.2	52.36	63.95	-11.59	-	-
14	.192	22.23	Av	9.9	.2	32.33	-	-	53.95	-21.62
15	.354	32.91	Pk	9.9	.2	43.01	58.87	-15.86	-	-
16	.354	12.93	Av	9.9	.2	23.03	-	-	48.87	-25.84
17	.768	28.1	Pk	9.9	.2	38.2	56	-17.8	-	-
18	.768	22.34	Av	9.9	.2	32.44	-	-	46	-13.56
19	4.035	28.64	Pk	9.8	.3	38.74	56	-17.26	-	-
20	4.032	16.64	Av	9.8	.3	26.74	-	-	46	-19.26
21	8.439	24.14	Pk	9.9	.3	34.34	60	-25.66	-	-
22	8.436	8.91	Av	9.9	.3	19.11	-	-	50	-30.89
23	12.534	40.58	Pk	10	.3	50.88	60	-9.12	-	-
24	12.546	25.9	Av	10	.3	36.2	-	-	50	-13.8

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOSS (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)
12.5333	32.8	Qp	10	.3	43.1	60	-16.9	-	-

Qp - Quasi-Peak detector

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”.

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client (with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.</p>		

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see notes)
E.I.R.P. \geq 200 mill watt	-64 dBm
E.I.R.P. < 200 mill watt and power spectral density < 10 dBm/MHz	-62 dBm
E.I.R.P. < 200 mill watt that do not meet power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.</p>	

Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds (See Note 1)
<i>Channel Closing Transmission Time</i>	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U- NII 99% transmission power bandwidth. (See Note 3)
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	