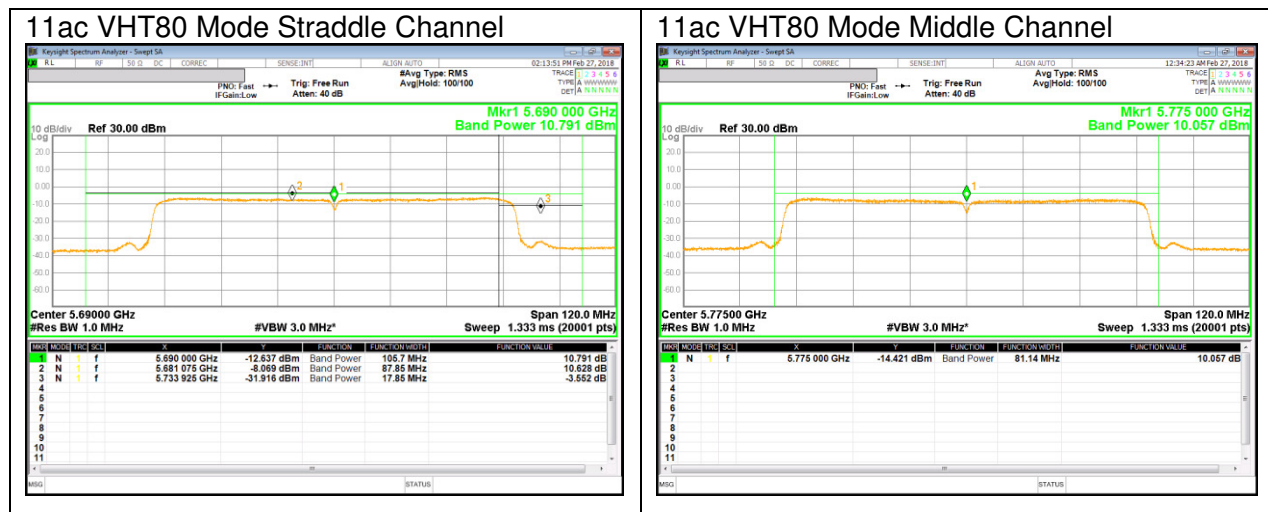
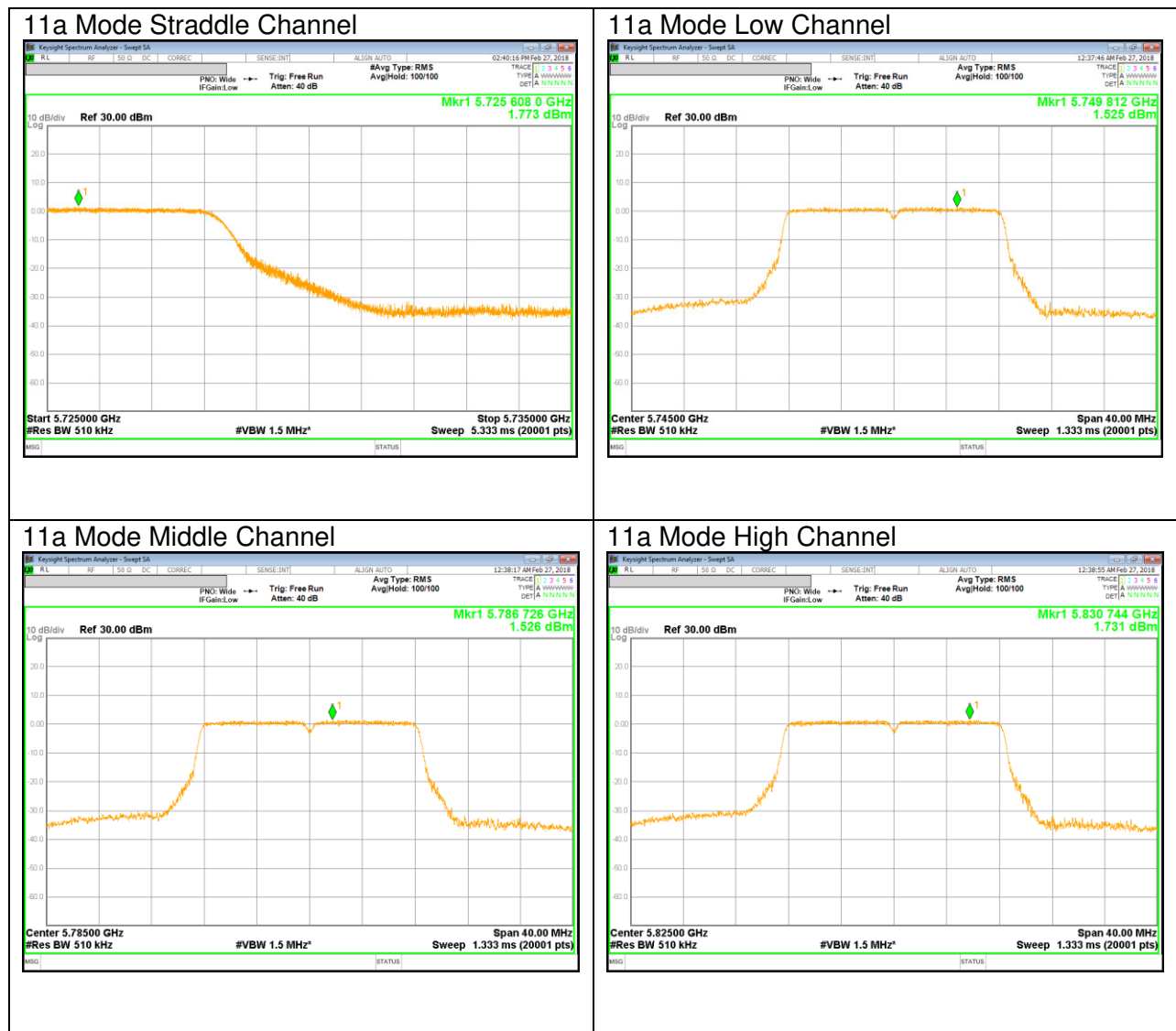


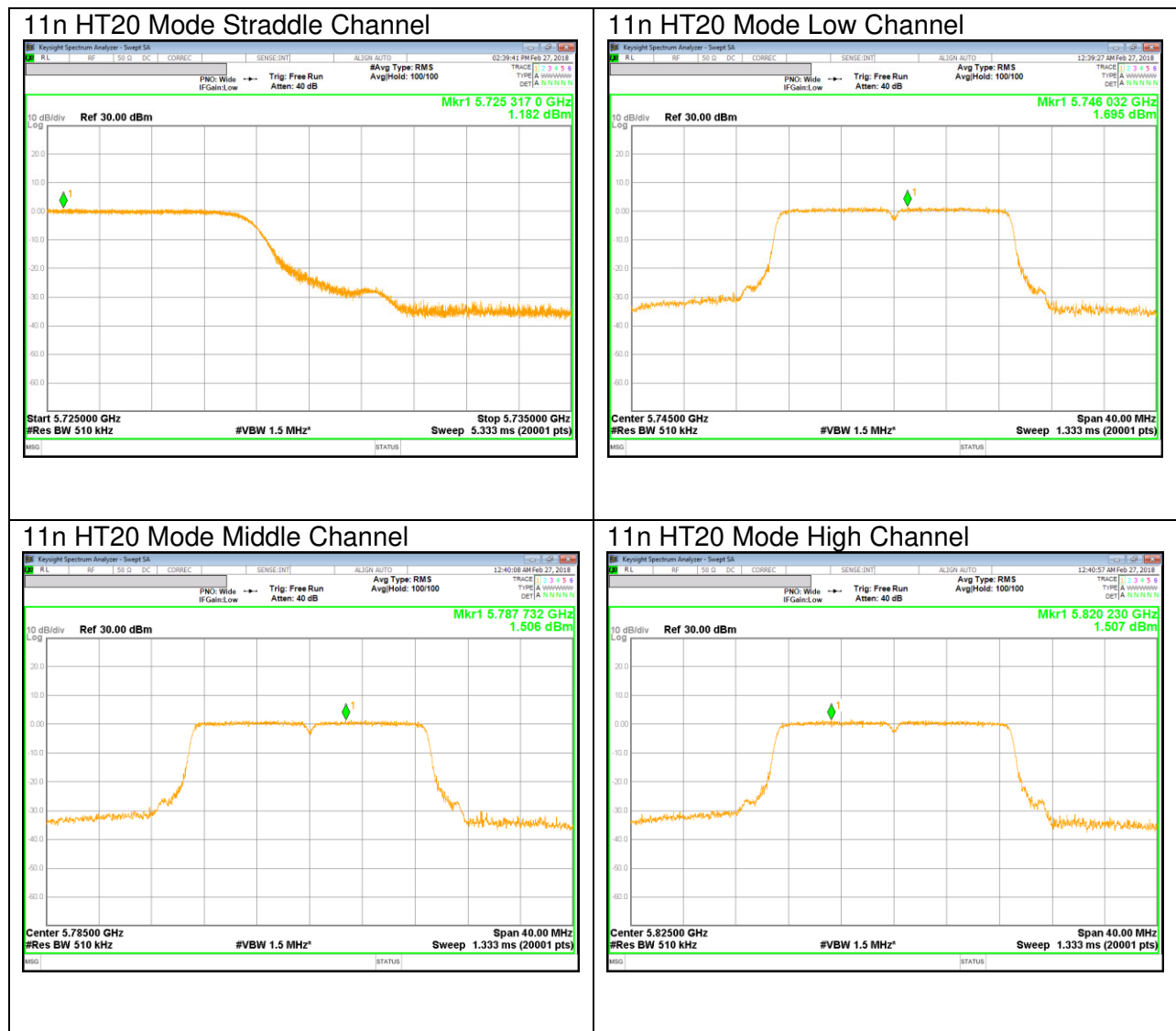
UNII 5.8 GHz IEEE 802.11ac VHT80 mode for POWER



UNII 5.8 GHz IEEE 802.11a mode for PSD

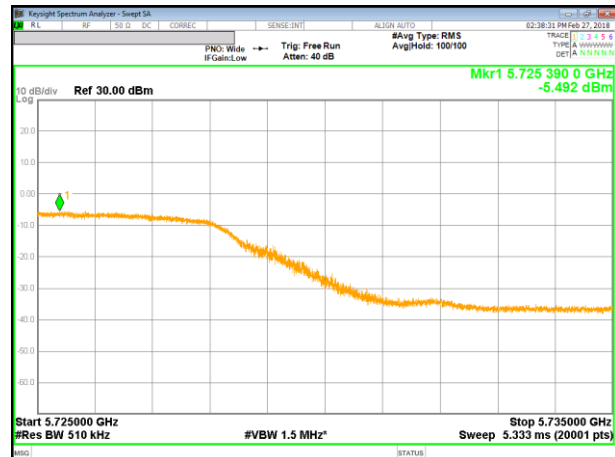


UNII 5.8 GHz IEEE 802.11n HT20 mode for PSD

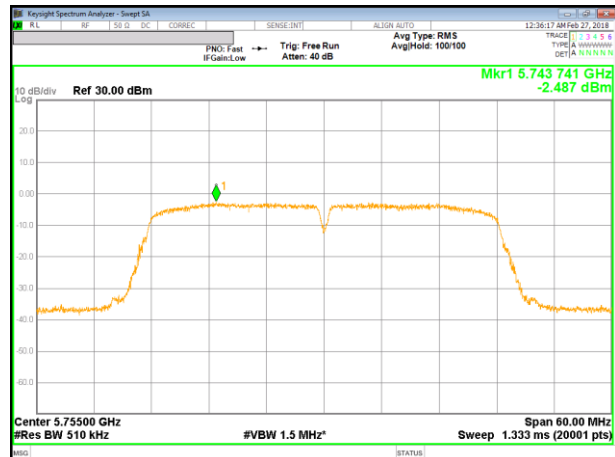


UNII 5.8 GHz IEEE 802.11n HT40 mode for PSD

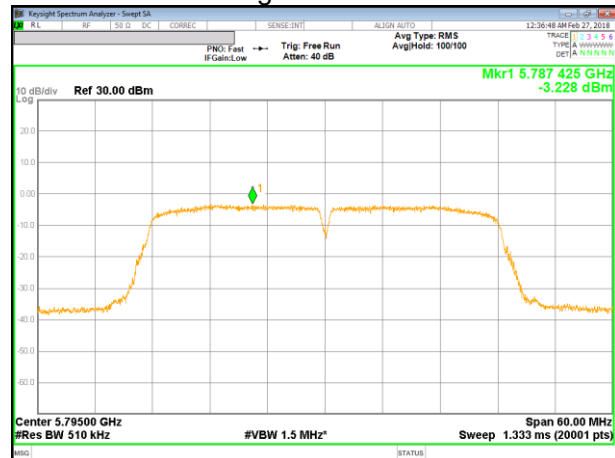
11n HT40 Mode Straddle Channel



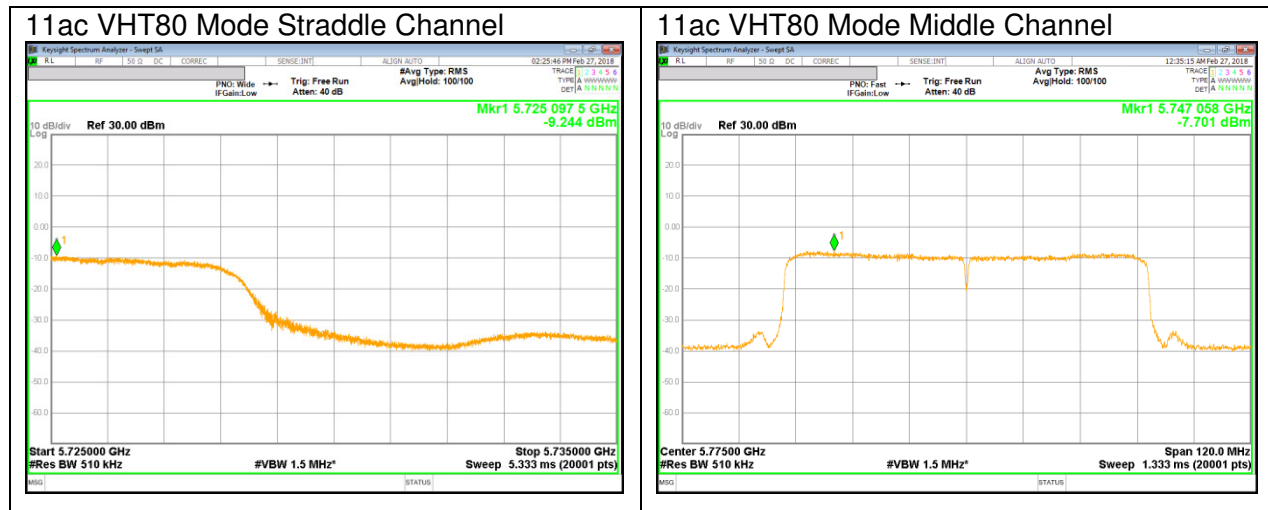
11n HT40 Mode Low Channel



11n HT40 Mode High Channel



UNII 5.8 GHz IEEE 802.11ac VHT80 mode for 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 §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 1 GHz 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 area test site, adequate comparison measurements were confirmed against 30 m open area test site.

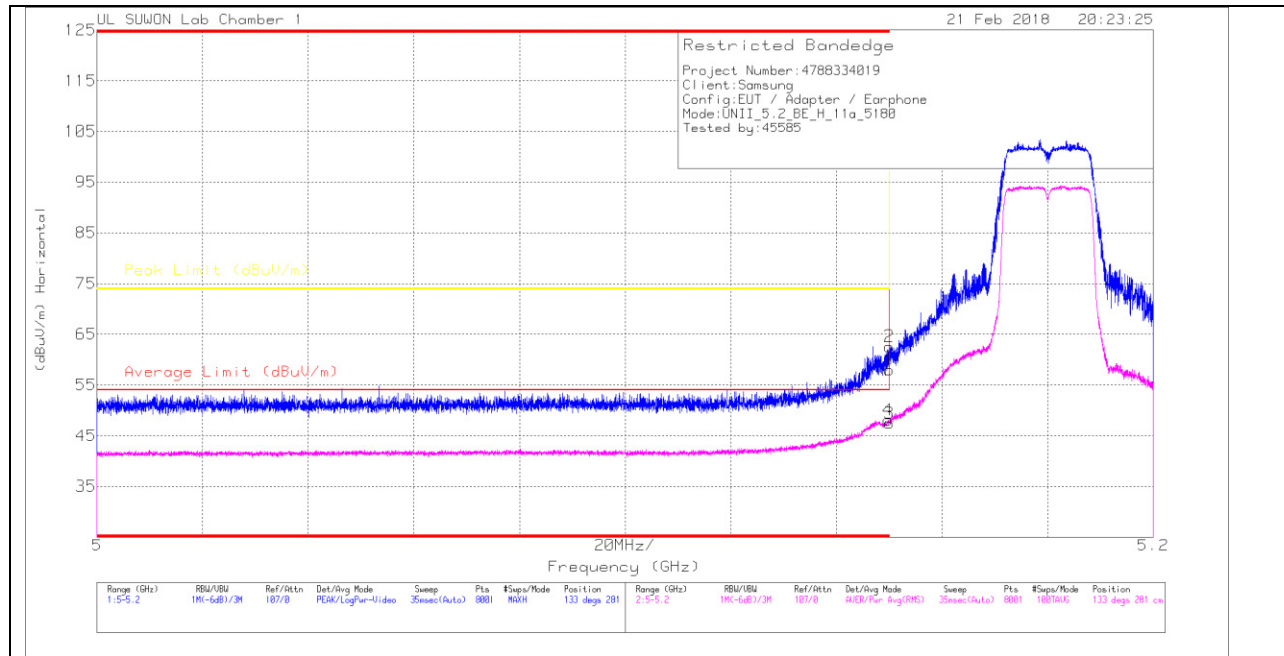
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

11.1. 5.2 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

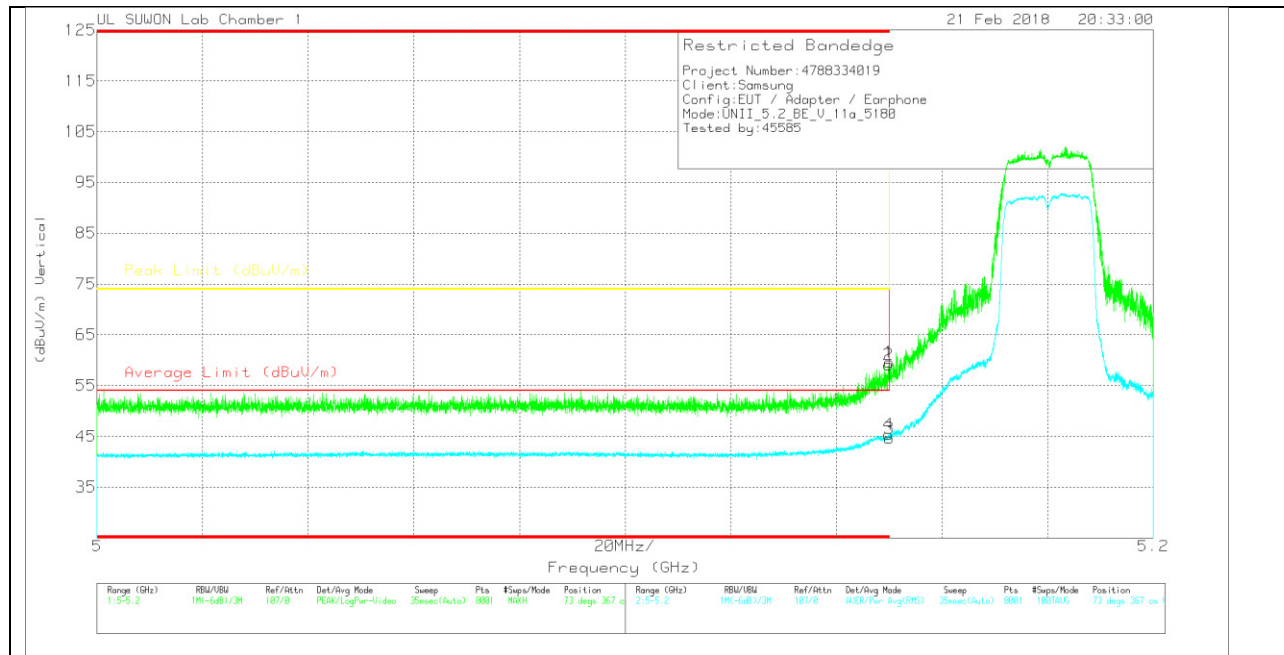
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (m)	Height (cm)	Polarity
1	5.15	45.95	Pk	34	-22	0	57.95	-	-	74	-16.05	133	281	H
2	* 5.15	50.63	Pk	34	-22	0	62.63	-	-	74	-11.37	133	281	H
3	5.15	35.35	RMS	34	-22	.12	47.47	54	-6.53	-	-	133	281	H
4	* 5.15	35.94	RMS	34	-22	.12	48.06	54	-5.94	-	-	133	281	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	47.66	Pk	34	-22	0	59.66	-	-	74	-14.34	73	367	V
2	* 5.15	47.13	Pk	34	-22	0	59.13	-	-	74	-14.87	73	367	V
3	5.15	32.52	RMS	34	-22	.12	44.64	54	-9.36	-	-	73	367	V
4	* 5.15	33.26	RMS	34	-22	.12	45.38	54	-8.62	-	-	73	367	V

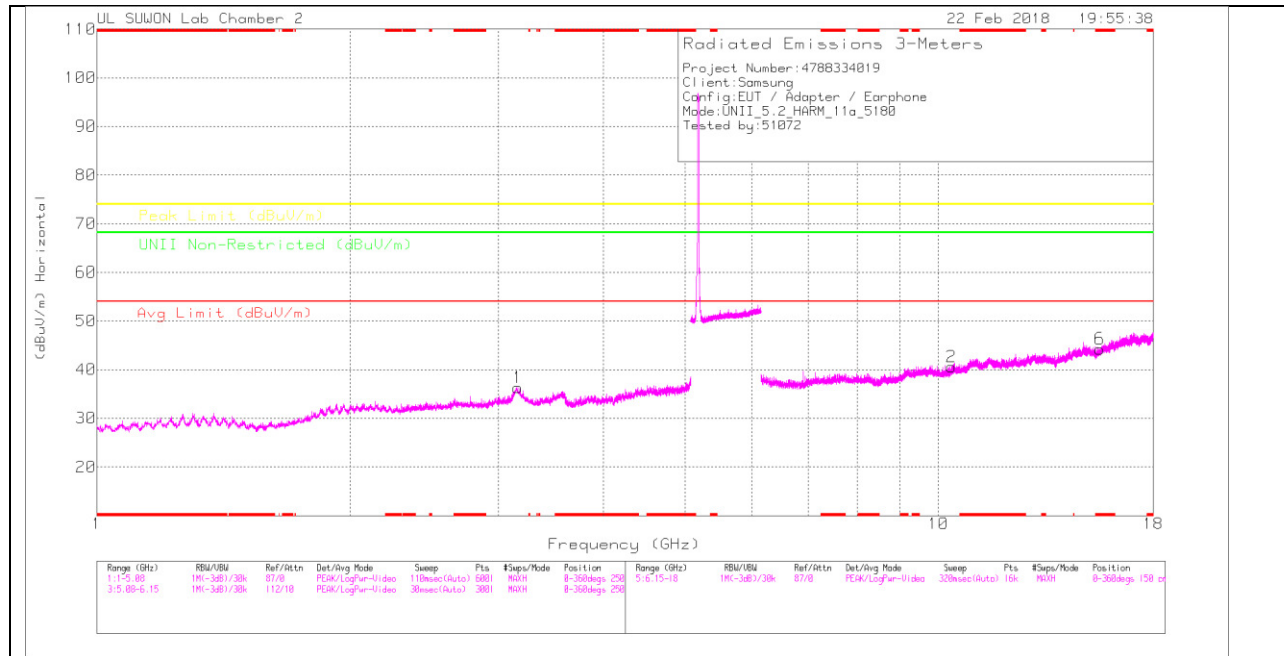
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

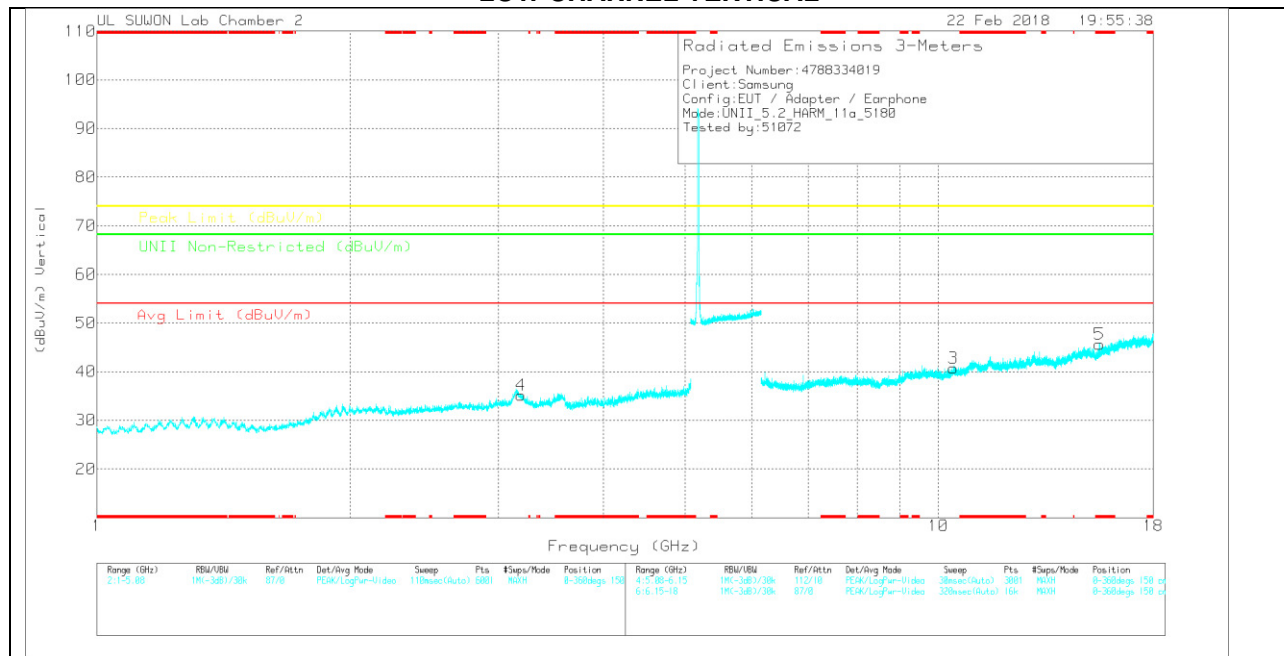
RMS - RMS detection

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

Trace Markers

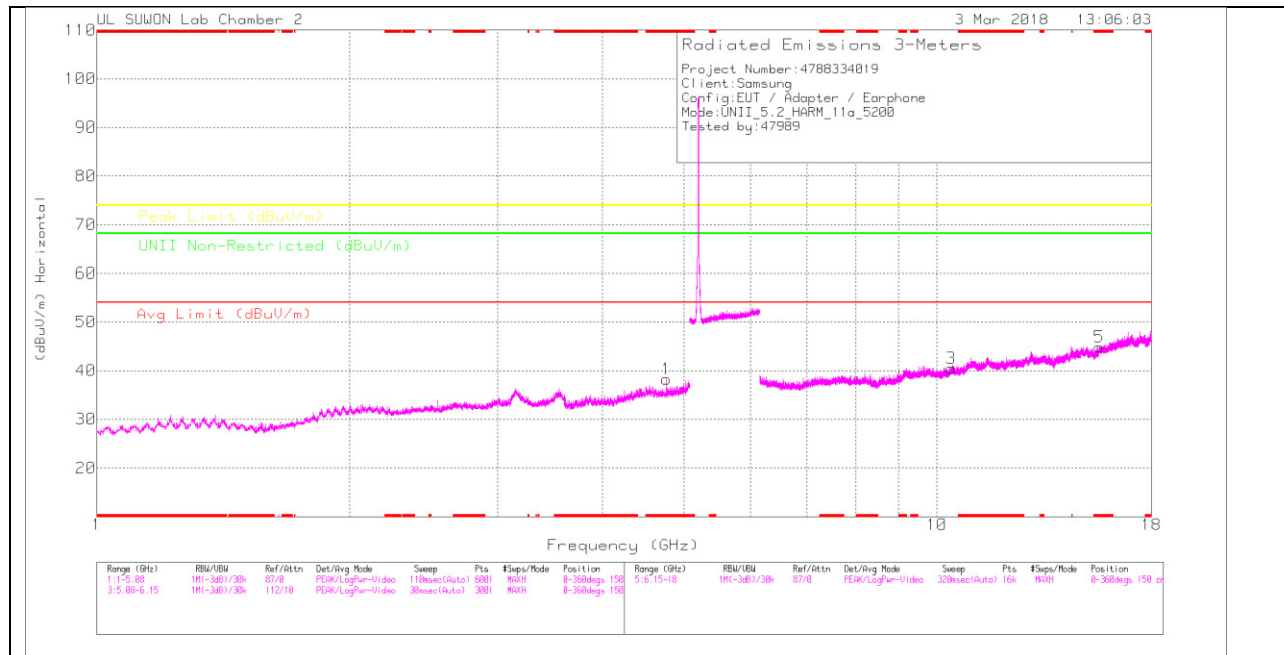
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117003887 24	5GHz_1P(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UL/Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	3.162	27.77	PK	34.5	-25.9	0	36.37	-	-	-	-	68.2	-31.83	0-360	151	H
4	3.19	27.18	PK	33.7	-25.7	0	35.18	-	-	-	-	68.2	-33.02	0-360	250	V
2	10.368	19.84	PK	37.5	-16.7	0	40.64	-	-	-	-	68.2	-27.56	0-360	150	H
6	* 15.541	18.87	PK	39.8	-14.4	0	44.27	-	-	74	-29.73	-	-	0-360	150	H
3	10.416	19.47	PK	37.5	-16.2	0	40.77	-	-	-	-	68.2	-27.43	0-360	250	V
5	* 15.535	20.46	PK	39.7	-14.5	0	45.66	-	-	74	-28.34	-	-	0-360	250	V

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

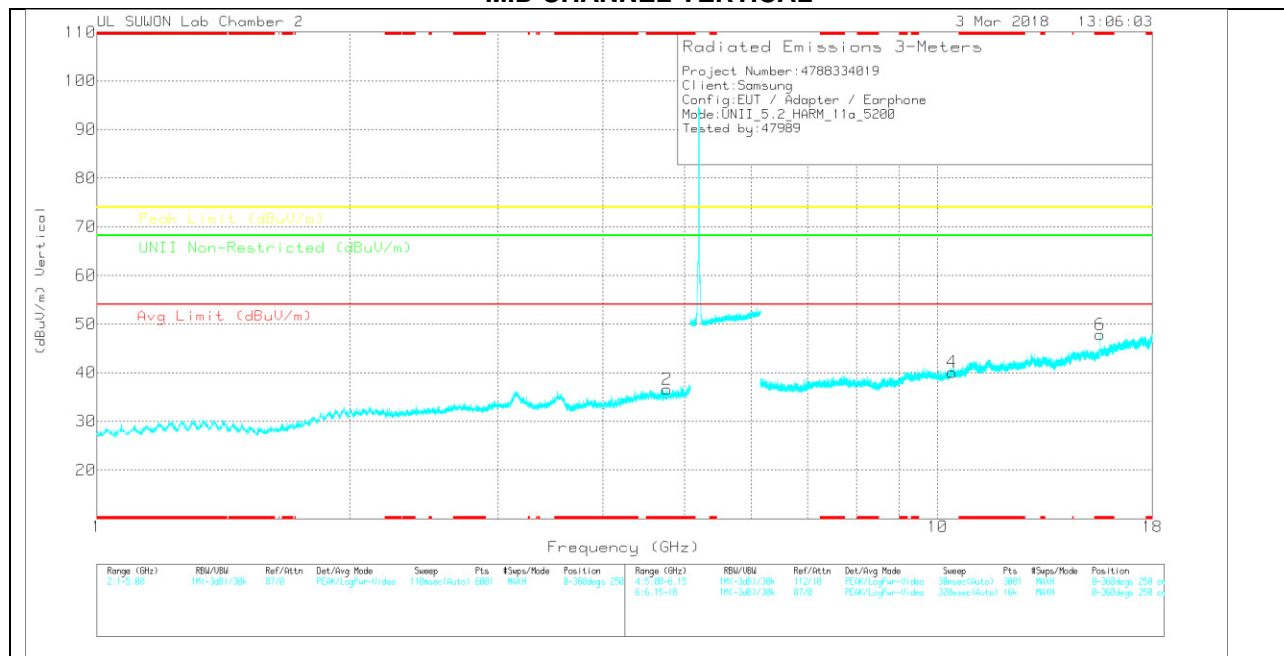
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

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

Trace Markers

Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	170531_3117001887 24	5GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	U-NII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.767	28.39	PK	33.7	-23.8	0	38.29	-	-	74	-35.71	-	-	0-360	250	H
2	* 4.767	26.74	PK	33.7	-23.9	0	36.54	-	-	74	-37.46	-	-	0-360	150	V
3	10.396	19.31	PK	37.5	-16.4	0	40.41	-	-	-	-	68.2	-27.79	0-360	150	H
5	* 15.596	19.64	PK	39.8	-14.6	0	44.84	-	-	74	-29.16	-	-	0-360	250	H
4	10.394	19.03	PK	37.5	-16.4	0	40.13	-	-	-	-	68.2	-28.07	0-360	150	V
6	* 15.599	22.57	PK	39.8	-14.5	0	47.87	-	-	74	-26.13	-	-	0-360	250	V

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

PK – Peak detector

Radiated Emissions

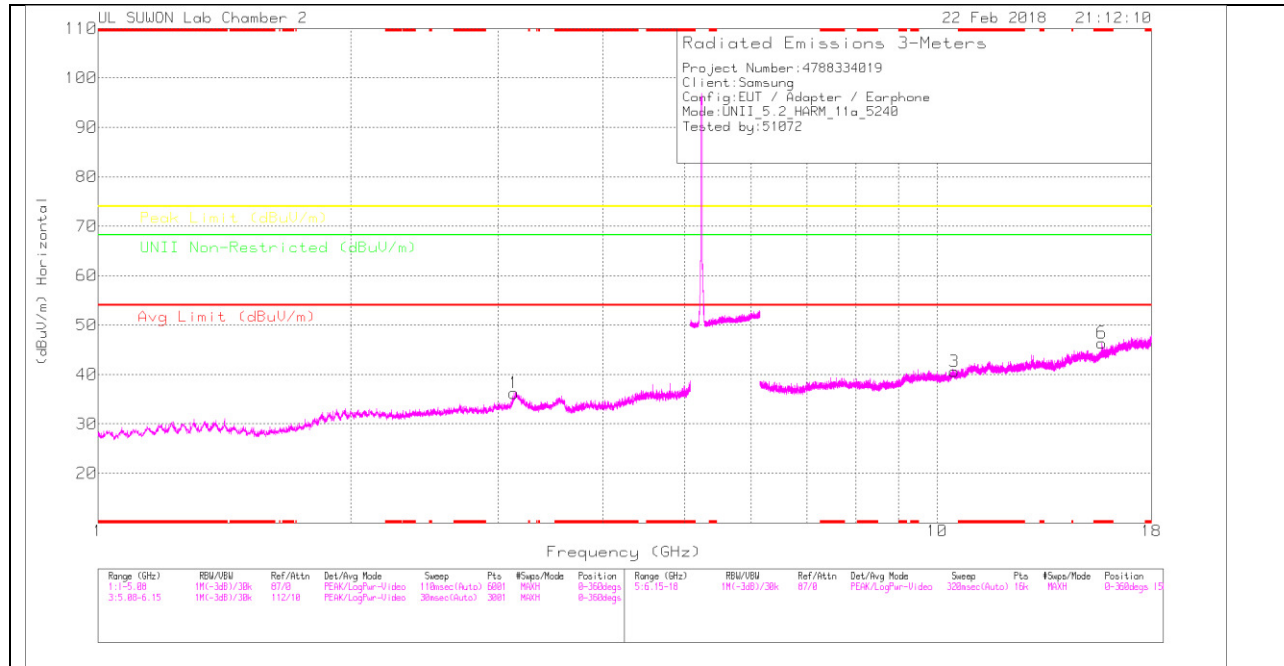
Frequency (GHz)	Marker Reading (dBuV)	Det	170531_311700188724	5GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	U-NII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.605	30.62	PK-U	39.8	-14.5	0	55.92	-	-	74	-18.08	-	-	263	156	H
* 15.599	17.86	ADR	39.8	-14.5	.12	43.28	54	-10.72	-	-	-	-	263	156	H
* 15.6	32.67	PK-U	39.8	-14.5	0	57.97	-	-	74	-16.03	-	-	180	236	V
* 15.6	19.73	ADR	39.8	-14.5	.12	45.15	54	-8.85	-	-	-	-	180	236	V

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

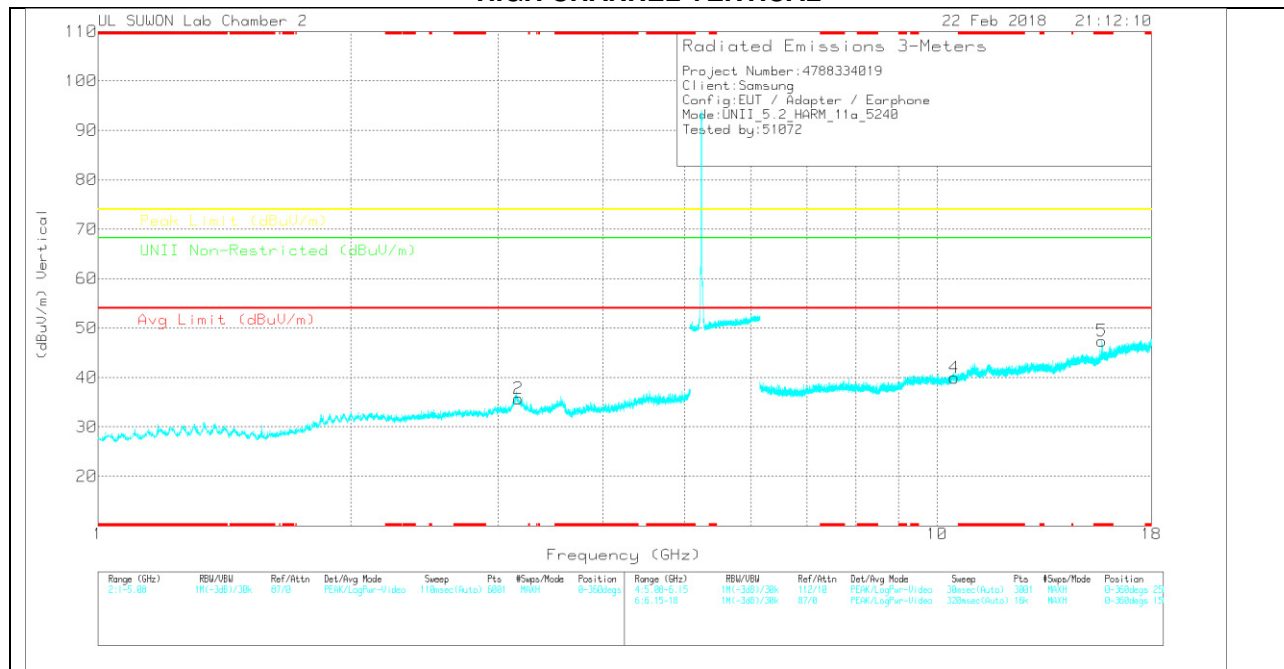
PK-U - U-NII: Maximum Peak

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117001887 24	5GHz_1P(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	ULN Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	3.132	28.54	PK	34.1	-26.4	0	36.24	-	-	-	-	68.2	-31.96	0-360	150	H
2	3.169	27.22	PK	34.3	-25.8	0	35.72	-	-	-	-	68.2	-32.48	0-360	150	V
3	10.477	19.48	PK	37.5	-16.4	0	40.58	-	-	-	-	68.2	-27.62	0-360	150	H
6	* 15.719	21.28	PK	39.9	-14.8	0	46.38	-	-	74	-27.62	-	-	0-360	250	H
4	10.486	18.94	PK	37.5	-16.5	0	39.94	-	-	-	-	68.2	-28.26	0-360	250	V
5	* 15.717	22.41	PK	39.9	-14.9	0	47.41	-	-	74	-26.59	-	-	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

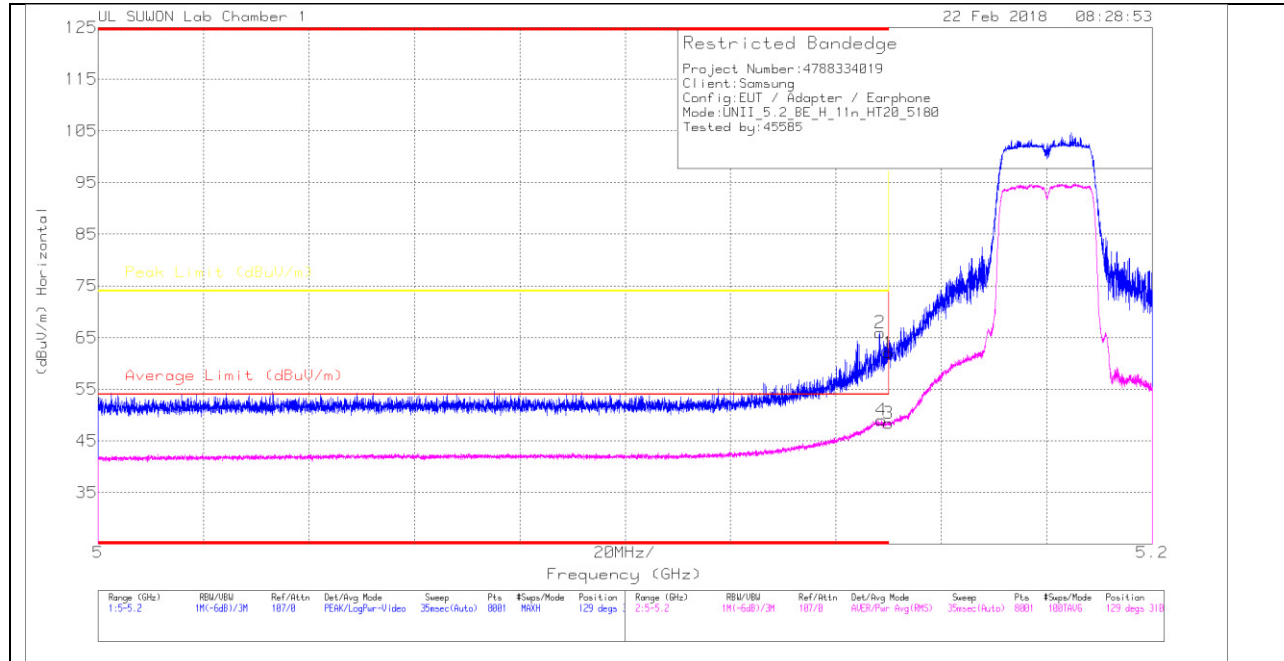
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	170531_311700188724	60Hz_1P(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	ULN Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
* 15.716	31.29	PK-U	39.9	-14.9	0	56.29	-	-	74	-17.71	-	-	264	145	H
* 15.719	18.63	ADR	39.9	-14.9	.12	43.75	54	-10.25	-	-	-	-	264	145	H
* 15.718	32.73	PK-U	39.9	-14.9	0	57.73	-	-	74	-16.27	-	-	174	134	V
* 15.719	19.99	ADR	39.9	-14.8	.12	45.21	54	-8.79	-	-	-	-	174	134	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 MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

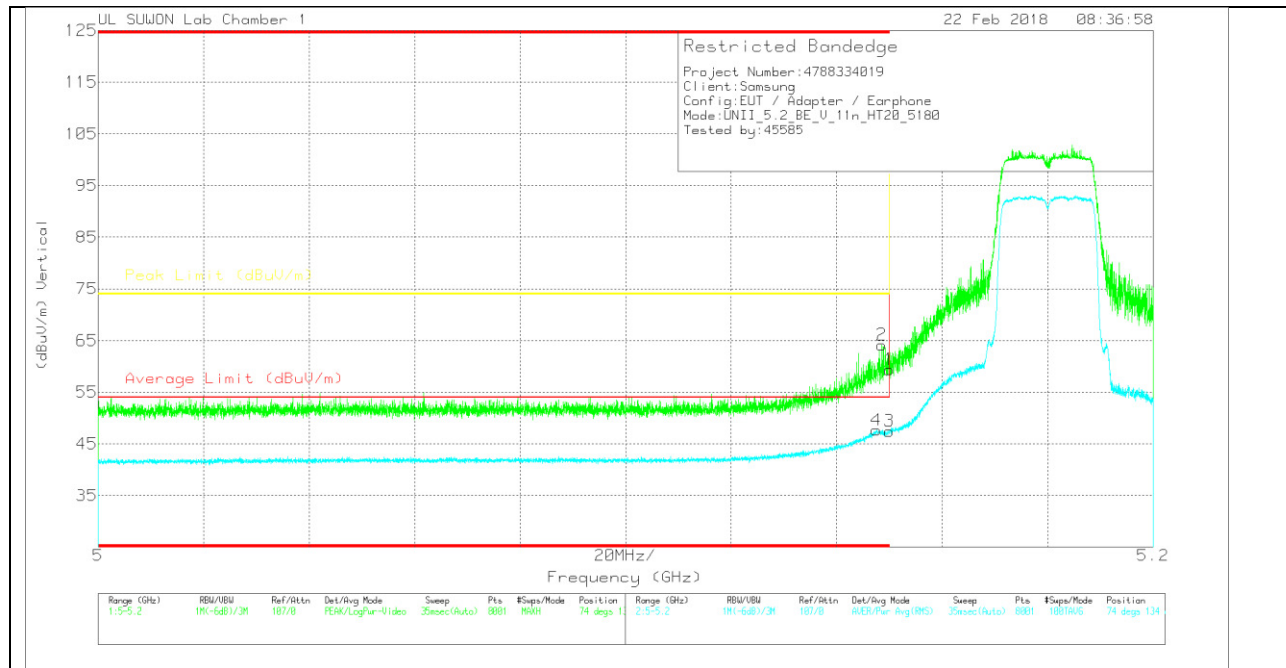
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	50.04	Pk	34	-22	0	62.04	-	-	74	-11.96	129	310	H
2	* 5.148	53.97	Pk	34	-22	0	65.97	-	-	74	-8.03	129	310	H
3	5.15	36.31	RMS	34	-22	.13	48.44	54	-5.56	-	-	129	310	H
4	* 5.149	36.91	RMS	34	-22	.13	49.04	54	-4.96	-	-	129	310	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	47.42	Pk	34	-22	0	59.42	-	-	74	-14.58	74	134	V
2	* 5.149	52.16	Pk	34	-22	0	64.16	-	-	74	-9.84	74	134	V
3	5.15	35.36	RMS	34	-22	.13	47.49	54	-6.51	-	-	74	134	V
4	* 5.148	35.55	RMS	34	-22	.13	47.68	54	-6.32	-	-	74	134	V

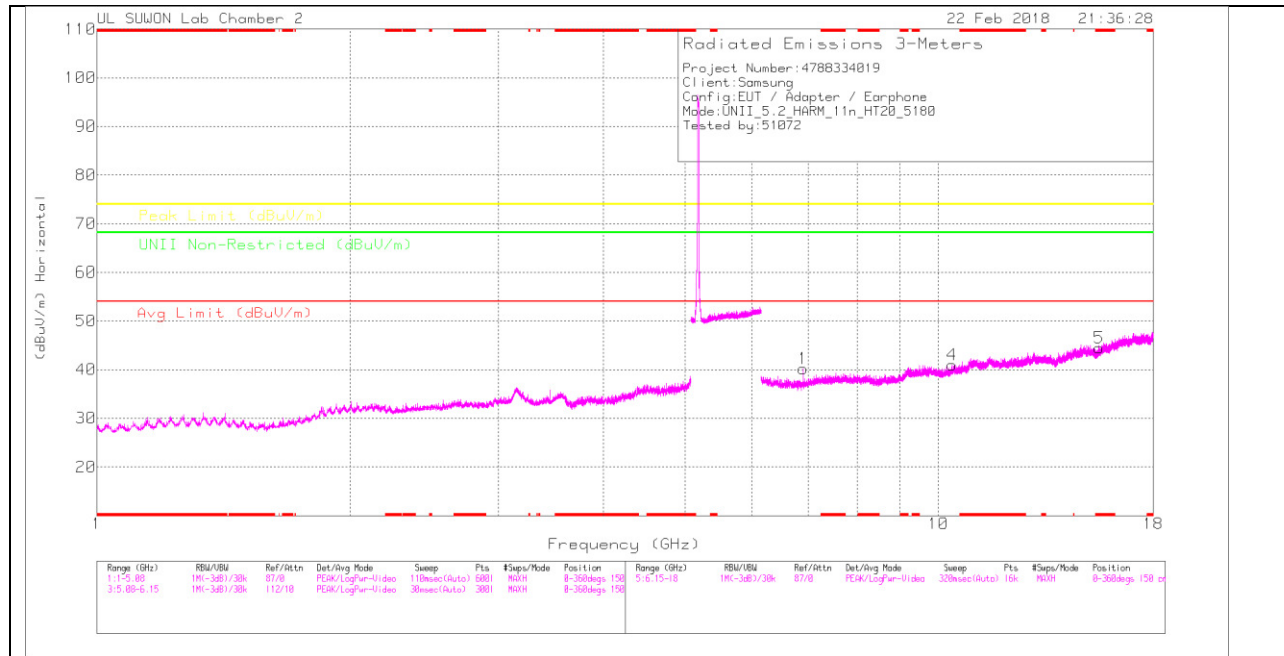
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

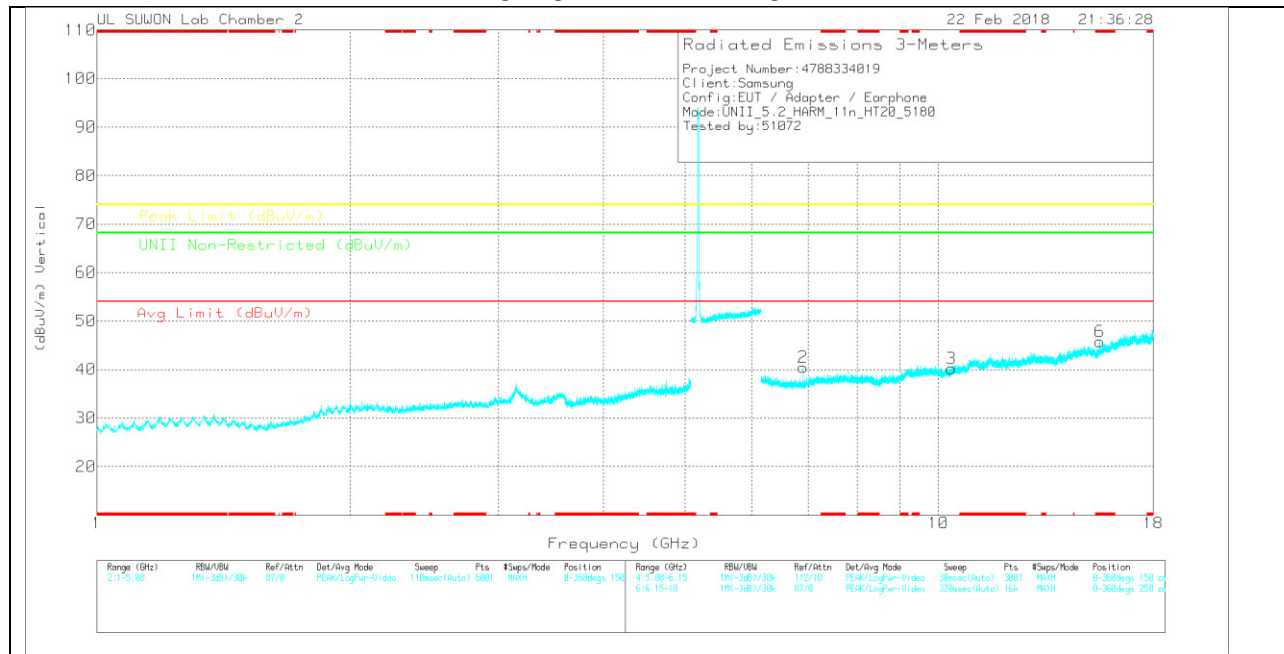
RMS - RMS detection

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

Trace Markers

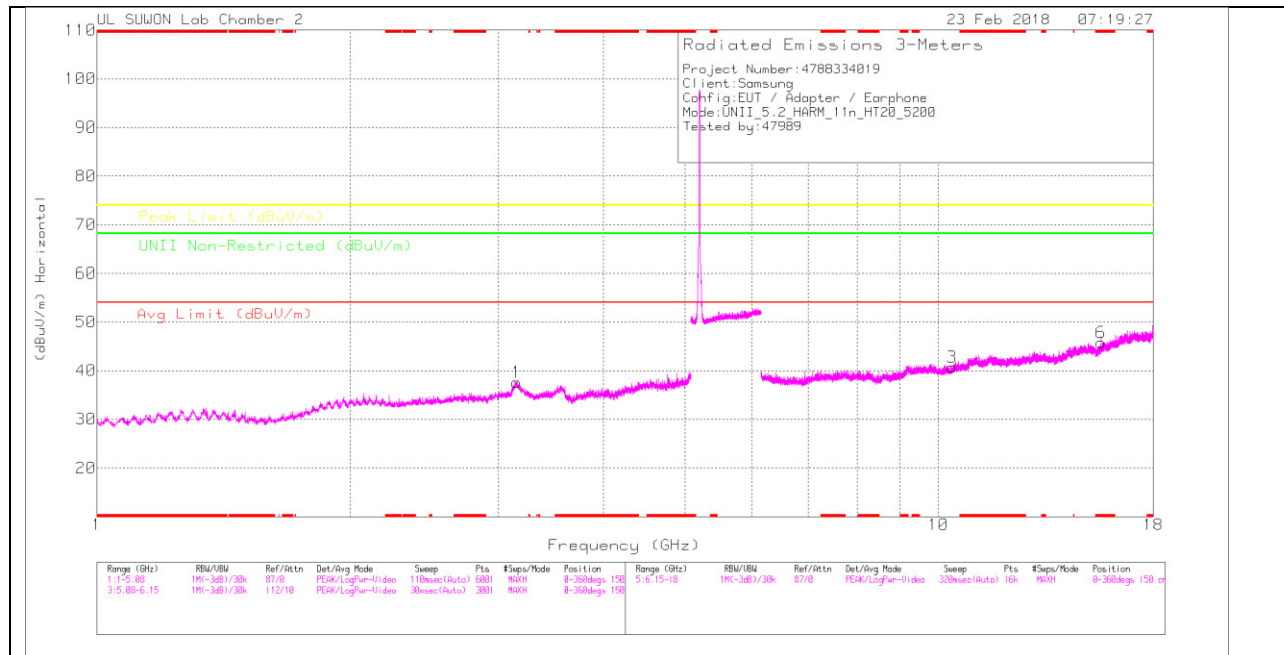
Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	170531_1117001887 24	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	6.906	26.54	PK	35.5	-21.8	0	40.24	-	-	-	-	68.2	-27.96	0-360	250	H
4	10.374	20.03	PK	37.5	-16.6	0	40.93	-	-	-	-	68.2	-27.27	0-360	150	H
5	* 15.533	19.11	PK	39.7	-14.4	0	44.41	-	-	74	-29.59	-	-	0-360	150	H
2	6.906	26.76	PK	35.5	-21.8	0	40.46	-	-	-	-	68.2	-27.74	0-360	250	V
3	10.362	19.4	PK	37.5	-16.7	0	40.2	-	-	-	-	68.2	-28	0-360	150	V
6	* 15.538	20.37	PK	39.8	-14.4	0	45.77	-	-	74	-28.23	-	-	0-360	250	V

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

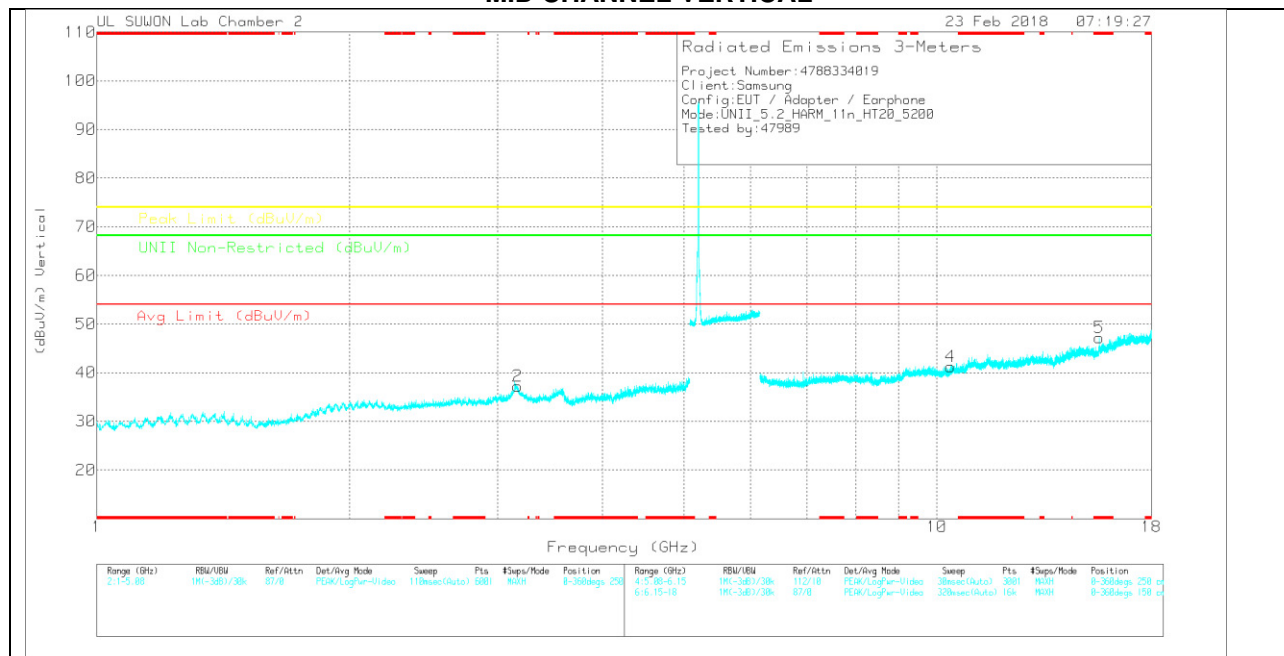
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

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

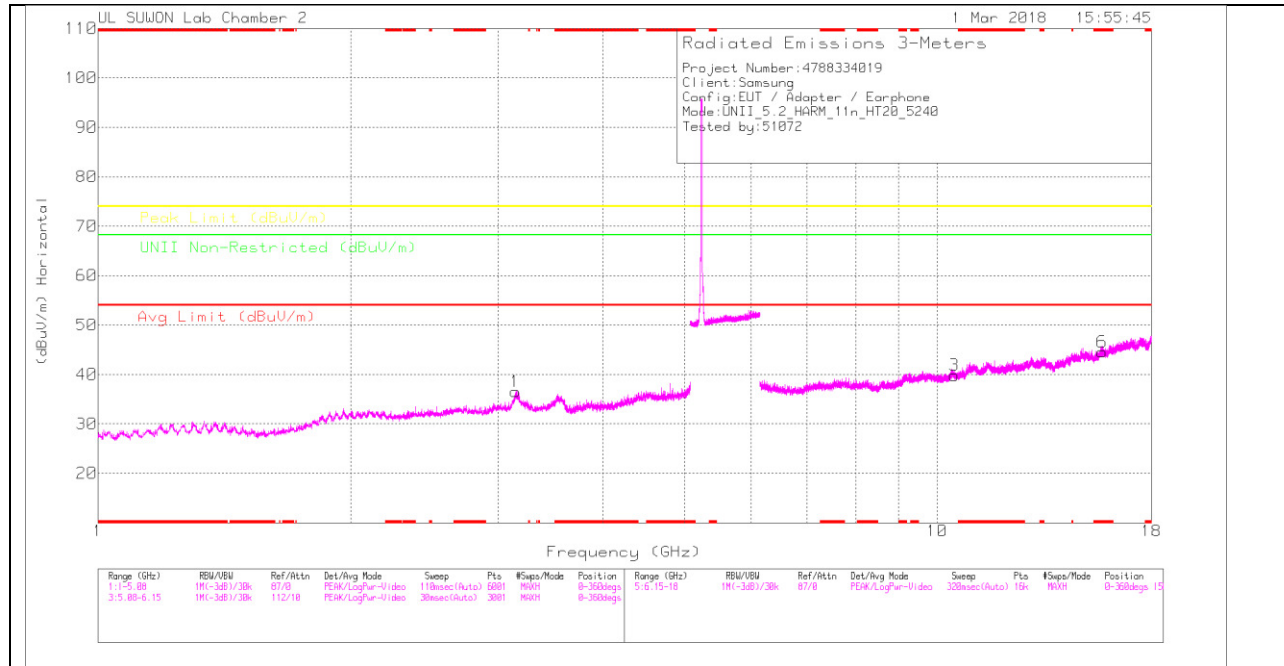
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117001687 24	5GHz_LF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	3.151	28.87	PK	34.9	-26.1	0	37.67	-	-	-	-	68.2	-30.53	0-360	150	H
2	3.171	28.7	PK	34.3	-25.8	0	37.2	-	-	-	-	68.2	-31	0-360	250	V
3	10.385	19.59	PK	37.5	-16.4	0	40.69	-	-	-	-	68.2	-27.51	0-360	250	H
6	* 15.597	20.59	PK	39.8	-14.6	0	45.79	-	-	74	-28.21	-	-	0-360	250	H
4	10.388	20.15	PK	37.5	-16.4	0	41.25	-	-	-	-	68.2	-26.95	0-360	250	V
5	* 15.598	22.01	PK	39.8	-14.6	0	47.21	-	-	74	-26.79	-	-	0-360	250	V

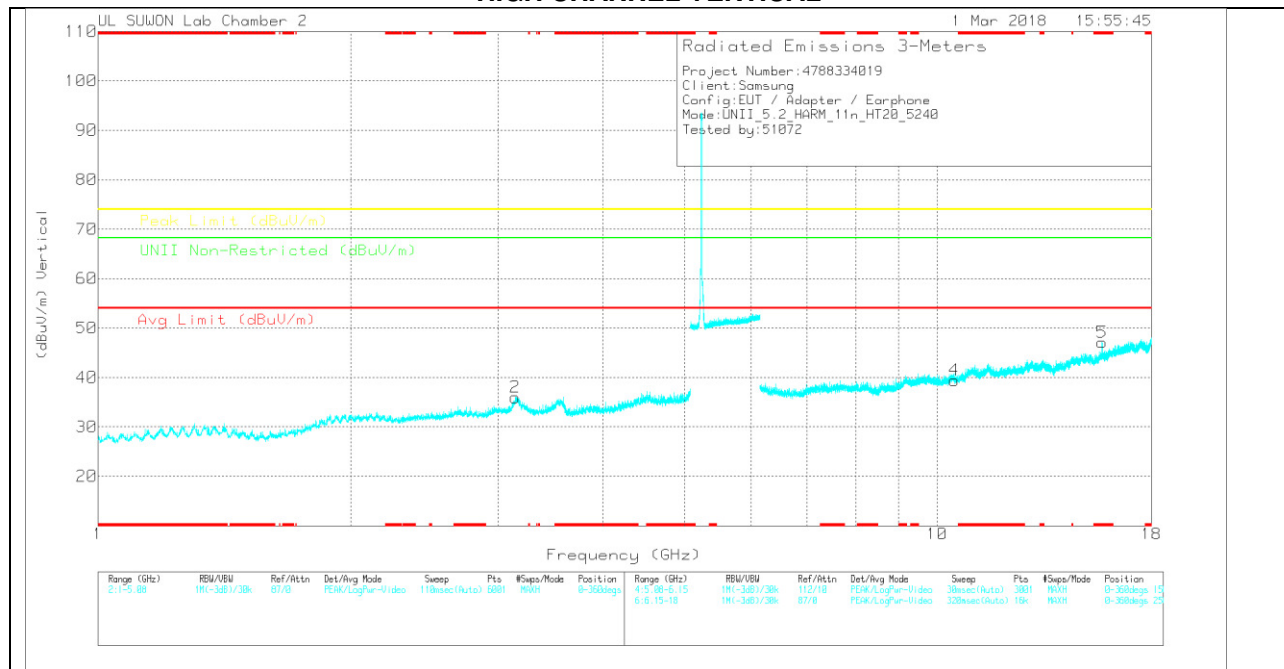
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

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.

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170331_3117(00188724)	5GHz_LF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	3.145	28.02	PK	34.7	-26.2	0	36.52	-	-	-	-	68.2	-31.68	0-360	250	H
2	3.142	27.68	PK	34.5	-26.2	0	35.98	-	-	-	-	68.2	-32.22	0-360	150	V
3	10.481	18.71	PK	37.5	-16.4	0	39.81	-	-	-	-	68.2	-28.39	0-360	150	H
6	* 15.721	19.43	PK	39.9	-14.8	0	44.53	-	-	74	-29.47	-	-	0-360	250	H
4	10.481	18.32	PK	37.5	-16.4	0	39.42	-	-	-	-	68.2	-28.78	0-360	150	V
5	* 15.721	22	PK	39.9	-14.8	0	47.1	-	-	74	-26.9	-	-	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

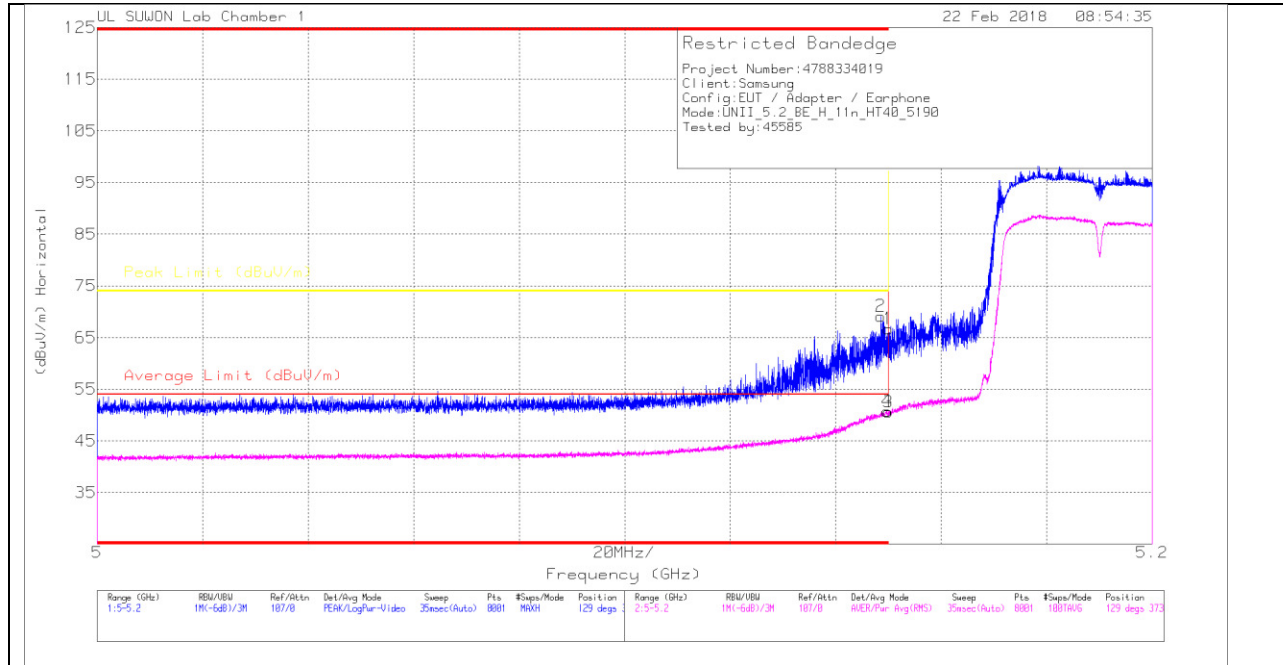
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	170331_3117(00188724)	5GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 15.716	31.87	PK-U	39.9	-14.9	0	56.87	-	-	74	-17.13	-	-	259	133	H
* 15.718	18.57	ADR	39.9	-14.9	.13	43.7	54	-10.3	-	-	-	-	259	133	H
* 15.722	33.76	PK-U	39.9	-14.8	0	58.86	-	-	74	-15.14	-	-	175	161	V
* 15.722	19.72	ADR	39.9	-14.8	.13	44.95	54	-9.05	-	-	-	-	175	161	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 MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

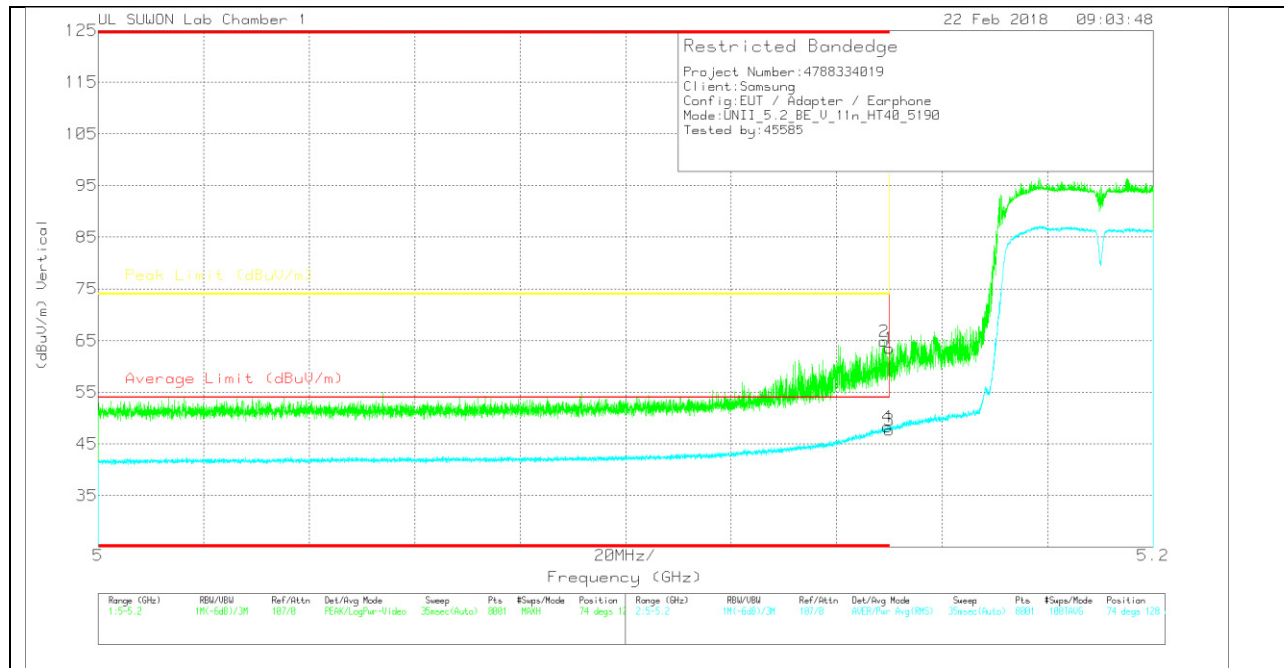
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	54.71	Pk	34	-22	0	66.71	-	-	74	-7.29	129	373	H
2	* 5.149	57.15	Pk	34	-22	0	69.15	-	-	74	-4.85	129	373	H
3	5.15	38.37	RMS	34	-22	.24	50.61	54	-3.39	-	-	129	373	H
4	* 5.15	38.52	RMS	34	-22	.24	50.76	54	-3.24	-	-	129	373	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	51.48	Pk	34	-22	0	63.48	-	-	74	-10.52	74	128	V
2	* 5.149	52.83	Pk	34	-22	0	64.83	-	-	74	-9.17	74	128	V
3	5.15	35.44	RMS	34	-22	-24	47.68	54	-6.32	-	-	74	128	V
4	* 5.15	36.06	RMS	34	-22	-24	48.3	54	-5.7	-	-	74	128	V

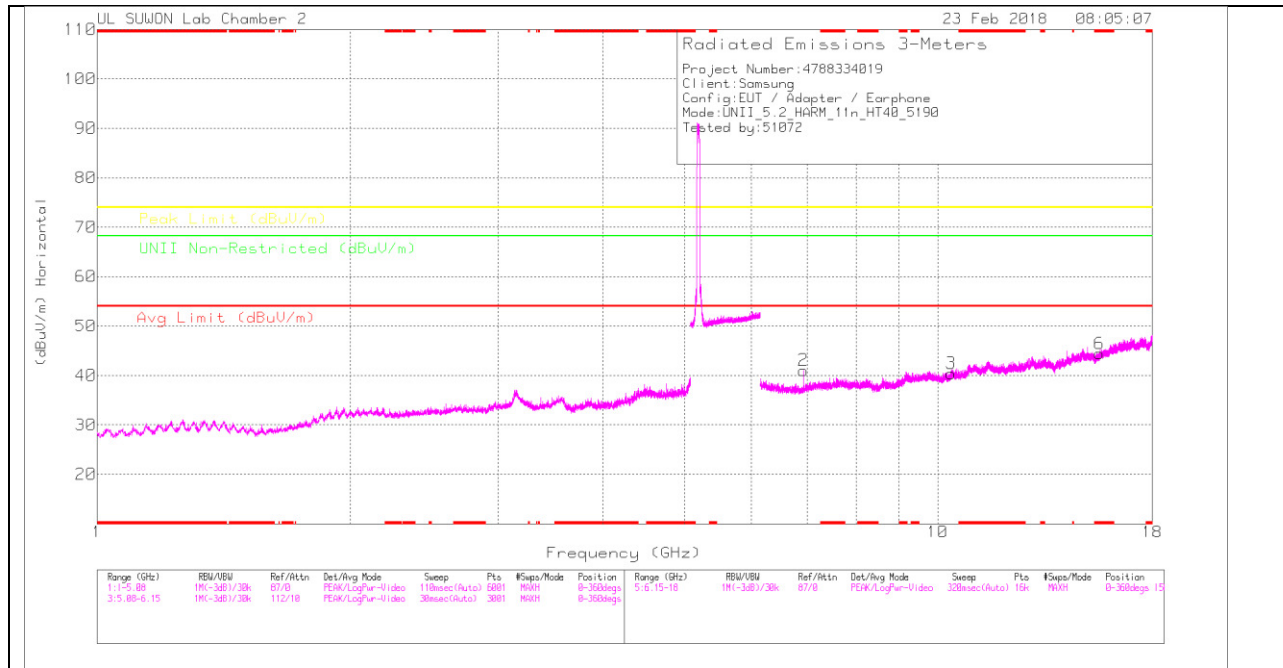
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

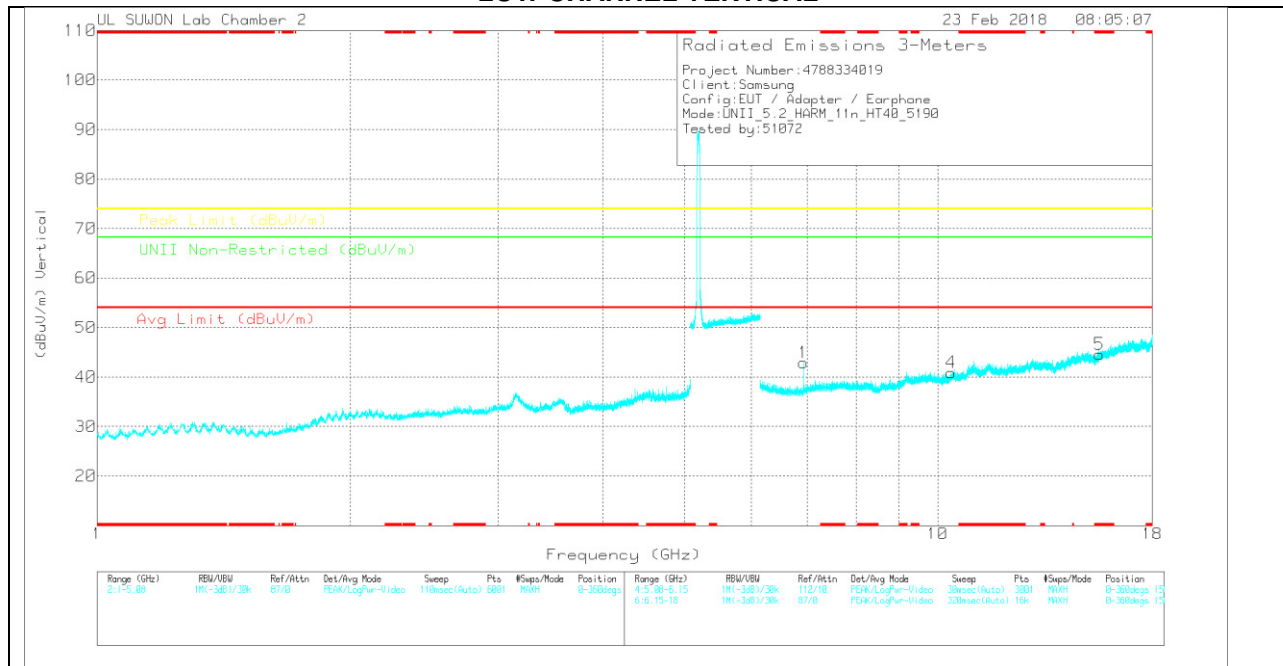
RMS - RMS detection

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
2	6.919	27.14	PK	35.5	-21.6	0	41.04	-	-	-	-	68.2	-27.16	0-360	250	H
3	10.374	19.51	PK	37.5	-16.6	0	40.41	-	-	-	-	68.2	-27.79	0-360	250	H
6	* 15.572	19.2	PK	39.8	-14.6	0	44.4	-	-	74	-29.6	-	-	0-360	250	H
1	6.919	29	PK	35.5	-21.6	0	42.9	-	-	-	-	68.2	-25.3	0-360	150	V
4	10.381	19.89	PK	37.5	-16.5	0	40.89	-	-	-	-	68.2	-27.31	0-360	250	V
5	* 15.578	19.28	PK	39.8	-14.5	0	44.58	-	-	74	-29.42	-	-	0-360	250	V

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

PK – Peak Detector

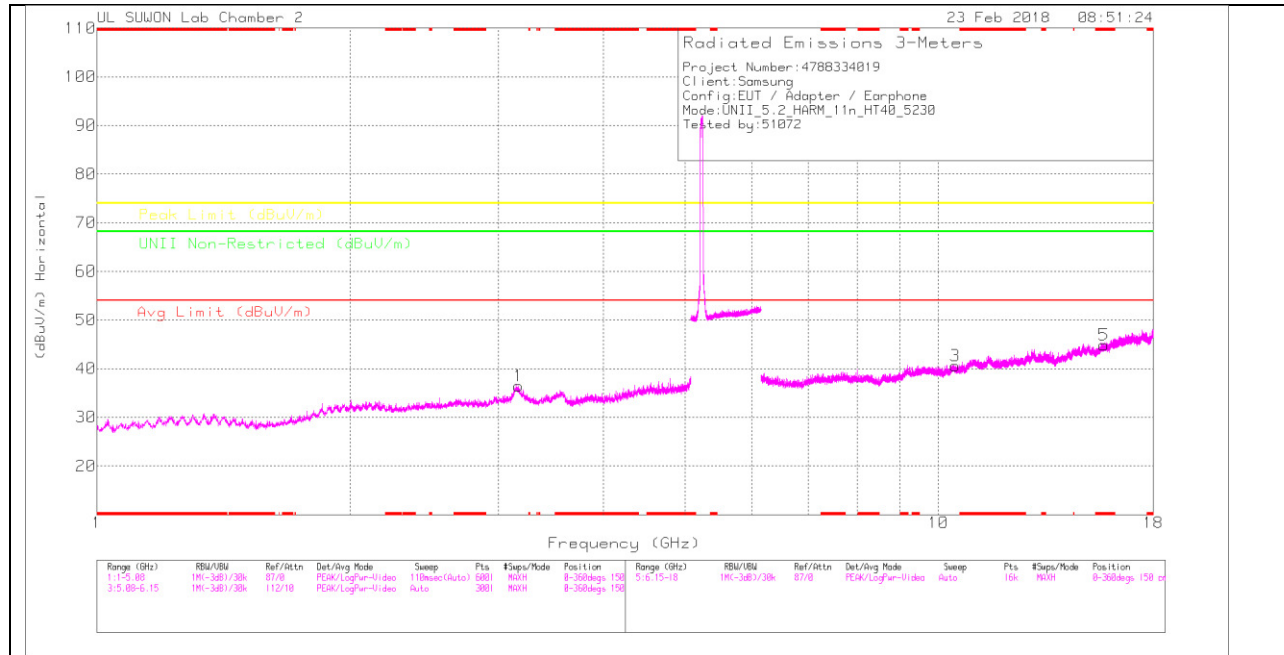
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	6GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
6.92	36.26	PK-U	35.5	-21.6	0	50.16	-	-	-	-	68.2	-18.04	9	163	H
6.92	36.16	PK-U	35.5	-21.6	0	50.06	-	-	-	-	68.2	-18.14	352	117	V

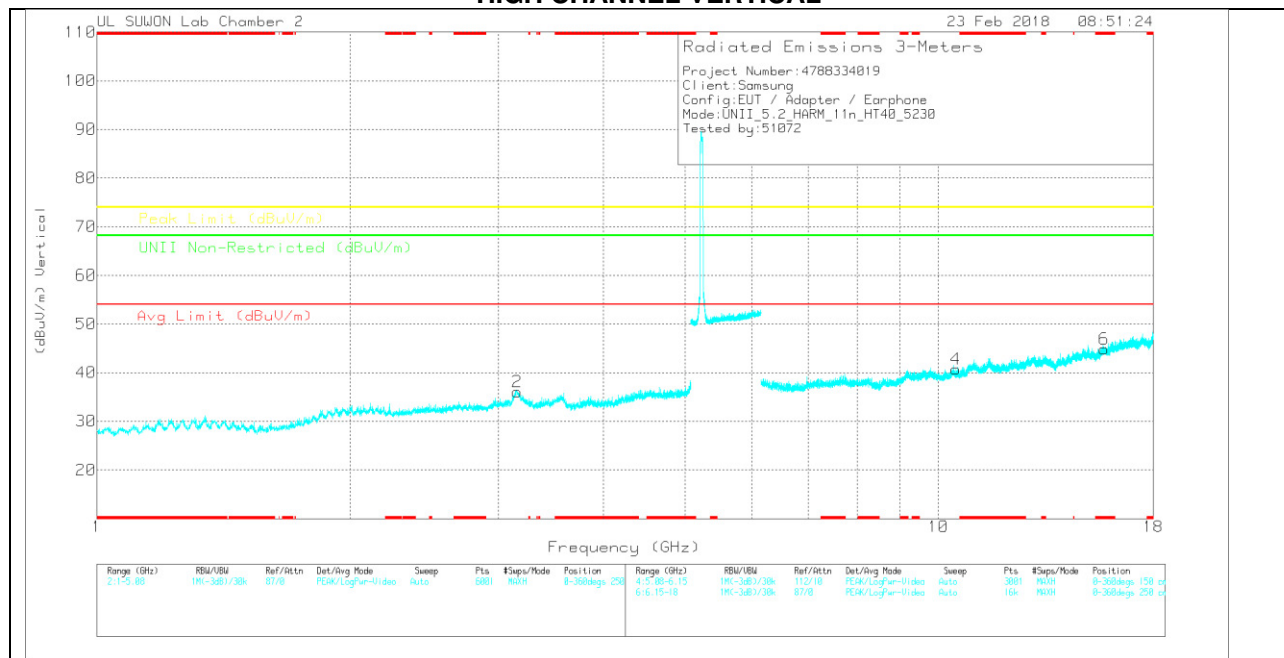
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Trace Markers

Marker	Frequency (GHz)	Motor Reading (dBuV)	Det	170331_3117001887 24	50Hz_LF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	3.169	27.9	PK	34.3	-25.8	0	36.4	-	-	-	-	68.2	-31.8	0-360	150	H
2	3.161	27.45	PK	34.6	-26	0	36.05	-	-	-	-	68.2	-32.15	0-360	250	V
3	10.476	19.5	PK	37.5	-16.4	0	40.6	-	-	-	-	68.2	-27.6	0-360	250	H
5	* 15.723	19.81	PK	39.9	-14.8	0	44.91	-	-	74	-29.09	-	-	0-360	150	H
4	10.483	19.7	PK	37.5	-16.5	0	40.7	-	-	-	-	68.2	-27.5	0-360	150	V
6	* 15.727	19.8	PK	40	-14.9	0	44.9	-	-	74	-29.1	-	-	0-360	150	V

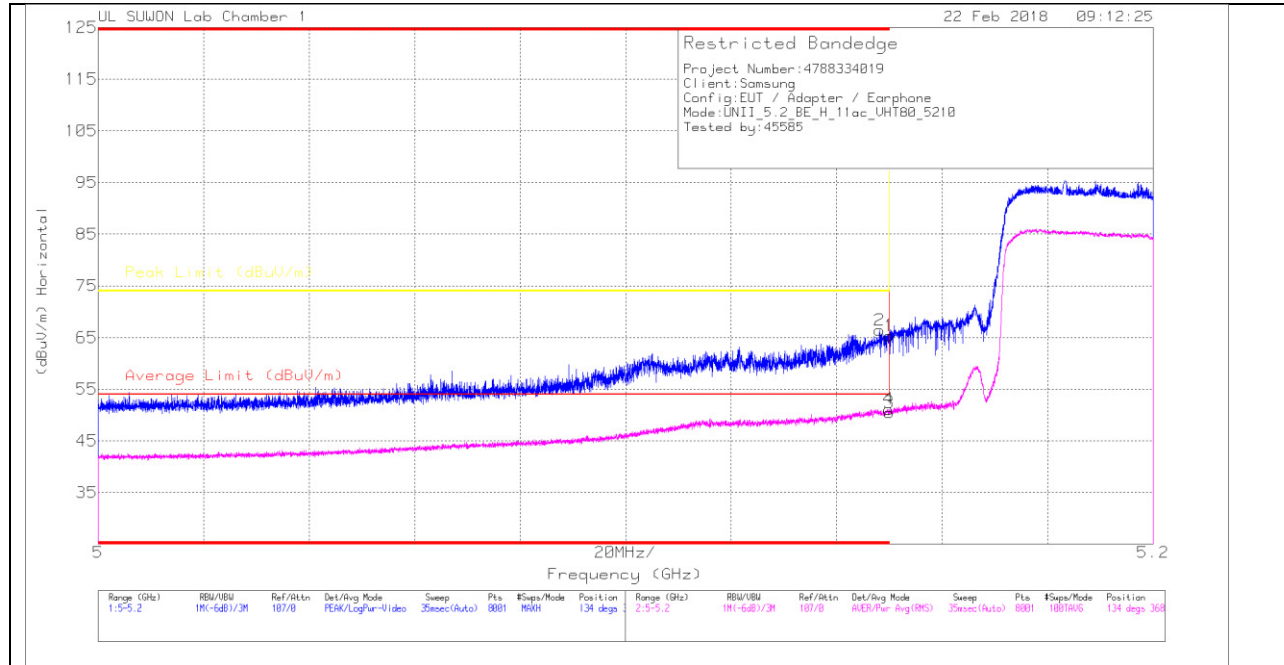
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.1.4.TX ABOVE 1GHz 802.11ac VHT80 MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

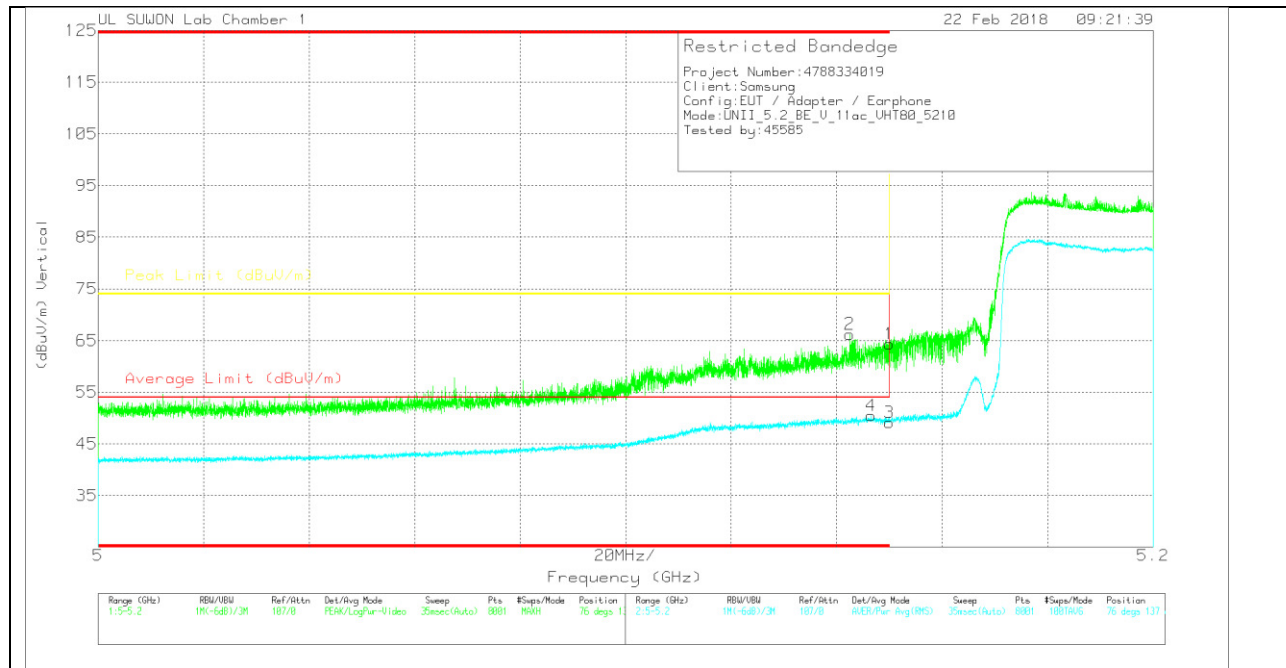
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	53.35	Pk	34	-22	0	65.35	-	-	74	-8.65	134	368	H
2	* 5.148	54.42	Pk	34	-22	0	66.42	-	-	74	-7.58	134	368	H
3	5.15	38.02	RMS	34	-22	.48	50.5	54	-3.5	-	-	134	368	H
4	* 5.15	38.68	RMS	34	-22	.48	51.16	54	-2.84	-	-	134	368	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	52.37	Pk	34	-22	0	64.37	-	-	74	-9.63	76	137	V
2	* 5.143	54.22	Pk	34	-22	0	66.22	-	-	74	-7.78	76	137	V
3	5.15	36.63	RMS	34	-22	.48	49.11	54	-4.89	-	-	76	137	V
4	* 5.147	37.99	RMS	34	-22	.48	50.47	54	-3.53	-	-	76	137	V

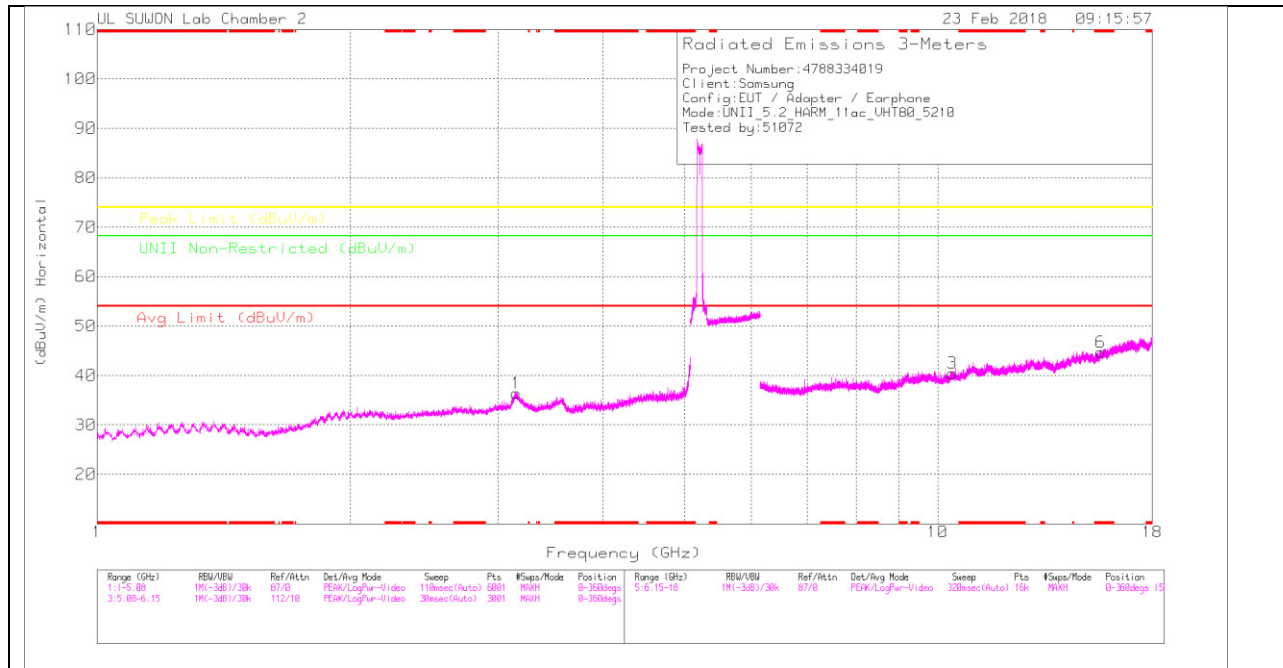
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

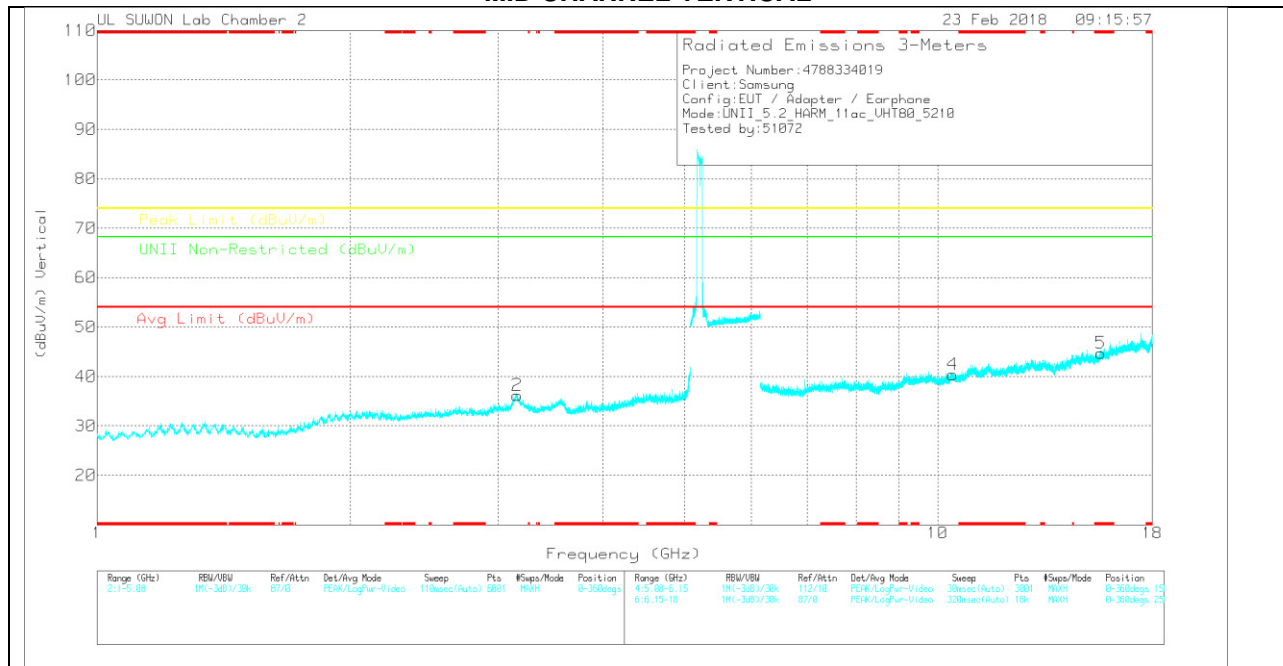
RMS - RMS detection

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117003887 24	5GHz_1P(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	3.154	27.6	PK	34.8	-26	0	36.4	-	-	-	-	68.2	-31.8	0-360	150	H
2	3.161	27.61	PK	34.6	-26	0	36.21	-	-	-	-	68.2	-31.99	0-360	250	V
3	10.416	19.14	PK	37.5	-16.2	0	40.44	-	-	-	-	68.2	-27.76	0-360	250	H
6	* 15.637	19.59	PK	39.8	-14.7	0	44.69	-	-	74	-29.31	-	-	0-360	150	H
4	10.421	19.11	PK	37.5	-16.2	0	40.41	-	-	-	-	68.2	-27.79	0-360	150	V
5	* 15.629	19.63	PK	39.8	-14.7	0	44.73	-	-	74	-29.27	-	-	0-360	250	V

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

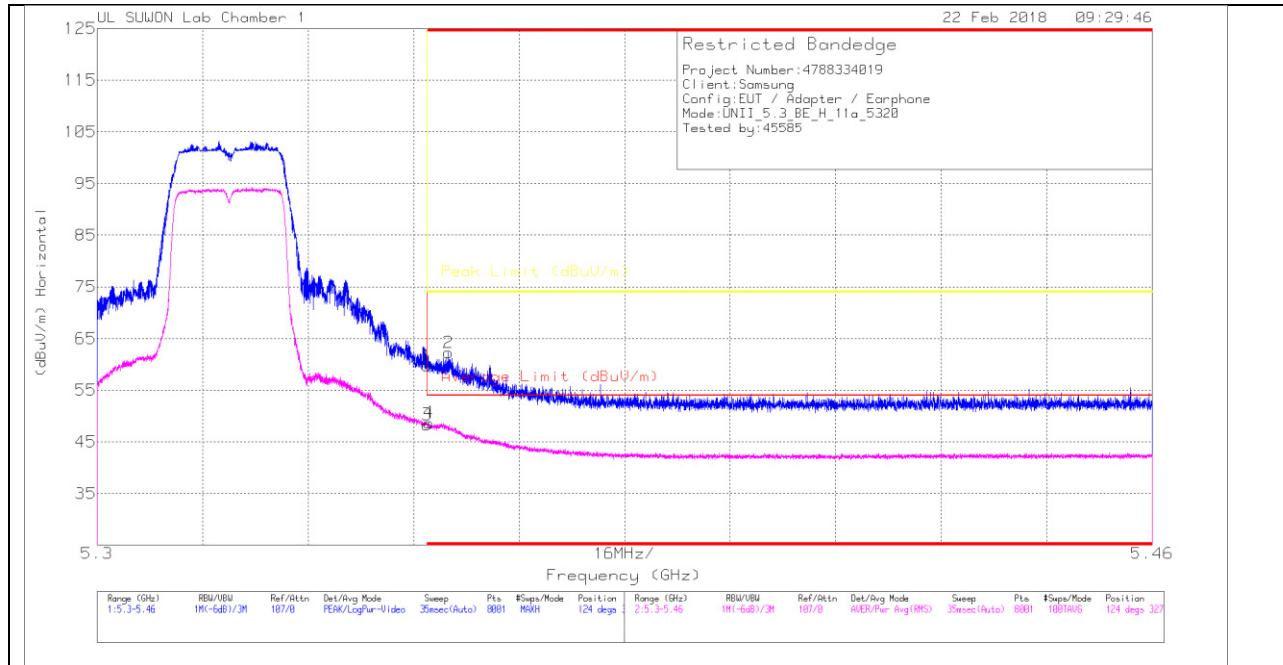
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.2. 5.3 GHz

11.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

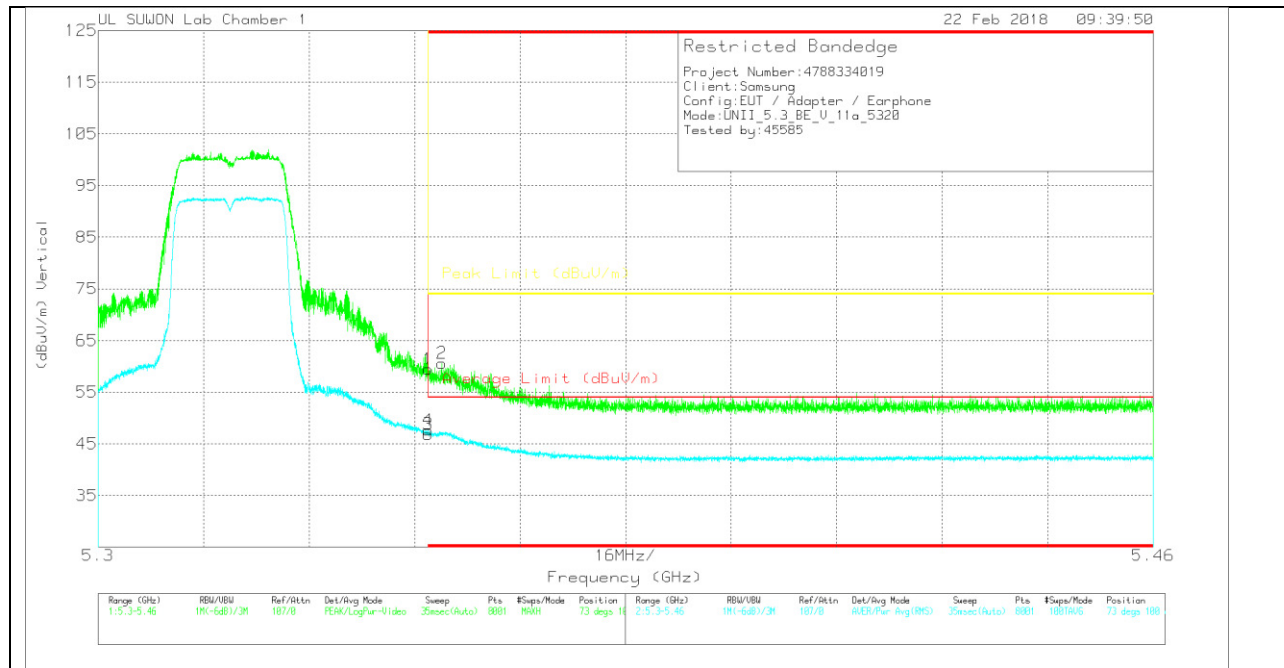
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	47.24	Pk	34.2	-21.7	0	59.74	-	-	74	-14.26	124	327	H
2	* 5.353	49.77	Pk	34.2	-21.7	0	62.27	-	-	74	-11.73	124	327	H
3	* 5.35	35.7	RMS	34.2	-21.7	.12	48.32	54	-5.68	-	-	124	327	H
4	* 5.35	36.1	RMS	34.2	-21.7	.12	48.72	54	-5.28	-	-	124	327	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	* 5.35	46.97	Pk	34.2	-21.7	0	59.47	-	-	74	-14.53	73	100	V
2	* 5.352	48.1	Pk	34.2	-21.7	0	60.6	-	-	74	-13.4	73	100	V
3	* 5.35	34.23	RMS	34.2	-21.7	-12	46.85	54	-7.15	-	-	73	100	V
4	* 5.35	35.04	RMS	34.2	-21.7	-12	47.66	54	-6.34	-	-	73	100	V

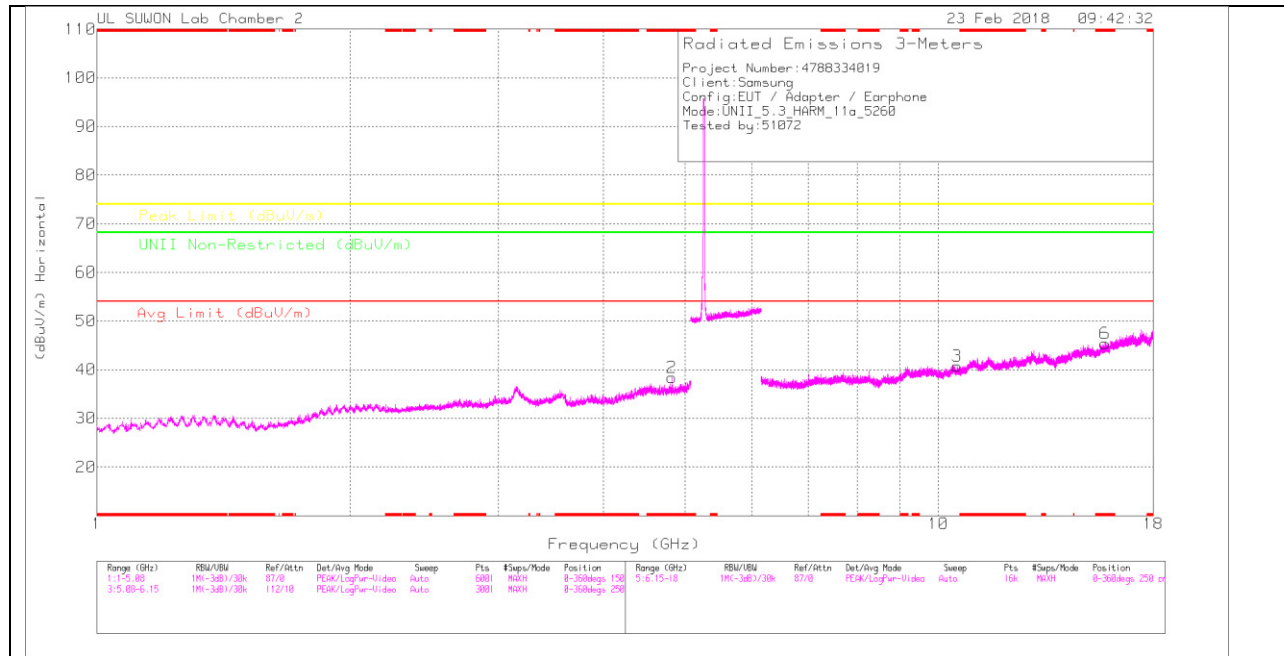
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

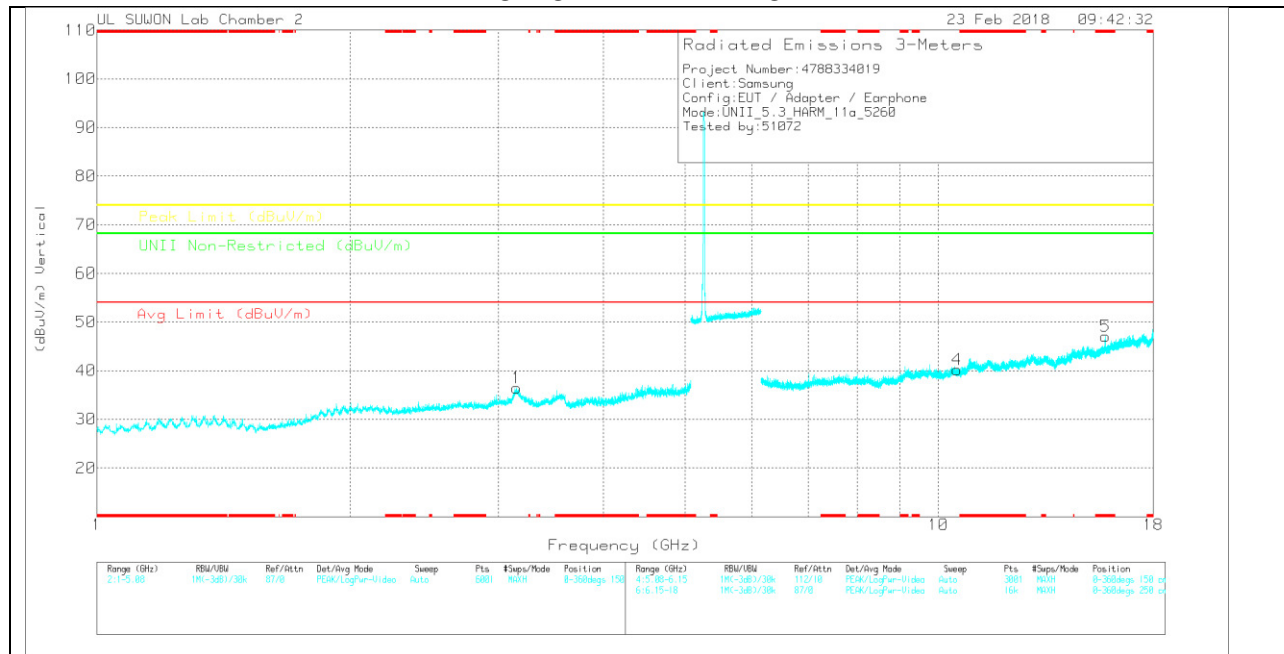
RMS - RMS detection

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

Trace Markers

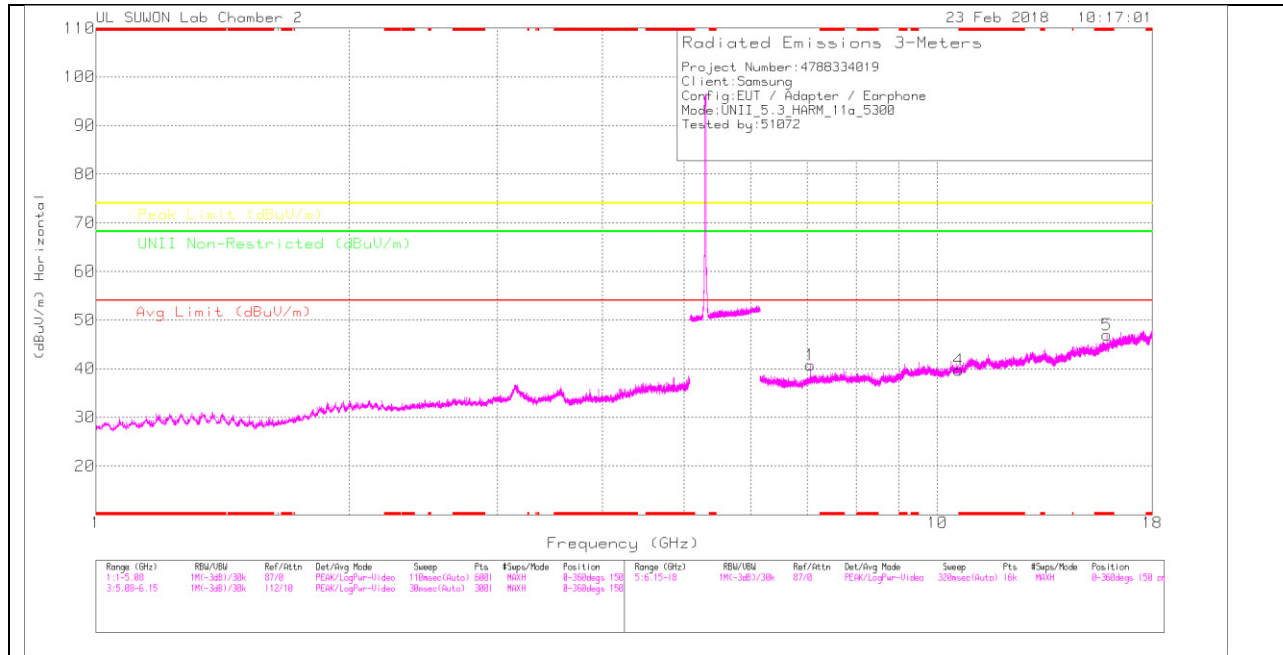
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117003887 24)	5GHz_LF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
2	* 4.822	28.63	PK	33.8	-24.1	0	38.33	-	-	74	-35.67	-	-	0-360	150	H
1	3.152	27.79	PK	34.8	-26.1	0	36.49	-	-	-	-	68.2	-31.71	0-360	250	V
3	10.527	19.66	PK	37.6	-16.6	0	40.66	-	-	-	-	68.2	-27.54	0-360	250	H
6	* 15.777	19.96	PK	40.1	-14.7	0	45.36	-	-	74	-28.64	-	-	0-360	250	H
4	10.518	19.25	PK	37.5	-16.6	0	40.15	-	-	-	-	68.2	-28.05	0-360	150	V
5	* 15.78	21.73	PK	40.1	-14.8	0	47.03	-	-	74	-26.97	-	-	0-360	250	V

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

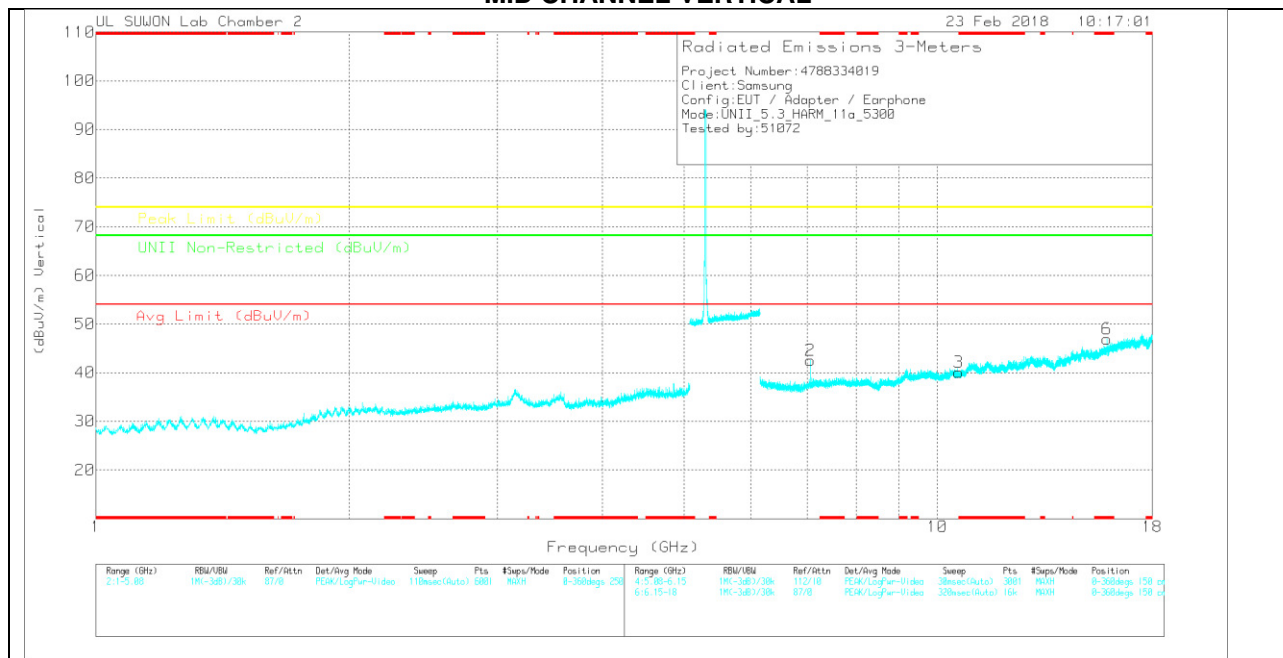
PK – Peak detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170331_3117(001087-24)	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.066	25.66	PK	35.6	-20.5	0	40.76	-	-	-	-	68.2	-27.44	0-360	150	H
4	* 10.6	18.69	PK	37.6	-16.6	0	39.69	-	-	74	-34.31	-	-	0-360	150	H
5	* 15.9	21.3	PK	40.3	-14.7	0	46.9	-	-	74	-27.1	-	-	0-360	250	H
2	7.066	27.4	PK	35.6	-20.5	0	42.5	-	-	-	-	68.2	-25.7	0-360	250	V
3	10.595	19.11	PK	37.6	-16.6	0	40.11	-	-	-	-	68.2	-28.09	0-360	150	V
6	* 15.901	21.27	PK	40.3	-14.7	0	46.87	-	-	74	-27.13	-	-	0-360	150	V

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

PK – Peak Detector

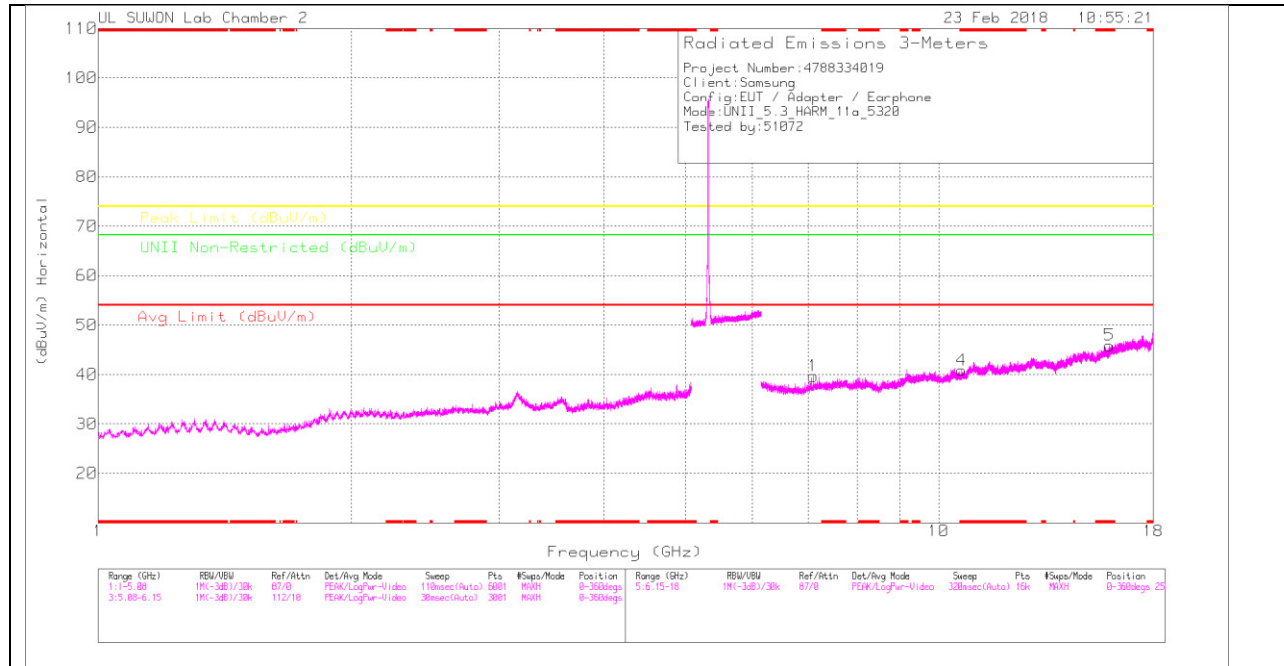
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	170331_3117(00108724)	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.067	34.76	PK-U	35.6	-20.5	0	49.86	-	-	-	-	68.2	-18.34	189	137	H
7.067	34.81	PK-U	35.6	-20.6	0	49.81	-	-	-	-	68.2	-18.39	359	144	V

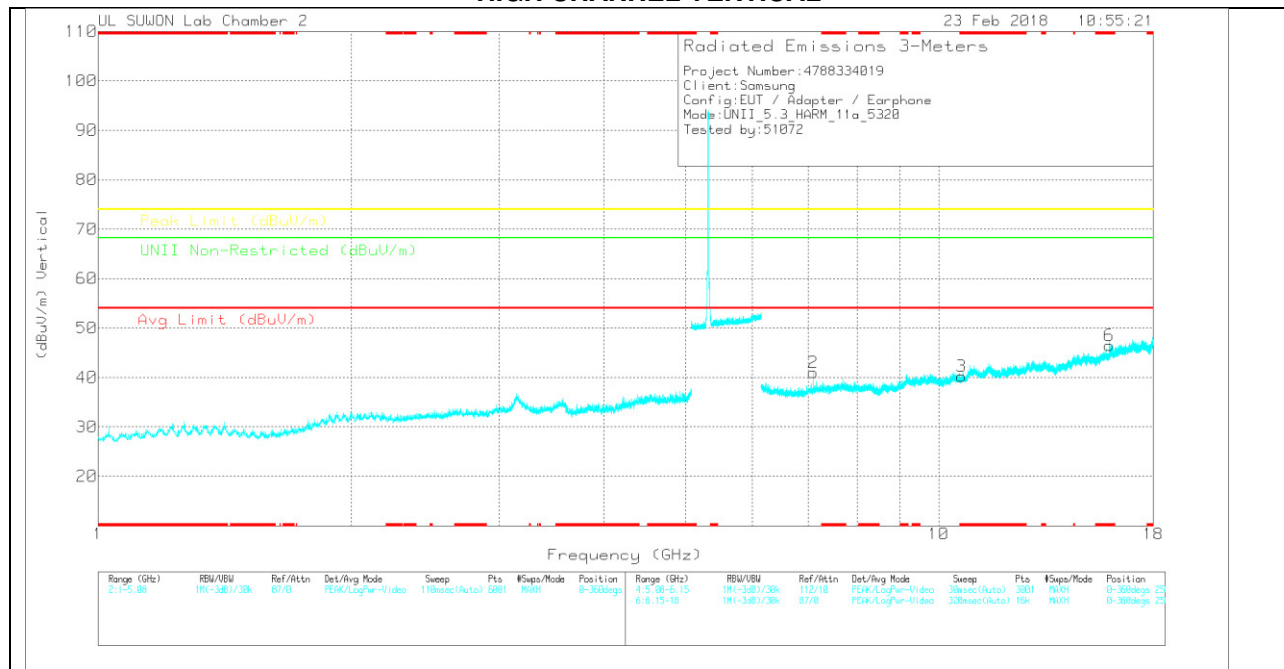
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117001687 24]	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.093	24.98	PK	35.7	-21	0	39.68	-	-	-	-	68.2	-28.52	0-360	150	H
4	* 10.642	19.75	PK	37.7	-16.6	0	40.85	-	-	74	-33.15	-	-	0-360	150	H
5	* 15.965	19.79	PK	40.4	-14.3	0	45.89	-	-	74	-28.11	-	-	0-360	250	H
2	7.093	26.27	PK	35.7	-21	0	40.97	-	-	-	-	68.2	-27.23	0-360	150	V
3	* 10.644	19.14	PK	37.7	-16.6	0	40.24	-	-	74	-33.76	-	-	0-360	150	V
6	* 15.956	20.47	PK	40.4	-14.4	0	46.47	-	-	74	-27.53	-	-	0-360	150	V

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

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	170531_311700168724]	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.093	35.1	PK-U	35.7	-21	0	49.8	-	-	-	-	68.2	-18.4	191	151	H
7.093	35.56	PK-U	35.7	-21	0	50.26	-	-	-	-	68.2	-17.94	357	129	V

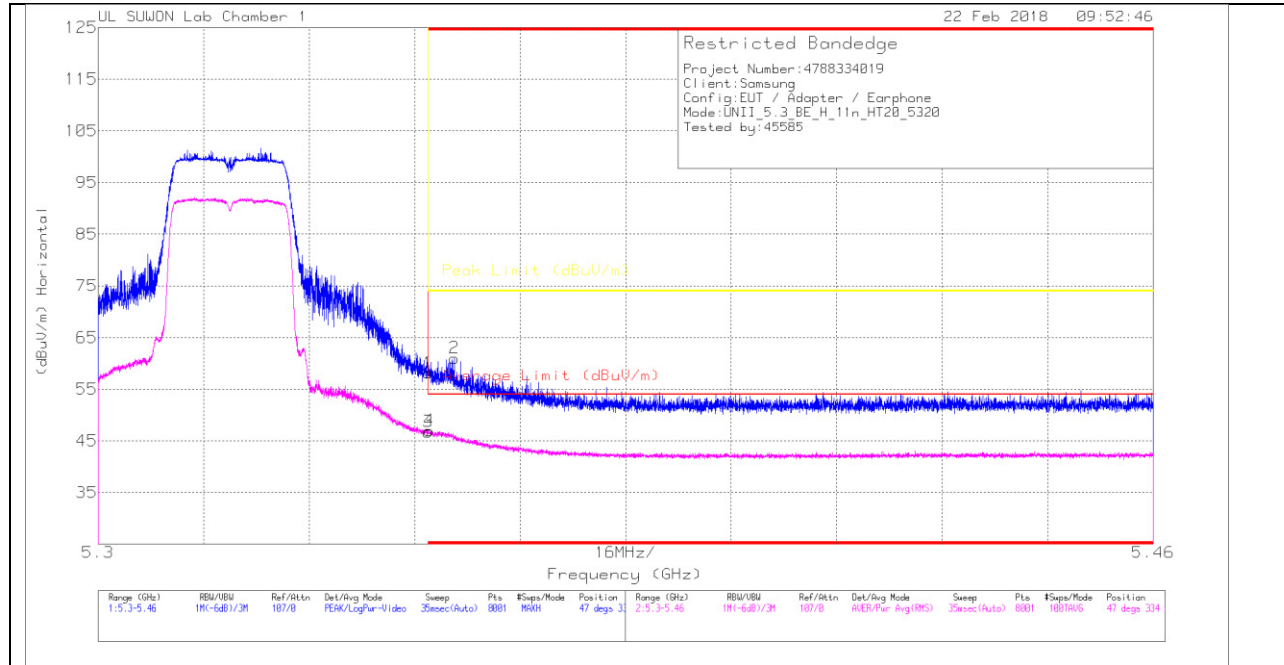
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

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

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

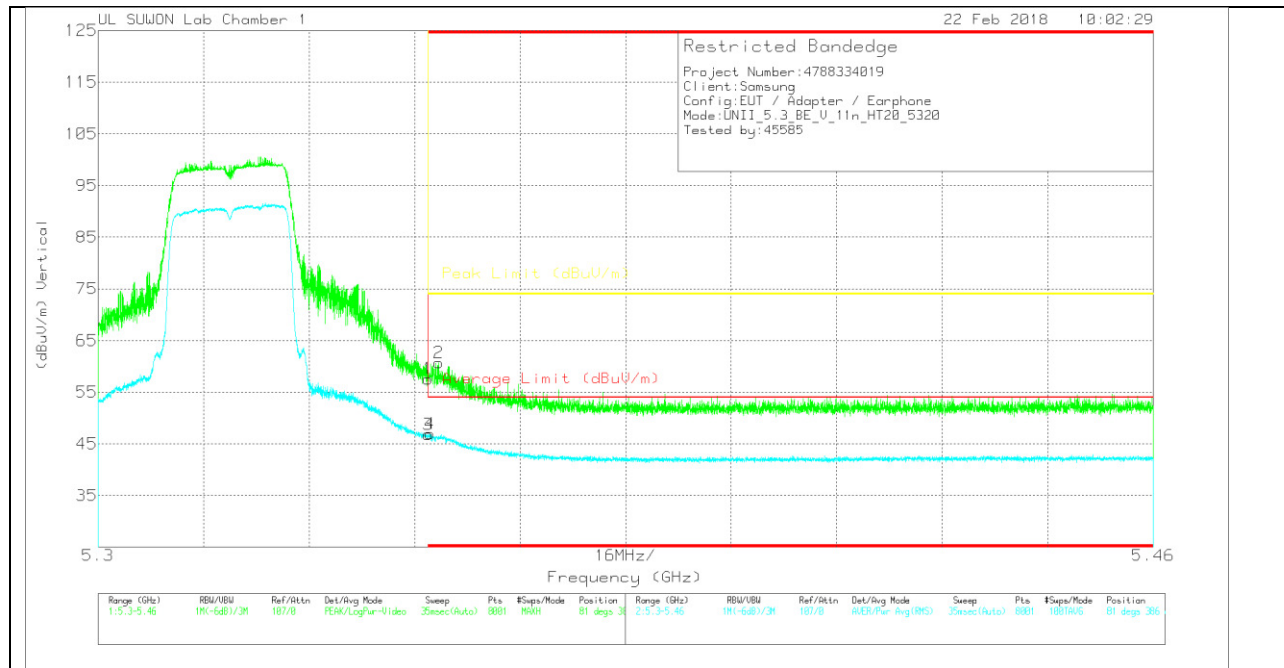
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	45.62	PK	34.2	-21.7	0	58.12	-	-	74	-15.88	47	334	H
2	* 5.354	48.51	PK	34.2	-21.7	0	61.01	-	-	74	-12.99	47	334	H
3	* 5.35	34.16	RMS	34.2	-21.7	.13	46.79	54	-7.21	-	-	47	334	H
4	* 5.35	34.35	RMS	34.2	-21.7	.13	46.98	54	-7.02	-	-	47	334	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	* 5.35	45.1	Pk	34.2	-21.7	0	57.6	-	-	74	-16.4	81	386	V
2	* 5.352	48.2	Pk	34.2	-21.7	0	60.7	-	-	74	-13.3	81	386	V
3	* 5.35	34.2	RMS	34.2	-21.7	-13	46.83	54	-7.17	-	-	81	386	V
4	* 5.35	34.33	RMS	34.2	-21.7	-13	46.96	54	-7.04	-	-	81	386	V

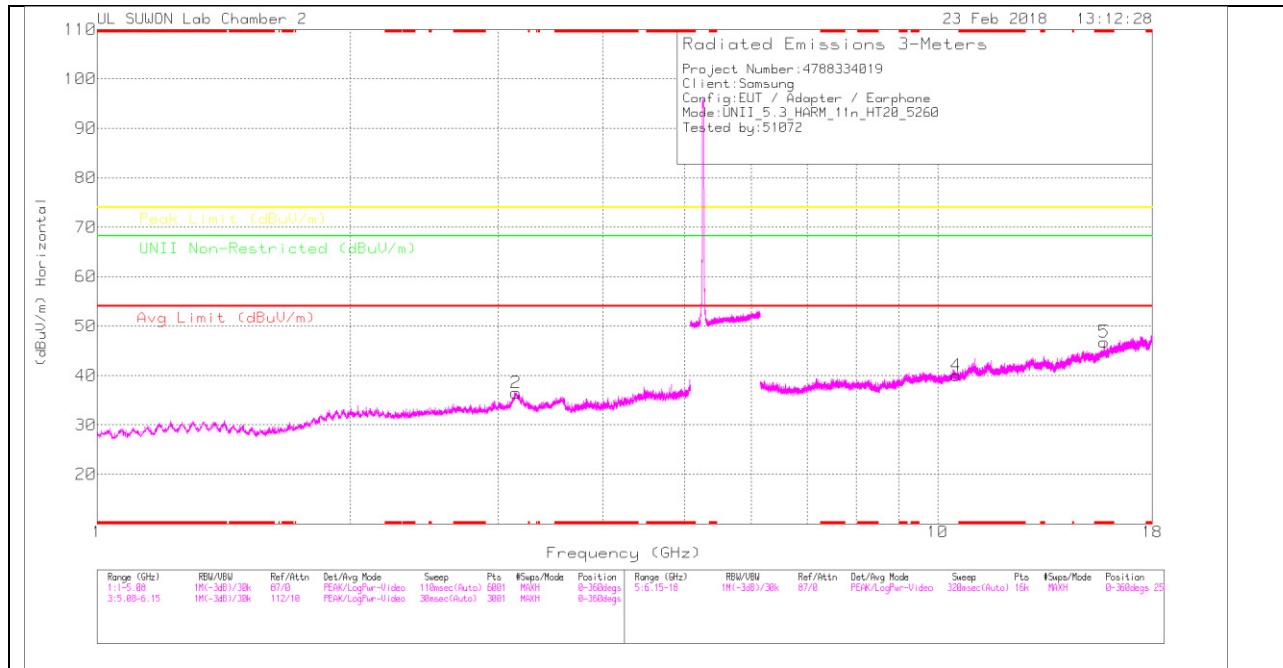
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

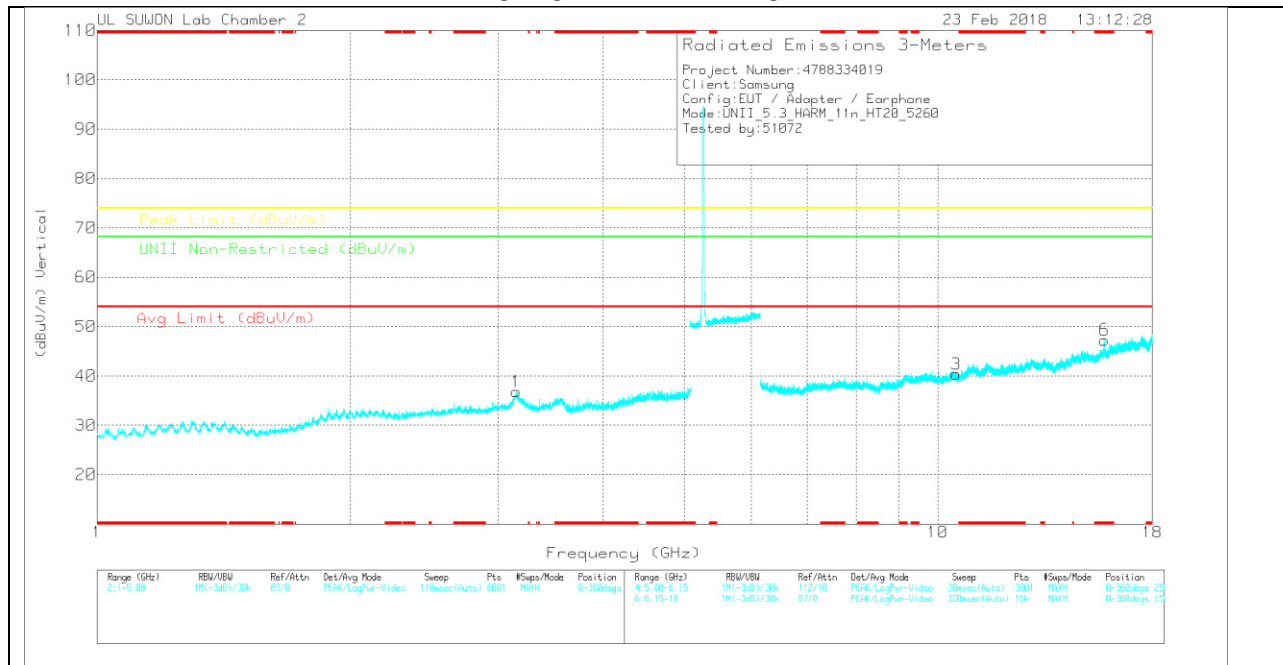
RMS - RMS detection

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117001887 24	5GHz_LF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNI Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
2	3.15	27.69	Avg	34.9	-26.1	0	36.49	-	-	-	-	68.2	-31.71	0-360	250	H
1	3.151	28	Avg	34.9	-26.1	0	36.8	-	-	-	-	68.2	-31.4	0-360	150	V
4	10.519	19.11	Avg	37.5	-16.6	0	40.01	-	-	-	-	68.2	-28.19	0-360	250	H
5	* 15.779	21.47	Avg	40.1	-14.8	0	46.77	-	-	74	-27.23	-	-	0-360	250	H
3	10.523	19.46	Avg	37.5	-16.6	0	40.36	-	-	-	-	68.2	-27.84	0-360	150	V
6	* 15.782	21.98	Avg	40.1	-14.8	0	47.28	-	-	74	-26.72	-	-	0-360	250	V

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

PK – Peak Detector Radiated Emissions

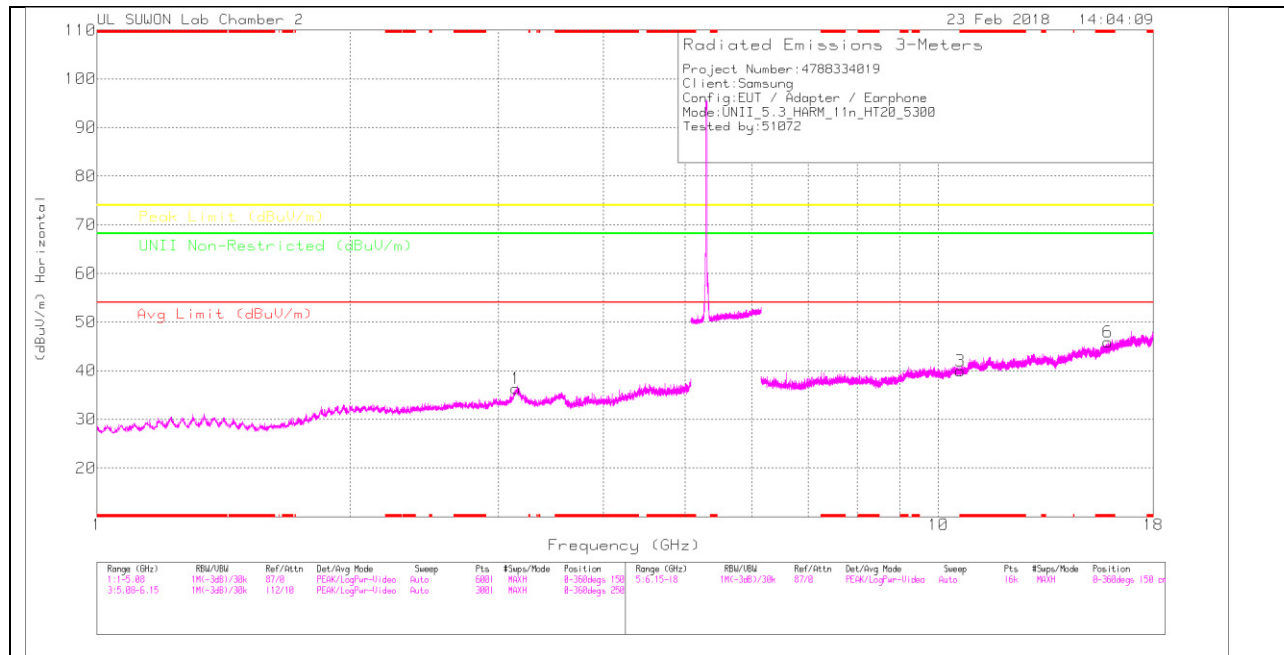
Frequency (GHz)	Meter Reading (dBuV)	Det	170531_311700188724	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNI Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
* 15.781	31.77	PK-U	40.1	-14.8	0	57.07	-	-	74	-16.93	-	-	262	133	H
* 15.778	18.67	ADR	40.1	-14.8	.13	44.1	54	-9.9	-	-	-	-	262	133	H
* 15.783	34.74	PK-U	40.1	-14.7	0	60.14	-	-	74	-13.86	-	-	174	111	V
* 15.783	20.54	ADR	40.1	-14.7	.13	46.07	54	-7.93	-	-	-	-	174	111	V

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

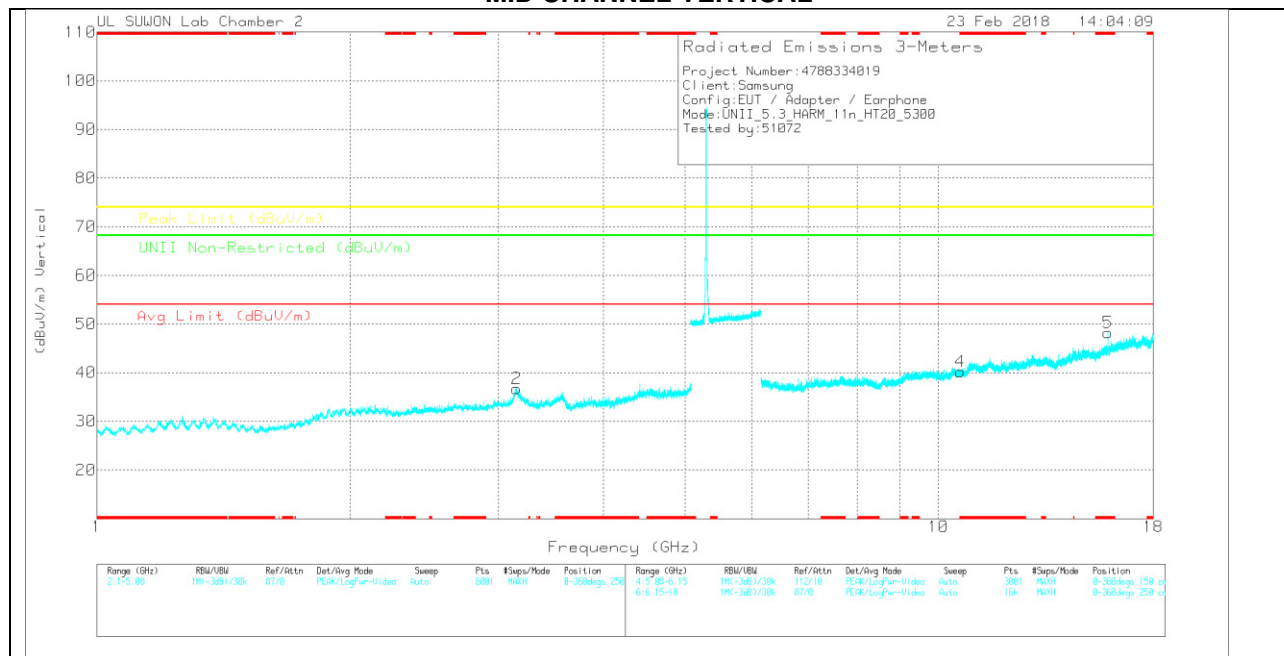
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_311700168724	5GHz_LP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	3.147	27.67	PK	34.8	-26.2	0	36.27	-	-	-	-	68.2	-31.93	0-360	250	H
2	3.152	27.93	PK	34.9	-26.1	0	36.73	-	-	-	-	68.2	-31.47	0-360	150	V
3	* 10.607	19.05	PK	37.6	-16.7	0	39.95	-	-	74	-34.05	-	-	0-360	150	H
6	* 15.903	20.28	PK	40.3	-14.7	0	45.88	-	-	74	-28.12	-	-	0-360	250	H
4	* 10.608	19.34	PK	37.6	-16.7	0	40.24	-	-	74	-33.76	-	-	0-360	150	V
5	* 15.9	22.56	PK	40.3	-14.7	0	48.16	-	-	74	-25.84	-	-	0-360	250	V

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

PK – Peak Detector

Radiated Emissions

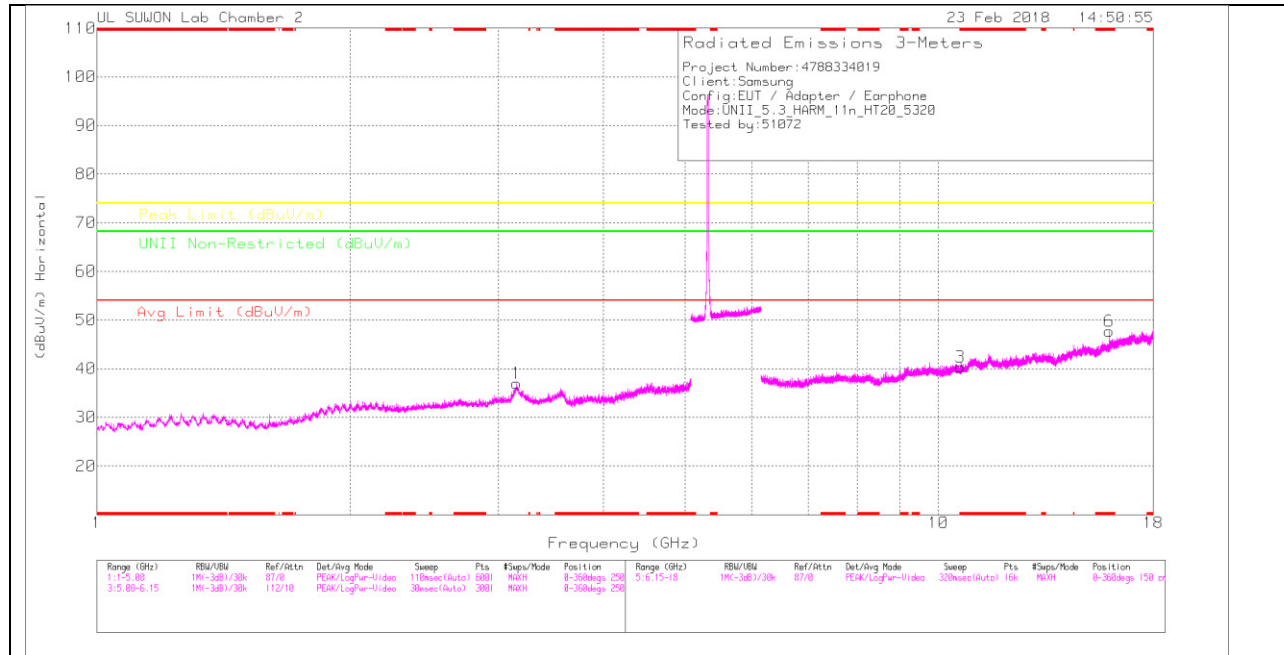
Frequency (GHz)	Meter Reading (dBuV)	Det	170531_311700168724	5GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
* 15.899	30.86	PK-U	40.3	-14.7	0	56.46	-	-	74	-17.54	-	-	248	138	H
* 15.904	18.23	ADR	40.3	-14.7	.13	43.96	54	-10.04	-	-	-	-	248	138	H
* 15.896	31.98	PK-U	40.3	-14.8	0	57.48	-	-	74	-16.52	-	-	251	320	H
* 15.898	18.23	ADR	40.3	-14.8	.13	43.86	54	-10.14	-	-	-	-	251	320	H

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

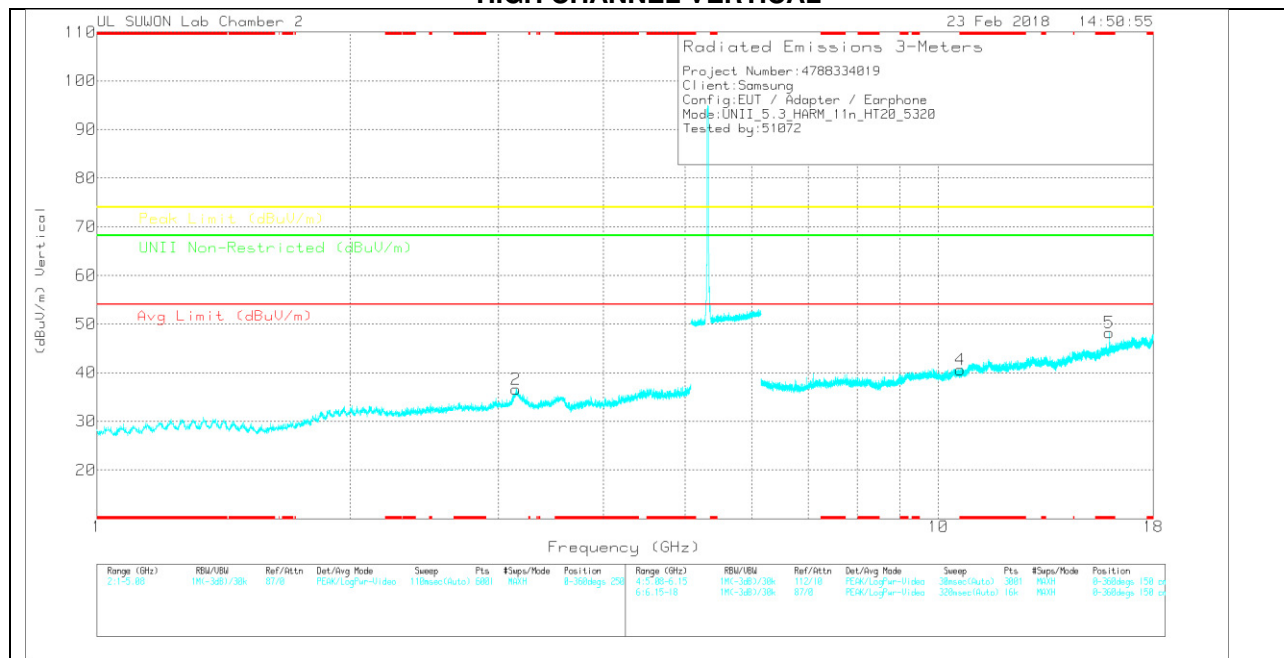
PK-U - U-NII: Maximum Peak

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170331_3117001887 24]	5GHz_1P[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.153	28.15	PK	34.8	-26	0	36.95	-	-	-	-	68.2	-31.25	0-360	150	H
2	3.149	27.75	PK	34.9	-26.1	0	36.55	-	-	-	-	68.2	-31.65	0-360	150	V
3	* 10.621	19.39	PK	37.6	-16.7	0	40.29	-	-	74	-33.71	-	-	0-360	150	H
6	* 15.959	21.72	PK	40.4	-14.4	0	47.72	-	-	74	-26.28	-	-	0-360	250	H
4	* 10.622	19.64	PK	37.6	-16.7	0	40.54	-	-	74	-33.46	-	-	0-360	150	V
5	* 15.966	22.07	PK	40.4	-14.3	0	48.17	-	-	74	-25.83	-	-	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

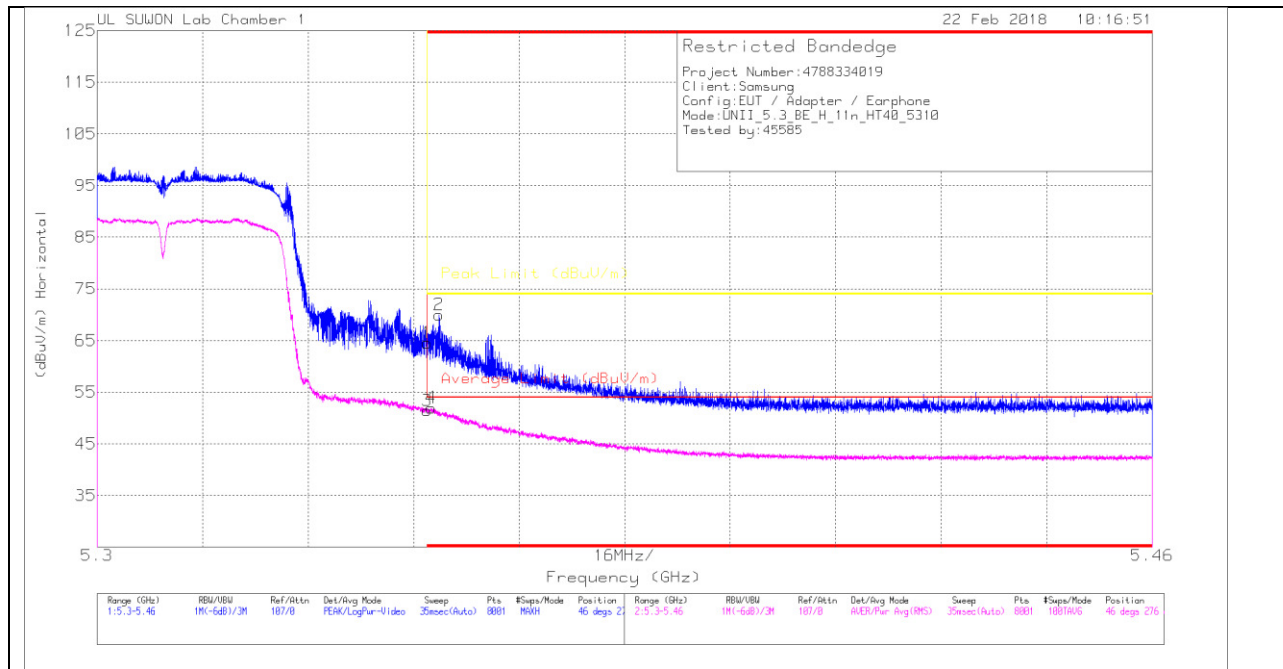
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	170331_311700188724]	5GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.958	29.49	PK-U	40.4	-14.4	0	55.49	-	-	74	-18.51	-	-	80	255	H
* 15.958	16.82	ADR	40.4	-14.4	.13	42.95	54	-11.05	-	-	-	-	80	255	H
* 15.963	33.7	PK-U	40.4	-14.3	0	59.8	-	-	74	-14.2	-	-	171	275	V
* 15.96	19.53	ADR	40.4	-14.4	.13	45.66	54	-8.34	-	-	-	-	171	275	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 MODE IN THE 5.3GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

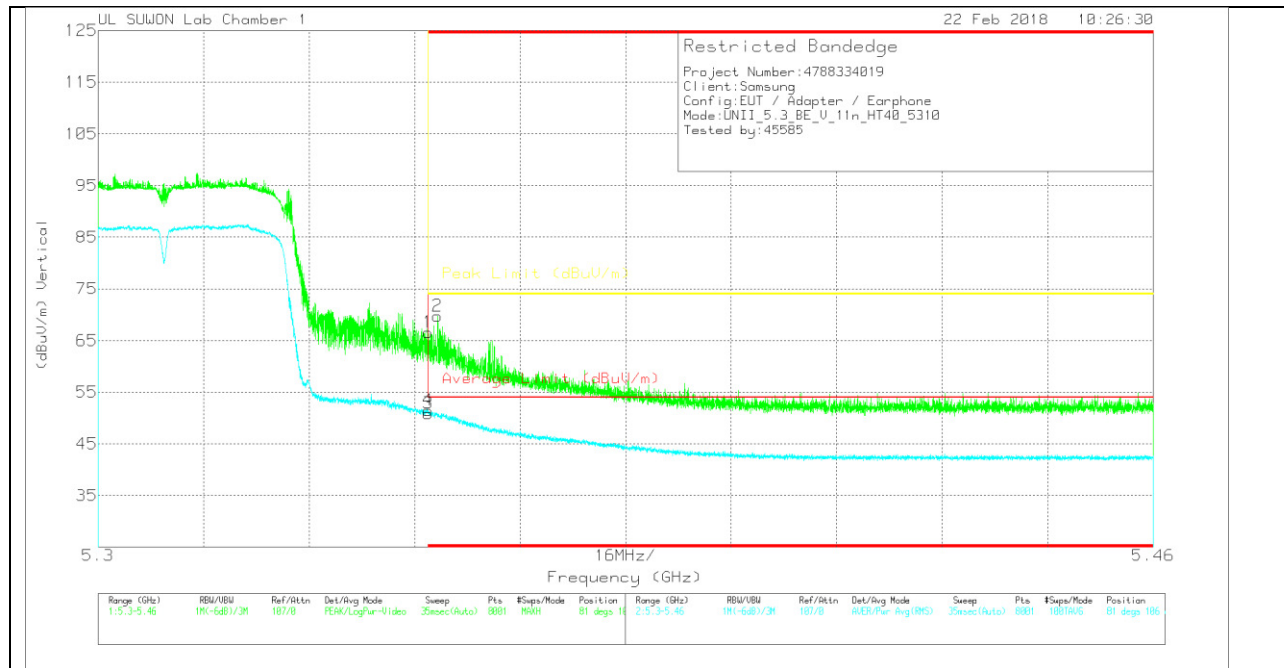
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (m)	Height (cm)	Polarity
1	* 5.35	52.05	Pk	34.2	-21.7	0	64.55	-	-	74	-9.45	46	276	H
2	* 5.352	57.5	Pk	34.2	-21.7	0	70	-	-	74	-4	46	276	H
3	* 5.35	38.69	RMS	34.2	-21.7	.24	51.43	54	-2.57	-	-	46	276	H
4	* 5.351	39.22	RMS	34.2	-21.7	.24	51.96	54	-2.04	-	-	46	276	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	* 5.35	54.08	Pk	34.2	-21.7	0	66.58	-	-	74	-7.42	81	106	V
2	* 5.351	57.26	Pk	34.2	-21.7	0	69.76	-	-	74	-4.24	81	106	V
3	* 5.35	38.17	RMS	34.2	-21.7	-24	50.91	54	-3.09	-	-	81	106	V
4	* 5.35	38.77	RMS	34.2	-21.7	-24	51.51	54	-2.49	-	-	81	106	V

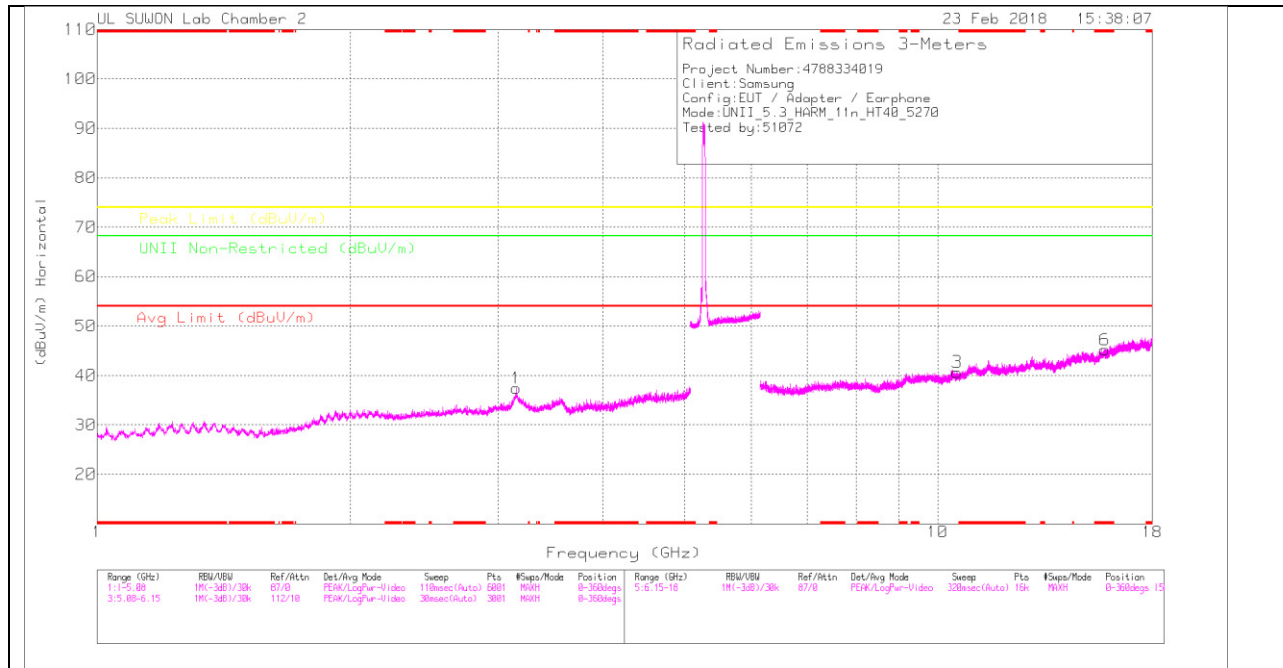
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

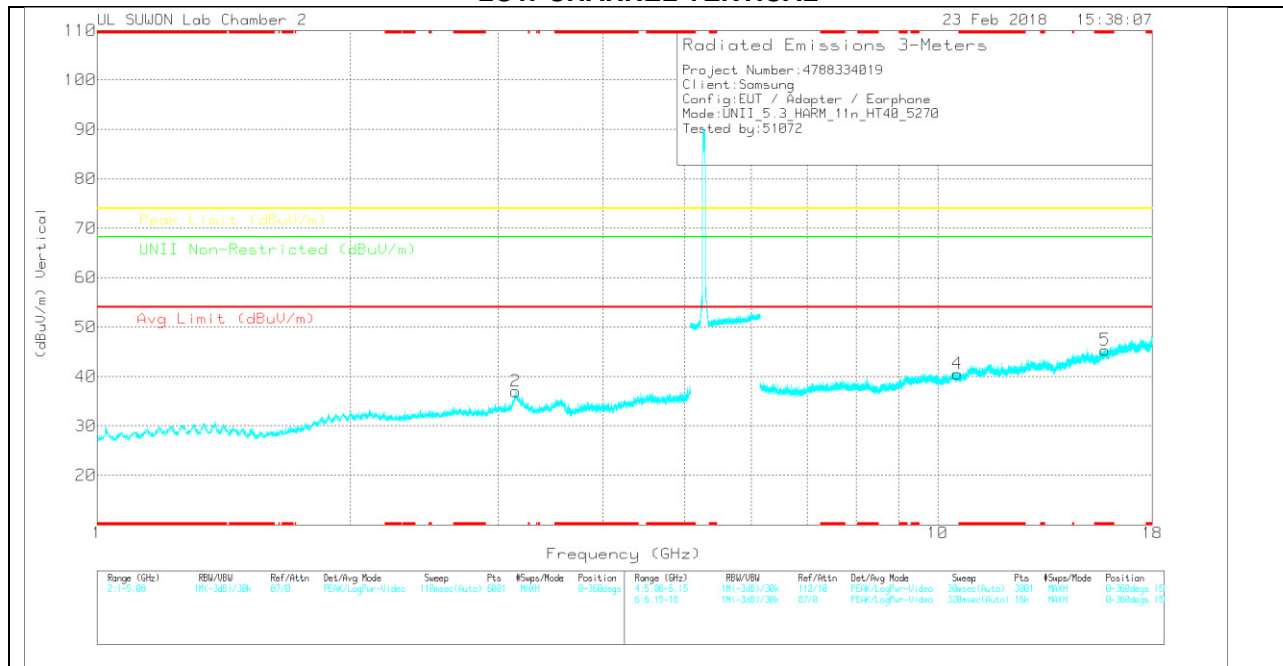
RMS - RMS detection

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117003887 24)	5GHz_1P(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UL/Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	3.154	28.64	PK	34.8	-26	0	37.44	-	-	-	-	68.2	-30.76	0-360	150	H
2	3.146	28.5	PK	34.7	-26.2	0	37	-	-	-	-	68.2	-31.2	0-360	250	V
3	10.546	19.55	PK	37.6	-16.5	0	40.65	-	-	-	-	68.2	-27.55	0-360	150	H
6	* 15.806	19.79	PK	40.1	-14.7	0	45.19	-	-	74	-28.81	-	-	0-360	250	H
4	10.55	19.43	PK	37.6	-16.5	0	40.53	-	-	-	-	68.2	-27.67	0-360	150	V
5	* 15.81	19.97	PK	40.1	-14.7	0	45.37	-	-	74	-28.63	-	-	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).