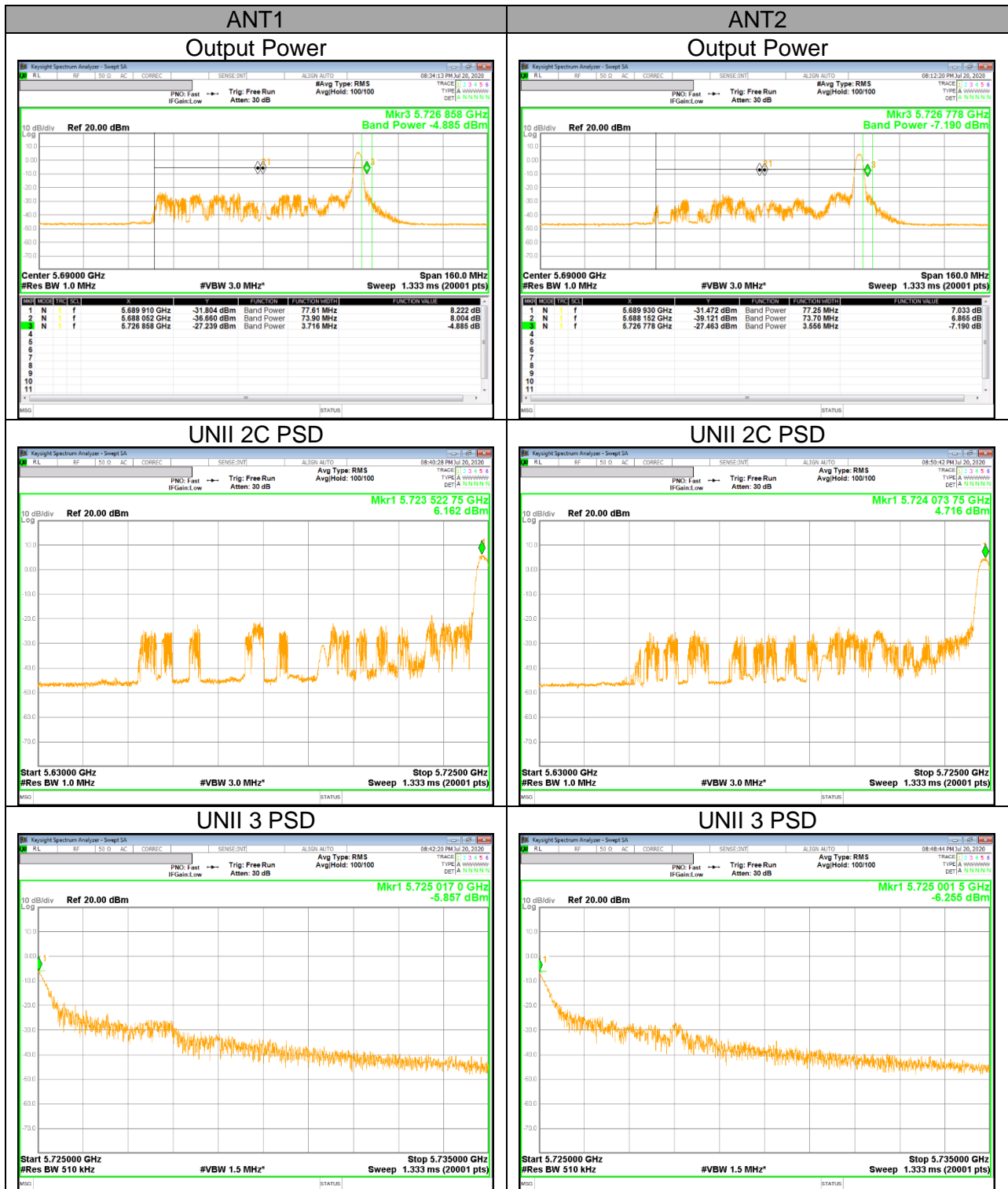


UNII Straddle Ch. IEEE 802.11ax HE80(34RU) mode Output Power and PSD



11. TRANSMITTER ABOVE 1 GHz

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

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

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

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

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

FCC §15.407 (b)

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

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

Note

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

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

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

TEST PROCEDURE

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

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

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

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

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

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

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

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

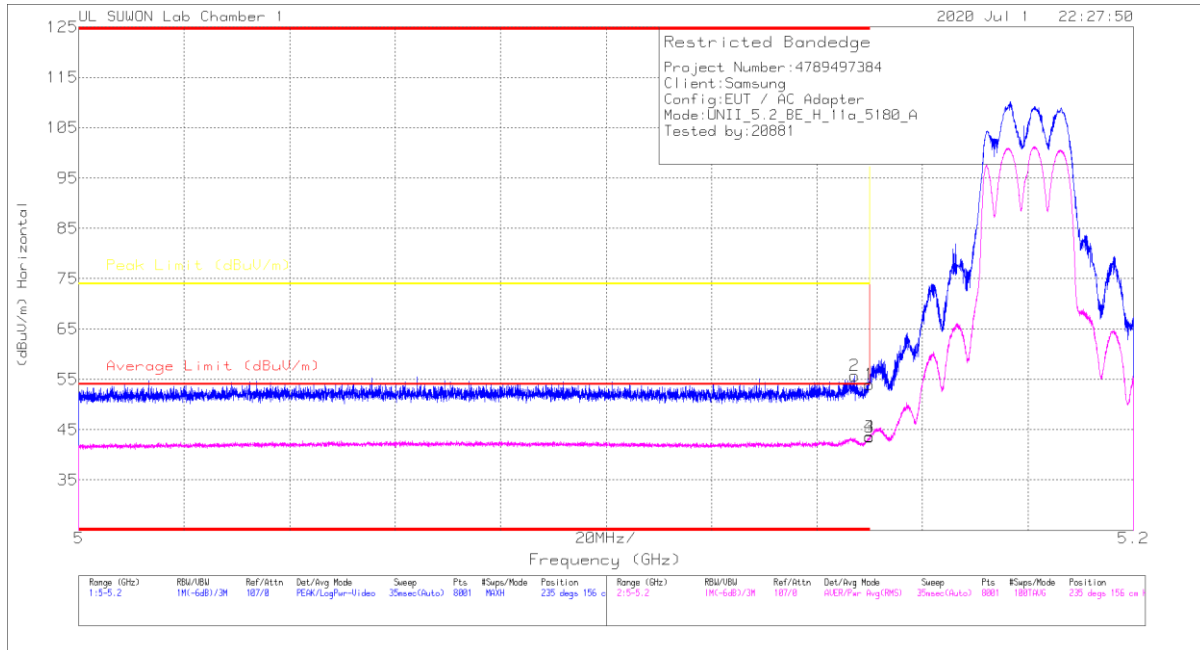
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

11.1. 5.2 GHz

11.1.1. TX ABOVE 1GHz 802.11a 2Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

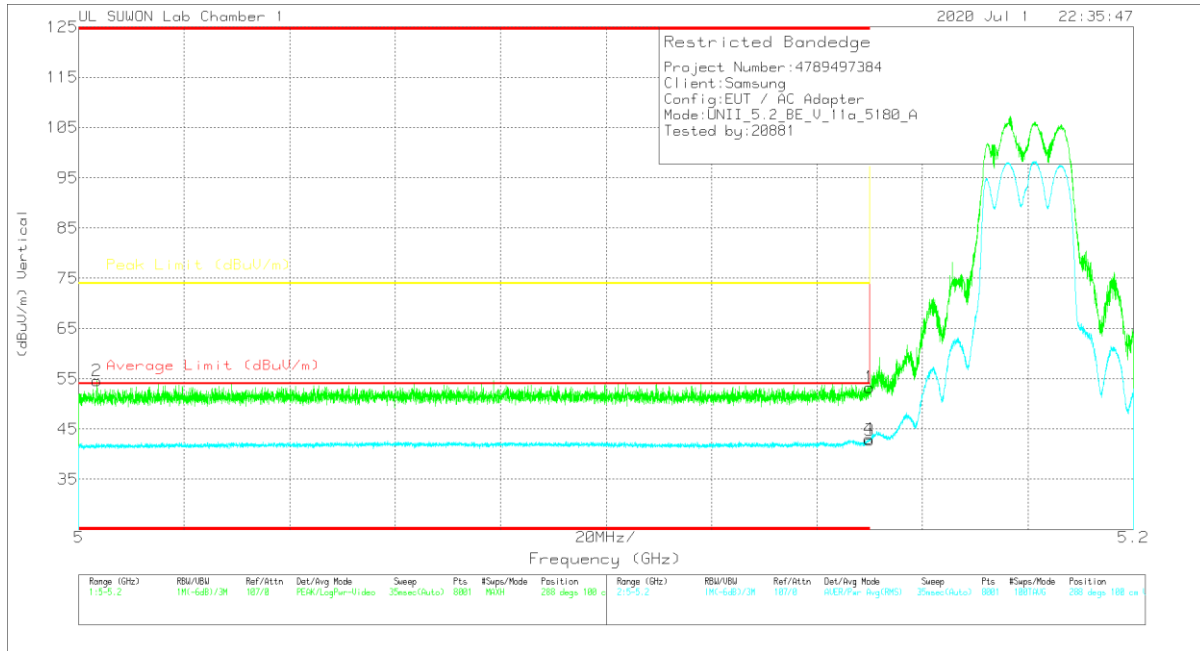
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	5.15	41.27	PK	34.5	-21.8	0	53.37	-	-	74	-20.03	235	156	H
2	*5.1471	43.08	PK	34.4	-21.8	0	55.68	-	-	74	-18.32	235	156	H
3	5.15	30.84	RMS	34.5	-21.8	0	43.54	54	-10.46	-	-	235	156	H
4	*5.14995	31.07	RMS	34.4	-21.8	0	43.67	54	-10.33	-	-	235	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_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	40.61	Pk	34.5	-21.8	0	53.31	-	-	74	-20.69	288	100	V
2	* 5.00343	42.23	Pk	34.2	-21.8	0	54.63	-	-	74	-19.37	288	100	V
3	5.15	30.1	RMS	34.5	-21.8	0	42.8	54	-11.2	-	-	288	100	V
4	* 5.14983	30.4	RMS	34.4	-21.8	0	43	54	-11	-	-	288	100	V

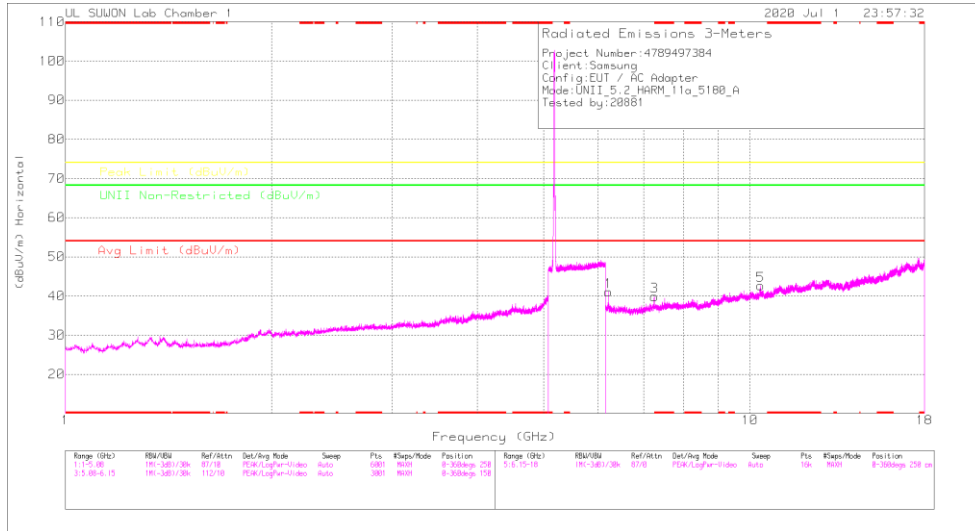
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

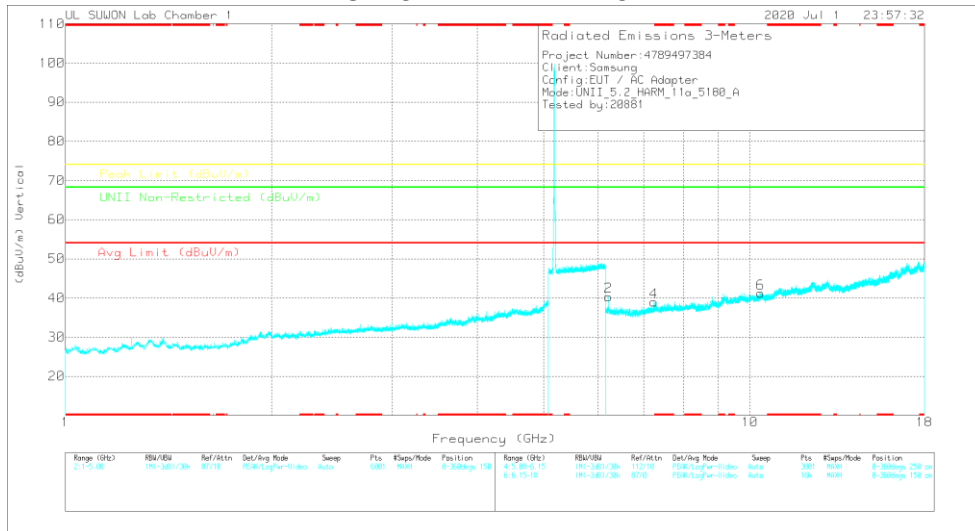
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

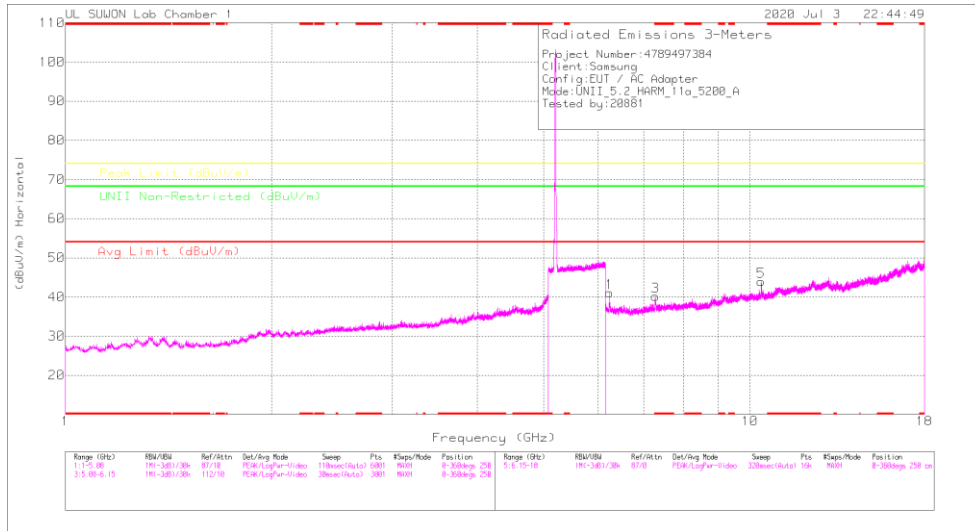
LOW CHANNEL DATA

Radiated Emissions

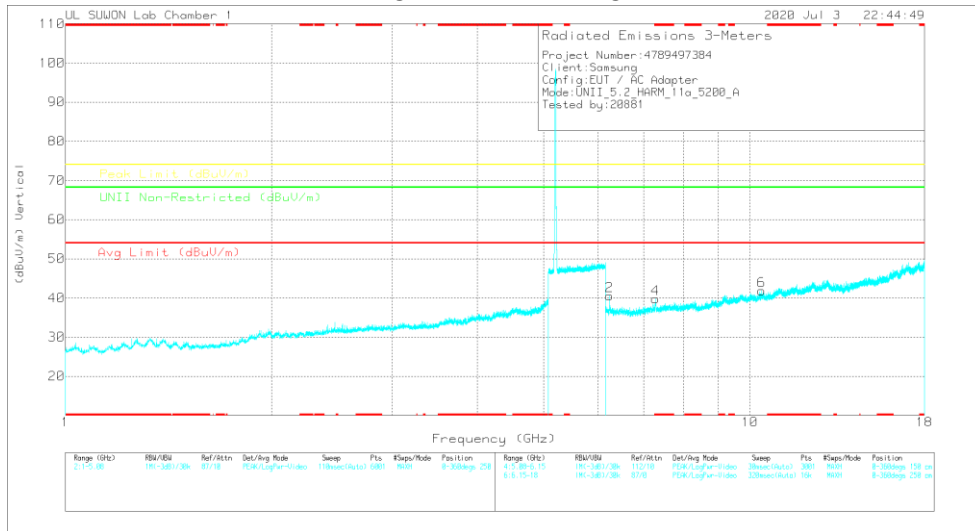
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00169717	45Hz_HPS(%)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.21579	43.17	PK-U	35.3	-28.9	0	48.57	-	-	-	-	68.2	-18.63	342	100	H
6.21635	43.5	PK-U	35.3	-28.9	0	48.9	-	-	-	-	68.2	-18.3	344	118	V
* 7.25611	42.23	PK-U	35.8	-27.1	0	50.53	-	-	74	-23.07	-	-	242	285	H
* 7.25592	30.67	ADR	35.8	-27.2	0	39.27	54	-14.73	-	-	-	-	242	285	H
* 7.25279	42.73	PK-U	35.8	-27.3	0	51.23	-	-	74	-22.77	-	-	297	104	V
* 7.25668	30.92	ADR	35.8	-27.1	0	39.62	54	-14.38	-	-	-	-	297	104	V
10.36162	40.02	PK-U	37.6	-22.3	0	55.32	-	-	-	-	68.2	-12.88	111	210	H
10.35852	36.79	PK-U	37.6	-22.3	0	52.09	-	-	-	-	68.2	-16.11	188	400	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

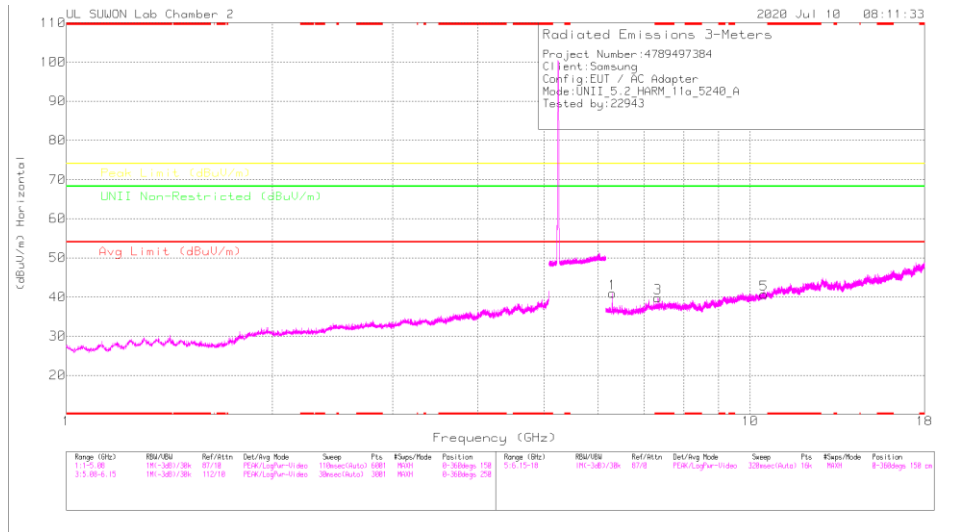
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	6GHz_HF1(B)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (m)	Polarity
6.24011	45.54	PK-U	35.3	-29	0	51.84	-	-	-	-	68.2	-16.36	291	219	H
6.23931	43.12	PK-U	35.3	-29	0	49.42	-	-	-	-	68.2	-18.78	336	344	V
* 7.28391	42.57	PK-U	35.8	-26.9	0	51.47	-	-	74	-22.53	-	-	242	101	H
* 7.27469	31.14	ADR	35.8	-27.1	0	39.84	54	-14.16	-	-	-	-	242	101	H
* 7.28531	42.67	PK-U	35.8	-26.8	0	51.67	-	-	74	-22.33	-	-	295	100	V
* 7.27477	31.36	ADR	35.8	-27.1	0	40.06	54	-13.94	-	-	-	-	295	100	V
10.4015	39.19	PK-U	37.6	-21.6	0	55.19	-	-	-	-	68.2	-13.01	111	206	H
10.39944	36.24	PK-U	37.6	-21.6	0	52.24	-	-	-	-	68.2	-15.96	213	272	V

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

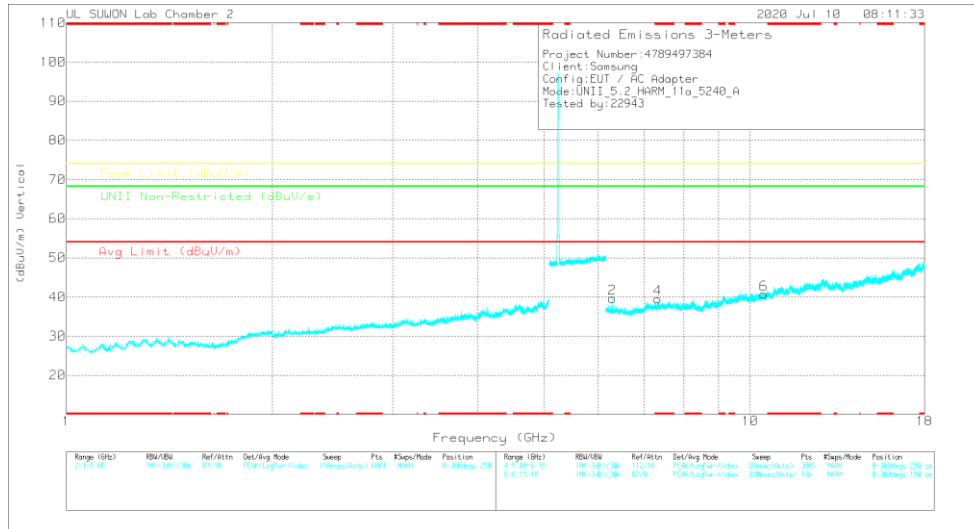
PK-U - U-NII: Maximum Peak

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)	Max Reading (dBuV)	Dir	3117_30168724	60Hz_#FdB	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)	Admitt (Degs)	Height (cm)	Polarity
6.28808	41.62	PK-U	35.2	-25.7	0	51.12	-	-	-	-	68.2	-17.08	294	212	H
6.28816	39.25	PK-U	35.2	-25.7	0	48.75	-	-	-	-	68.2	-19.45	179	106	V
* 7.33551	39.48	PK-U	36.2	-24.8	0	50.88	-	-	74	-23.12	-	-	248	118	H
* 7.33526	38.58	ADR	36.2	-24.9	0	39.89	54	-14.12	-	-	-	-	248	118	H
* 7.33554	38.98	PK-U	36.2	-24.8	0	51.38	-	-	74	-22.62	-	-	194	101	V
* 7.33098	27.74	ADR	36.2	-24.9	0	39.04	54	-14.96	-	-	-	-	194	101	V
10.48195	33.78	PK-U	37.7	-20.5	0	50.98	-	-	-	-	68.2	-17.22	360	100	H
10.47835	33.49	PK-U	37.7	-20.5	0	50.69	-	-	-	-	68.2	-17.51	360	100	V

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

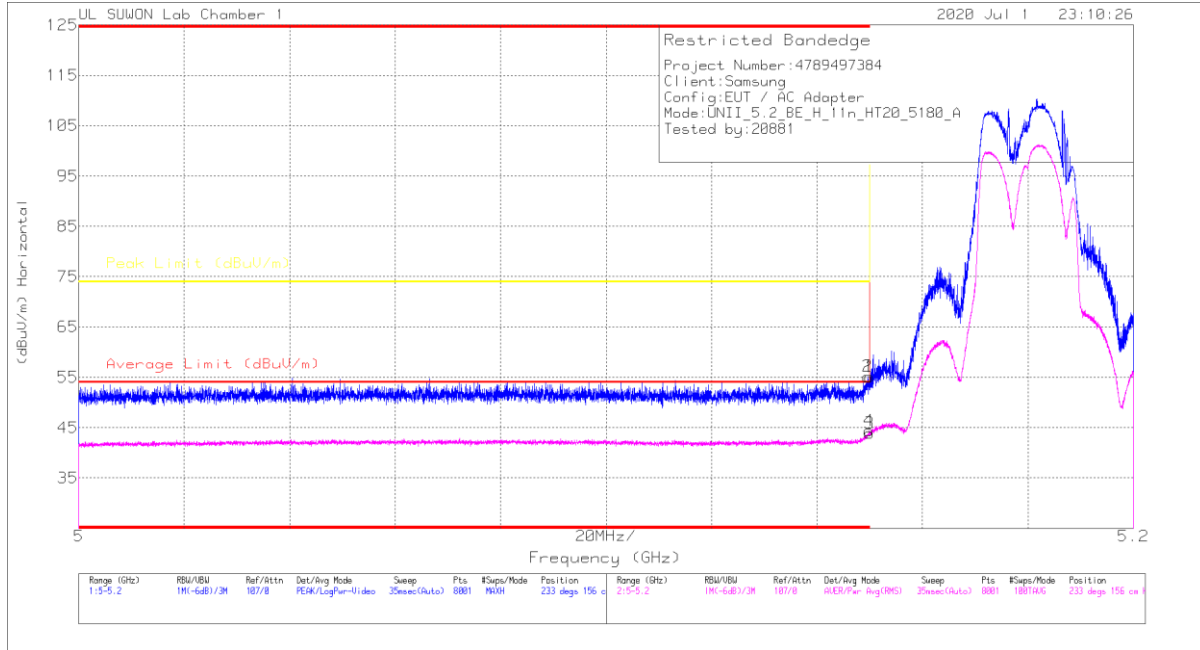
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.2. TX ABOVE 1GHz 802.11n HT20 2Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

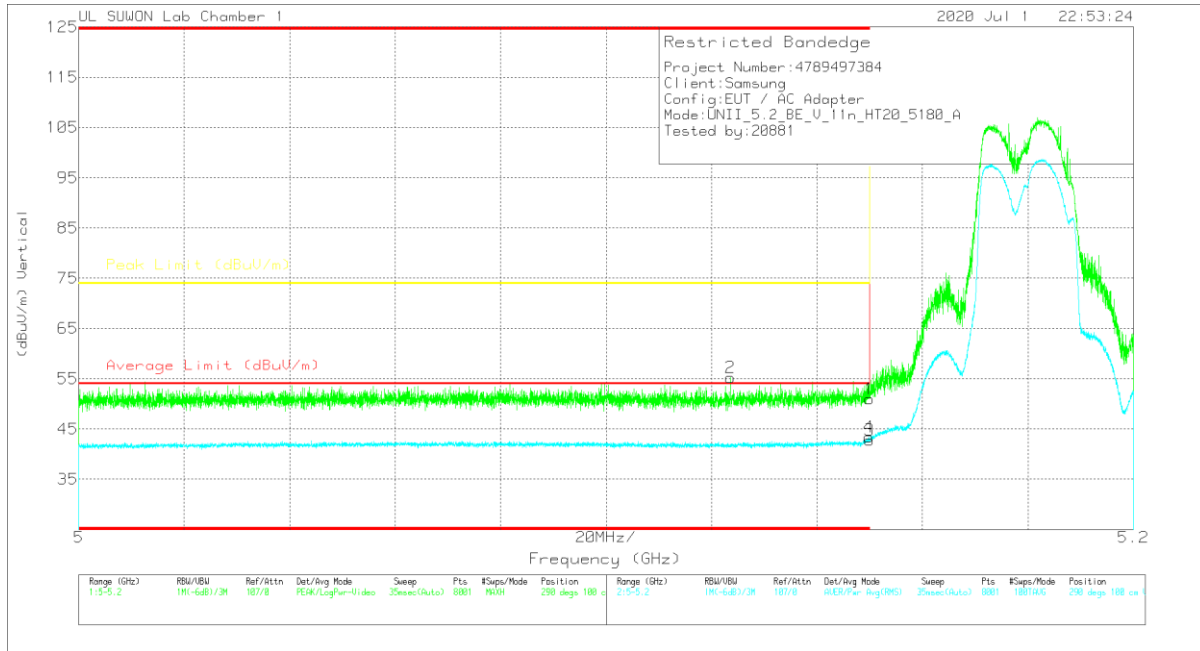
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	42.42	Pk	34.5	-21.8	0	55.12	-	-	74	-18.88	233	156	H
2	*5.14965	42.58	Pk	34.4	-21.8	0	55.18	-	-	74	-18.82	233	156	H
3	5.15	31.15	RMS	34.5	-21.8	0	43.85	54	-10.15	-	-	233	156	H
4	*5.1499	31.78	RMS	34.4	-21.8	0	44.38	54	-9.62	-	-	233	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_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	38.35	Pk	34.5	-21.8	0	51.05	-	-	74	-22.95	290	100	V
2	* 5.1236	42.49	Pk	34.4	-21.7	0	55.19	-	-	74	-18.81	290	100	V
3	5.15	30.13	RMS	34.5	-21.8	0	42.63	54	-11.17	-	-	290	100	V
4	* 5.1499	30.81	RMS	34.4	-21.8	0	43.41	54	-10.59	-	-	290	100	V

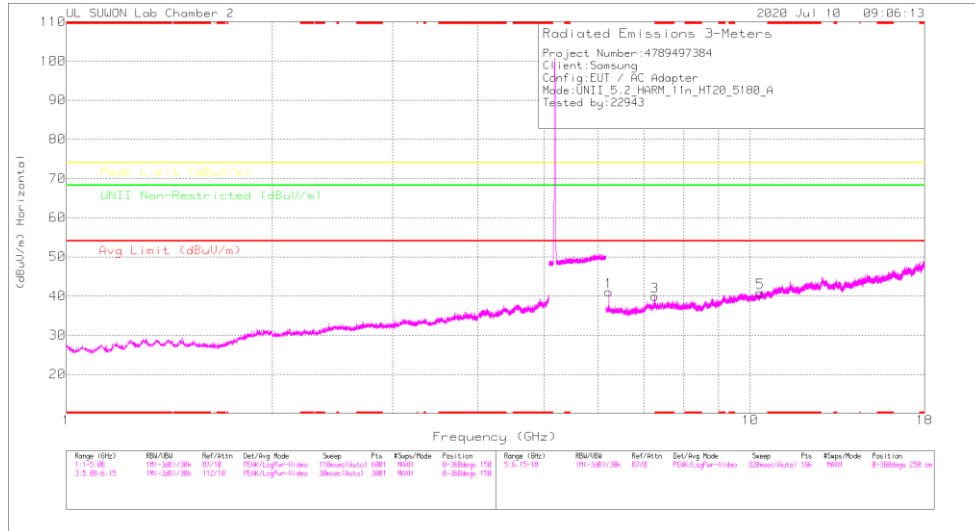
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

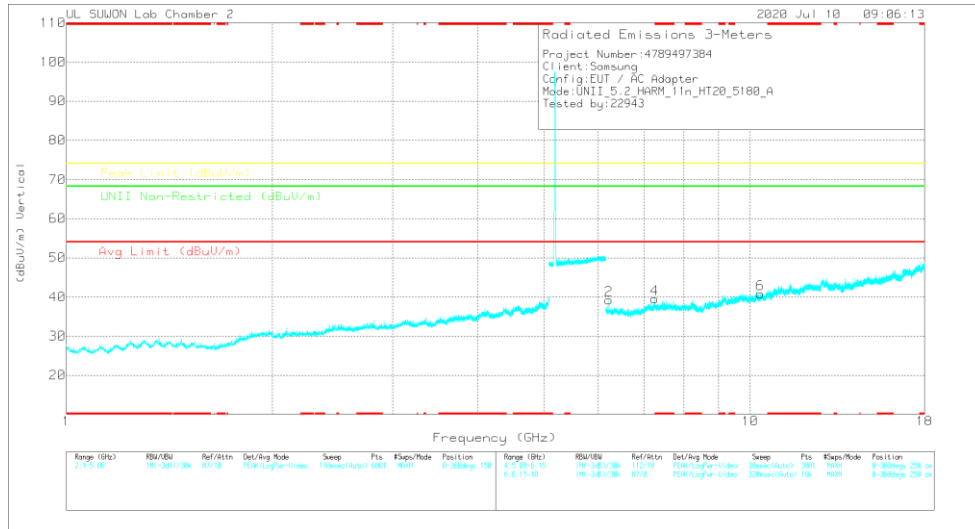
RMS - RMS detection

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

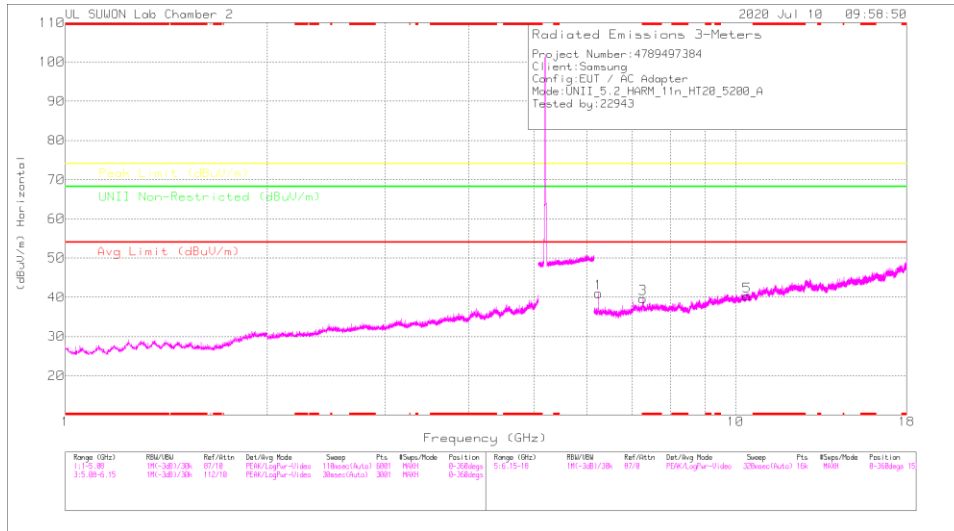
Frequency (GHz)	Main Emission (dBuV)	Det	3117_00168724	60Hz_HF(%)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Admitt (Deg)	Height (cm)	Polarity
6.21562	41.74	PK-U	35.2	-25.9	0	51.04	-	-	-	-	68.2	-17.16	292	195	H
6.2161	40.4	PK-U	35.2	-25.9	0	49.7	-	-	-	-	68.2	-18.5	238	102	V
* 7.25029	40.07	PK-U	36.2	-25.2	0	51.07	-	-	74	-22.93	-	-	243	118	H
* 7.25074	28.59	ADR	36.2	-25.2	0	39.59	54	-14.41	-	-	-	-	243	118	H
* 7.25317	39.29	PK-U	36.2	-25.2	0	50.29	-	-	74	-23.71	-	-	196	263	V
* 7.25329	28.17	ADR	36.2	-25.2	0	39.17	54	-14.83	-	-	-	-	196	263	V
10.36474	33.47	PK-U	37.6	-20.8	0	50.27	-	-	-	-	68.2	-17.93	360	100	H
10.366	34.12	PK-U	37.6	-20.7	0	51.02	-	-	-	-	68.2	-17.18	360	100	V

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

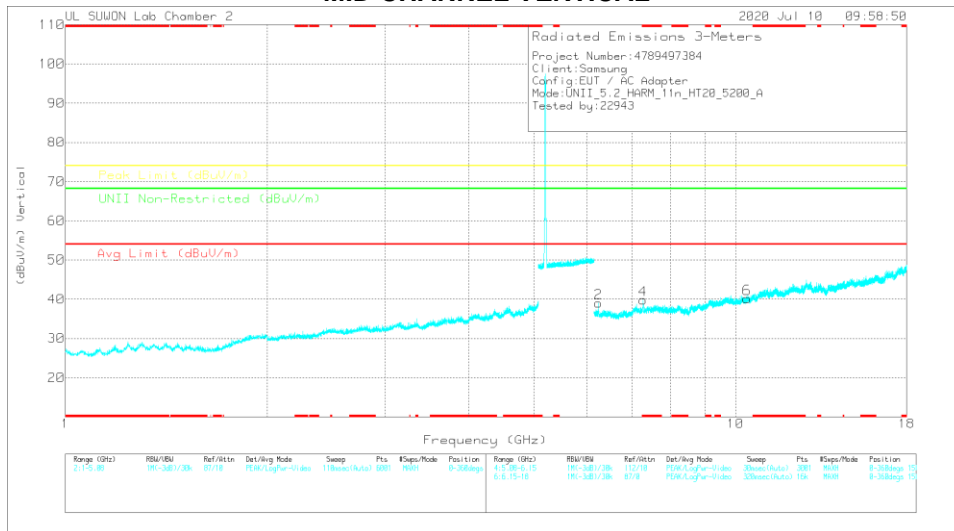
PK-U - U-NII: Maximum Peak

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

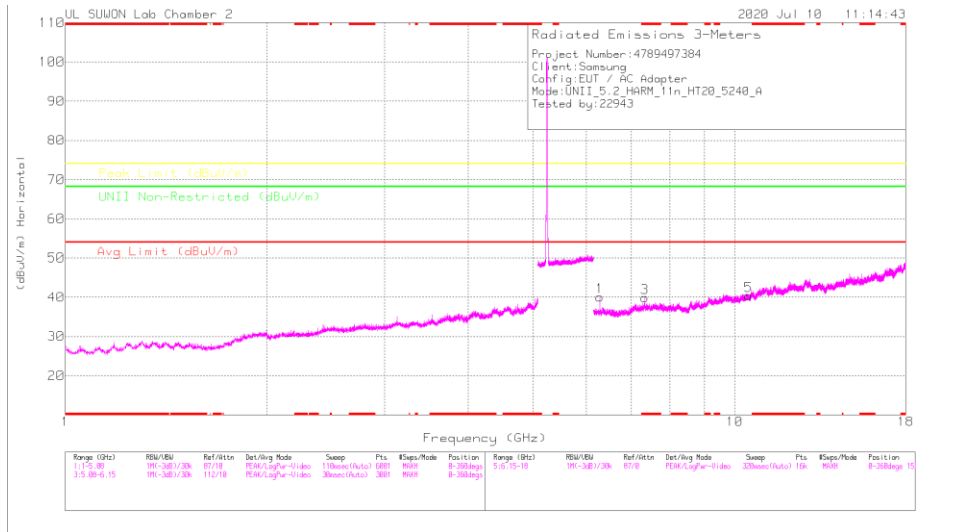
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmth (Deg)	Height (cm)	Polarity	
6.2388	41.29	PK-U	35.2	-25.8	0	50.69	-	-	-	-	68.2	-17.51	-	294	215	H
6.2398	39.67	PK-U	35.2	-25.7	0	49.17	-	-	-	-	68.2	-19.03	-	247	100	V
* 7.27612	39.27	PK-U	36.2	-25.1	0	50.37	-	-	74	-23.63	-	-	-	234	131	H
* 7.27676	27.58	ADR	36.2	-25.1	0	38.68	54	-15.32	-	-	-	-	-	234	131	H
* 7.28124	39.89	PK-U	36.2	-25.1	0	50.98	-	-	74	-23.02	-	-	-	192	270	V
* 7.2788	27.27	ADR	36.2	-25.1	0	38.37	54	-15.63	-	-	-	-	-	192	270	V
10.40011	33.83	PK-U	37.6	-20.7	0	50.73	-	-	-	-	68.2	-17.47	-	360	100	H
10.39983	33.75	PK-U	37.6	-20.7	0	50.65	-	-	-	-	68.2	-17.55	-	360	100	V

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

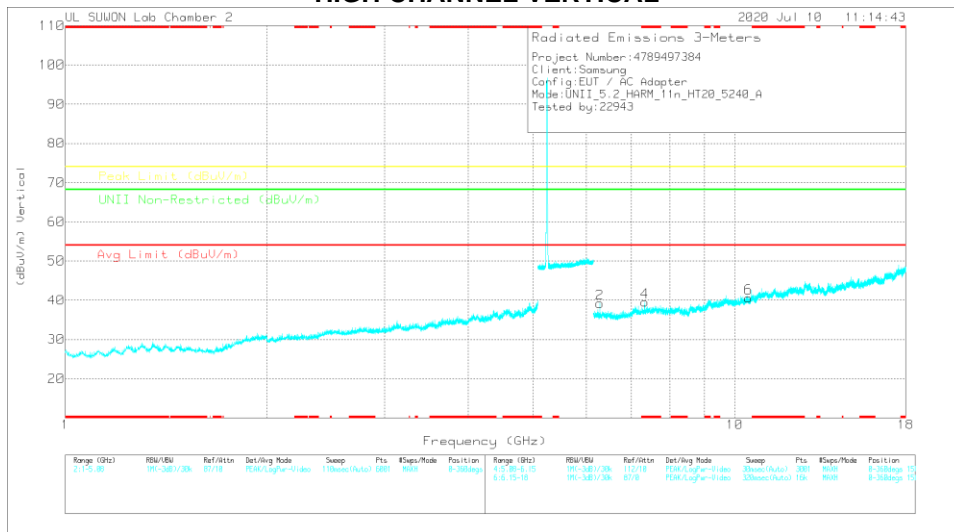
PK-U - U-NII: Maximum Peak

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)	Max Reading (dBuV)	Det	3117_00168724	60Hz_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)	Asmth (Degs)	Height (cm)	Polarity
6.2878	41.28	PK-U	35.2	-25.7	0	50.78	-	-	-	-	68.2	-17.42	294	209	H
6.28798	40.2	PK-U	35.2	-25.7	0	49.7	-	-	-	-	68.2	-18.5	232	103	V
*7.33328	39.58	PK-U	36.2	-24.9	0	50.88	-	-	74	-23.12	-	-	238	123	H
*7.3341	28.13	ADR	36.2	-24.8	0	39.53	54	-14.47	-	-	-	-	238	123	H
*7.33902	39.24	PK-U	36.2	-24.8	0	50.64	-	-	74	-23.36	-	-	199	252	V
*7.3372	27.68	ADR	36.2	-24.8	0	39.08	54	-14.92	-	-	-	-	199	252	V
10.48188	33.72	PK-U	37.7	-20.5	0	50.92	-	-	-	-	68.2	-17.28	360	100	H
10.478	34.1	PK-U	37.7	-20.4	0	51.4	-	-	-	-	68.2	-16.8	360	100	V

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

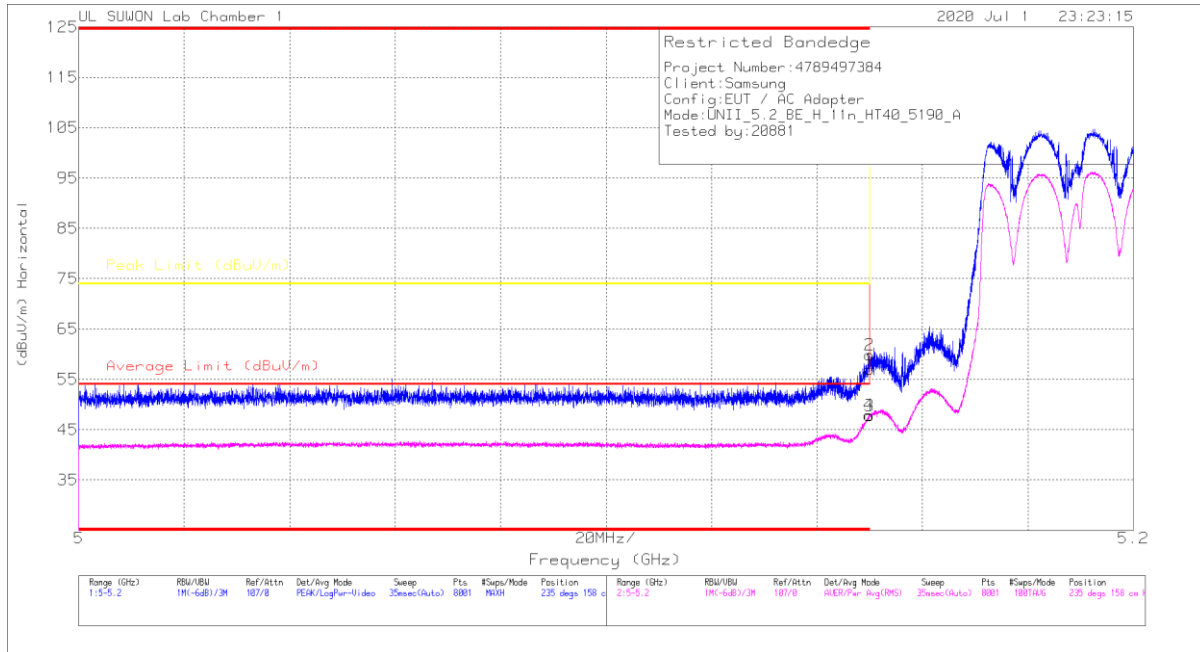
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.3. TX ABOVE 1GHz 802.11n HT40 2Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

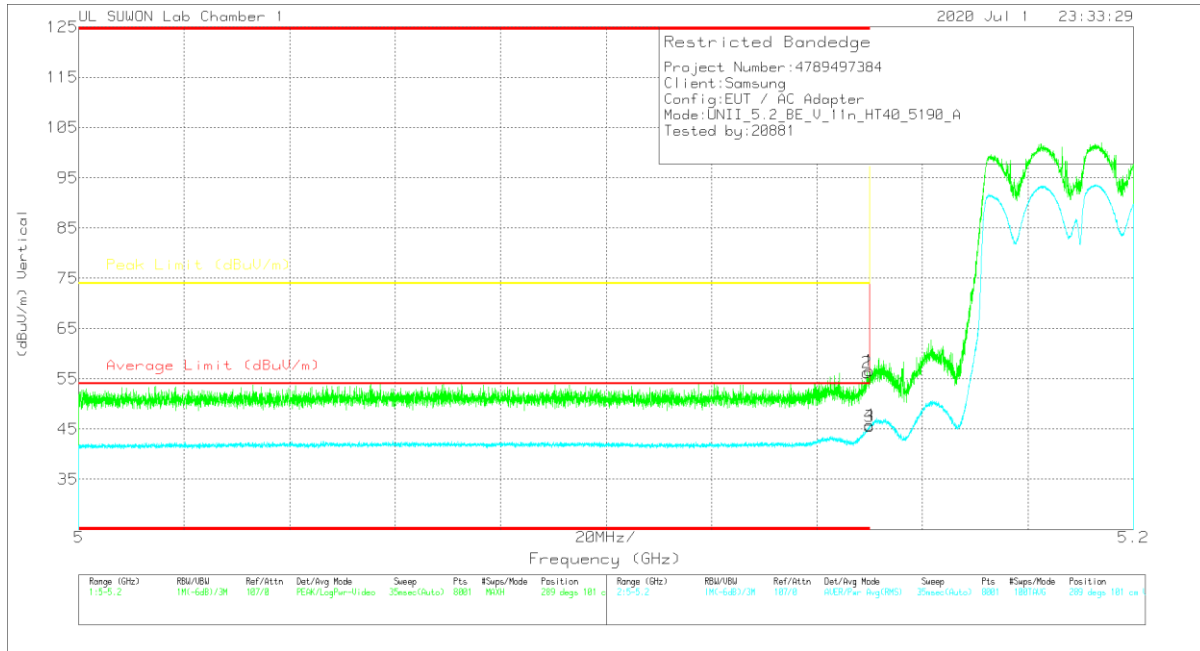
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	5.15	44.33	PK	34.5	-21.8	0	57.03	-	-	74	-16.97	235	158	H
2	* 5.14998	47.2	PK	34.4	-21.8	0	59.8	-	-	74	-14.2	235	158	H
3	5.15	35.11	RMS	34.5	-21.8	0	47.81	54	-6.19	-	-	235	158	H
4	* 5.1498	35.27	RMS	34.4	-21.8	0	47.87	54	-6.13	-	-	235	158	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	43.88	Pk	34.5	-21.8	0	56.58	-	-	74	-17.42	289	101	V
2	* 5.14953	43.61	Pk	34.4	-21.8	0	56.21	-	-	74	-17.79	289	101	V
3	5.15	32.82	RMS	34.5	-21.8	0	45.52	54	-8.48	-	-	289	101	V
4	* 5.14995	33.19	RMS	34.4	-21.8	0	45.79	54	-8.21	-	-	289	101	V

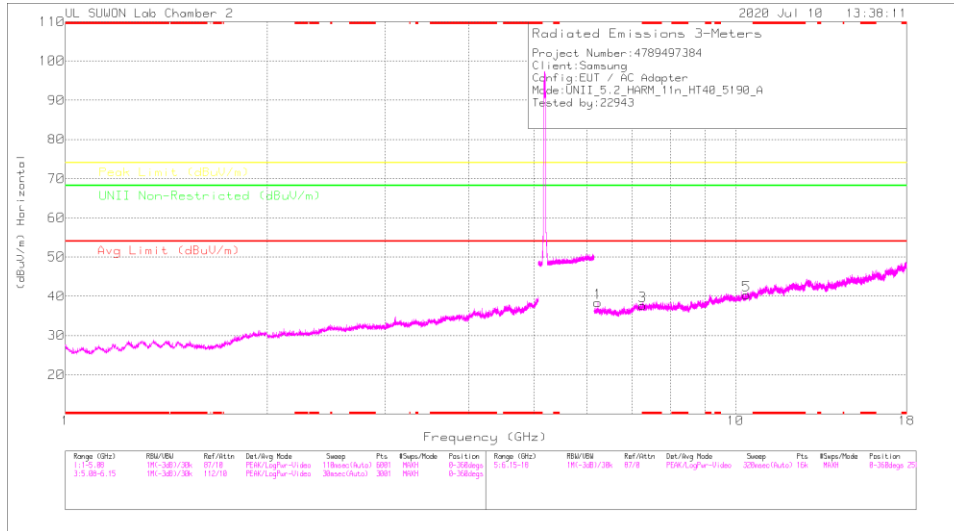
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

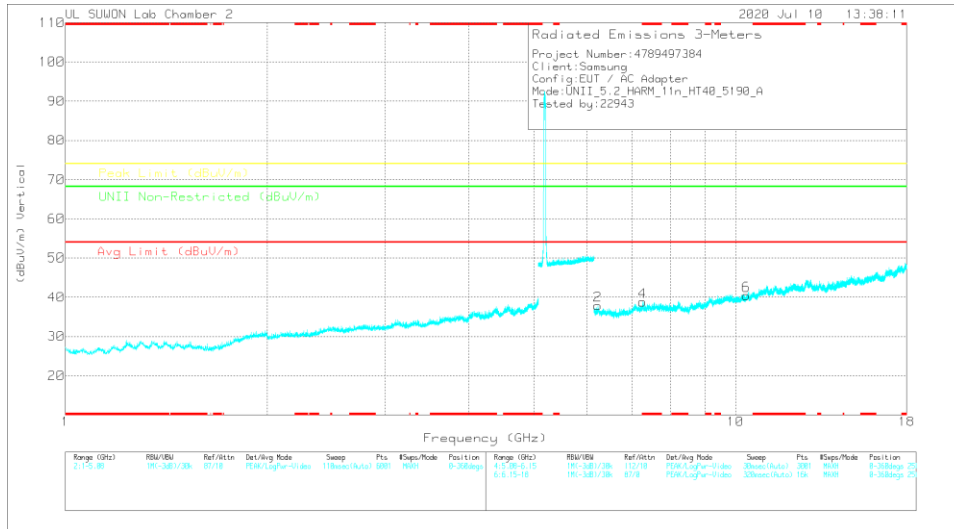
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

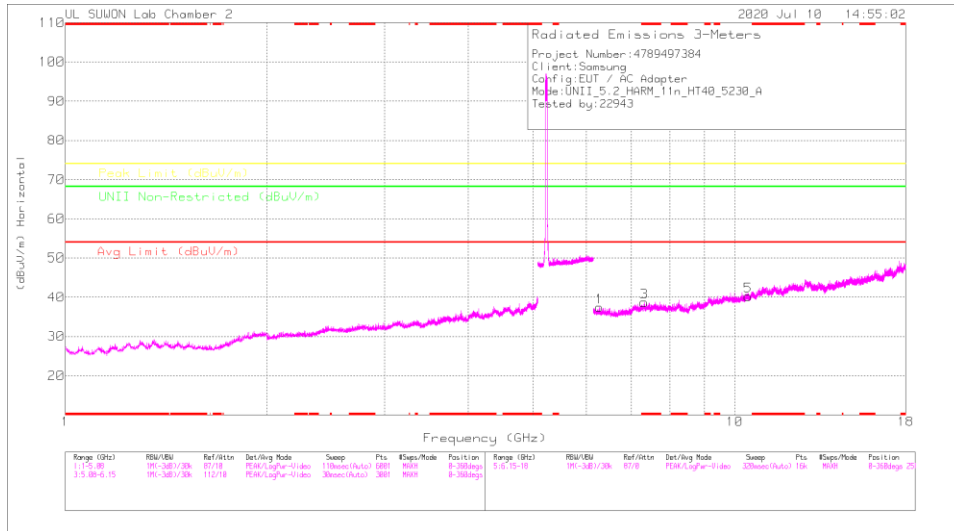
LOW CHANNEL DATA

Radiated Emissions

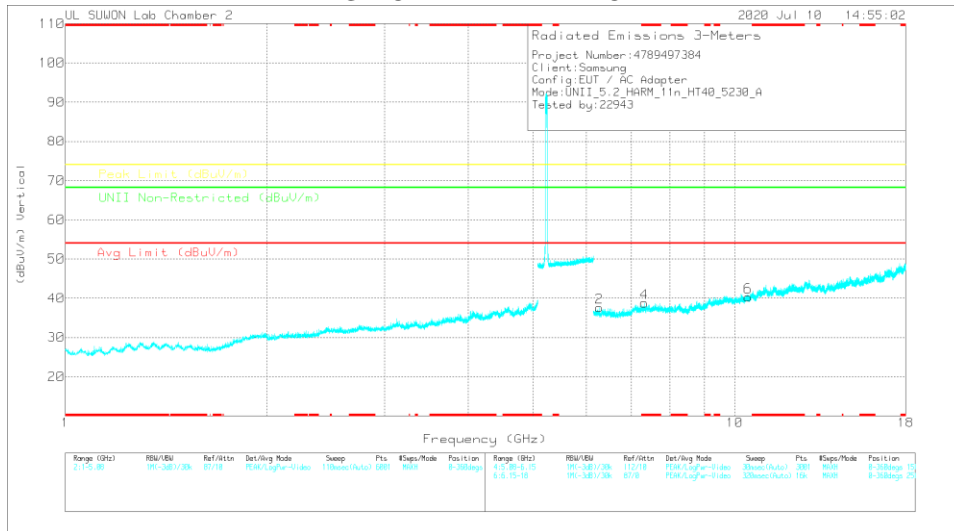
Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Dggs)	Height (cm)	Polarity
6.22782	39.51	PK-U	35.2	-25.9	0	48.81	-	-	-	-	68.2	-19.39	296	212	H
6.23365	38.54	PK-U	35.2	-25.8	0	47.94	-	-	-	-	68.2	-20.26	226	100	V
* 7.27448	38.41	PK-U	36.2	-25.1	0	49.51	-	-	74	-24.49	-	-	244	115	H
* 7.27473	26.64	ADR	36.2	-25.1	0	37.74	54	-16.26	-	-	-	-	244	115	H
* 7.28552	37.85	PK-U	36.2	-25.1	0	49.05	-	-	74	-24.95	-	-	192	256	V
* 7.27544	26.37	ADR	36.2	-25.1	0	37.47	54	-16.53	-	-	-	-	192	256	V
10.37993	33.83	PK-U	37.6	-20.8	0	50.63	-	-	-	-	68.2	-17.57	360	100	H
10.37916	33.87	PK-U	37.6	-20.8	0	50.67	-	-	-	-	68.2	-17.53	360	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)	Meter Reading (dBuV)	Det	3117_00168724	6GHz_HF(5)	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
6.29679	37.97	PK-U	35.2	-25.8	0	47.37	-	-	-	-	68.2	-20.83	300	222	H
6.29563	37.61	PK-U	35.2	-25.6	0	47.21	-	-	-	-	68.2	-20.99	213	101	V
* 7.31991	37.73	PK-U	36.2	-24.9	0	49.03	-	-	74	-24.97	-	-	248	119	H
* 7.32078	26.06	ADR	36.2	-24.9	0	37.36	54	-16.64	-	-	-	-	248	119	H
* 7.30054	37.64	PK-U	36.2	-25	0	48.94	-	-	74	-25.16	-	-	199	250	V
* 7.3242	25.89	ADR	36.2	-24.9	0	37.19	54	-16.82	-	-	-	-	199	250	V
10.46112	33.32	PK-U	37.6	-20.5	0	50.42	-	-	-	-	68.2	-17.78	360	100	H
10.46096	33.65	PK-U	37.6	-20.5	0	50.75	-	-	-	-	68.2	-17.45	360	100	V

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

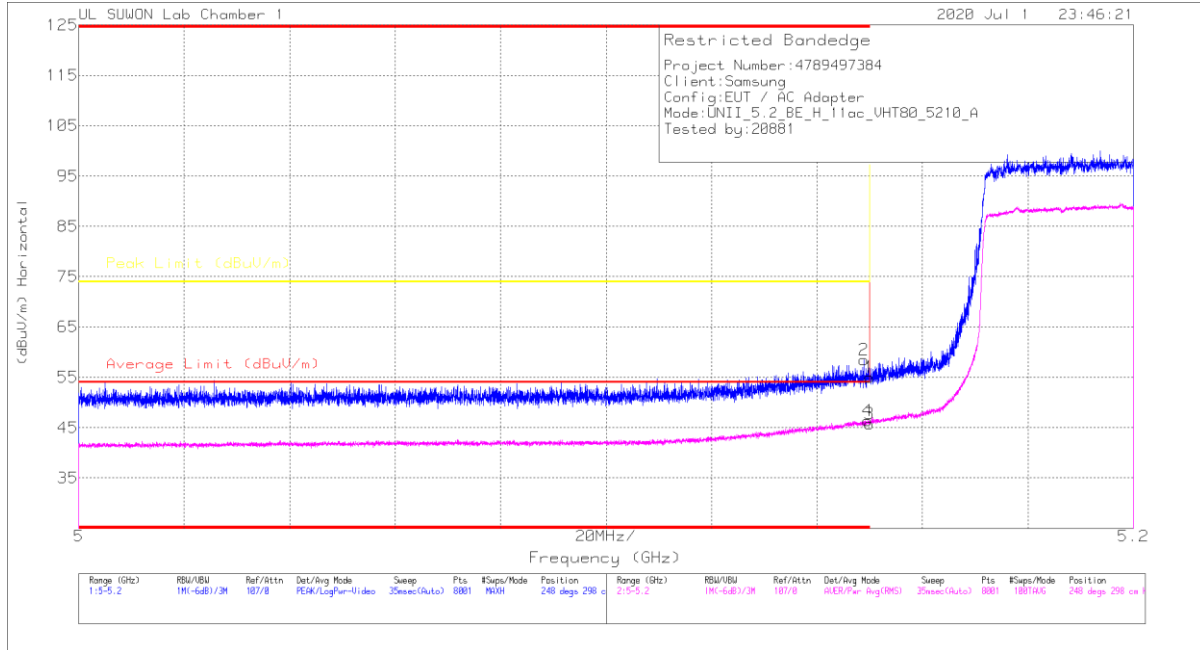
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.4.TX ABOVE 1GHz 802.11ac VHT80 2Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

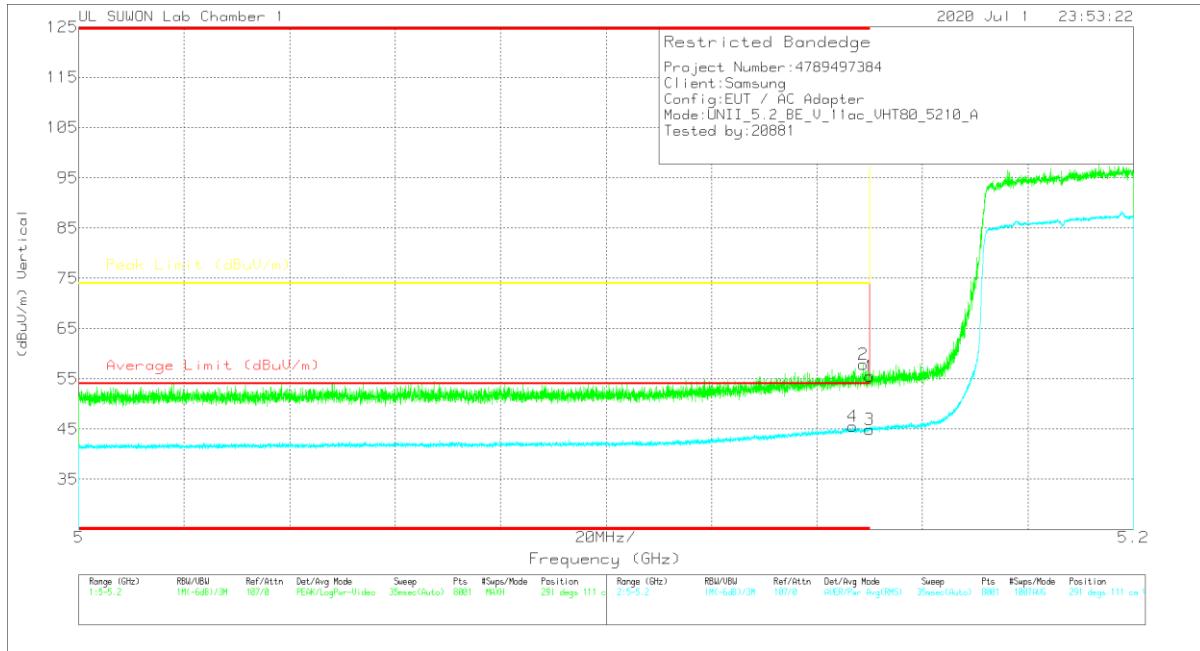
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	42.35	Pk	34.5	-21.8	0	55.05	-	-	74	-18.95	248	298	H
2	* 5.14893	45.84	Pk	34.4	-21.8	0	58.44	-	-	74	-15.56	248	298	H
3	5.15	33.1	RMS	34.5	-21.8	0	45.8	54	-8.2	-	-	248	298	H
4	* 5.14965	33.8	RMS	34.4	-21.8	0	46.4	54	-7.6	-	-	248	298	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 (dBm)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	42.8	Pk	34.5	-21.8	0	55.5	-	-	74	-18.5	291	111	V
2	* 5.14875	45.28	Pk	34.4	-21.8	0	57.88	-	-	74	-16.12	291	111	V
3	5.15	32.22	RMS	34.5	-21.8	0	44.92	54	-9.08	-	-	291	111	V
4	* 5.14675	32.97	RMS	34.4	-21.8	0	45.57	54	-8.43	-	-	291	111	V

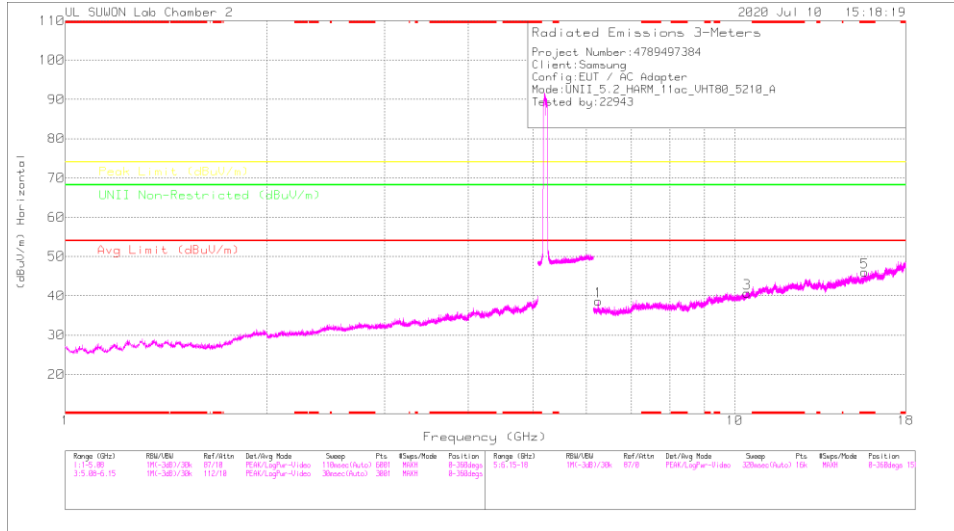
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

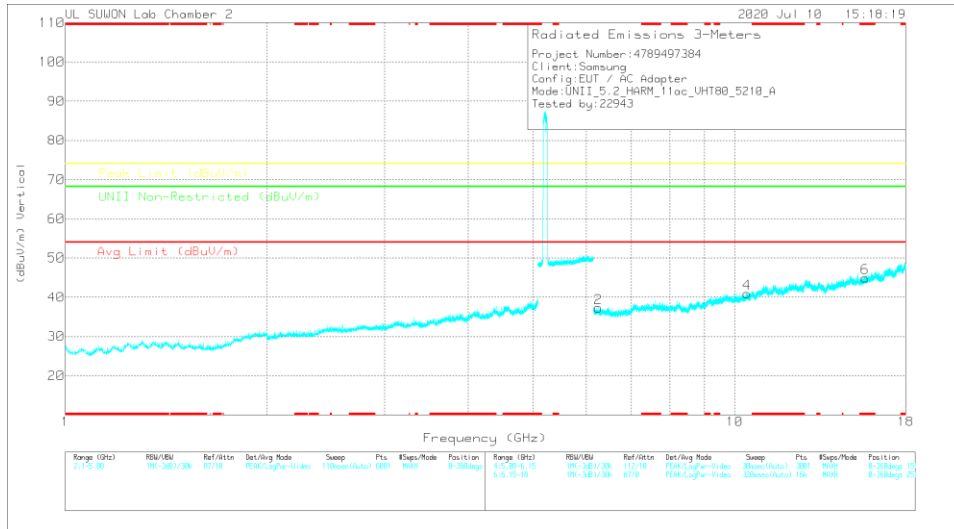
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



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

MID CHANNEL DATA

Radiated Emissions

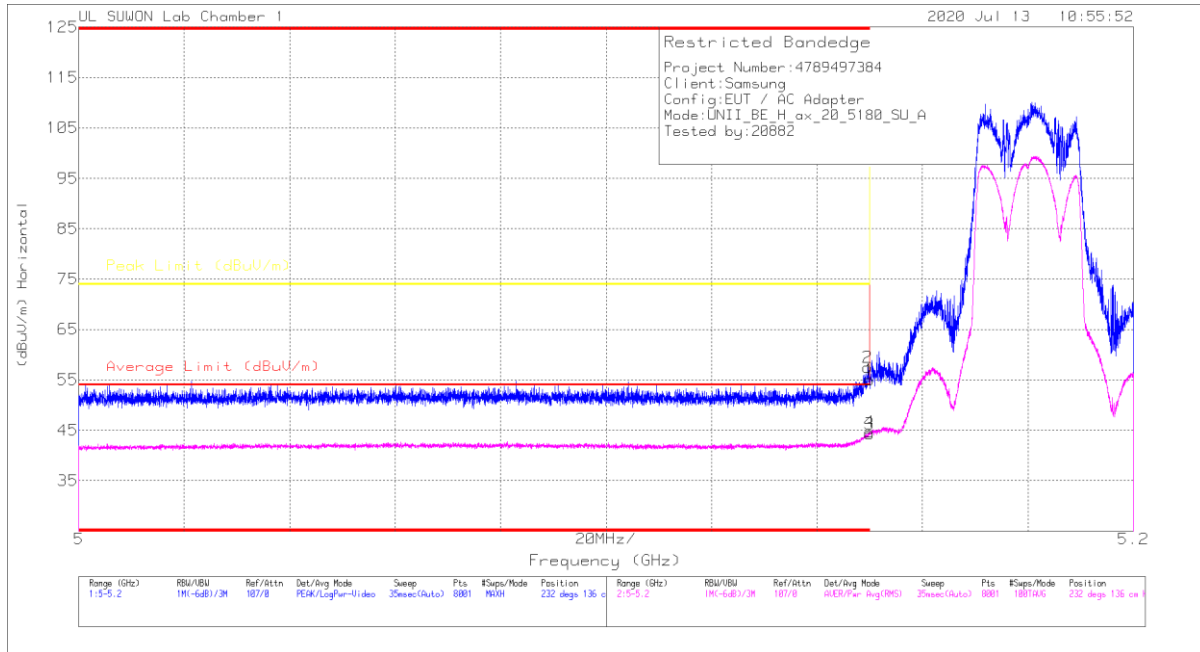
Frequency (GHz)	Meter Reading (dBuV)	Det	317_00168724	6GHz_HF(SB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
6.2522	38.96	PK-U	35.2	-25.7	0	48.46	-	-	-	-	68.2	-19.74	296	198	H
6.25184	39.1	PK-U	35.2	-25.7	0	48.6	-	-	-	-	68.2	-19.6	180	115	V
10.42066	33.45	PK-U	37.6	-20.6	0	50.45	-	-	-	-	68.2	-17.75	0	100	H
10.42155	33.55	PK-U	37.6	-20.6	0	50.55	-	-	-	-	68.2	-17.65	0	100	V
*15.63069	35.51	PK-U	40.1	-19.7	0	55.91	-	-	74	-18.09	-	-	0	100	H
*15.63016	34.91	PK-U	40.1	-19.7	0	55.21	-	-	74	-18.79	-	-	0	100	V

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

11.1.5.TX ABOVE 1GHz 802.11ax HE20 2Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

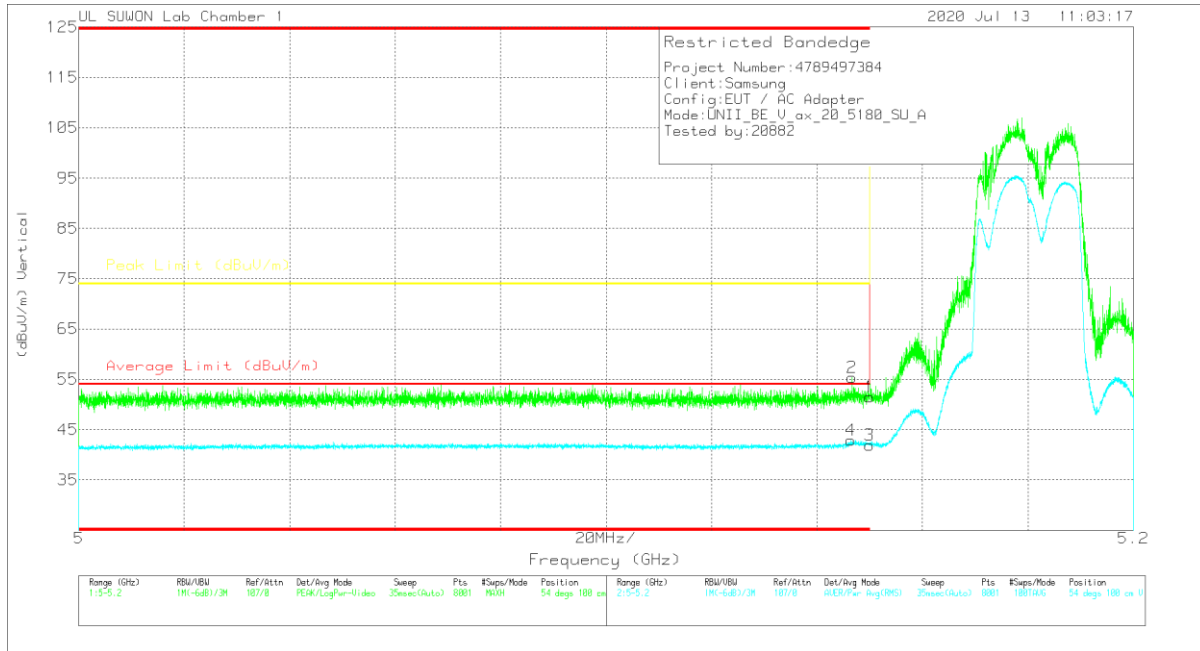


Trace Markers

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	42.25	Pk	34.5	-21.8	0	54.95	-	-	74	-19.05	232	136	H
2	* 5.14965	44.86	Pk	34.4	-21.8	0	57.46	-	-	74	-16.54	232	136	H
3	5.15	31.54	RMS	34.5	-21.8	0	44.24	54	-9.76	-	-	232	136	H
4	* 5.14995	32.01	RMS	34.4	-21.8	0	44.61	54	-9.39	-	-	232	136	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	38.77	Pk	34.5	-21.8	0	51.47	-	-	74	-22.53	54	100	V
2	* 5.14663	42.81	Pk	34.4	-21.8	0	55.41	-	-	74	-18.59	54	100	V
3	5.15	29.22	RMS	34.5	-21.8	0	41.92	54	-12.08	-	-	54	100	V
4	* 5.14635	30.29	RMS	34.4	-21.8	0	42.89	54	-11.11	-	-	54	100	V

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

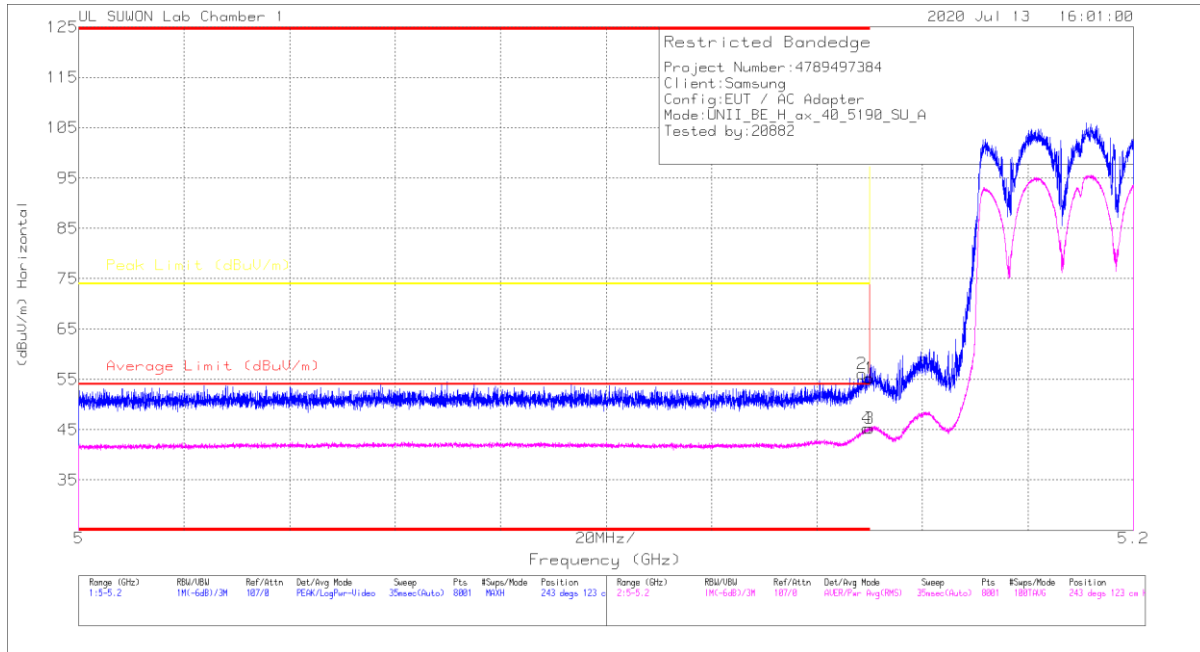
Pk - Peak detector

RMS - RMS detection

11.1.6. TX ABOVE 1GHz 802.11ax HE40 2Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

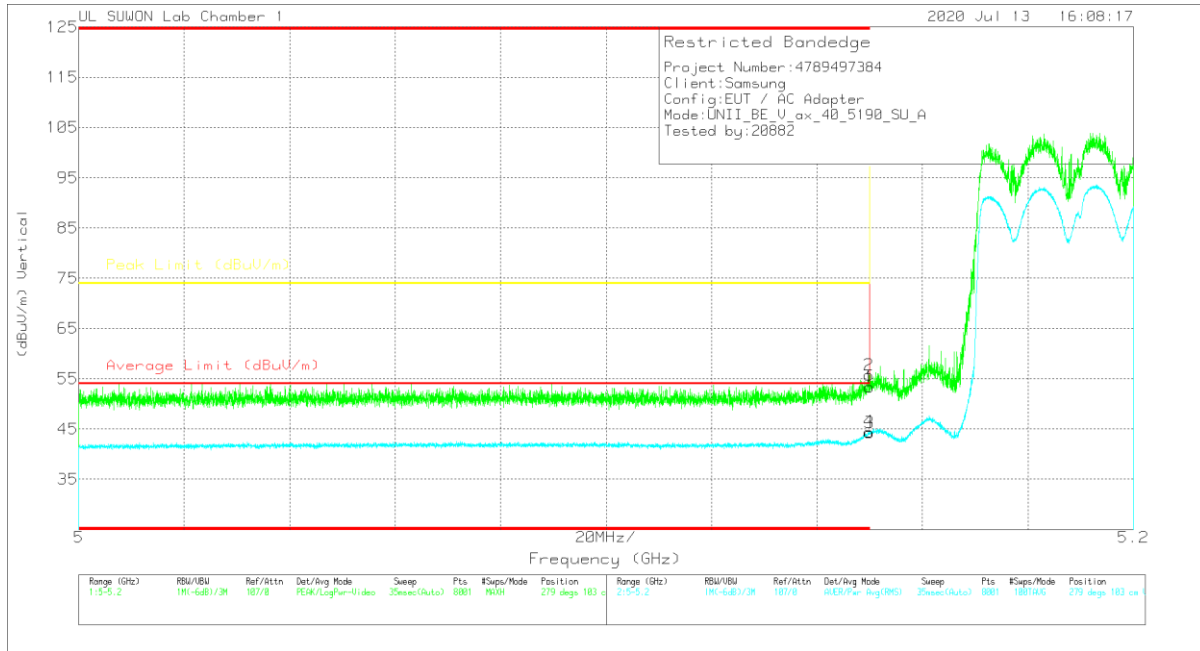
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	42.52	PK	34.5	-21.8	0	55.22	-	-	74	-18.78	243	123	H
2	* 5.14855	43.57	PK	34.4	-21.9	0	56.07	-	-	74	-17.93	243	123	H
3	5.15	32.61	RMS	34.5	-21.8	0	45.31	54	-8.69	-	-	243	123	H
4	* 5.1495	32.72	RMS	34.4	-21.8	0	45.32	54	-8.68	-	-	243	123	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	40.7	Pk	34.5	-21.8	0	53.4	-	-	74	-20.6	278	103	V
2	*5.14985	43.09	Pk	34.4	-21.8	0	55.69	-	-	74	-18.31	278	103	V
3	5.15	31.6	RMS	34.5	-21.8	0	44.3	54	-9.7	-	-	278	103	V
4	*5.14988	31.86	RMS	34.4	-21.8	0	44.46	54	-9.54	-	-	278	103	V

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

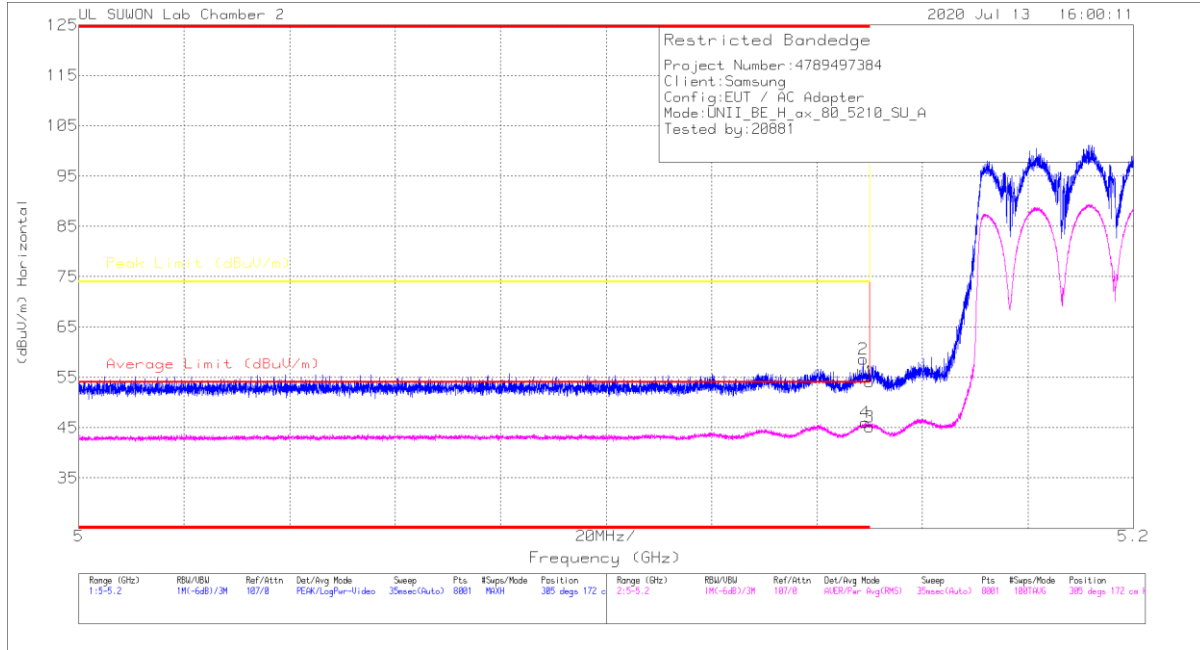
Pk - Peak detector

RMS - RMS detection

11.1.7. TX ABOVE 1GHz 802.11ax HE80 2Tx MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

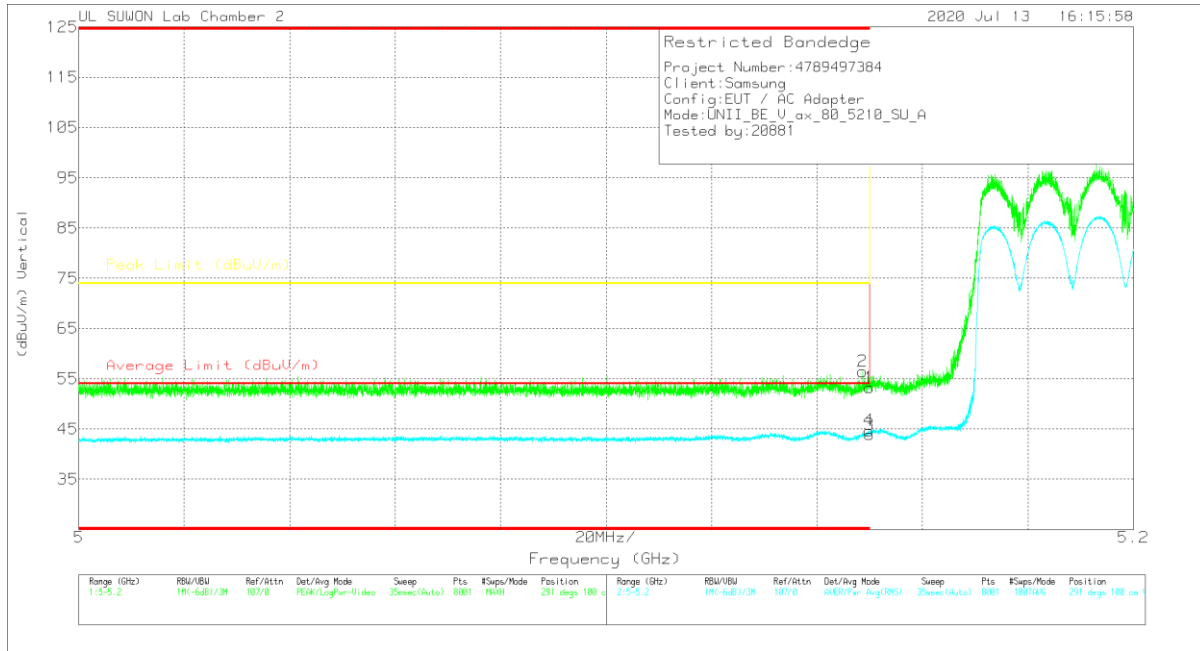
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	37.88	Pk	34.3	-18.1	0	54.08	-	-	74	-19.92	305	172	H
2	* 5.14873	42.38	Pk	34.3	-18.1	0	58.58	-	-	74	-15.42	305	172	H
3	5.15	29	RMS	34.3	-18.1	0	45.2	54	-8.8	-	-	305	172	H
4	* 5.14915	29.79	RMS	34.3	-18.1	0	45.99	54	-8.01	-	-	305	172	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]	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	37.09	Pk	34.3	-18.1	53.29	-	-	74	-20.71	291	100	V
2	* 5.14865	40.23	Pk	34.3	-18.1	56.43	-	-	74	-17.57	291	100	V
3	5.15	27.75	RMS	34.3	-18.1	43.95	54	-10.05	-	-	291	100	V
4	* 5.1498	28.51	RMS	34.3	-18.1	44.71	54	-9.29	-	-	291	100	V

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

Pk - Peak detector

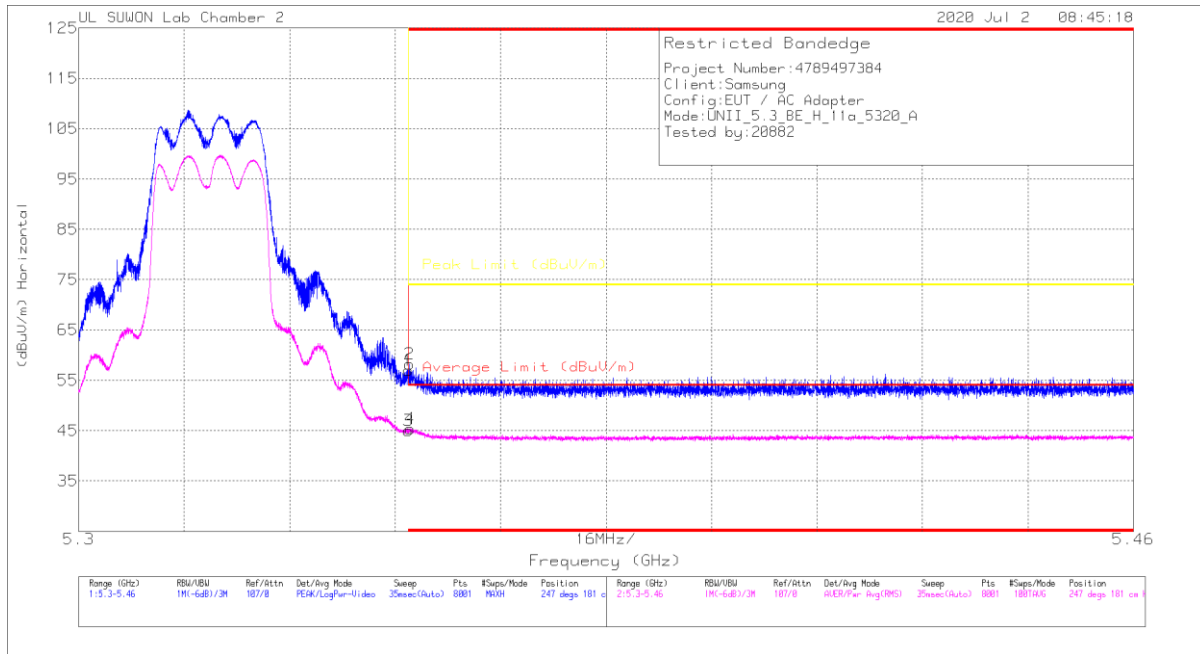
RMS - RMS detection

11.2. 5.3 GHz

11.2.1. TX ABOVE 1 GHz 802.11a 2Tx MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

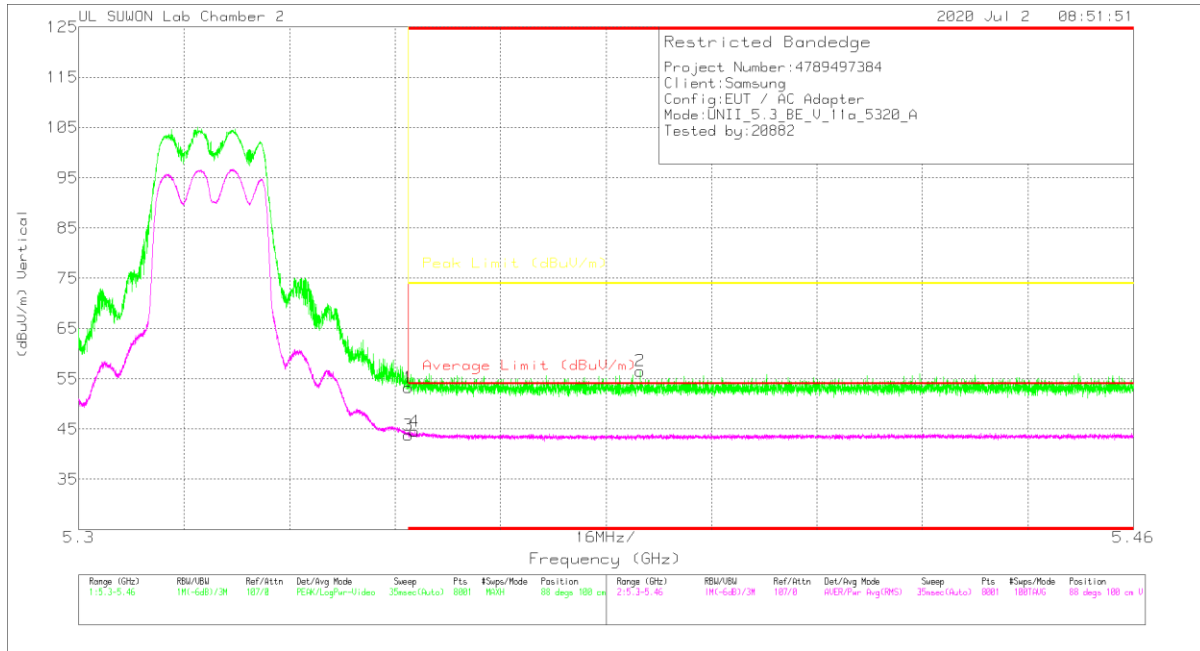
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35002	40.54	Pk	34.5	-18.1	0	56.94	-	-	74	-17.06	247	181	H
2	* 5.35016	41.83	Pk	34.5	-18.1	0	58.23	-	-	74	-15.77	247	181	H
3	* 5.35002	28.64	RMS	34.5	-18.1	0	45.04	54	-8.96	-	-	247	181	H
4	* 5.35026	28.97	RMS	34.5	-18.1	0	45.37	54	-8.63	-	-	247	181	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



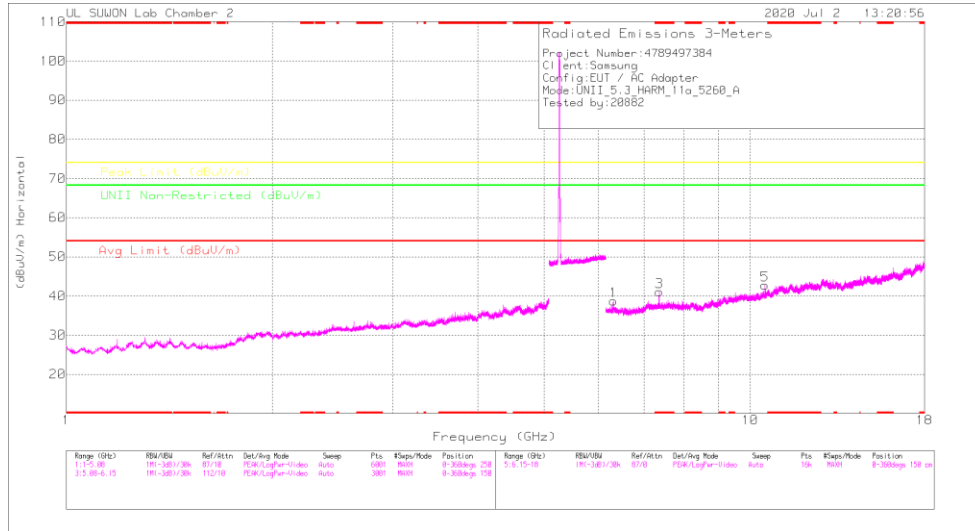
Trace Markers

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	36.83	Pk	34.5	-18.1	0	53.23	-	-	74	-20.77	88	100	V
2	* 5.3852	40.15	Pk	34.5	-18.1	0	56.55	-	-	74	-17.45	88	100	V
3	* 5.35002	27.42	RMS	34.5	-18.1	0	43.62	54	-10.18	-	-	88	100	V
4	* 5.35092	28.07	RMS	34.5	-18.1	0	44.47	54	-9.53	-	-	88	100	V

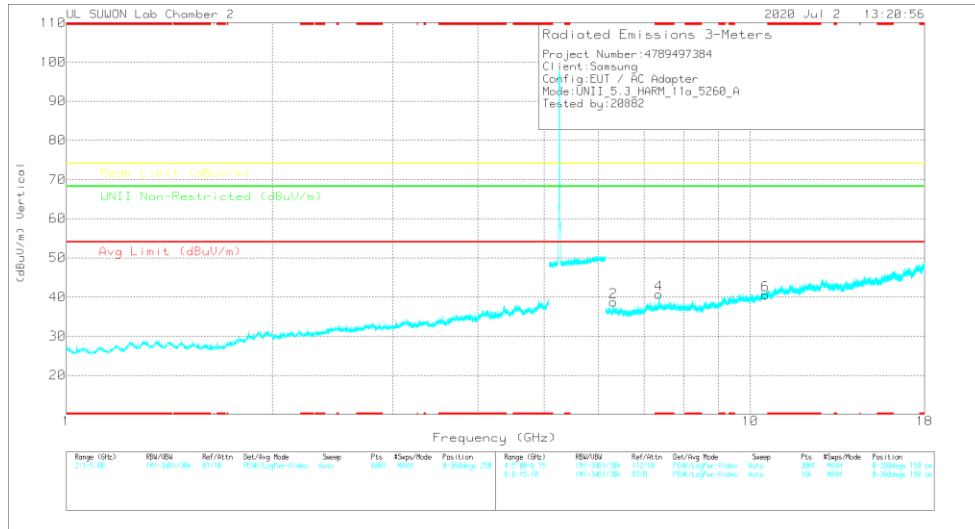
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

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

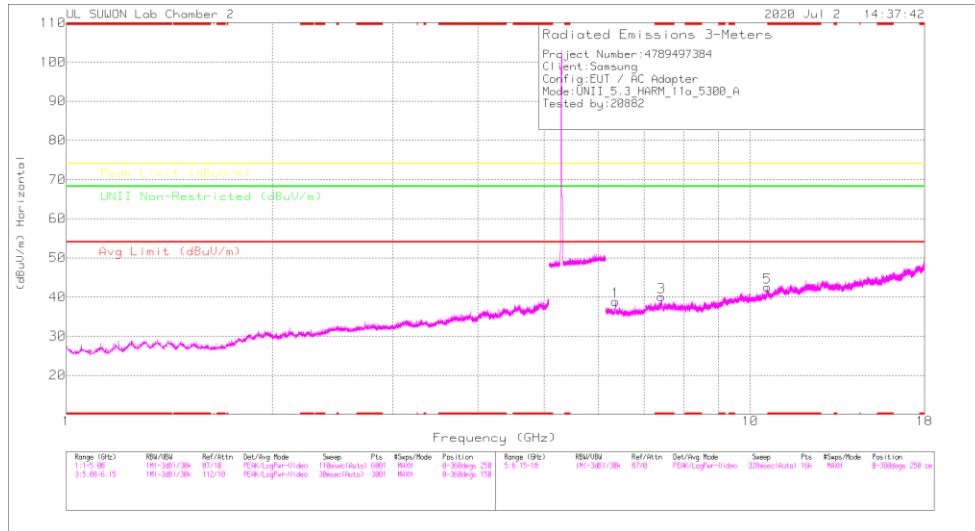
Frequency (GHz)	Water Reading (dBuV)	Det	3117_00168724	60Hz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (m)	Polarity
6.31129	38.84	PK-U	35.2	-25.3	0	48.84	-	-	-	-	68.2	-19.36	214	101	H
6.31365	38.83	PK-U	35.2	-25.2	0	48.83	-	-	-	-	68.2	-18.37	253	123	V
* 7.36945	39.89	PK-U	36.2	-24.5	0	51.59	-	-	74	-22.41	-	-	299	181	H
* 7.36897	29.12	ADR	36.2	-24.5	0	40.82	54	-13.18	-	-	-	-	299	181	H
* 7.35889	39.73	PK-U	36.2	-24.6	0	51.33	-	-	74	-22.67	-	-	291	100	V
* 7.35913	28.67	ADR	36.2	-24.6	0	40.27	54	-13.73	-	-	-	-	291	100	V
10.5173	35.56	PK-U	37.7	-20.4	0	53.36	-	-	-	-	68.2	-14.34	133	210	H
10.51786	34.44	PK-U	37.7	-20.4	0	51.74	-	-	-	-	68.2	-16.46	325	100	V

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

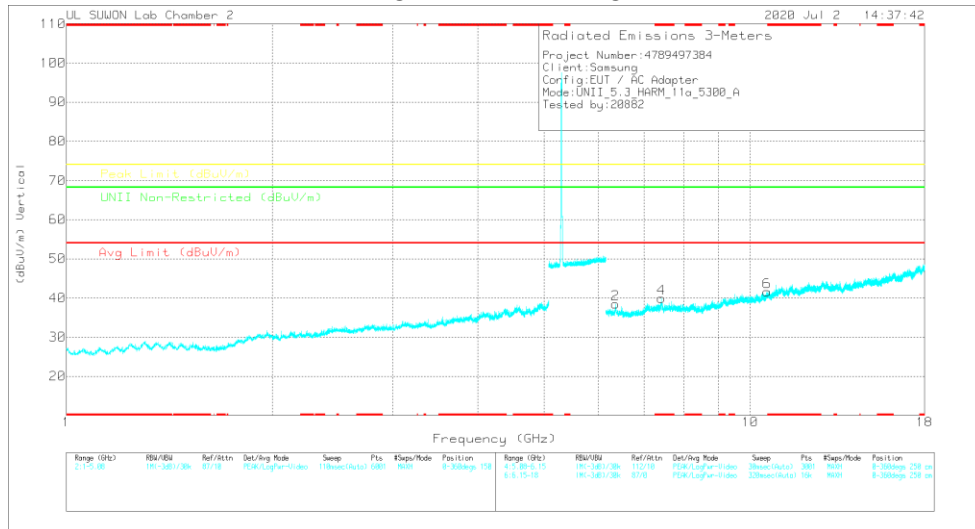
PK-U - U-NII: Maximum Peak

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

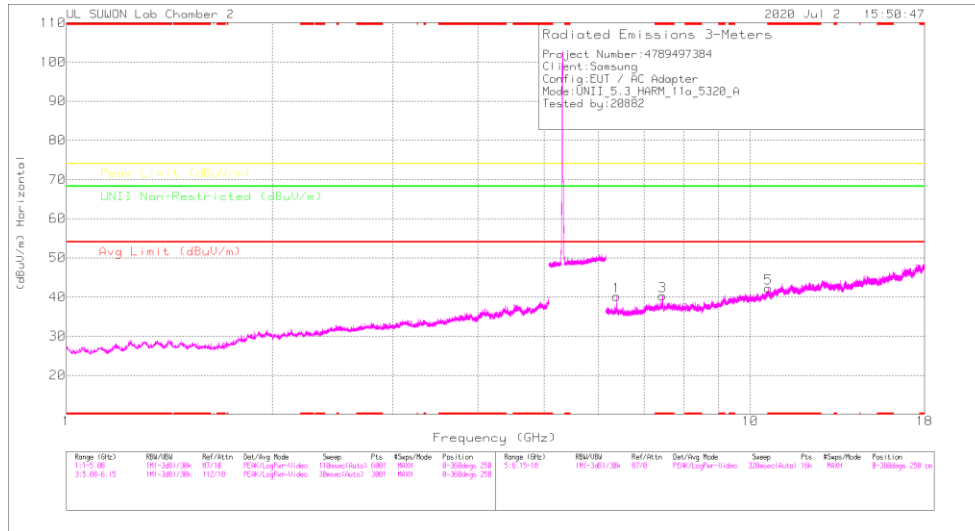
Frequency (GHz)	Meter Reading (dBuV)	Det	317_00168724	6GHz_HPSDR	DC Corr (dB)	Concord Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
6.36046	40.3	PK-U	35.2	-24.9	0	50.6	-	-	-	-	68.2	-17.6	301	215	H
6.36034	38.47	PK-U	35.2	-24.9	0	48.77	-	-	-	-	68.2	-19.43	254	120	V
* 7.42459	39.69	PK-U	36.2	-24.2	0	51.69	-	-	74	-22.31	-	-	297	221	H
* 7.42487	29.03	ADR	36.2	-24.2	0	41.03	54	-12.97	-	-	-	-	297	221	H
* 7.42483	38.54	PK-U	36.2	-24.2	0	50.64	-	-	74	-23.36	-	-	298	101	V
* 7.41511	27.74	ADR	36.2	-24.3	0	39.64	54	-14.36	-	-	-	-	298	101	V
* 10.6021	36.03	PK-U	37.8	-19.2	0	54.63	-	-	74	-19.37	-	-	131	190	H
* 10.60182	23.84	ADR	37.8	-19.2	0	42.44	54	-11.56	-	-	-	-	131	190	H
* 10.60056	33.75	PK-U	37.8	-19.2	0	52.35	-	-	74	-21.65	-	-	214	111	V
* 10.6001	21.55	ADR	37.8	-19.2	0	40.15	54	-13.85	-	-	-	-	214	111	V

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

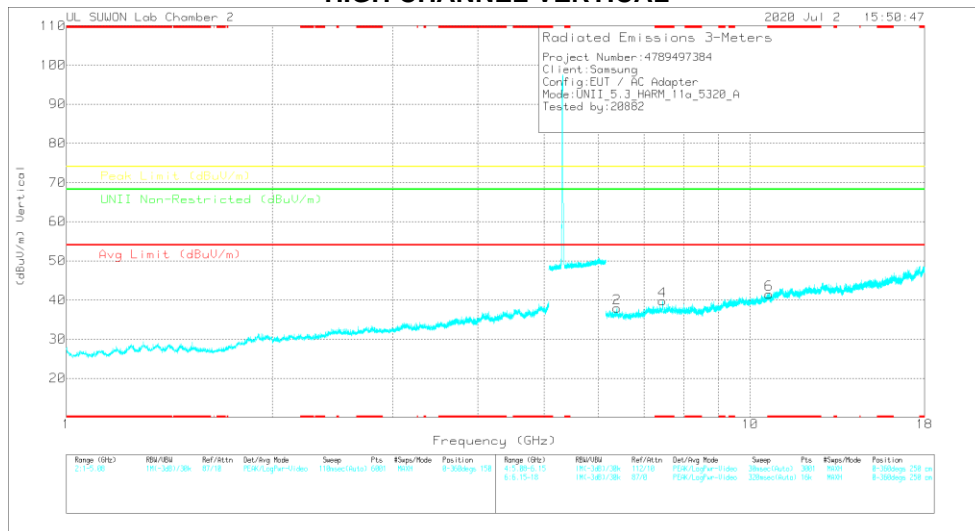
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_50168724	ISRL_HF(S)	DC Corr (dB)	Concord 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
6.38442	40.3	PK-U	36.2	-25.5	0	50	-	-	-	-	68.2	-18.2	246	191	H
6.38456	39.04	PK-U	36.2	-25.5	0	48.74	-	-	-	-	68.2	-19.46	244	120	V
* 7.45305	39.95	PK-U	36.2	-24.3	0	51.86	-	-	74	-22.14	-	-	290	192	H
* 7.45297	28.41	ADR	36.2	-24.3	0	40.31	54	-13.69	-	-	-	-	290	192	H
* 7.44313	38.87	PK-U	36.2	-24.2	0	50.87	-	-	74	-23.13	-	-	292	101	V
* 7.45333	28.15	ADR	36.2	-24.3	0	40.05	54	-13.95	-	-	-	-	292	101	V
* 10.64175	33.82	PK-U	37.8	-19.4	0	52.22	-	-	74	-21.78	-	-	355	101	H
* 10.64207	21.5	ADR	37.8	-19.4	0	39.9	54	-14.1	-	-	-	-	355	101	H
* 10.62519	33.15	PK-U	37.8	-19.4	0	51.55	-	-	74	-22.45	-	-	246	105	V
* 10.63575	21.01	ADR	37.8	-19.4	0	39.41	54	-14.59	-	-	-	-	246	105	V

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

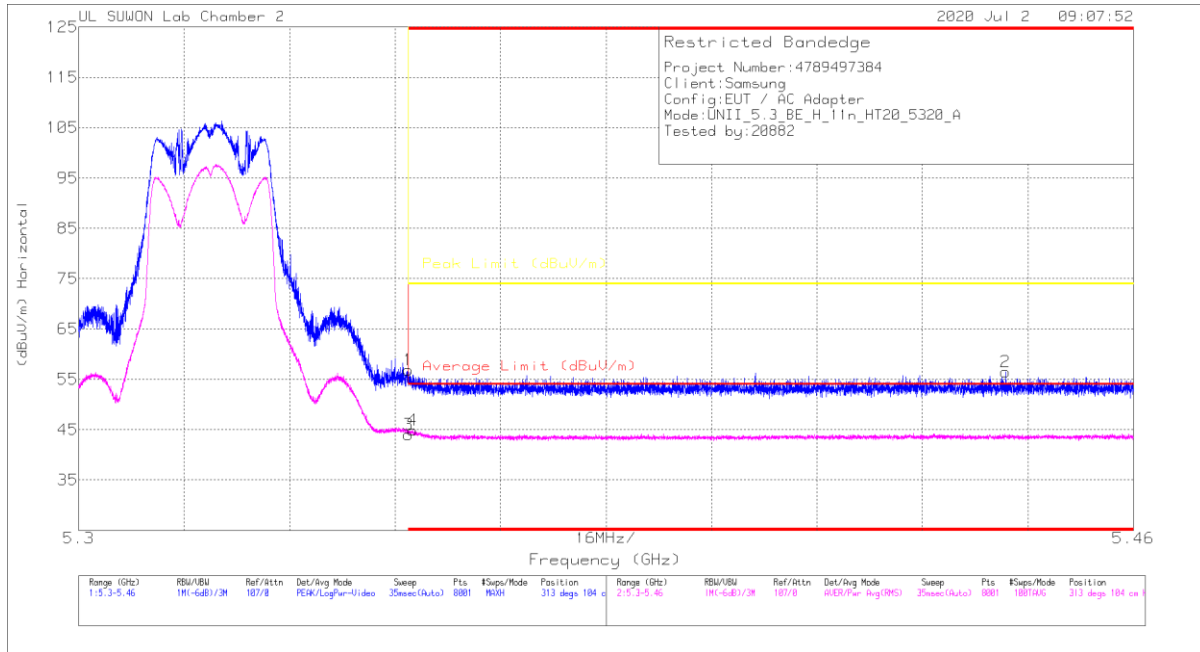
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2.2.TX ABOVE 1GHz 802.11n HT20 2Tx MODE IN THE 5.3GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

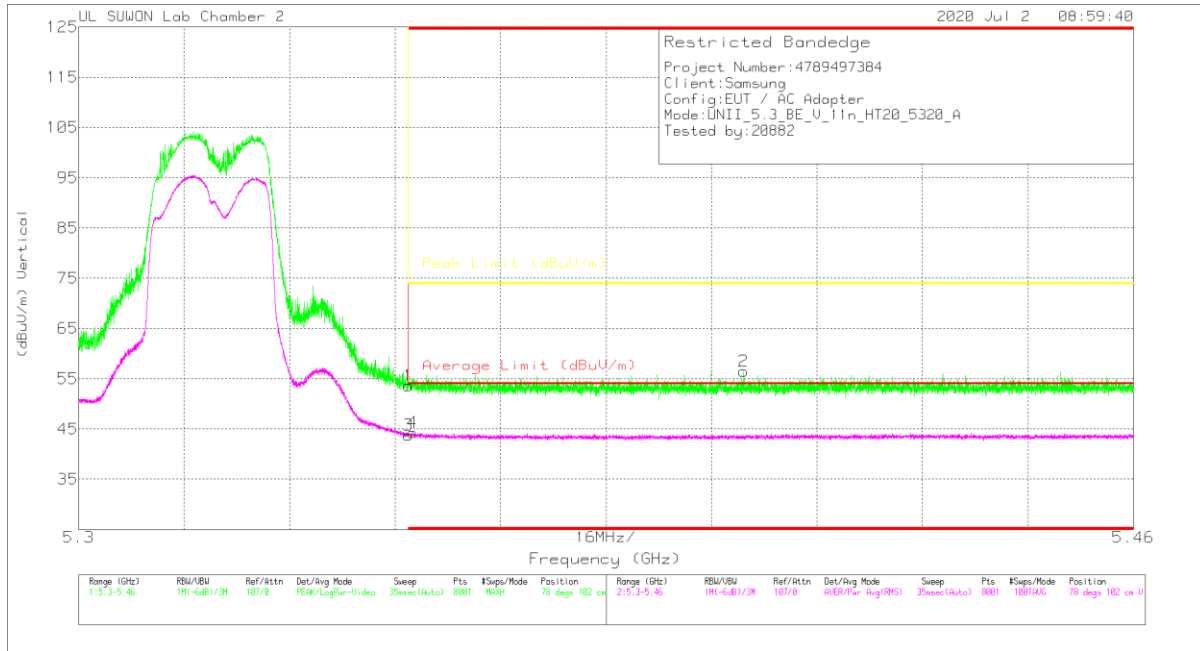
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35002	40.49	Pk	34.5	-18.1	0	56.89	-	-	74	-17.11	313	104	H
2	* 5.44064	40.09	Pk	34.5	-18.1	0	56.49	-	-	74	-17.51	313	104	H
3	* 5.35002	27.67	RMS	34.5	-18.1	0	44.07	54	-9.93	-	-	313	104	H
4	* 5.35066	28.44	RMS	34.5	-18.1	0	44.84	54	-9.16	-	-	313	104	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE DATA



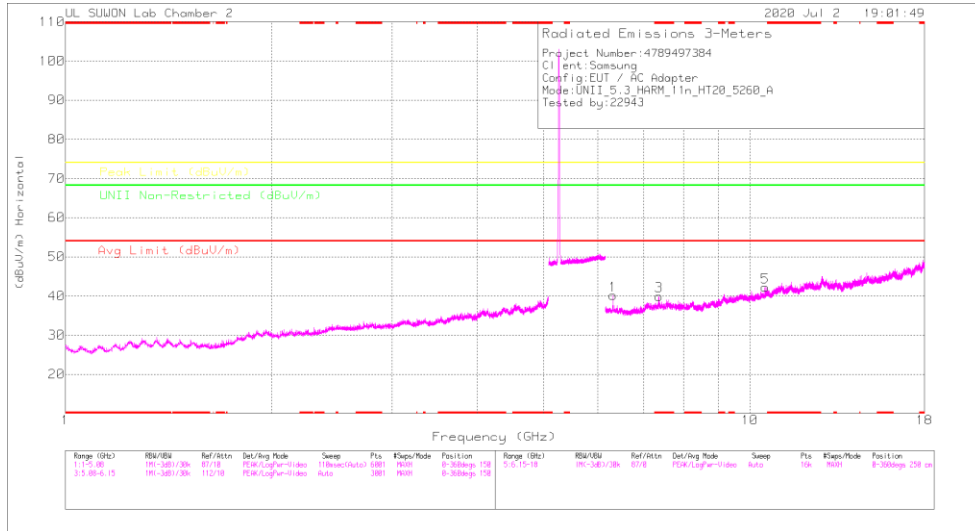
Trace Markers

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	37.18	Pk	34.5	-18.1	0	53.88	-	-	74	-20.42	78	102	V
2	* 5.4009	40.22	Pk	34.5	-18.2	0	56.52	-	-	74	-17.48	78	102	V
3	* 5.35002	27.42	RMS	34.5	-18.1	0	43.82	54	-10.18	-	-	78	102	V
4	* 5.35064	27.88	RMS	34.5	-18.1	0	44.28	54	-9.72	-	-	78	102	V

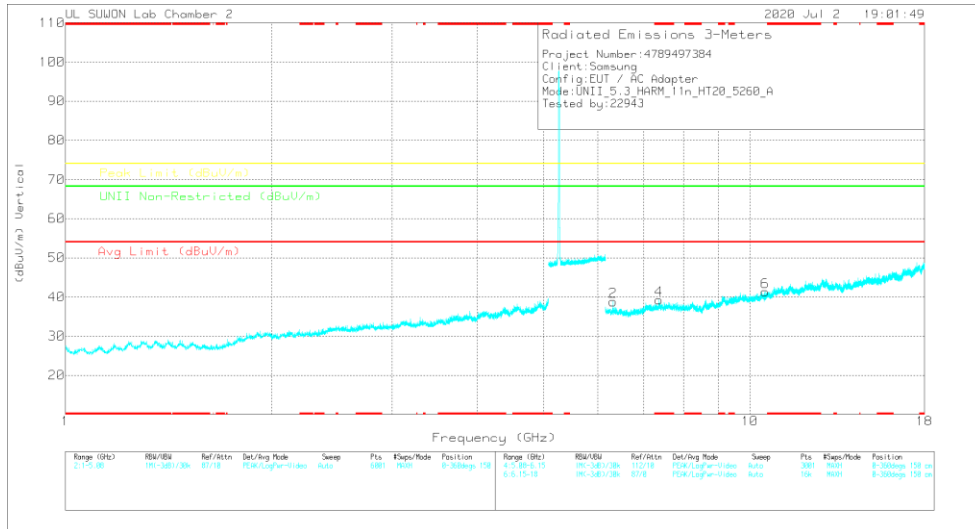
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

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

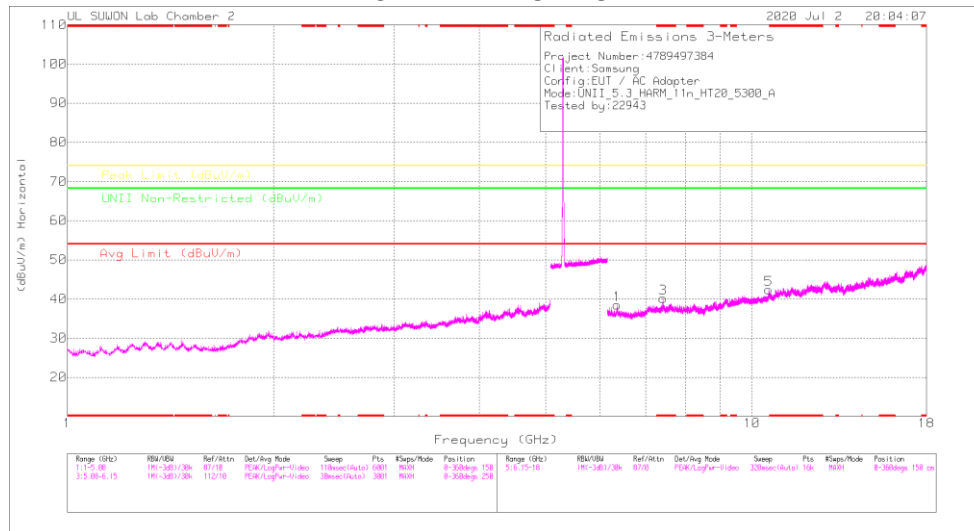
Frequency (GHz)	Marker Reading (dBm)	Det	3117_00168724	6GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (m)	Polarity
6.31225	41.43	PK-U	35.2	-25.3	0	51.33	-	-	-	-	68.2	-16.87	297	208	H
6.31212	39.74	PK-U	35.2	-25.3	0	49.64	-	-	-	-	68.2	-18.56	244	100	V
* 7.36293	39.97	PK-U	36.2	-24.6	0	51.57	-	-	74	-22.43	-	-	294	186	H
* 7.36289	28.84	ADR	36.2	-24.6	0	40.44	54	-13.56	-	-	-	-	294	186	H
* 7.36496	39.78	PK-U	36.2	-24.5	0	51.48	-	-	74	-22.52	-	-	290	100	V
* 7.36474	28.07	ADR	36.2	-24.5	0	39.77	54	-14.23	-	-	-	-	290	100	V
10.52218	34.87	PK-U	37.7	-20.3	0	52.27	-	-	-	-	68.2	-15.93	253	134	H
10.51688	34.22	PK-U	37.7	-20.4	0	51.52	-	-	-	-	68.2	-16.68	203	102	V

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

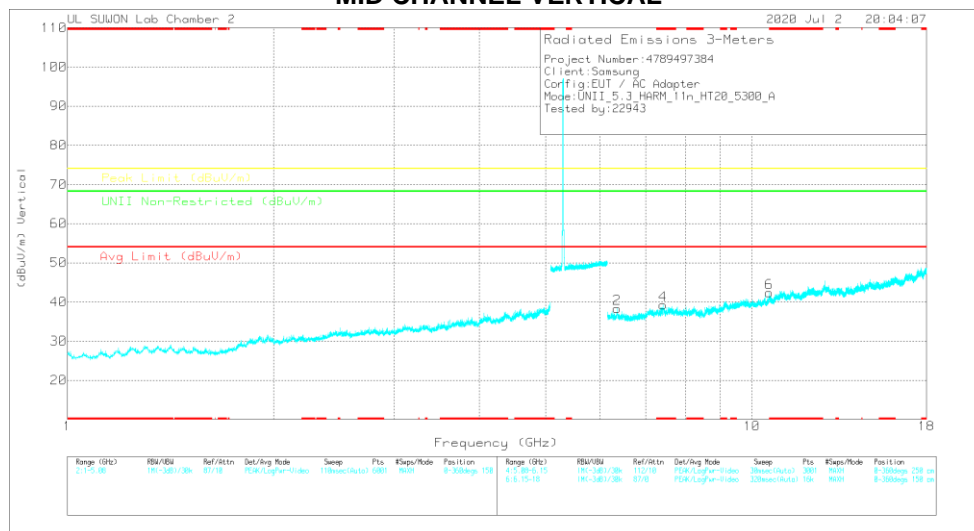
PK-U - U-NII: Maximum Peak

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

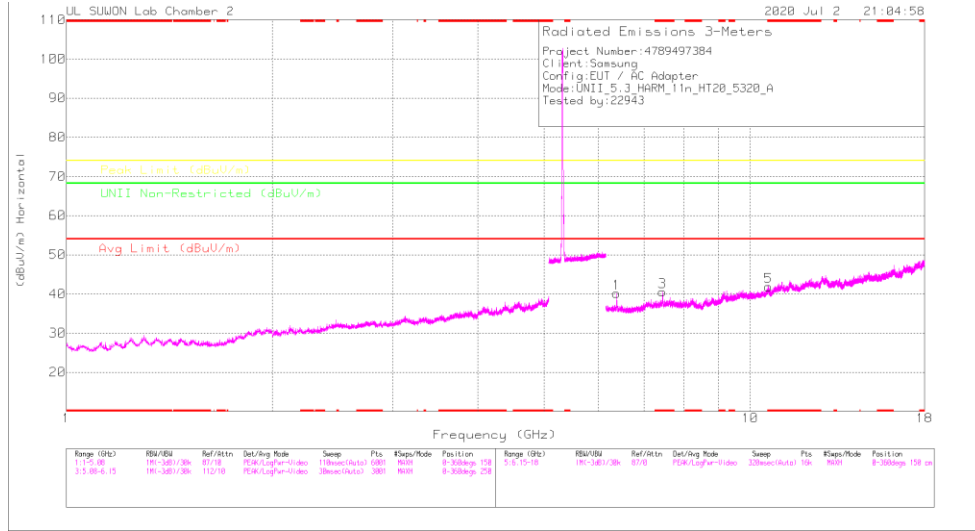
Frequency (GHz)	Meas Reading (dBm)	Det	317_0016B724	6GHz_HPSDR	DC Corr (dB)	Consolidated Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asmth (Deg)	Height (cm)	Polarity
6.36122	39.9	PK-U	36.2	-24.9	0	50.1	-	-	-	-	68.2	-18.1	244	183	H
6.36172	38.61	PK-U	36.2	-24.9	0	48.91	-	-	-	-	68.2	-18.29	249	107	V
* 7.41824	38.51	PK-U	36.2	-24.2	0	50.51	-	-	74	-23.49	-	-	302	176	H
* 7.41848	27.37	ADR	36.2	-24.2	0	39.37	54	-14.63	-	-	-	-	302	176	H
* 7.42053	38.72	PK-U	36.2	-24.2	0	50.72	-	-	74	-23.28	-	-	294	114	V
* 7.42097	27.26	ADR	36.2	-24.2	0	39.26	54	-14.74	-	-	-	-	294	114	V
* 10.6096	33.88	PK-U	37.8	-19.2	0	52.88	-	-	74	-21.52	-	-	180	141	H
* 10.60228	22.06	ADR	37.8	-19.2	0	40.06	54	-13.34	-	-	-	-	180	141	H
* 10.60897	33.25	PK-U	37.8	-19.2	0	51.85	-	-	74	-22.15	-	-	339	101	V
* 10.60258	21.47	ADR	37.8	-19.2	0	40.07	54	-13.93	-	-	-	-	339	101	V

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

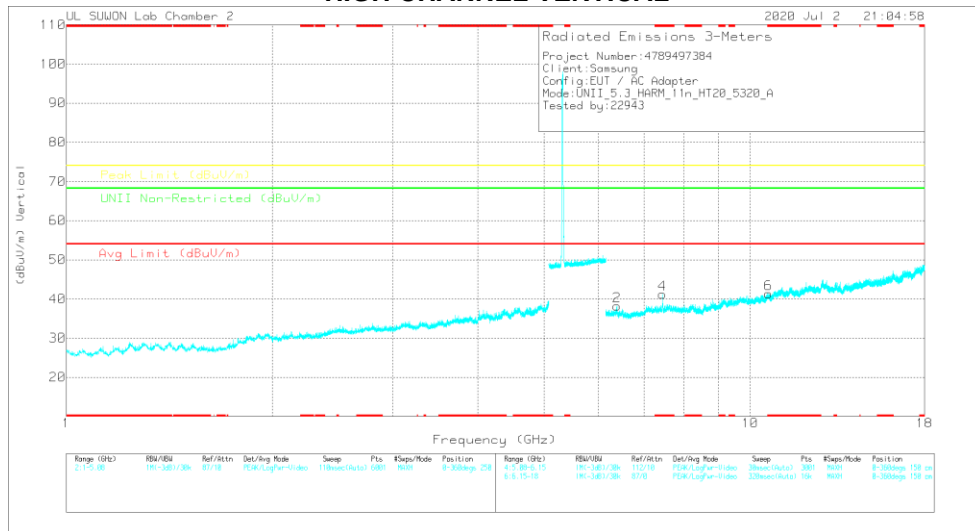
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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 (dBm)	Det	317_00168724	6GHz_HPSB	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Peak Limit (dBm)	Margin (dB)	UNII Non-Restricted (dBm)	Margin (dB)	Asmth (dEqs)	Height (cm)	Polarity
6.36468	40.28	PK-U	36.2	-25.5	0	49.98	-	-	-	-	68.2	-18.22	245	100	H
6.38588	39.11	PK-U	35.2	-25.5	0	48.81	-	-	-	-	68.2	-19.39	247	102	V
* 7.44602	40.38	PK-U	36.2	-24.3	0	52.28	-	-	74	-21.72	-	-	283	215	H
* 7.44684	29.29	ADR	36.2	-24.3	0	41.19	54	-12.81	-	-	-	-	293	215	H
* 7.44932	39.53	PK-U	36.2	-24.3	0	51.43	-	-	74	-22.57	-	-	281	109	V
* 7.44916	28.39	ADR	36.2	-24.3	0	40.29	54	-13.71	-	-	-	-	281	109	V
* 10.63172	34.29	PK-U	37.8	-19.4	0	52.69	-	-	74	-21.31	-	-	251	150	H
* 10.64195	22.2	ADR	37.8	-19.4	0	40.8	54	-13.4	-	-	-	-	251	150	H
* 10.64284	33.86	PK-U	37.8	-19.4	0	52.26	-	-	74	-21.74	-	-	341	104	V
* 10.64288	21.47	ADR	37.8	-19.4	0	39.87	54	-14.13	-	-	-	-	341	104	V

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

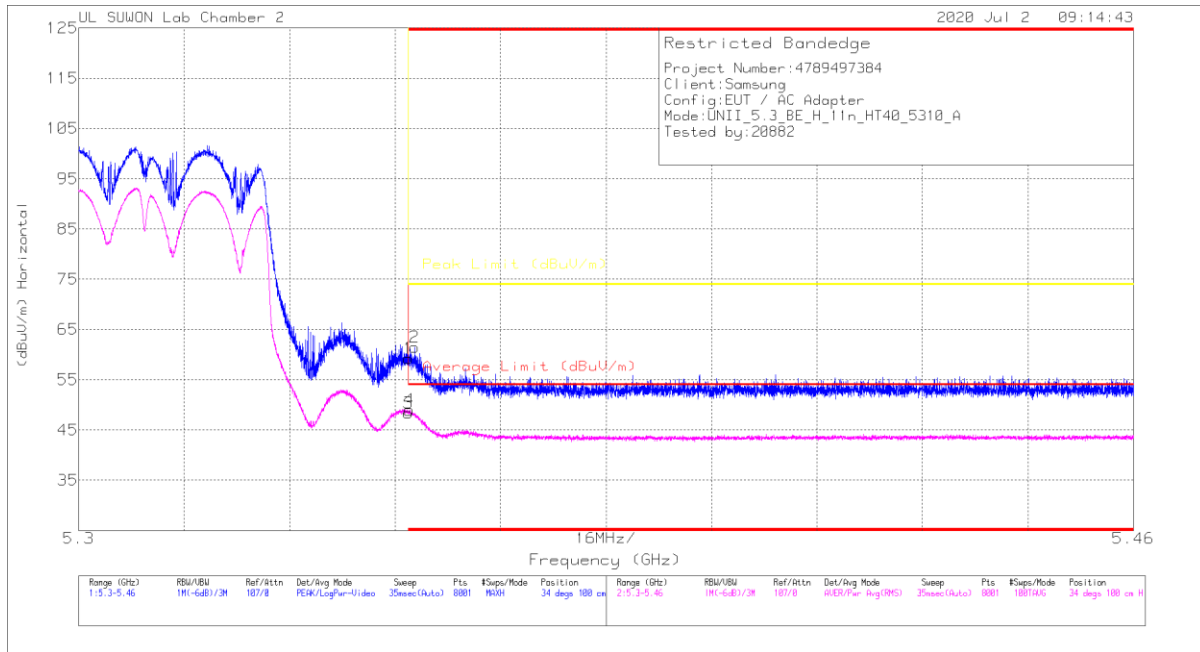
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2.3. TX ABOVE 1GHz 802.11n HT40 2Tx MODE IN THE 5.3GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

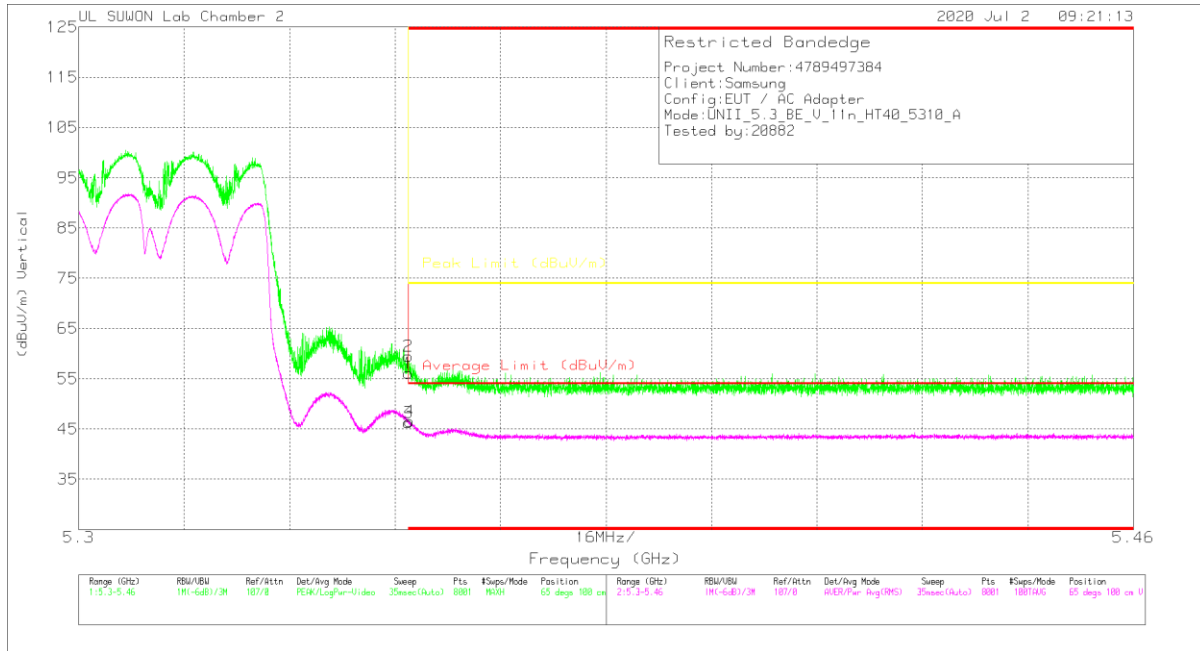


Trace Markers

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	42.81	Pk	34.5	-18.1	0	59.21	-	-	74	-14.79	34	100	H
2	* 5.35096	45.03	Pk	34.5	-18.1	0	61.43	-	-	74	-12.57	34	100	H
3	* 5.35002	31.99	RMS	34.5	-18.1	0	48.39	54	-5.61	-	-	34	100	H
4	* 5.35014	32.55	RMS	34.5	-18.1	0	48.95	54	-5.05	-	-	34	100	H

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

VERTICAL PEAK AND AVERAGE DATA



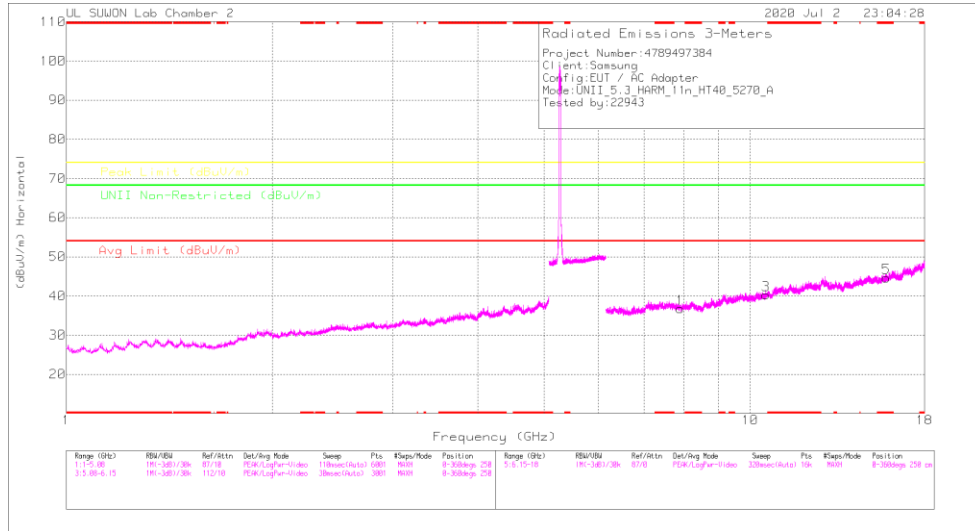
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_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	39.76	Pk	34.5	-18.1	0	58.16	-	-	74	-17.84	65	100	V
2	* 5.35004	43.06	Pk	34.5	-18.1	0	59.46	-	-	74	-14.54	65	100	V
3	* 5.35002	29.89	RMS	34.5	-18.1	0	46.29	54	-7.71	-	-	65	100	V
4	* 5.35018	30.12	RMS	34.5	-18.1	0	46.52	54	-7.48	-	-	65	100	V

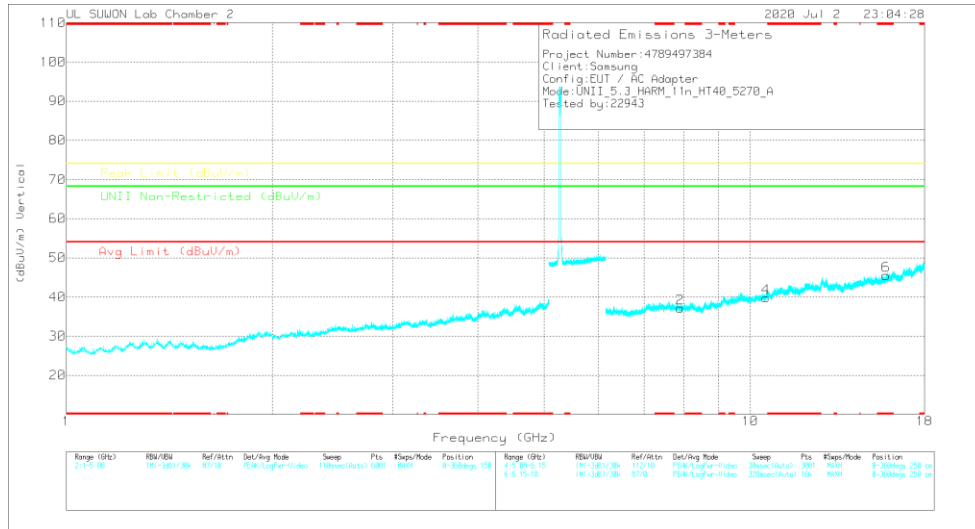
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

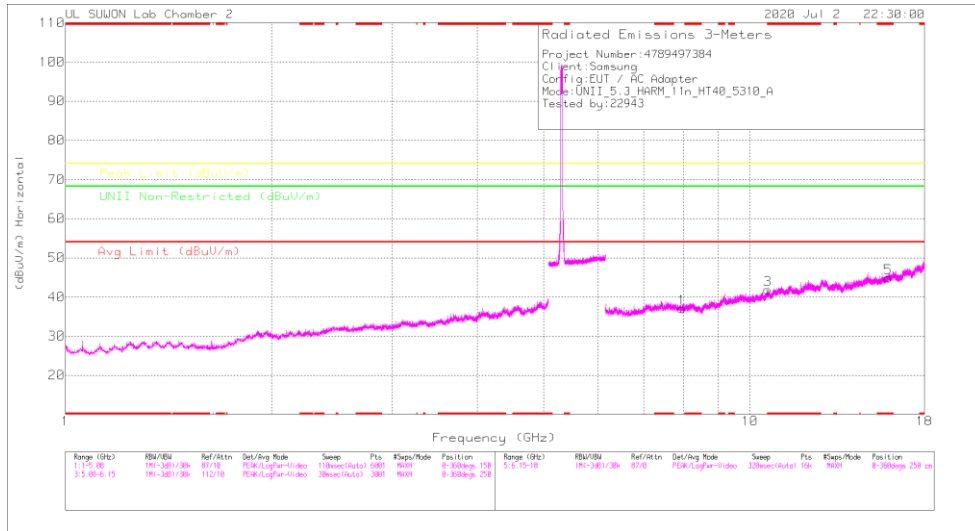
LOW CHANNEL DATA

Radiated Emissions

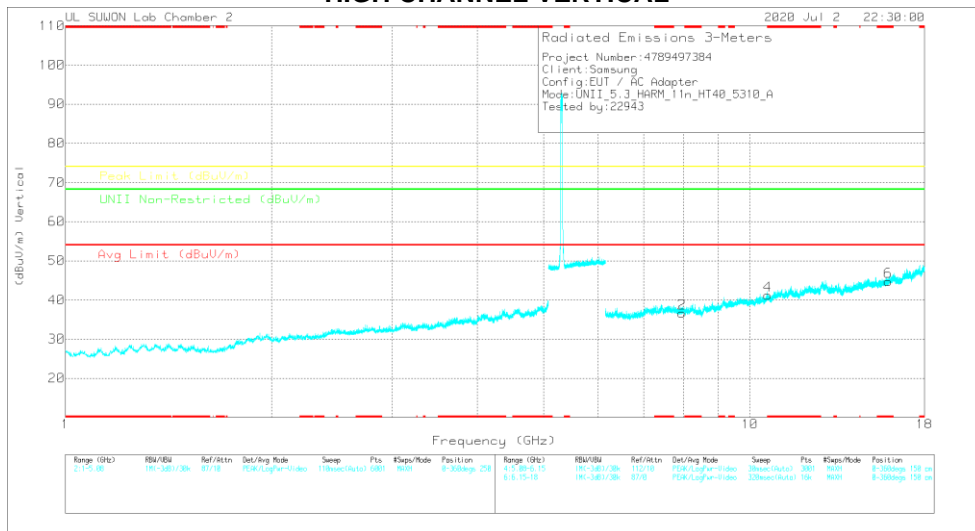
Frequency (GHz)	Max Reading (dBuV)	Det	217_20160724	@GHz_HF@dB	OC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Meters)	Height (cm)	Polarity
7.90563	36.16	PK-U	35.9	-24	0	48.06	-	-	-	-	68.2	-20.14	360	100	H
7.90561	36.38	PK-U	35.9	-24	0	48.28	-	-	-	-	68.2	-19.92	360	100	V
10.53903	33.51	PK-U	37.7	-20.2	0	51.01	-	-	-	-	68.2	-17.19	360	100	H
10.53917	33.25	PK-U	37.7	-20.2	0	50.75	-	-	-	-	68.2	-17.45	360	100	V
* 15.81122	35.05	PK-U	40.4	-19.7	0	55.75	-	-	74	-18.25	-	-	360	100	H
* 15.80872	34.55	PK-U	40.4	-19.7	0	55.25	-	-	74	-18.75	-	-	360	100	V

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

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	317_00168724	6GHz_HPS(B)	DC Corr (dB)	Consolid Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Feet)	Height (cm)	Polarity
7.96701	35.75	PK-U	35.9	-23.6	0	48.05	-	-	-	-	68.2	-20.15	360	100	H
7.9633	36.16	PK-U	35.9	-23.6	0	48.46	-	-	-	-	68.2	-19.74	360	100	V
* 10.62006	33.57	PK-U	37.8	-19.3	0	52.07	-	-	74	-21.93	-	-	360	100	H
* 10.61981	32.92	PK-U	37.8	-19.3	0	51.42	-	-	74	-22.58	-	-	360	100	V
* 15.92929	34.04	PK-U	40.5	-19.3	0	55.24	-	-	74	-18.76	-	-	360	100	H
* 15.93156	34.38	PK-U	40.5	-19.4	0	55.48	-	-	74	-18.52	-	-	360	100	V

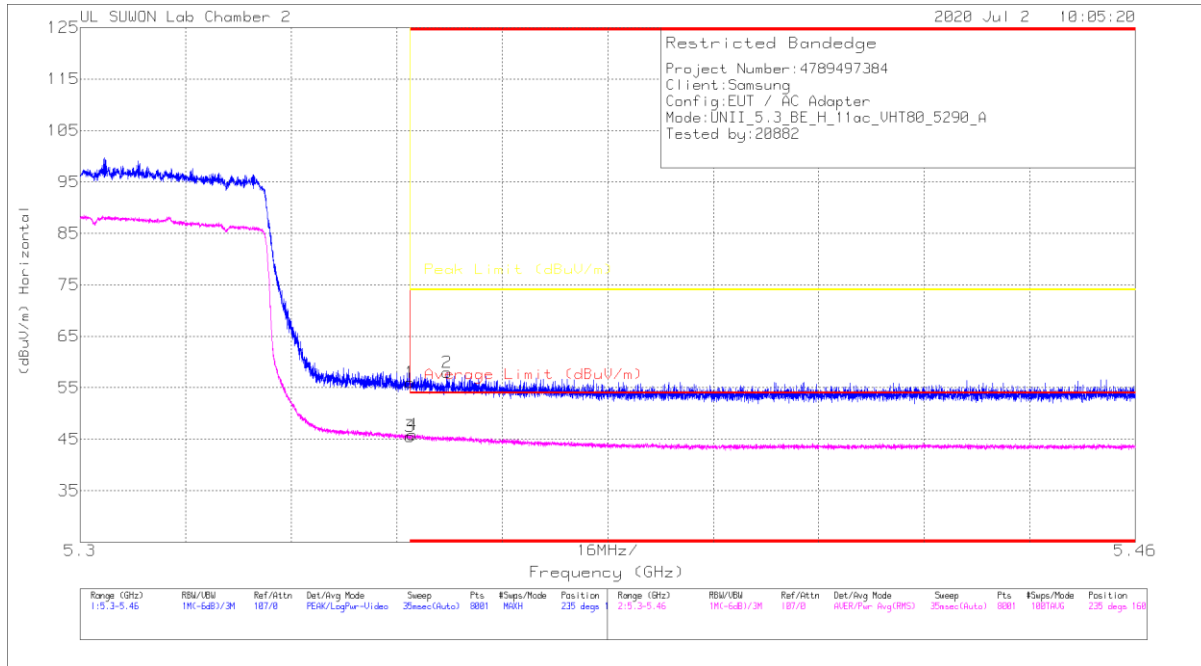
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

11.2.4. TX ABOVE 1GHz 802.11ac VHT80 2Tx MODE IN THE 5.3GHz BAND

RESTRICTED BANDEDGE (High CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA

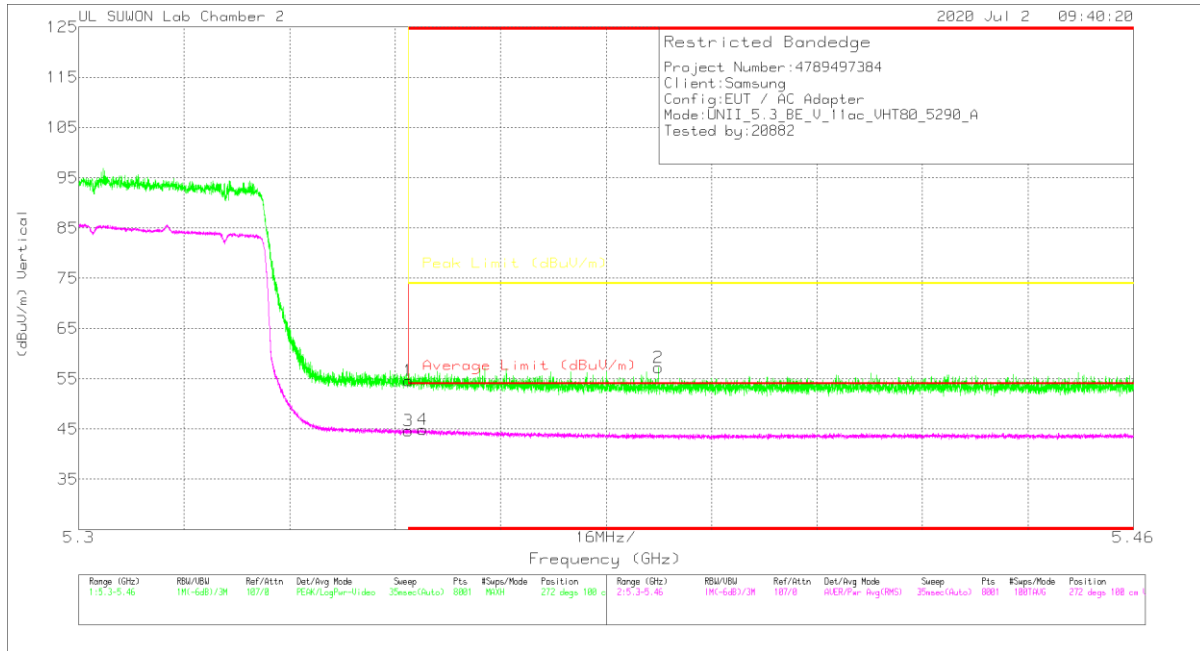


Trace Markers

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	39.61	Pk	34.5	-18.1	0	56.01	-	-	74	-17.99	235	160	H
2	* 5.35564	41.06	Pk	34.5	-18.2	0	57.96	-	-	74	-16.04	235	160	H
3	* 5.35002	29.13	RMS	34.5	-18.1	0	45.53	54	-8.47	-	-	235	160	H
4	* 5.35036	29.48	RMS	34.5	-18.1	0	45.88	54	-8.12	-	-	235	160	H

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

VERTICAL PEAK AND AVERAGE DATA



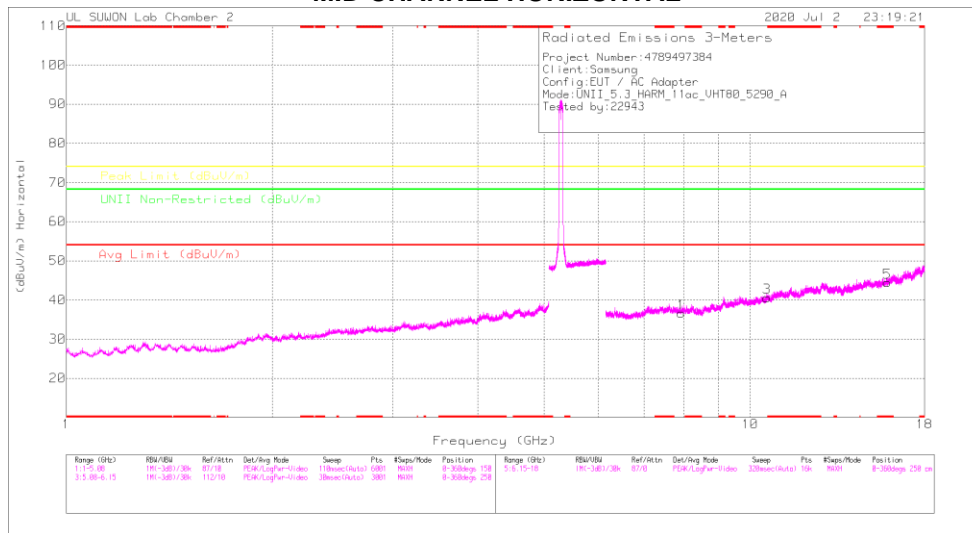
Trace Markers

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	38.22	Pk	34.5	-18.1	0	54.62	-	-	74	-19.38	272	100	V
2	* 5.38794	40.95	Pk	34.5	-18.2	0	57.25	-	-	74	-16.75	272	100	V
3	* 5.35002	28.22	RMS	34.5	-18.1	0	44.62	54	-9.38	-	-	272	100	V
4	* 5.3522	28.53	RMS	34.5	-18.1	0	44.93	54	-9.07	-	-	272	100	V

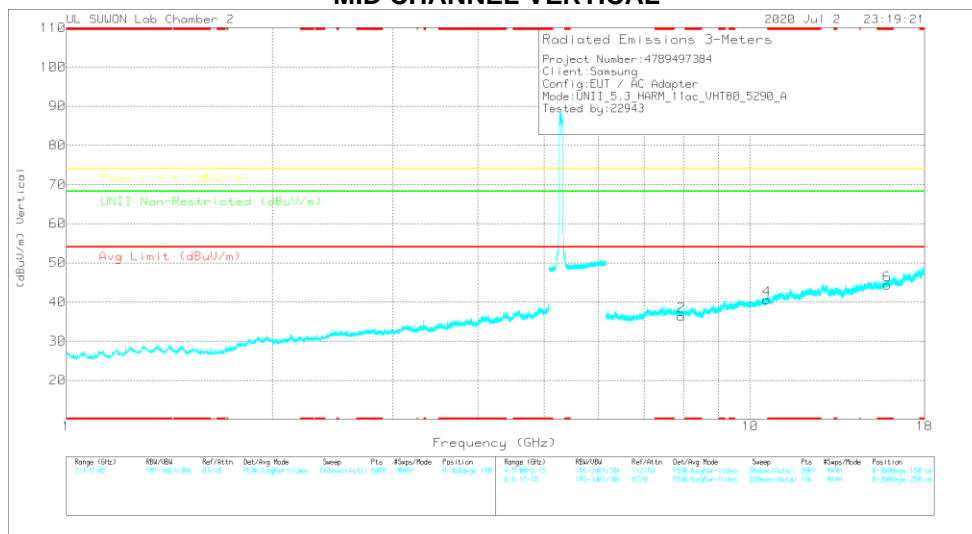
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

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)	Max Reading (dBuV)	Det	317_00168724	ISCH_HPSR	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Feet)	Height (cm)	Polarity
7.93619	35.87	PK-U	35.9	-23.7	0	48.07	-	-	-	-	68.2	-20.13	360	100	H
7.93632	35.9	PK-U	35.9	-23.7	0	48.1	-	-	-	-	68.2	-20.1	360	100	V
10.5799	32.99	PK-U	37.8	-19.5	0	51.29	-	-	-	-	68.2	-16.91	360	100	H
10.58063	33.02	PK-U	37.8	-19.5	0	51.32	-	-	-	-	68.2	-16.88	360	100	V
* 15.86896	35.38	PK-U	40.4	-19.7	0	56.08	-	-	74	-17.92	-	-	360	100	H
* 15.87168	34.42	PK-U	40.5	-19.7	0	55.22	-	-	74	-18.78	-	-	360	100	V

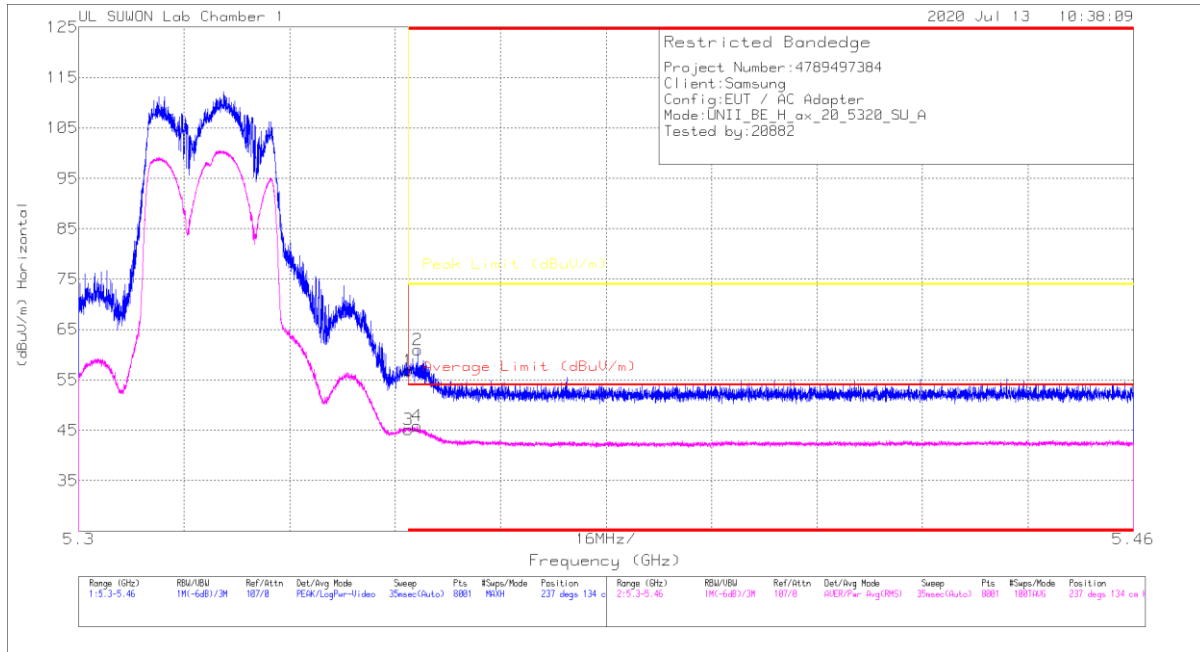
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

11.2.5.TX ABOVE 1GHz 802.11ax HE20 2Tx MODE IN THE 5.3GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Cor (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35002	43.75	Pk	34.7	-21.6	0	56.85	-	-	74	-17.15	237	134	H
2	* 5.35142	47.89	Pk	34.7	-21.6	0	60.99	-	-	74	-13.01	237	134	H
3	* 5.35002	32	RMS	34.7	-21.6	0	45.1	54	-8.9	-	-	237	134	H
4	* 5.35136	32.79	RMS	34.7	-21.6	0	45.89	54	-8.11	-	-	237	134	H

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

Pk - Peak detector

RMS - RMS detection