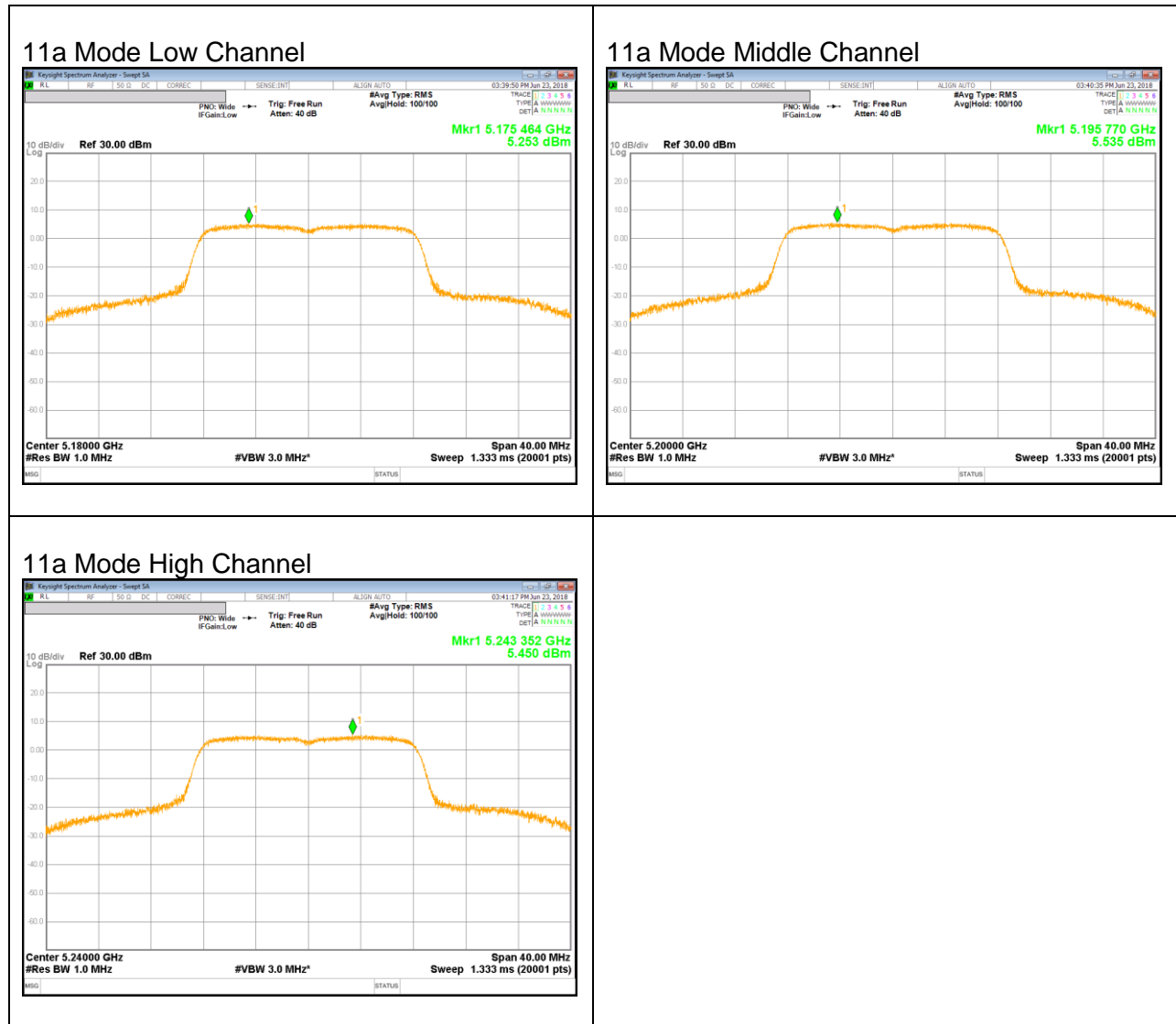
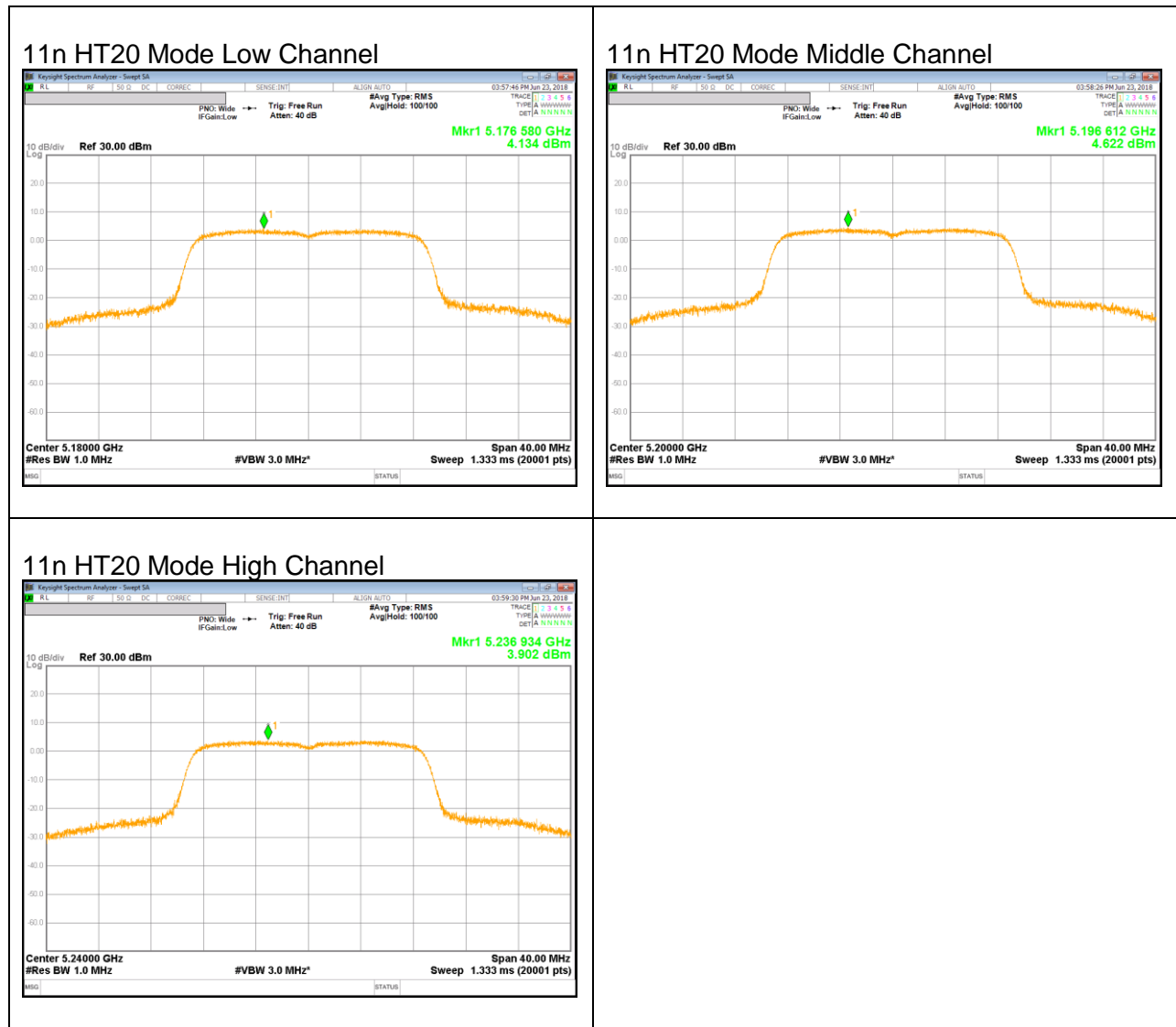


10.2.13. PPSD PLOTS

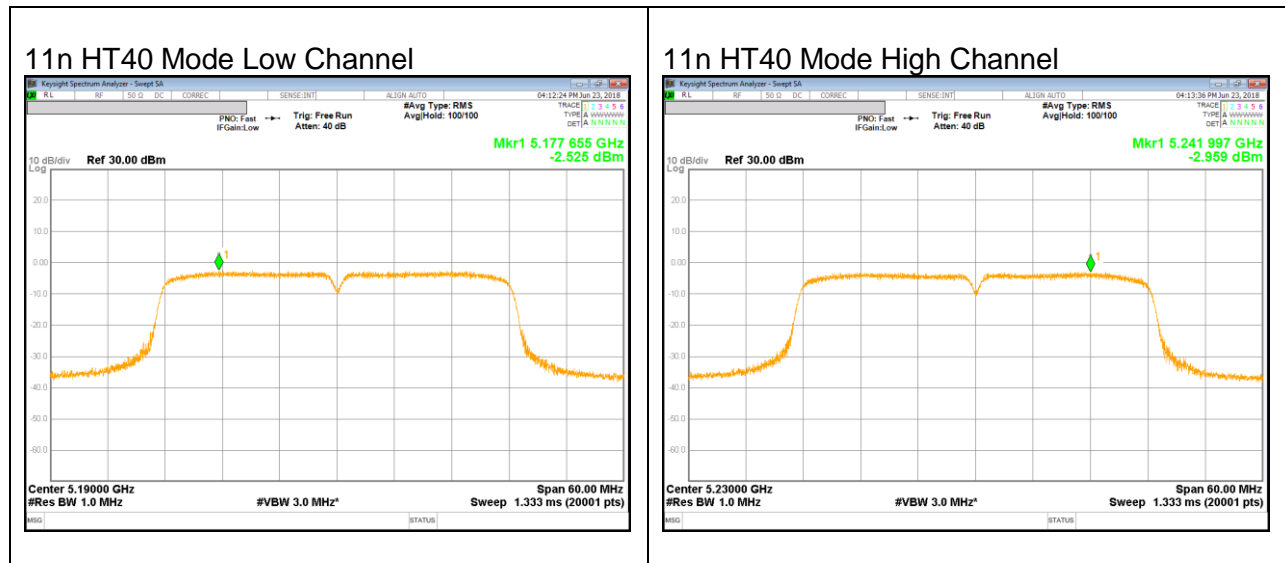
UNII 5.2 GHz IEEE 802.11a mode



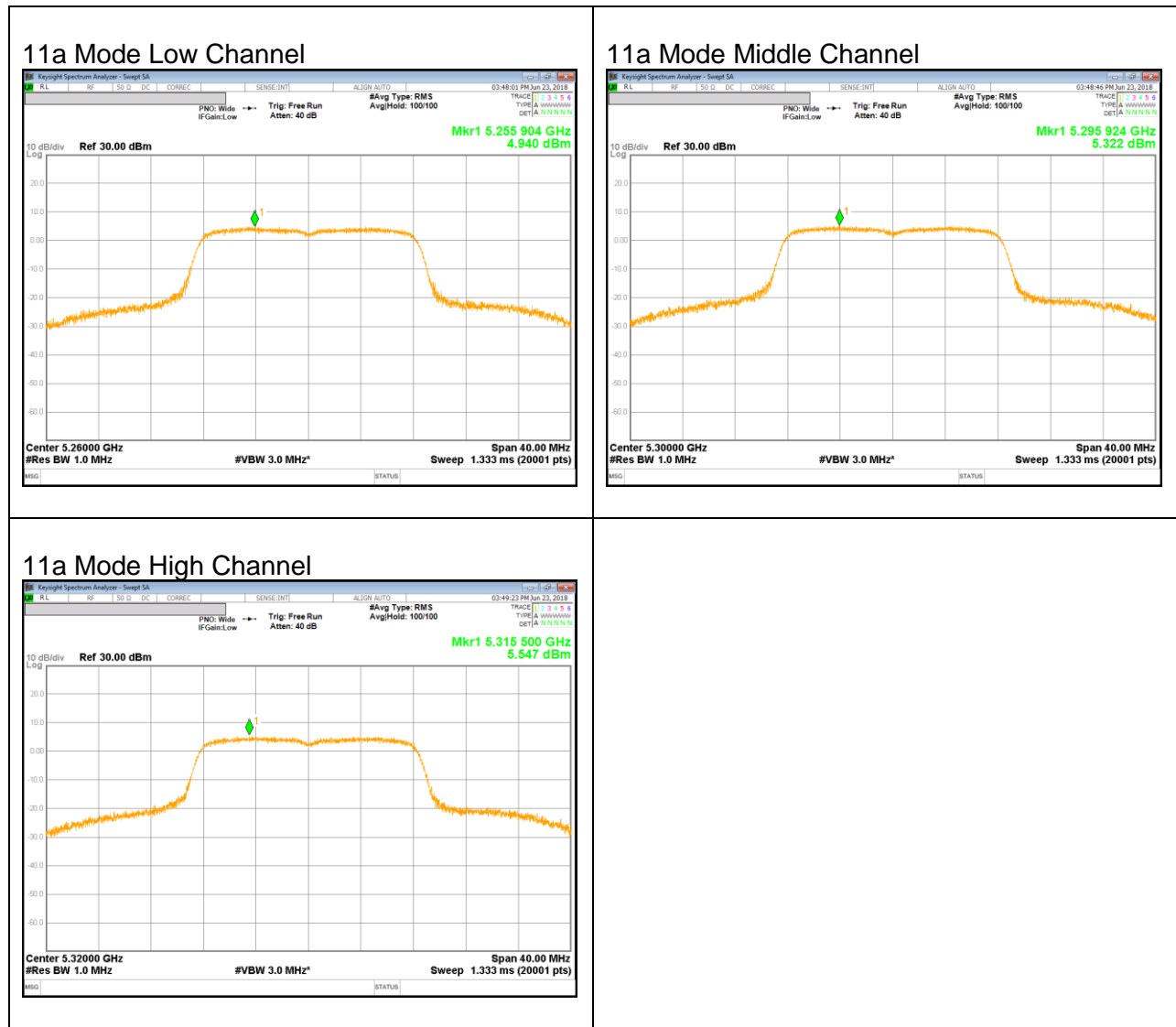
UNII 5.2 GHz IEEE 802.11n HT20 mode



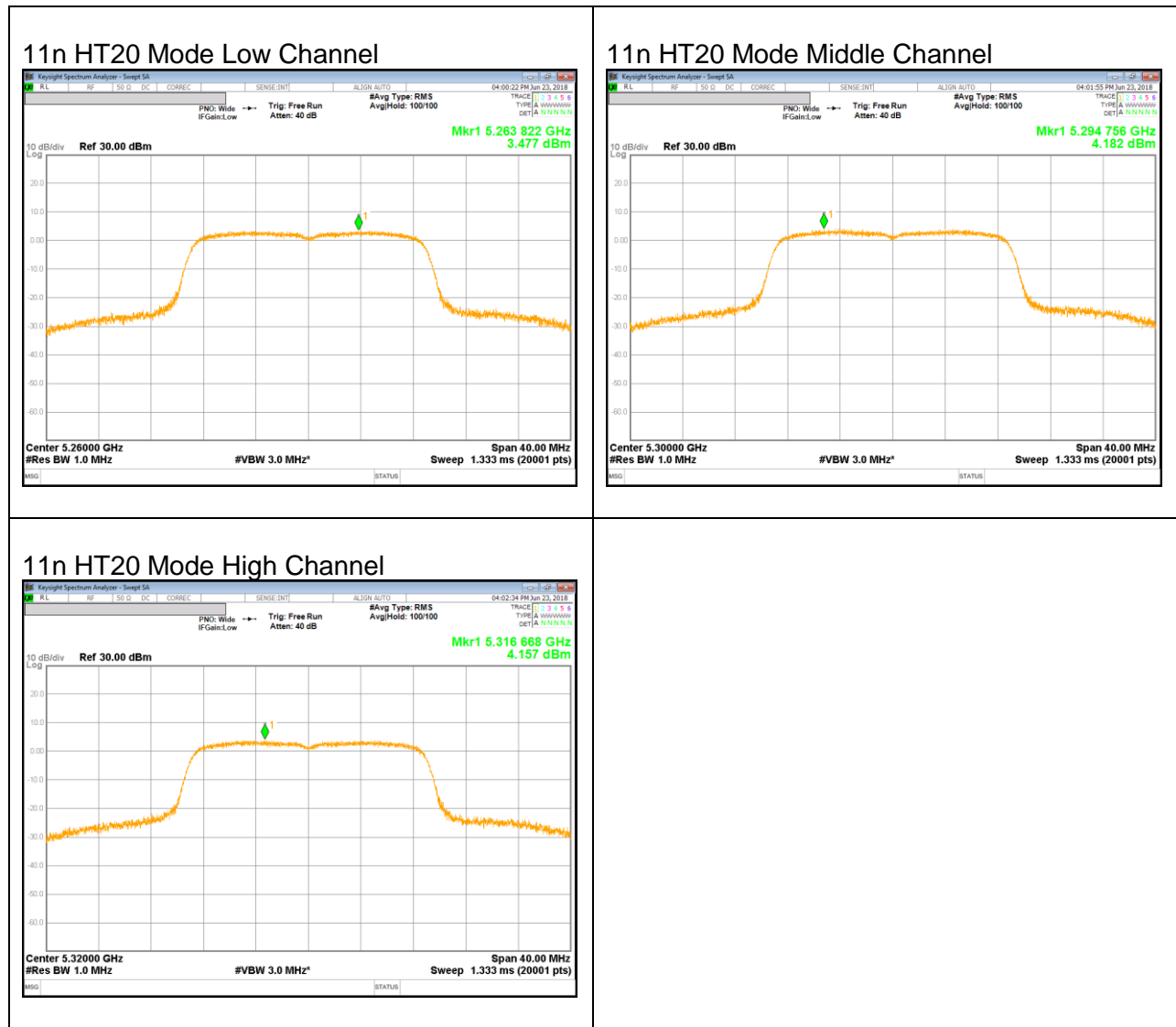
UNII 5.2 GHz IEEE 802.11n HT40 mode



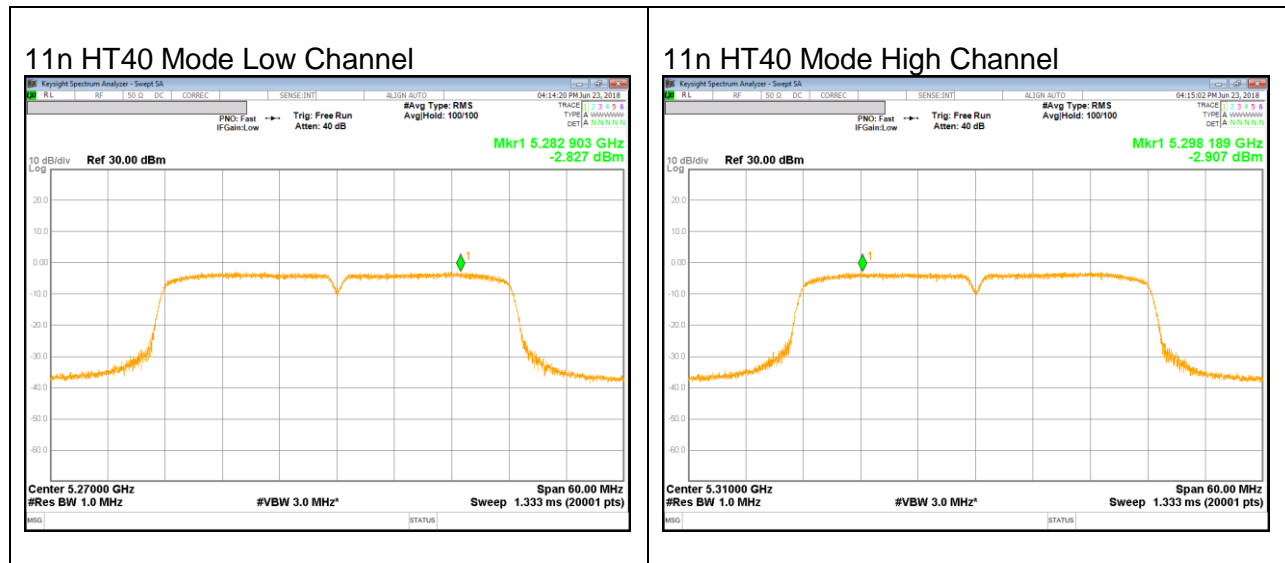
UNII 5.3 GHz IEEE 802.11a mode



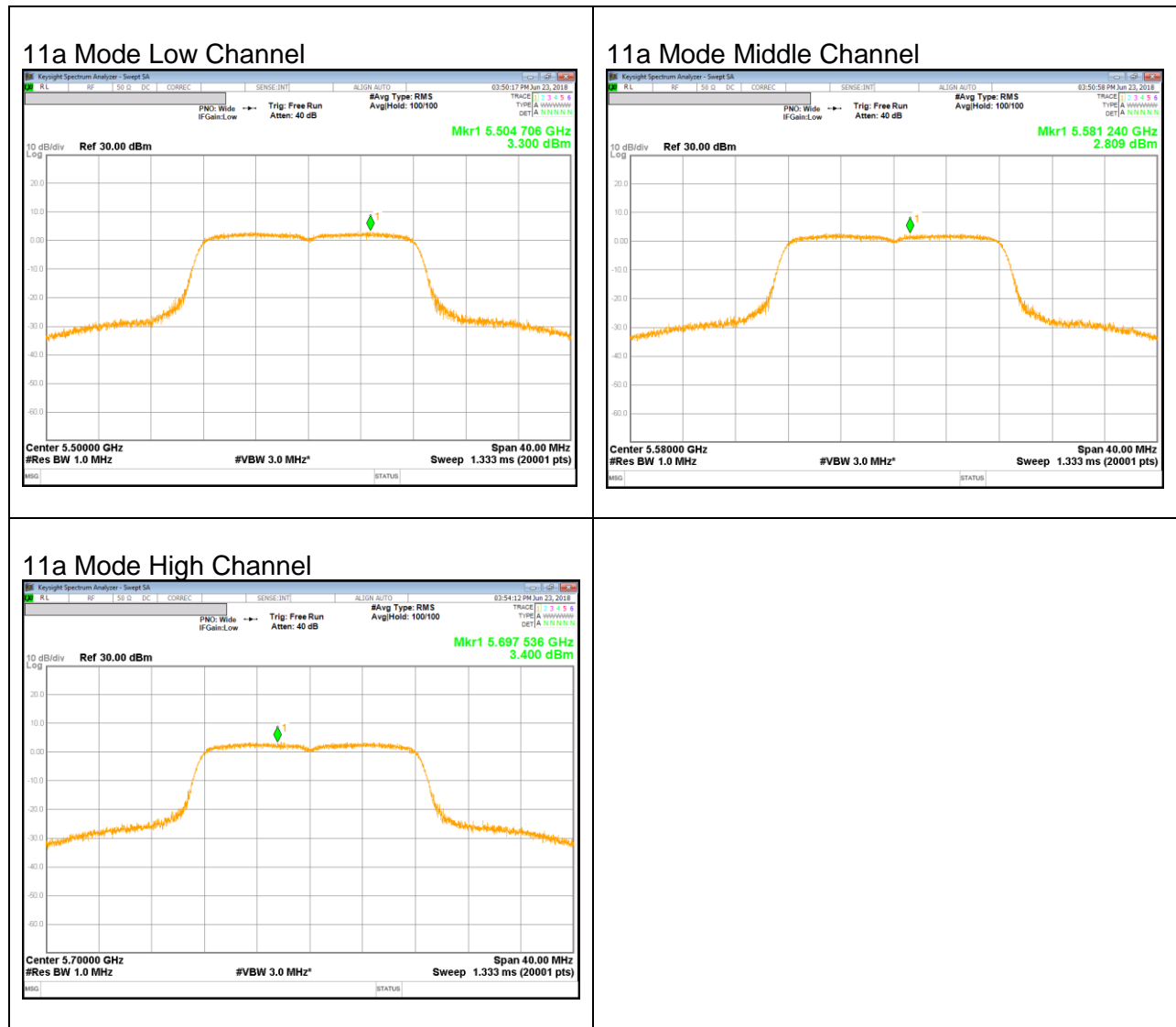
UNII 5.3 GHz IEEE 802.11n HT20 mode



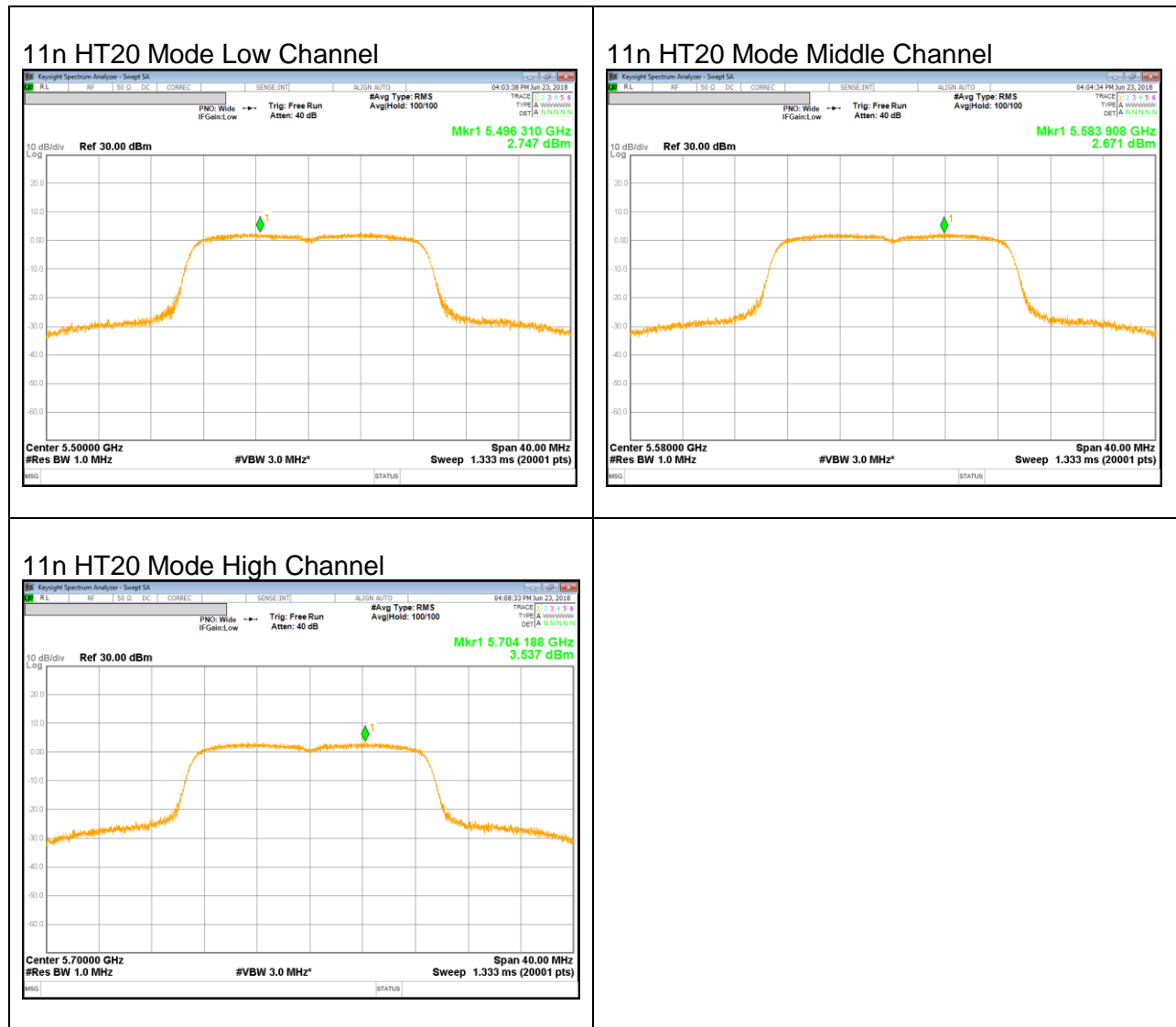
UNII 5.3 GHz IEEE 802.11n HT40 mode



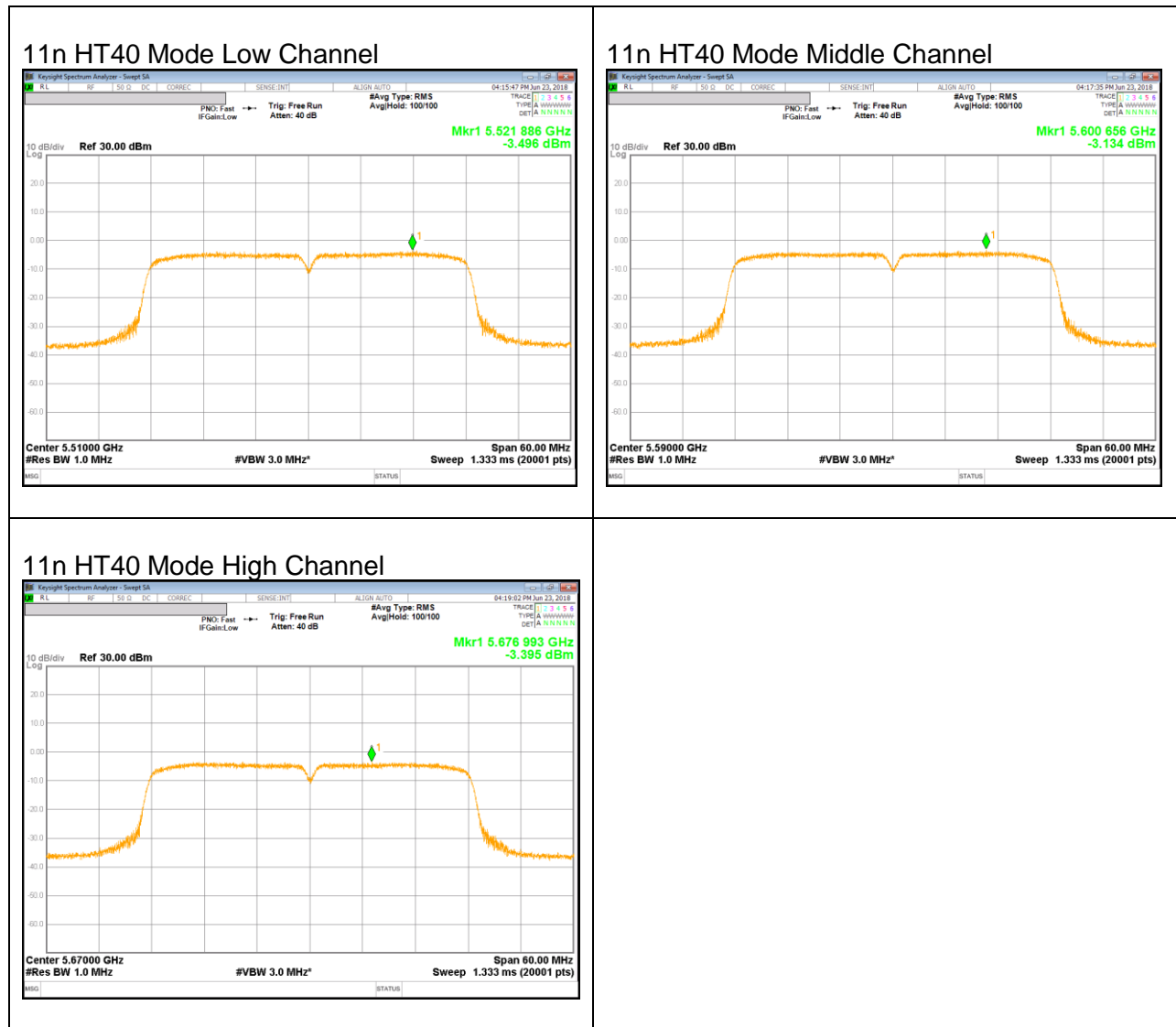
UNII 5.5 GHz IEEE 802.11a mode



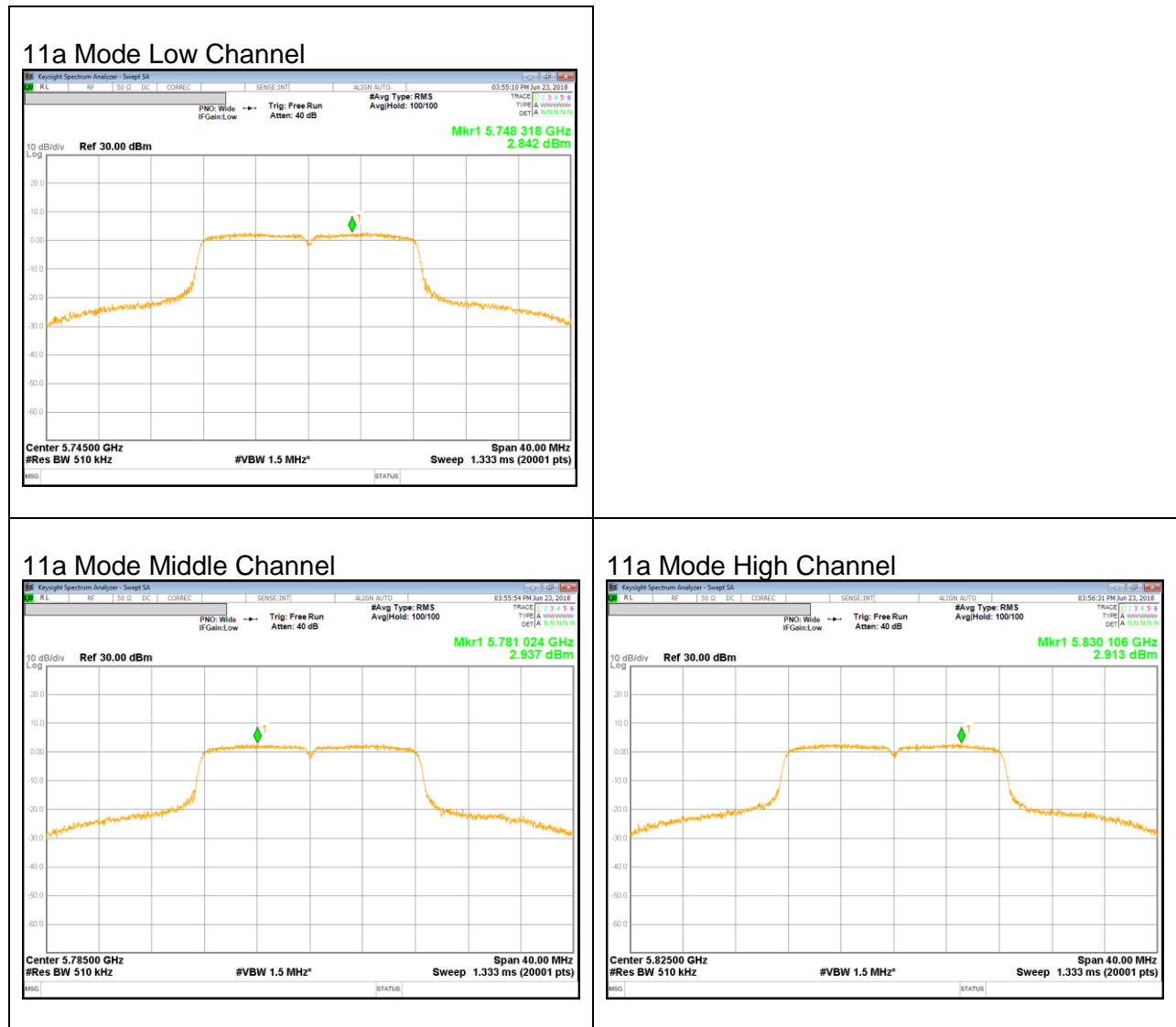
UNII 5.5 GHz IEEE 802.11n HT20 mode



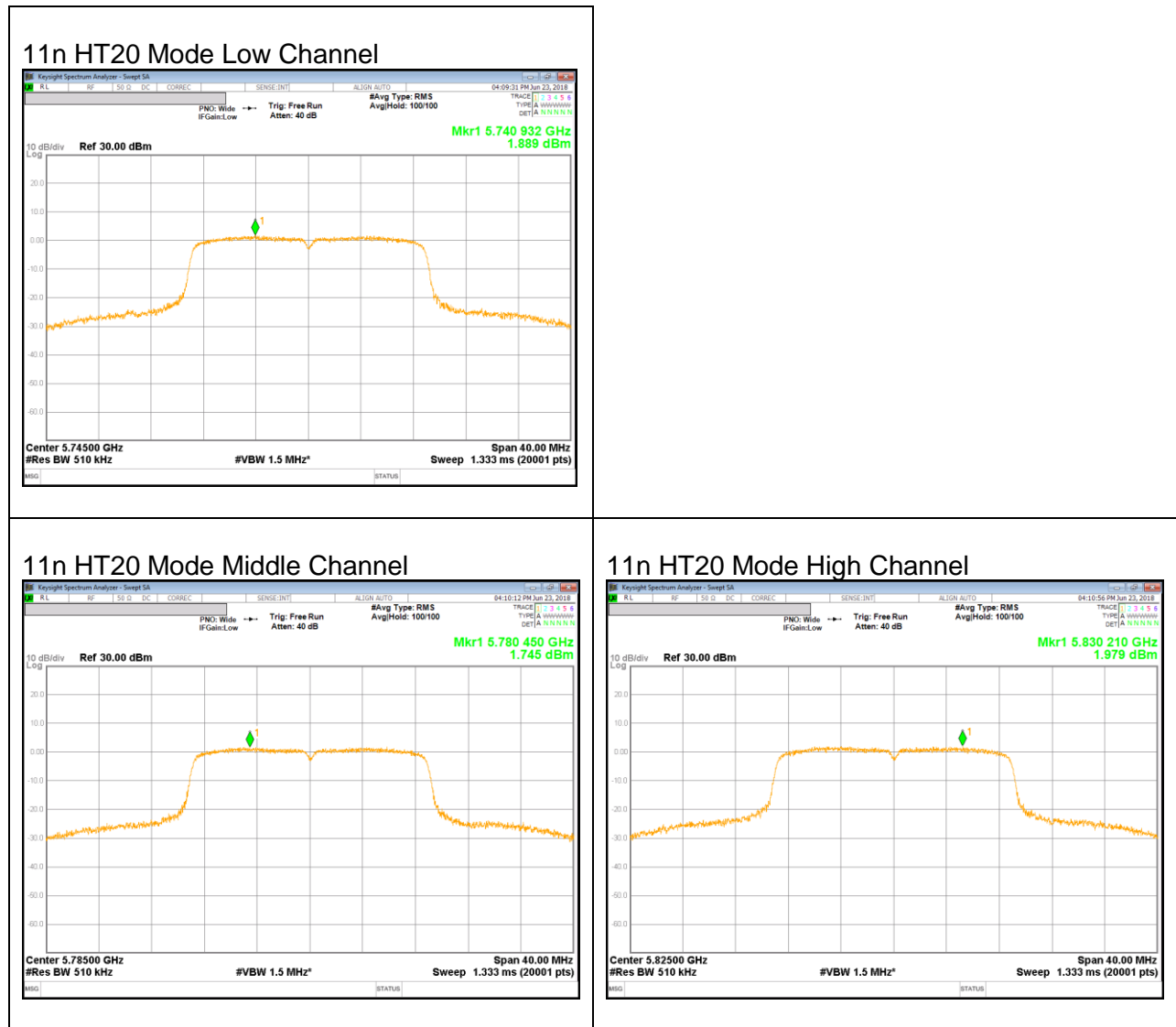
UNII 5.5 GHz IEEE 802.11n HT40 mode



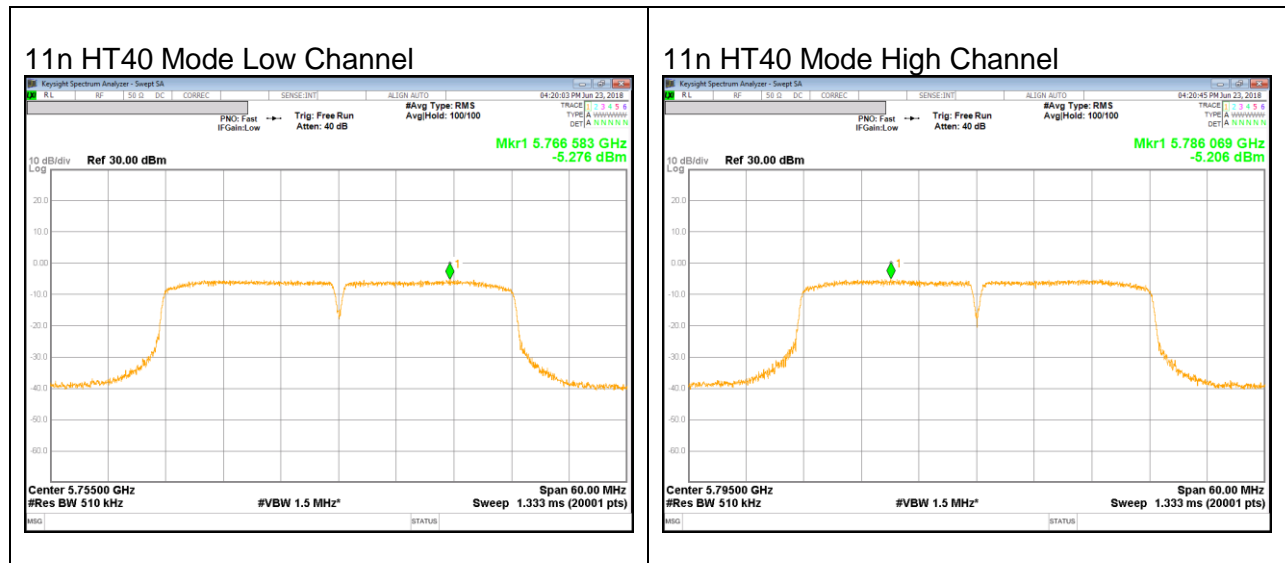
UNII 5.8 GHz IEEE 802.11a mode



UNII 5.8 GHz IEEE 802.11n HT20 mode



UNII 5.8 GHz IEEE 802.11n HT40 mode



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 are test site.

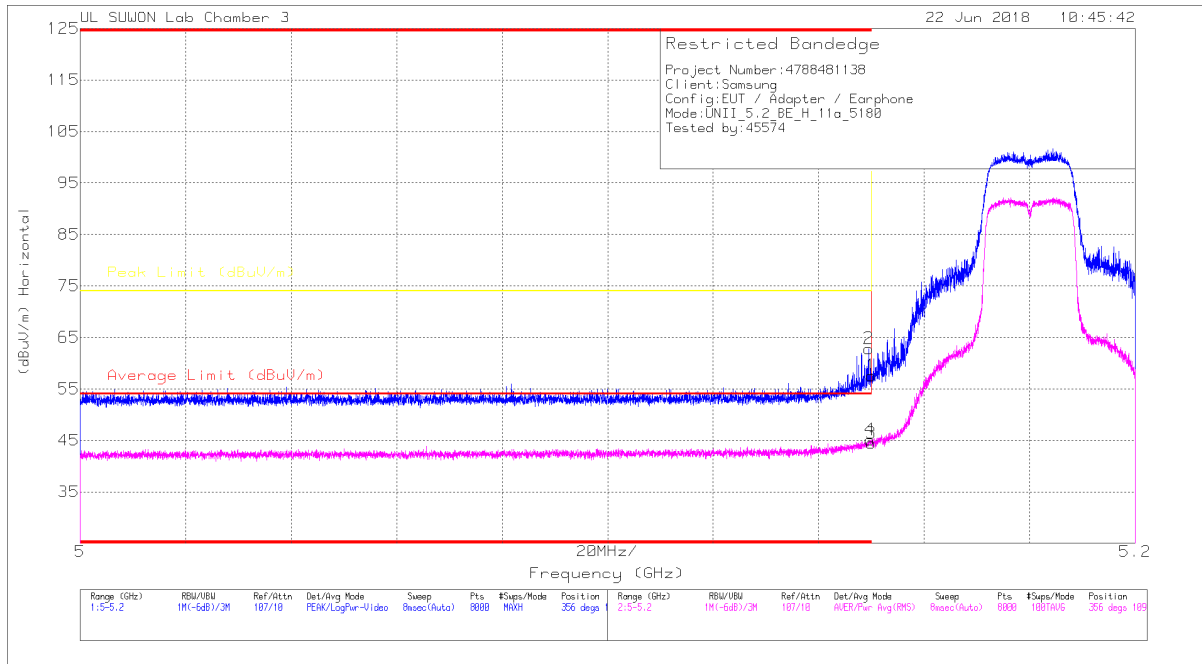
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

11.1. 5.2 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

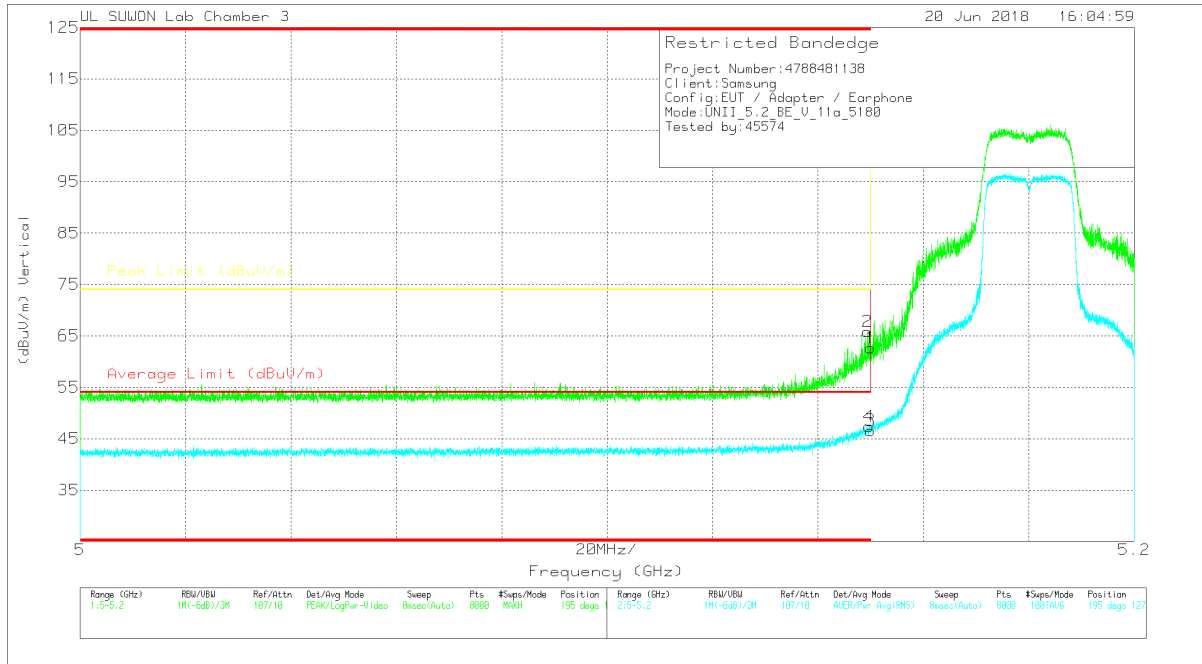
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.1	Pk	34.3	-18.8	0	57.6	-	-	74	-16.4	356	109	H
2	* 5.149	47.32	Pk	34.3	-18.8	0	62.82	-	-	74	-11.18	356	109	H
3	* 5.15	29.47	RMS	34.3	-19.3	0	44.47	54	-9.53	-	-	356	109	H
4	* 5.15	30.12	RMS	34.3	-19.3	0	45.12	54	-8.88	-	-	356	109	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	3117(00205959)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.16	PK	34.3	-18.8	0	62.66	-	-	74	-11.34	195	127	V
2	* 5.149	50.31	PK	34.3	-18.8	0	65.81	-	-	74	-8.19	195	127	V
3	* 5.15	31.57	RMS	34.3	-19.3	0	46.57	54	-7.43	-	-	195	127	V
4	* 5.15	32.4	RMS	34.3	-19.3	0	47.4	54	-6.6	-	-	195	127	V

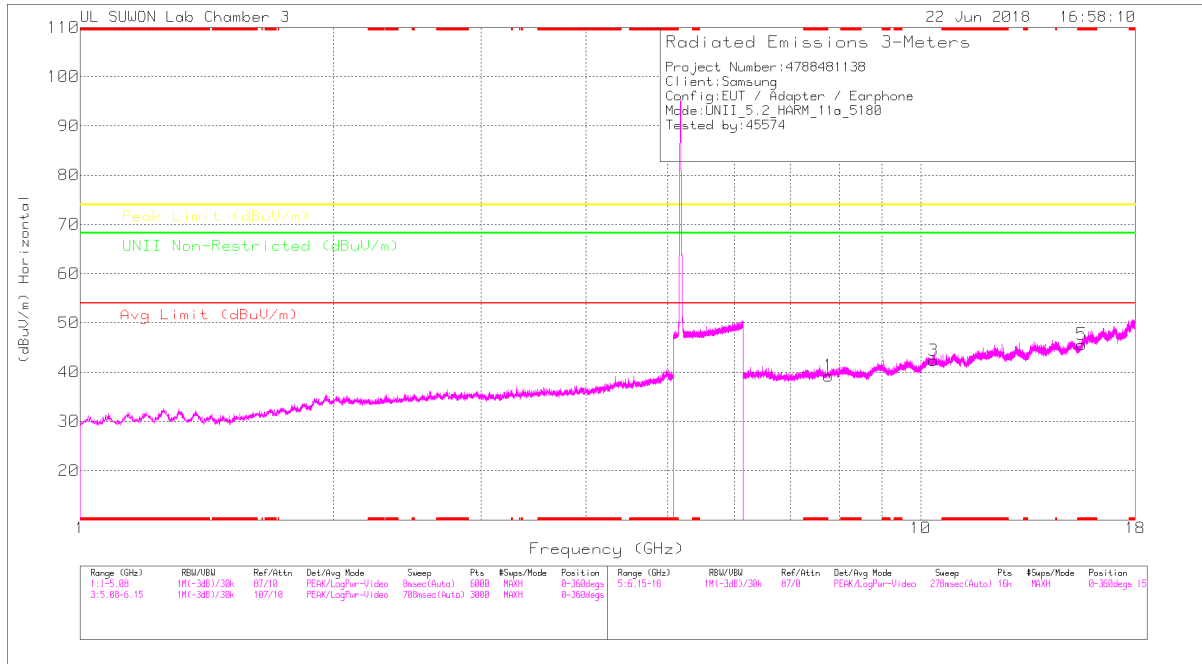
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

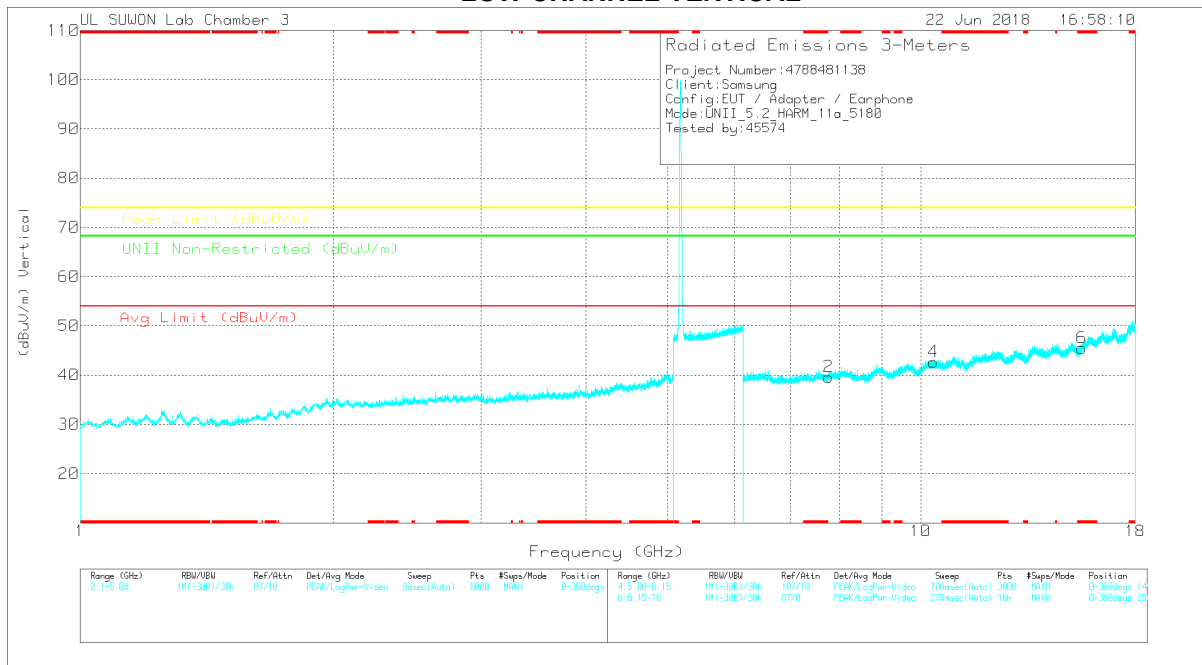
RMS - RMS detection

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

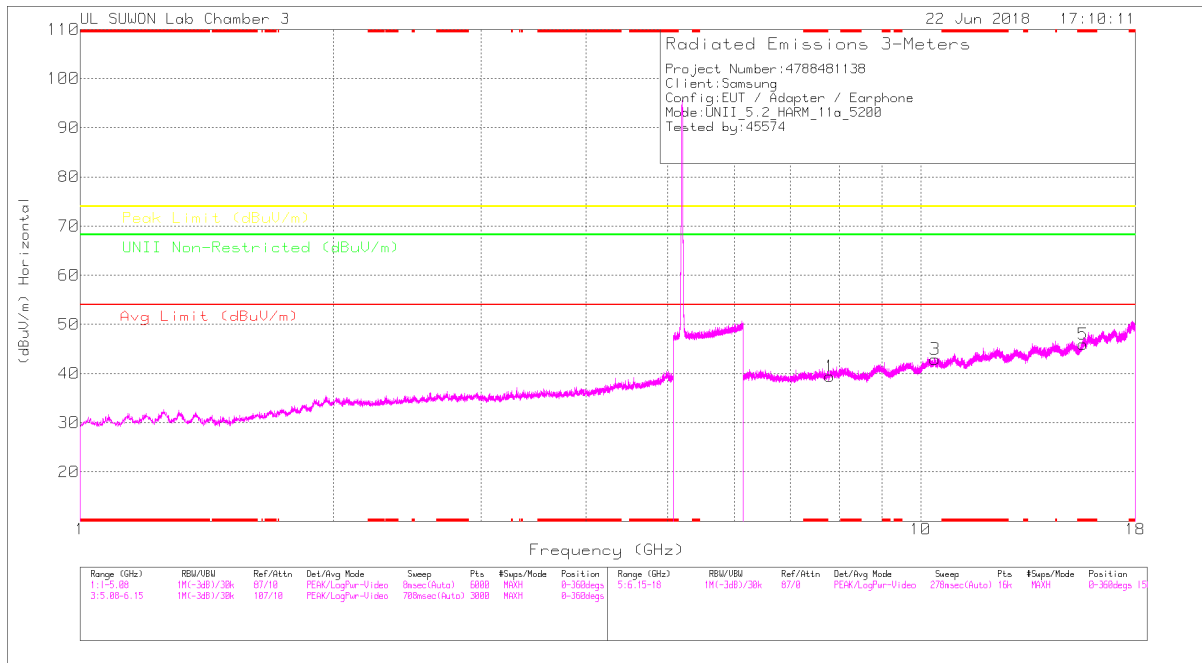
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0205959)	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.771	26.66	PK	35.6	-23	0	39.26	-	-	-	-	68.2	-28.94	0-360	250	H
3	10.361	24.08	PK	37.5	-19.2	0	42.38	-	-	-	-	68.2	-25.82	0-360	150	H
5	* 15.54	25.41	PK	40	-19.8	0	45.61	-	-	74	-28.39	-	-	0-360	150	H
2	7.771	27.04	PK	35.6	-23	0	39.64	-	-	-	-	68.2	-28.56	0-360	149	V
4	10.361	24.37	PK	37.5	-19.2	0	42.67	-	-	-	-	68.2	-25.53	0-360	149	V
6	* 15.54	25.33	PK	40	-19.8	0	45.53	-	-	74	-28.47	-	-	0-360	250	V

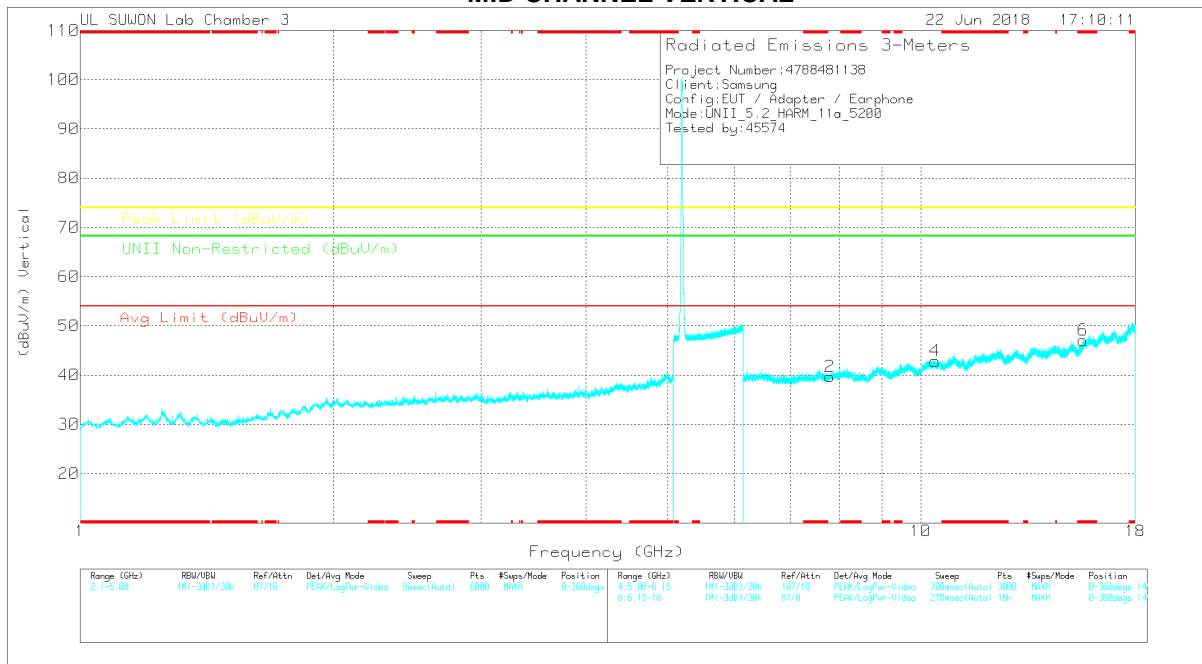
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

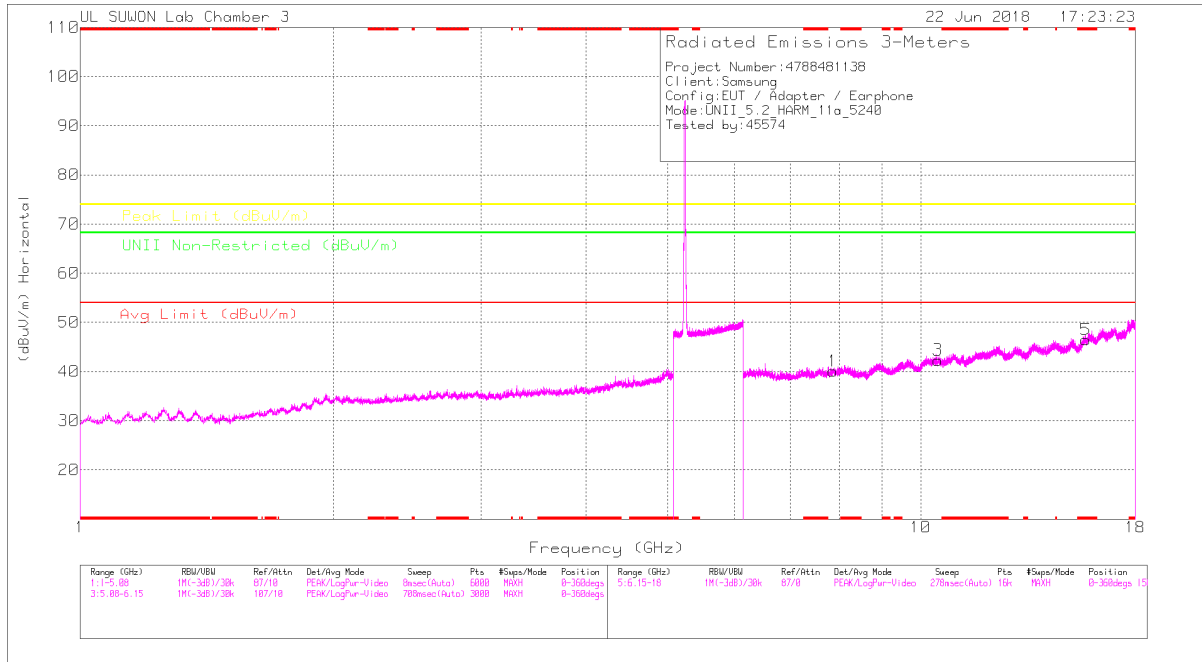
Trace Markers

Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	3117(0205959)	6GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.8	26.66	PK	35.6	-22.8	0	39.46	-	-	-	-	68.2	-28.74	0-360	250	H
3	10.4	24.72	PK	37.5	-19.3	0	42.92	-	-	-	-	68.2	-25.28	0-360	250	H
5	* 15.6	25.14	PK	40.2	-19.4	0	45.94	-	-	74	-28.06	-	-	0-360	150	H
2	7.8	26.89	PK	35.6	-22.8	0	39.69	-	-	-	-	68.2	-28.51	0-360	250	V
4	10.401	24.64	PK	37.5	-19.3	0	42.84	-	-	-	-	68.2	-25.36	0-360	250	V
6	* 15.6	26.27	PK	40.2	-19.4	0	47.07	-	-	74	-26.93	-	-	0-360	149	V

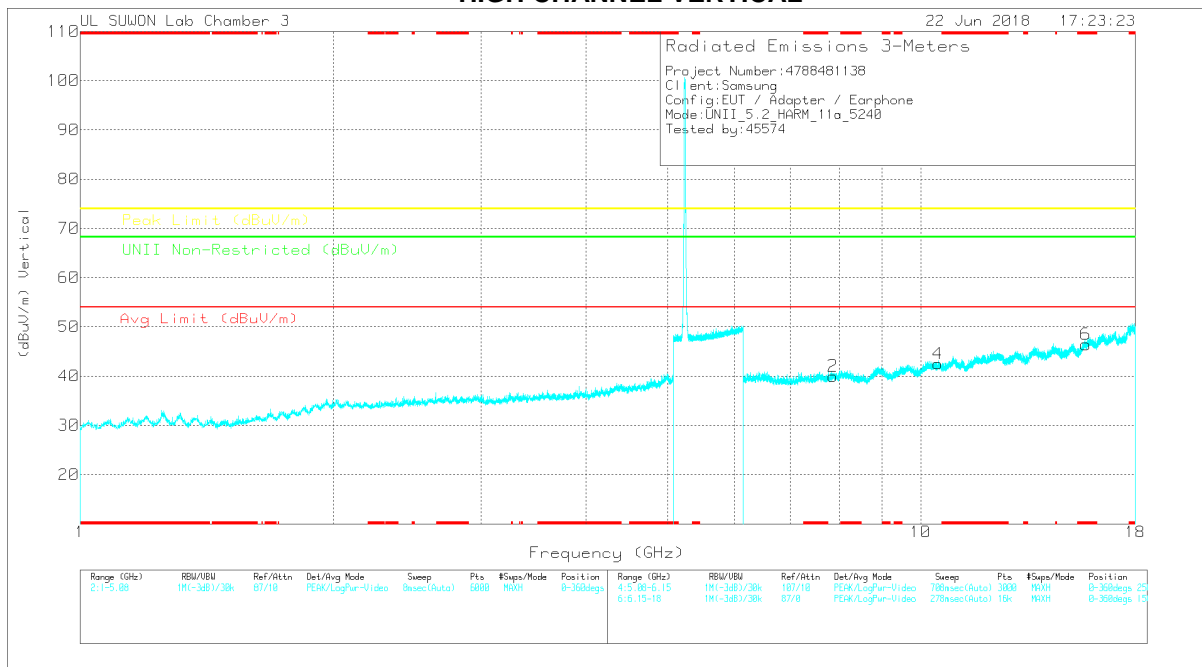
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

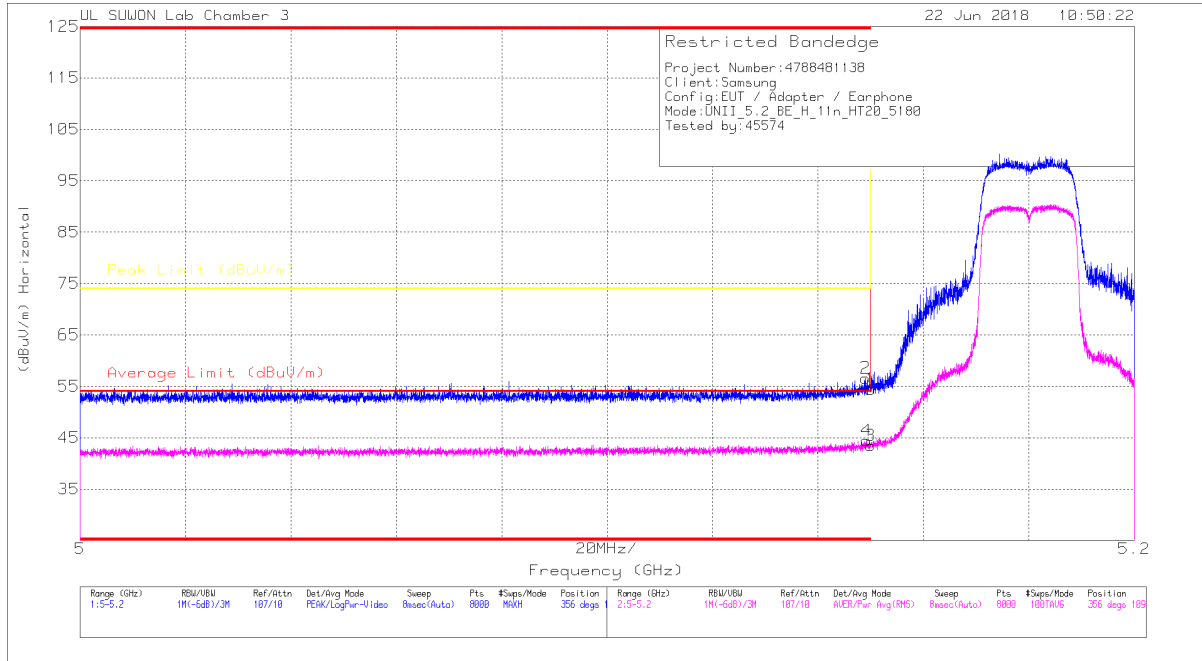
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0205959)	5GHz_HPI(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.861	26.76	PK	35.6	-22.3	0	40.06	-	-	-	-	68.2	-28.14	0-360	150	H
3	10.481	23.91	PK	37.7	-19.3	0	42.31	-	-	-	-	68.2	-25.89	0-360	150	H
5	* 15.72	25.17	PK	40.5	-19.2	0	46.47	-	-	74	-27.53	-	-	0-360	250	H
2	7.861	26.68	PK	35.6	-22.3	0	39.98	-	-	-	-	68.2	-28.22	0-360	150	V
4	10.48	24.09	PK	37.7	-19.3	0	42.49	-	-	-	-	68.2	-25.71	0-360	250	V
6	* 15.72	25.13	PK	40.5	-19.2	0	46.43	-	-	74	-27.57	-	-	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).

11.1.2.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

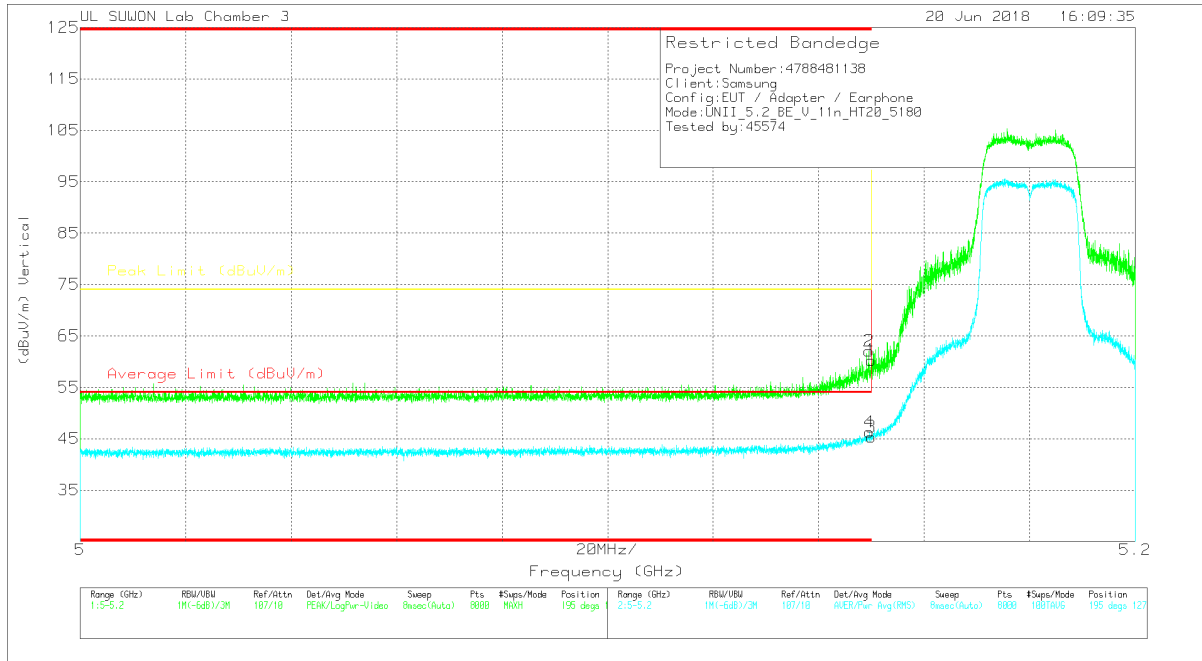
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00209599)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.94	Pk	34.3	-18.8	0	54.44	-	-	74	-19.56	356	109	H
2	* 5.149	41.18	Pk	34.3	-18.9	0	56.58	-	-	74	-17.42	356	109	H
3	* 5.15	28.47	RMS	34.3	-19.3	0	43.47	54	-10.53	-	-	356	109	H
4	* 5.149	29.47	RMS	34.3	-19.3	0	44.47	54	-9.53	-	-	356	109	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	3117(00205959)	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.78	Pk	34.3	-18.8	0	60.28	-	-	74	-13.72	195	127	V
2	* 5.15	46.53	Pk	34.3	-18.8	0	62.03	-	-	74	-11.97	195	127	V
3	* 5.15	30.34	RMS	34.3	-19.3	0	45.34	54	-8.66	-	-	195	127	V
4	* 5.15	31.28	RMS	34.3	-19.3	0	46.28	54	-7.72	-	-	195	127	V

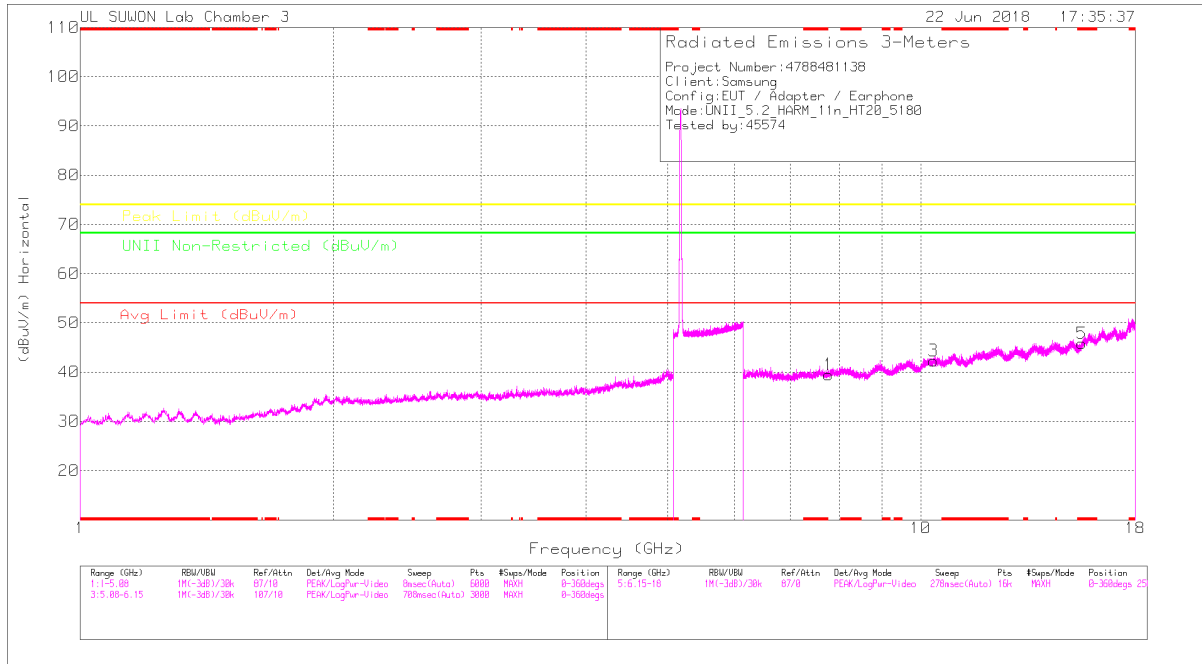
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

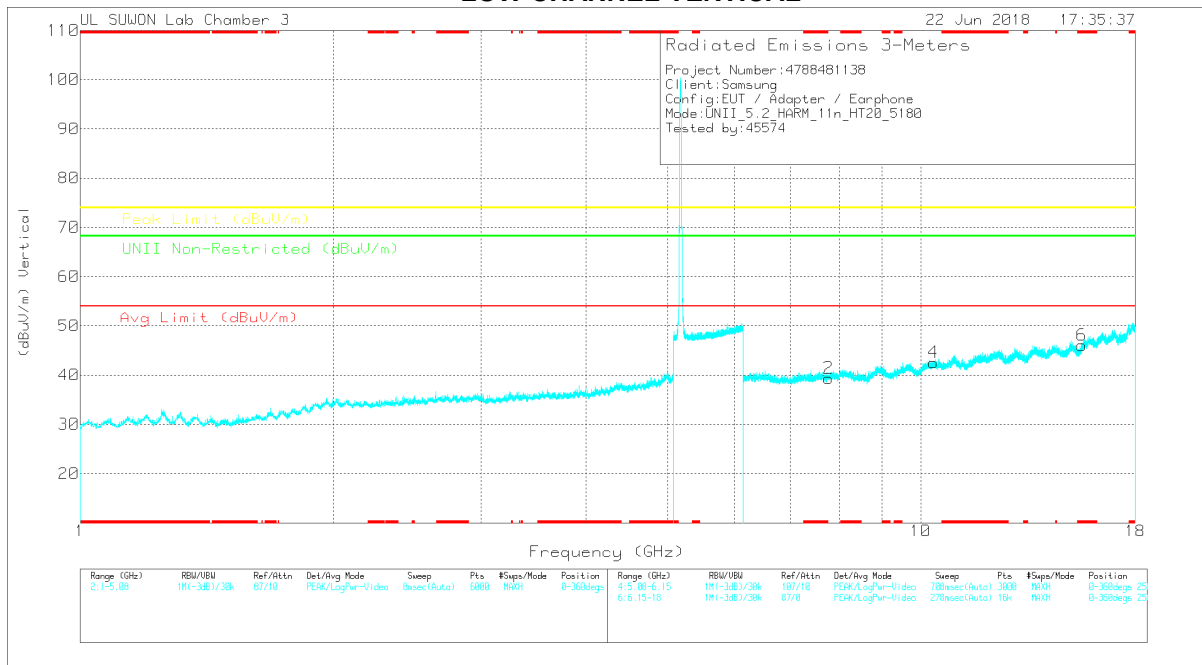
RMS - RMS detection

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

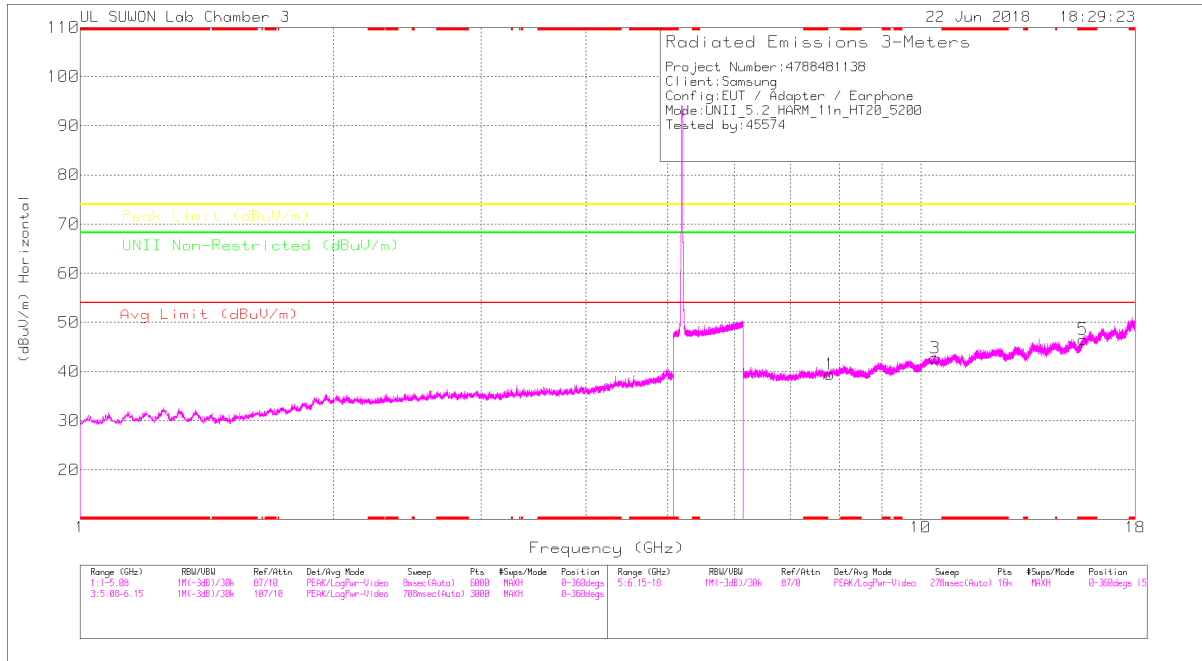
Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	3117(0020995)	66Hz_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
1	7.771	26.87	PK	35.6	-23	0	39.47	-	-	-	-	68.2	-28.73	0-360	250	H
3	10.361	24	PK	37.5	-19.2	0	42.3	-	-	-	-	68.2	-25.9	0-360	250	H
5	* 15.541	25.54	PK	40	-19.7	0	45.84	-	-	74	-28.16	-	-	0-360	250	H
2	7.771	26.76	PK	35.6	-23	0	39.36	-	-	-	-	68.2	-28.84	0-360	250	V
4	10.36	24.36	PK	37.5	-19.3	0	42.56	-	-	-	-	68.2	-25.64	0-360	250	V
6	* 15.542	25.74	PK	40	-19.7	0	46.04	-	-	74	-27.96	-	-	0-360	250	V

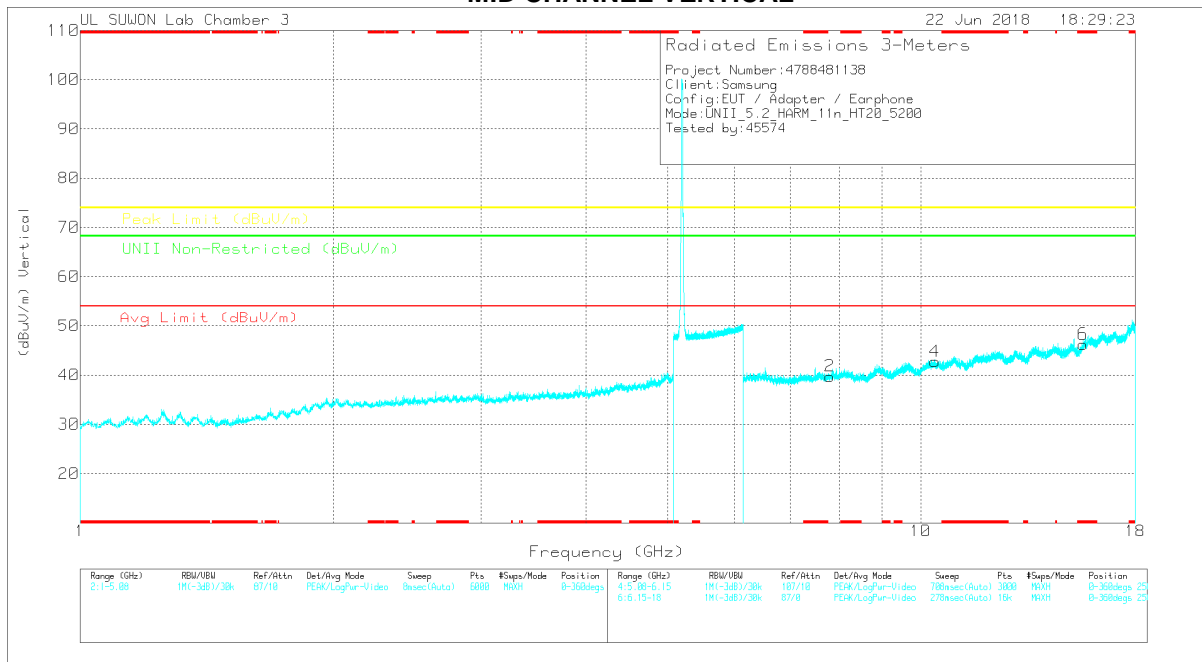
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

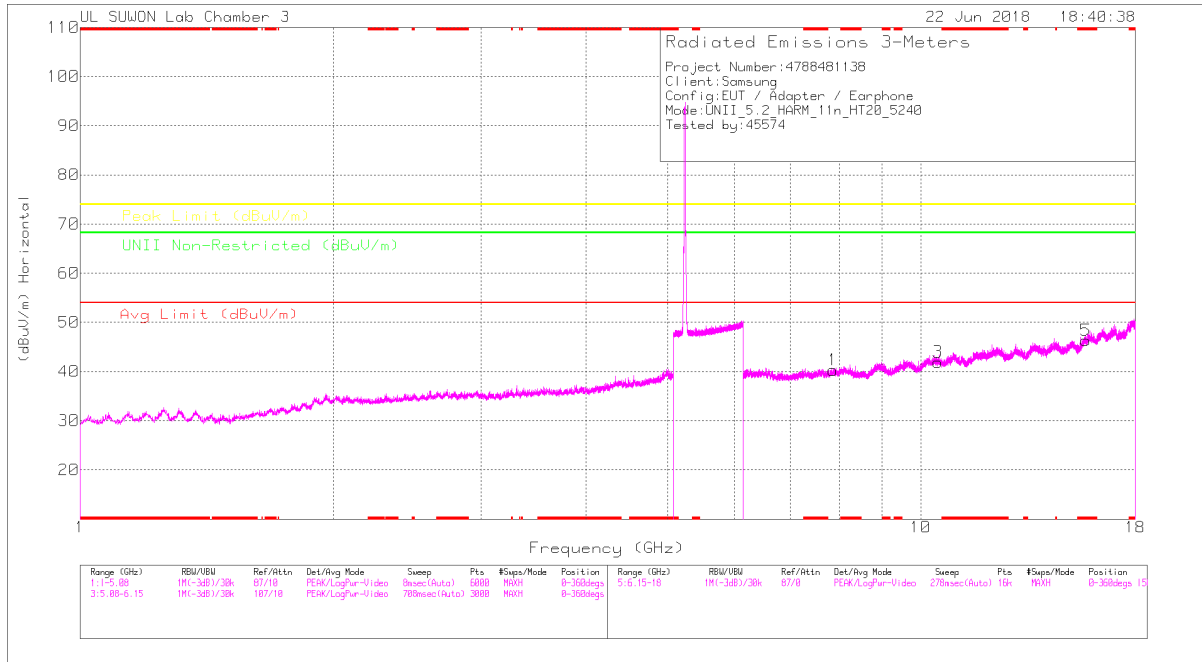
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00209959)	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)	Azimuth (Degs)	Height (cm)	Polarity
1	7.801	26.53	PK	35.6	-22.7	0	39.43	-	-	-	-	68.2	-28.77	0-360	150	H
3	10.4	24.55	PK	37.5	-19.3	0	42.75	-	-	-	-	68.2	-25.45	0-360	150	H
5	* 15.6	25.71	PK	40.2	-19.4	0	46.51	-	-	74	-27.49	-	-	0-360	250	H
2	7.801	26.87	PK	35.6	-22.7	0	39.77	-	-	-	-	68.2	-28.43	0-360	250	V
4	10.4	24.56	PK	37.5	-19.3	0	42.76	-	-	-	-	68.2	-25.44	0-360	149	V
6	* 15.601	25.36	PK	40.2	-19.3	0	46.26	-	-	74	-27.74	-	-	0-360	250	V

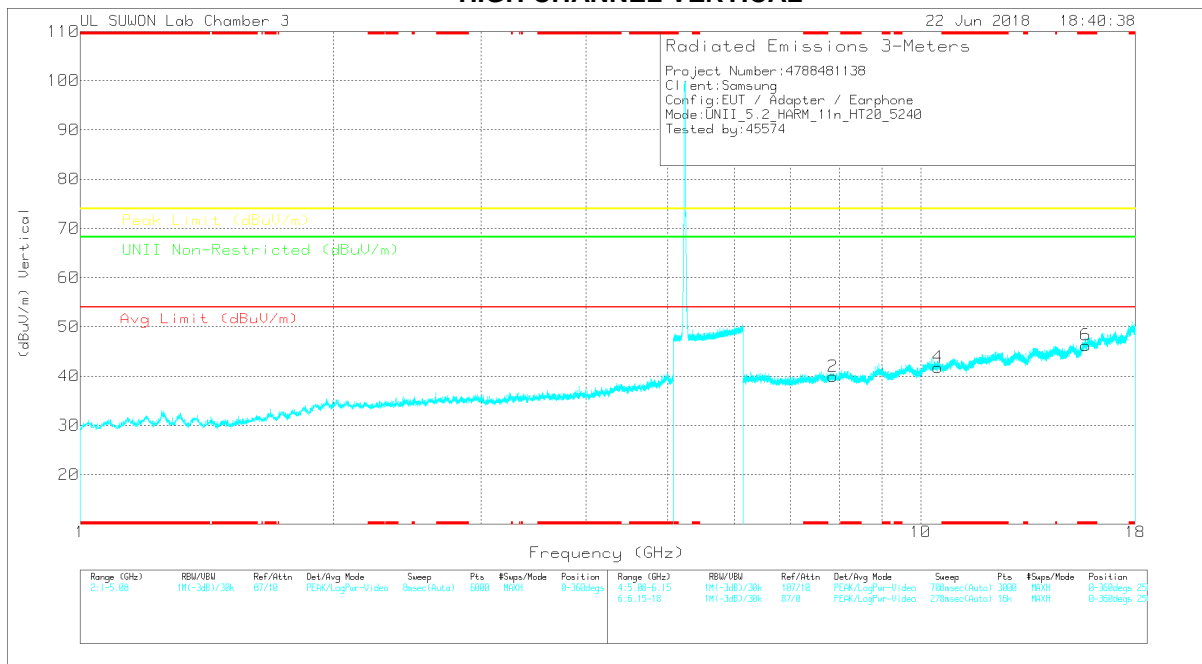
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

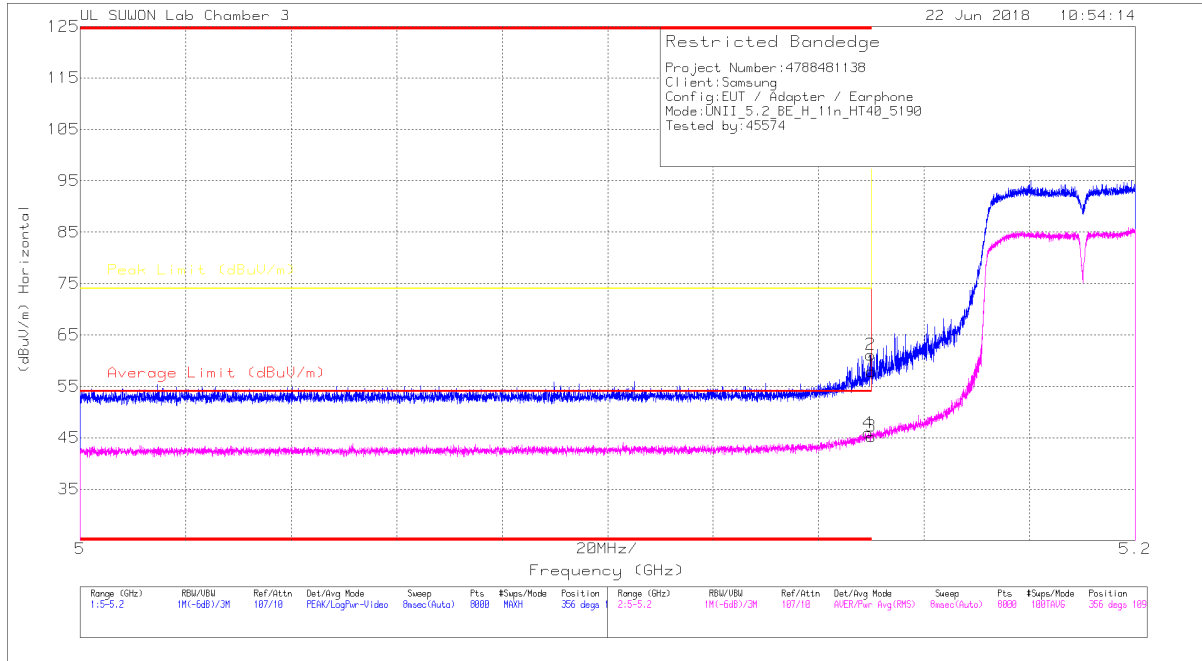
Marker	Frequency (GHz)	Major Reading (dBuV)	Det	3117(0020995)	66Hz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Unit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.859	26.99	PK	35.6	-22.3	0	40.29	-	-	-	-	68.2	-27.91	0-360	250	H
3	10.481	23.53	PK	37.7	-19.3	0	41.93	-	-	-	-	68.2	-26.27	0-360	250	H
5	* 15.719	25.02	PK	40.5	-19.2	0	46.32	-	-	74	-27.68	-	-	0-360	150	H
2	7.86	26.66	PK	35.6	-22.3	0	39.96	-	-	-	-	68.2	-28.24	0-360	250	V
4	10.481	23.39	PK	37.7	-19.3	0	41.79	-	-	-	-	68.2	-26.41	0-360	150	V
6	* 15.72	24.98	PK	40.5	-19.2	0	46.28	-	-	74	-27.72	-	-	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).

11.1.3.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

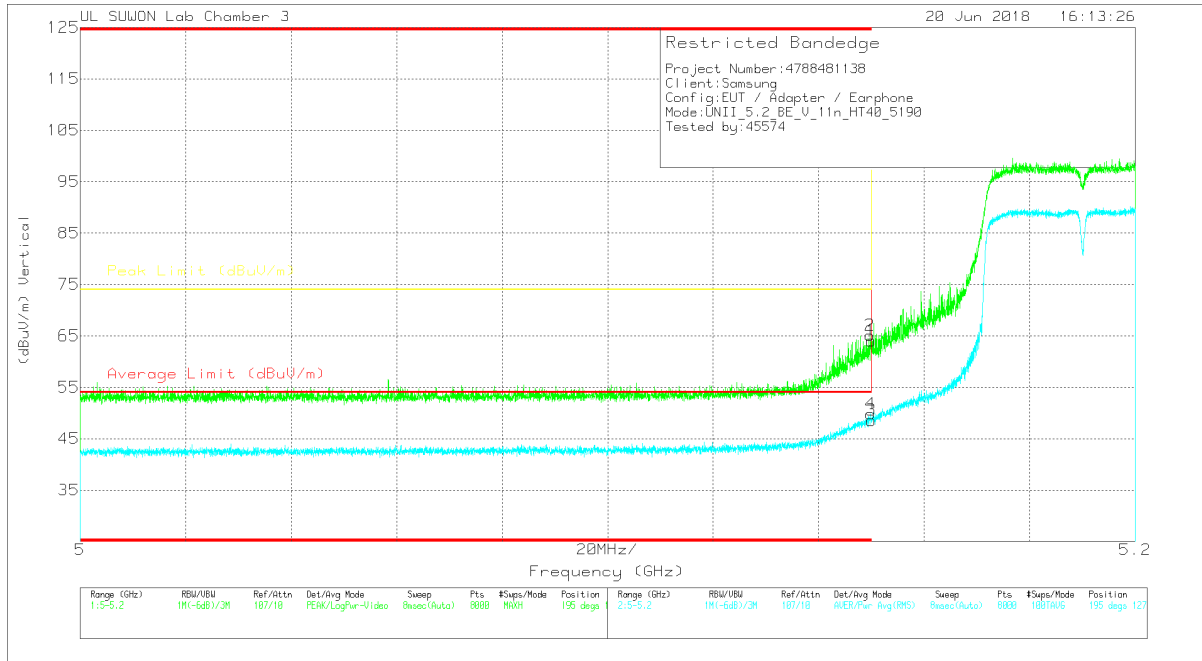
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.4	Pk	34.3	-18.8	0	57.9	-	-	74	-16.1	356	109	H
2	* 5.15	45.64	Pk	34.3	-18.8	0	61.14	-	-	74	-12.86	356	109	H
3	* 5.15	30.09	RMS	34.3	-19.3	.17	45.26	54	-8.74	-	-	356	109	H
4	* 5.149	30.76	RMS	34.3	-19.3	.17	45.93	54	-8.07	-	-	356	109	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	3117(00205959)	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	48.59	Pk	34.3	-18.8	0	64.09	-	-	74	-9.91	195	127	V
2	* 5.15	49.6	Pk	34.3	-18.8	0	65.1	-	-	74	-8.9	195	127	V
3	* 5.15	33.4	RMS	34.3	-19.3	.17	48.57	54	-5.43	-	-	195	127	V
4	* 5.15	34.67	RMS	34.3	-19.3	.17	49.84	54	-4.16	-	-	195	127	V

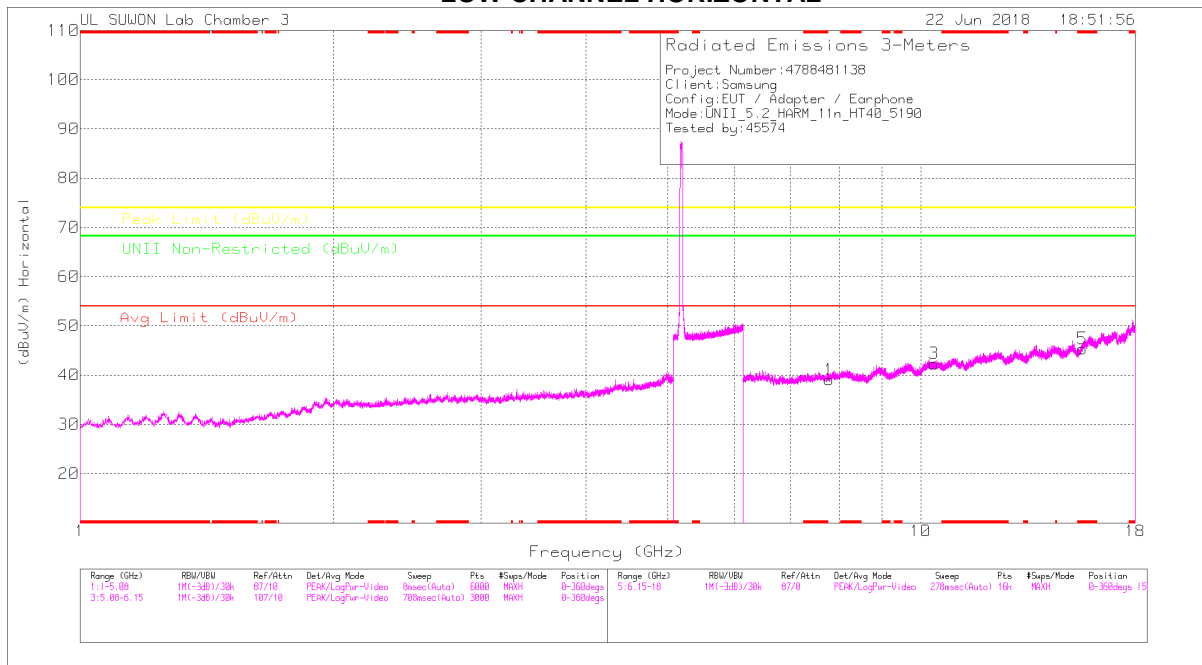
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

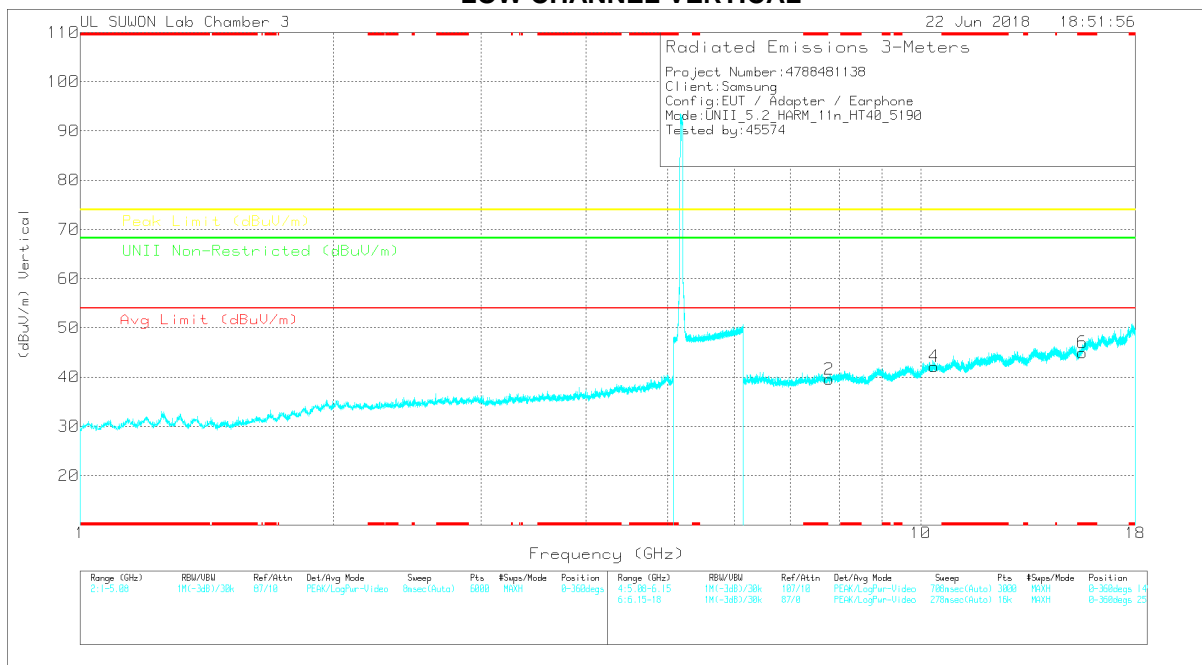
RMS - RMS detection

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

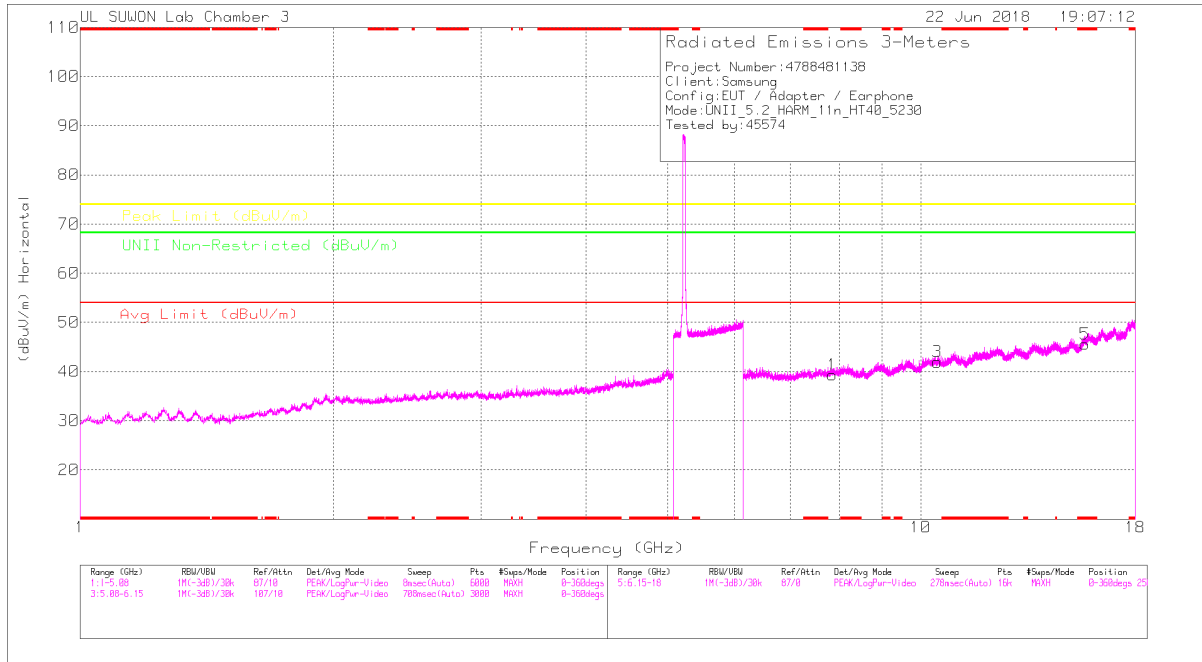
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020999)	GM2_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)	Azimuth (Degs)	Height (cm)	Polarity
1	7.785	26.36	PK	35.6	-22.9	0	39.06	-	-	-	-	68.2	-29.14	0-360	150	H
3	10.38	24.02	PK	37.5	-19.2	0	42.32	-	-	-	-	68.2	-25.88	0-360	251	H
5	* 15.571	24.84	PK	40.1	-19.6	0	45.34	-	-	74	-28.66	-	-	0-360	150	H
2	7.785	26.86	PK	35.6	-22.9	0	39.56	-	-	-	-	68.2	-28.64	0-360	251	V
4	10.38	23.86	PK	37.5	-19.2	0	42.16	-	-	-	-	68.2	-26.04	0-360	149	V
6	* 15.571	24.49	PK	40.1	-19.6	0	44.99	-	-	74	-29.01	-	-	0-360	149	V

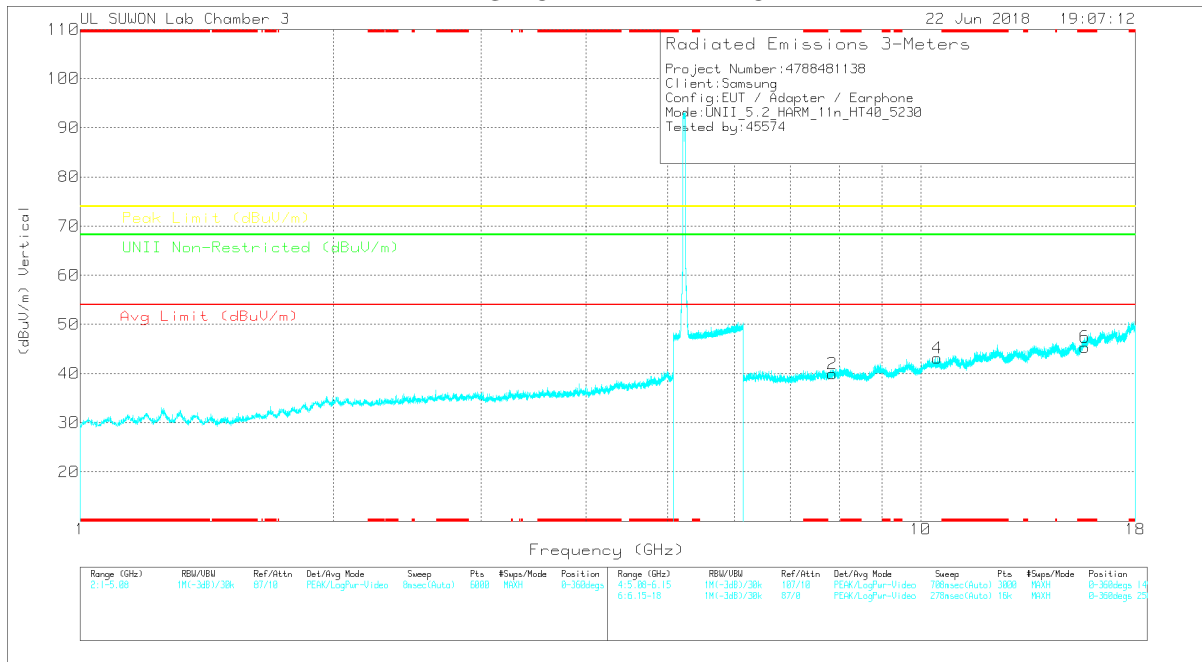
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	317(0020995)	66Hz_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	7.846	26.13	PK	35.6	-22.4	0	39.33	-	-	-	-	68.2	-28.87	0-360	150	H
3	10.46	23.76	PK	37.6	-19.4	0	41.96	-	-	-	-	68.2	-26.24	0-360	250	H
5	* 15.691	24.46	PK	40.4	-19.3	0	45.56	-	-	74	-28.44	-	-	0-360	150	H
2	7.845	26.87	PK	35.6	-22.5	0	39.97	-	-	-	-	68.2	-28.23	0-360	250	V
4	10.46	24.95	PK	37.6	-19.4	0	43.15	-	-	-	-	68.2	-25.05	0-360	149	V
6	* 15.691	24.28	PK	40.4	-19.3	0	45.38	-	-	74	-28.62	-	-	0-360	250	V

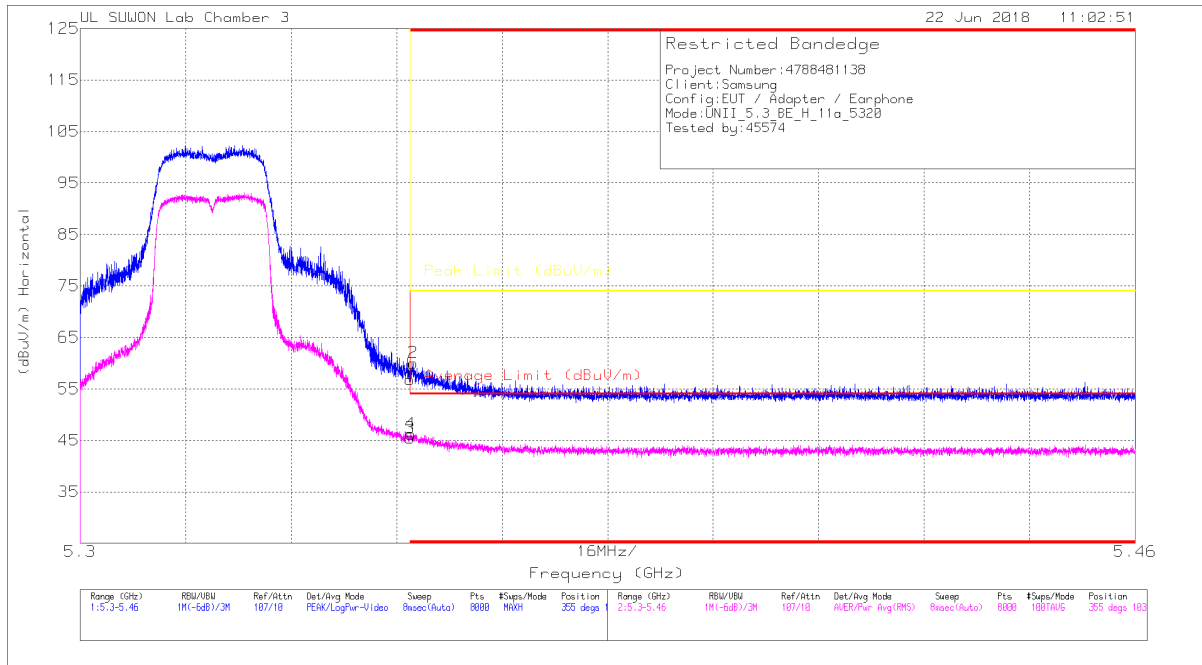
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak detector

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

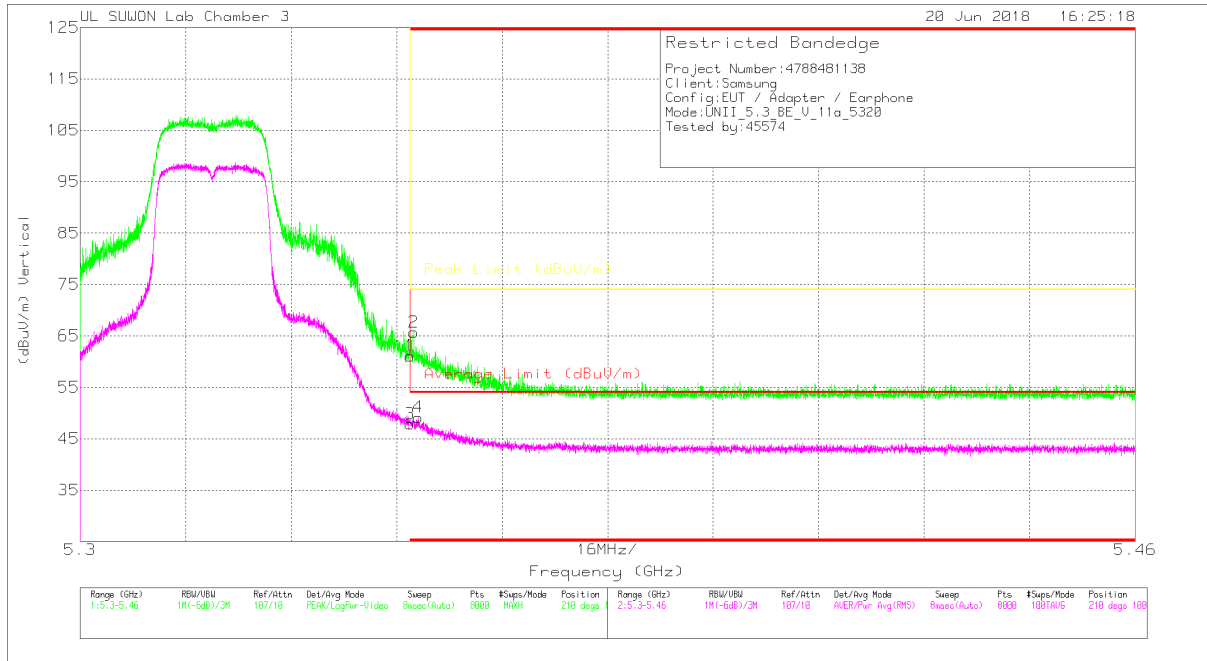
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.15	Pk	34.4	-18.7	0	56.85	-	-	74	-17.15	355	103	H
2	* 5.35	44.24	Pk	34.4	-18.7	0	60.04	-	-	74	-13.96	355	103	H
3	* 5.35	30.02	RMS	34.4	-19	0	45.42	54	-8.58	-	-	355	103	H
4	* 5.35	30.85	RMS	34.4	-19	0	46.25	54	-7.75	-	-	355	103	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	3117(00205959)	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	* 5.35	45.4	PK	34.4	-18.7	0	61.1	-	-	74	-12.9	210	100	V
2	* 5.351	49.93	PK	34.4	-18.6	0	65.73	-	-	74	-8.27	210	100	V
3	* 5.35	32.45	RMS	34.4	-19	0	47.85	54	-6.15	-	-	210	100	V
4	* 5.351	33.76	RMS	34.4	-19	0	49.16	54	-4.84	-	-	210	100	V

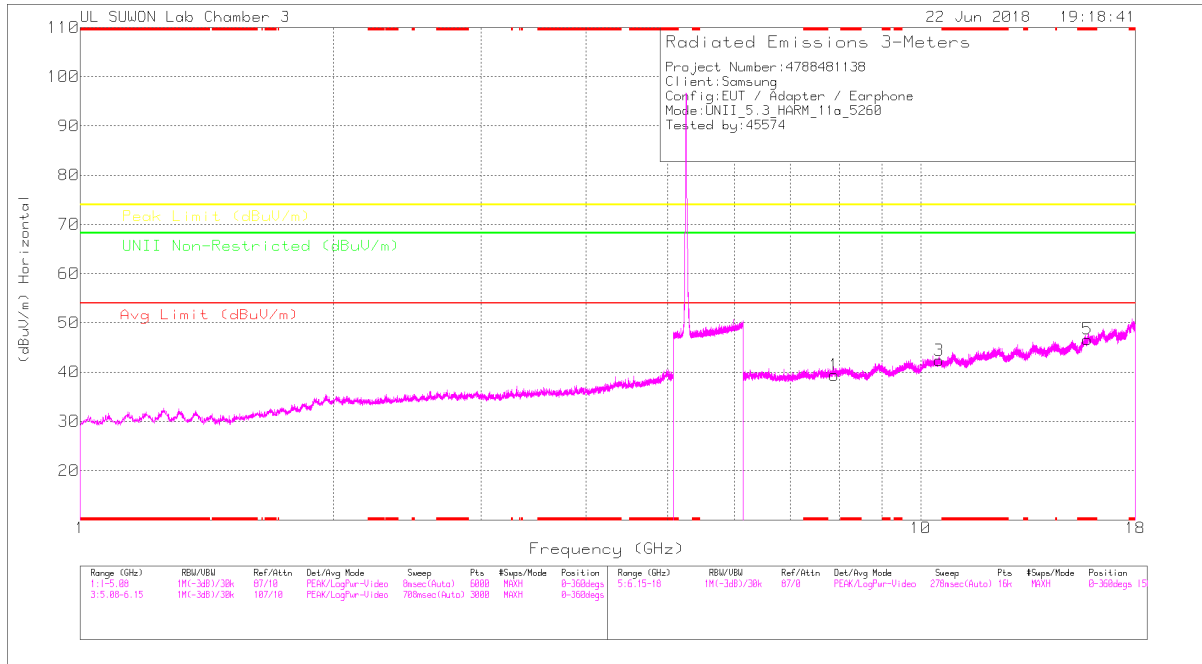
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

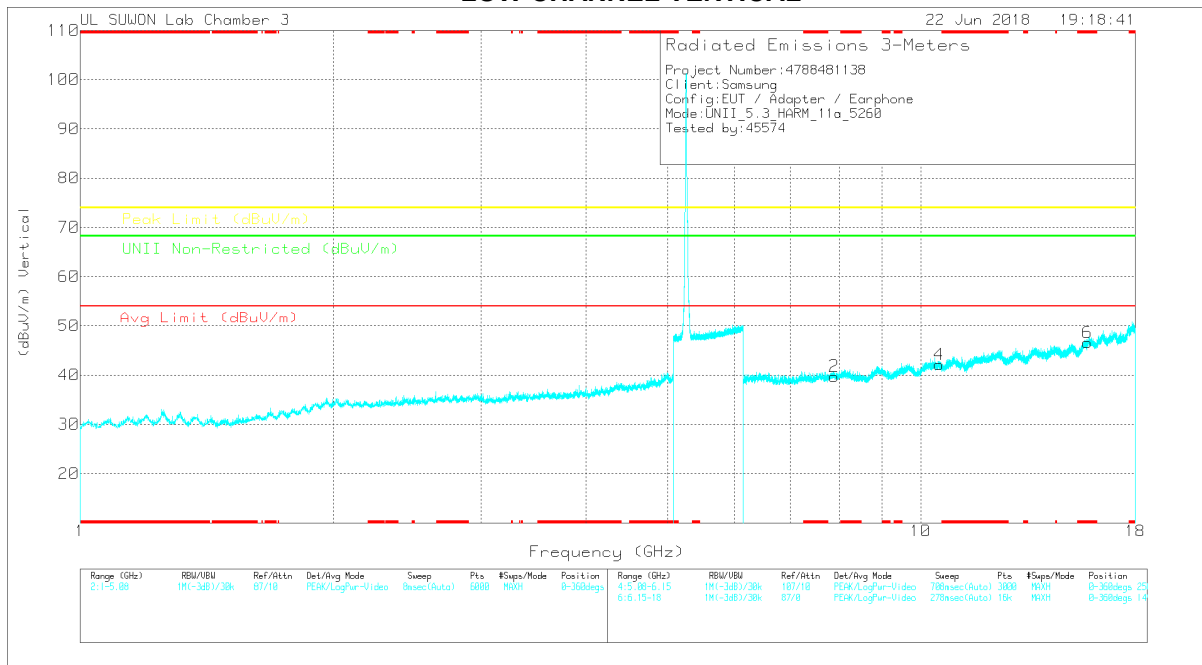
RMS - RMS detection

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

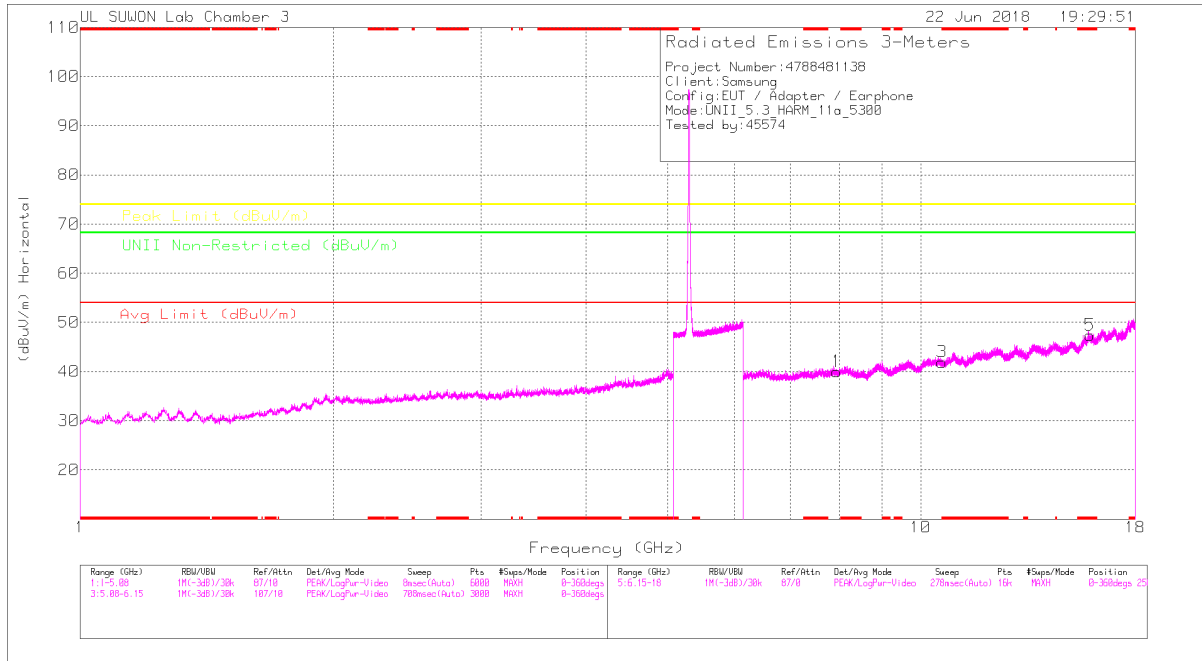
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117(0020959)	GHz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	7.891	26.1	PK	35.7	-22.4	0	39.4	-	-	-	-	68.2	-28.8	0-360	250	H
3	10.521	23.9	PK	37.7	-19.2	0	42.4	-	-	-	-	68.2	-25.8	0-360	250	H
5	* 15.782	24.97	PK	40.7	-19	0	46.67	-	-	74	-27.33	-	-	0-360	250	H
2	7.891	26.43	PK	35.7	-22.4	0	39.73	-	-	-	-	68.2	-28.47	0-360	149	V
4	10.521	23.6	PK	37.7	-19.2	0	42.1	-	-	-	-	68.2	-26.1	0-360	251	V
6	* 15.781	24.8	PK	40.7	-18.9	0	46.6	-	-	74	-27.4	-	-	0-360	251	V

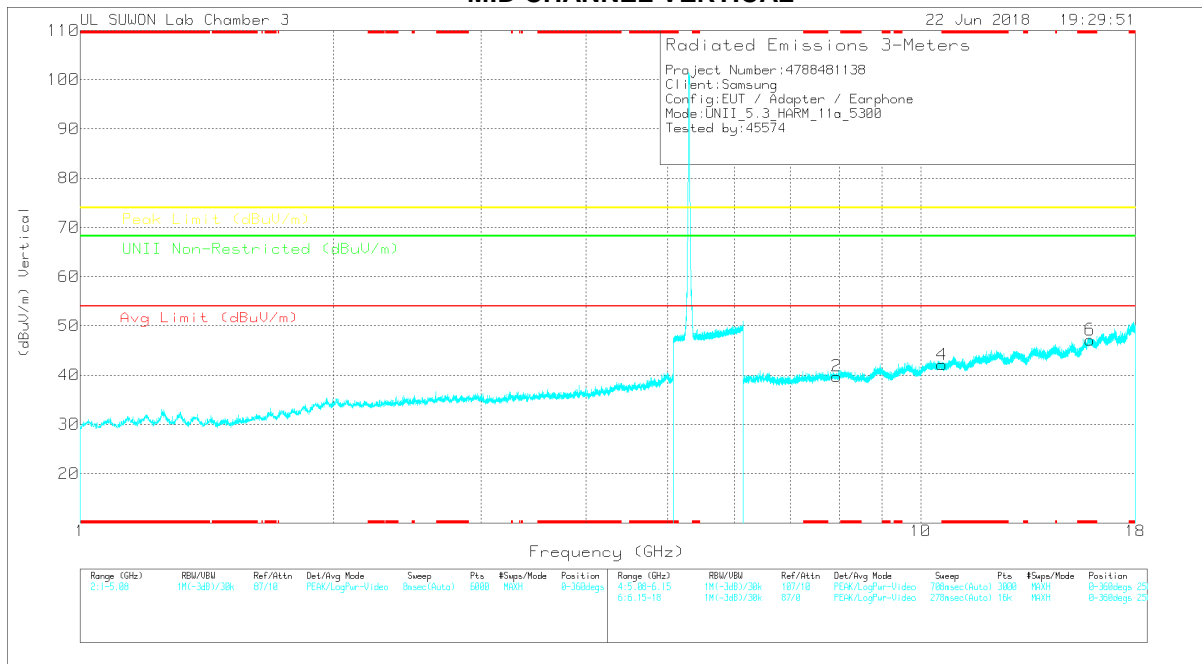
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

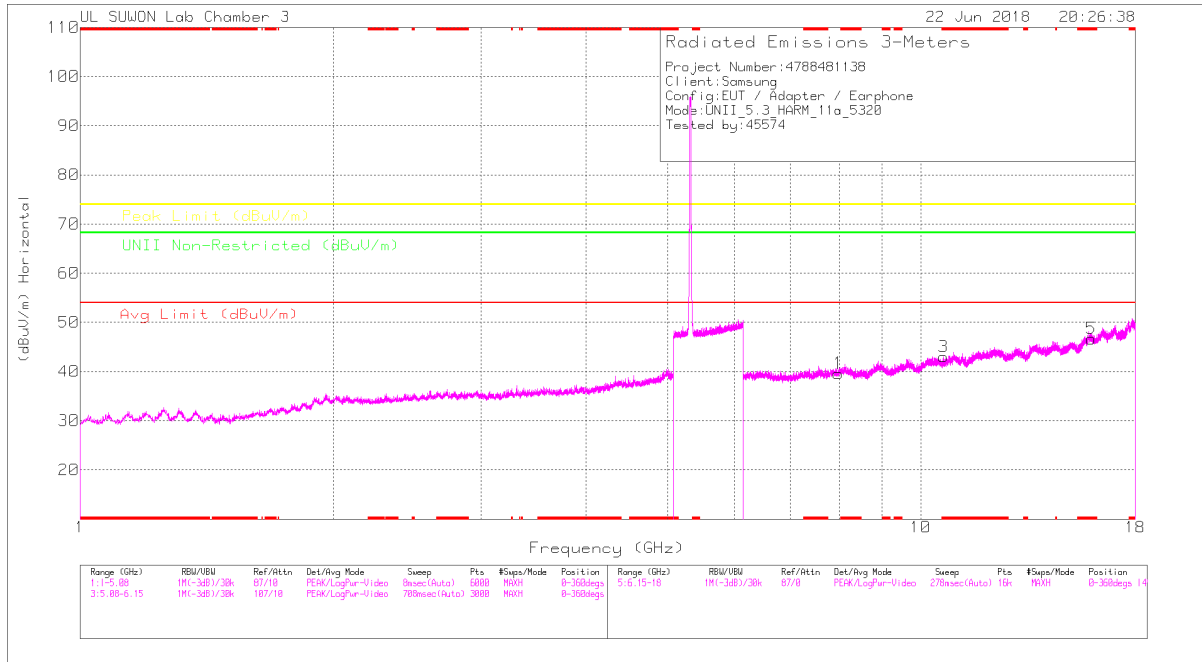
Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	317(0020995)	66Hz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	7.951	26.91	PK	35.7	-22.6	0	40.01	-	-	-	-	68.2	-28.19	0-360	250	H
3	* 10.601	23.64	PK	37.7	-19.4	0	41.94	-	-	74	-32.06	-	-	0-360	250	H
5	* 15.899	24.8	PK	41	-18.4	0	47.4	-	-	74	-26.6	-	-	0-360	250	H
2	7.951	26.66	PK	35.7	-22.6	0	39.76	-	-	-	-	68.2	-28.44	0-360	149	V
4	* 10.601	23.82	PK	37.7	-19.4	0	42.12	-	-	74	-31.88	-	-	0-360	250	V
6	* 15.899	24.56	PK	41	-18.4	0	47.16	-	-	74	-26.84	-	-	0-360	250	V

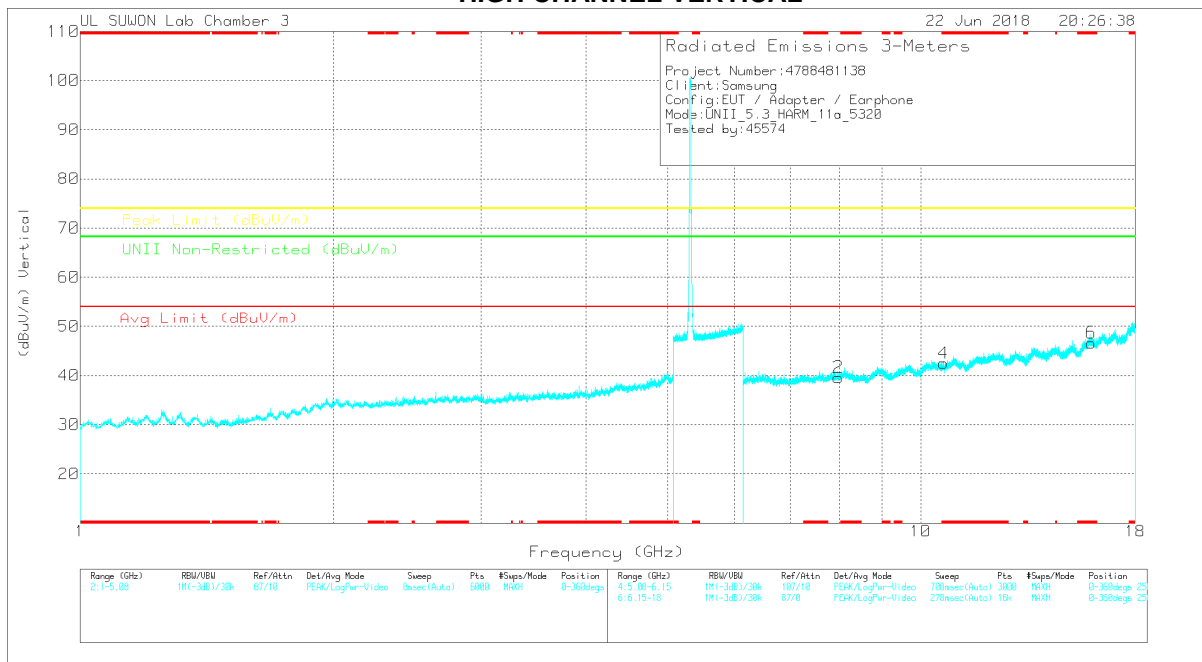
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020999)	GHz_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)	Asimuth (Degs)	Height (cm)	Polarity
1	7.98	26.62	PK	35.7	-22.7	0	39.62	-	-	-	-	68.2	-28.58	0-360	250	H
3	* 10.641	24.71	PK	37.6	-19.3	0	43.01	-	-	74	-30.99	-	-	0-360	149	H
5	* 15.961	24.08	PK	41.1	-18.5	0	46.68	-	-	74	-27.32	-	-	0-360	149	H
2	7.981	26.61	PK	35.7	-22.7	0	39.61	-	-	-	-	68.2	-28.59	0-360	150	V
4	* 10.641	24.21	PK	37.6	-19.3	0	42.51	-	-	74	-31.49	-	-	0-360	250	V
6	* 15.961	24.05	PK	41.1	-18.5	0	46.65	-	-	74	-27.35	-	-	0-360	250	V

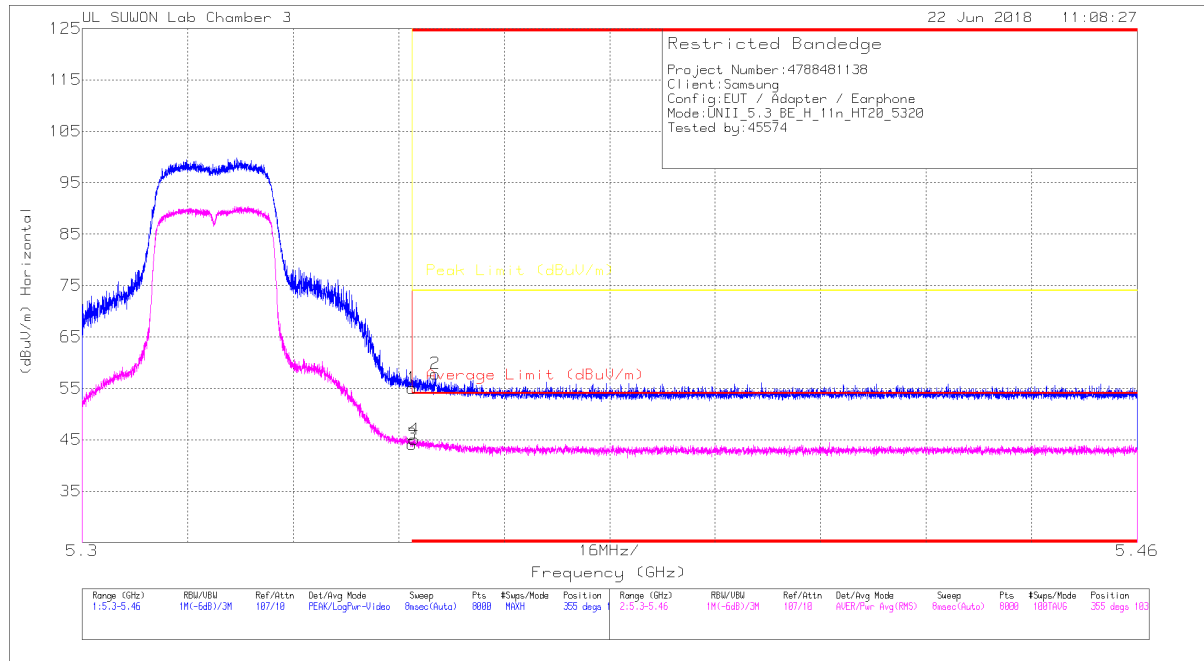
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

11.2.2.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

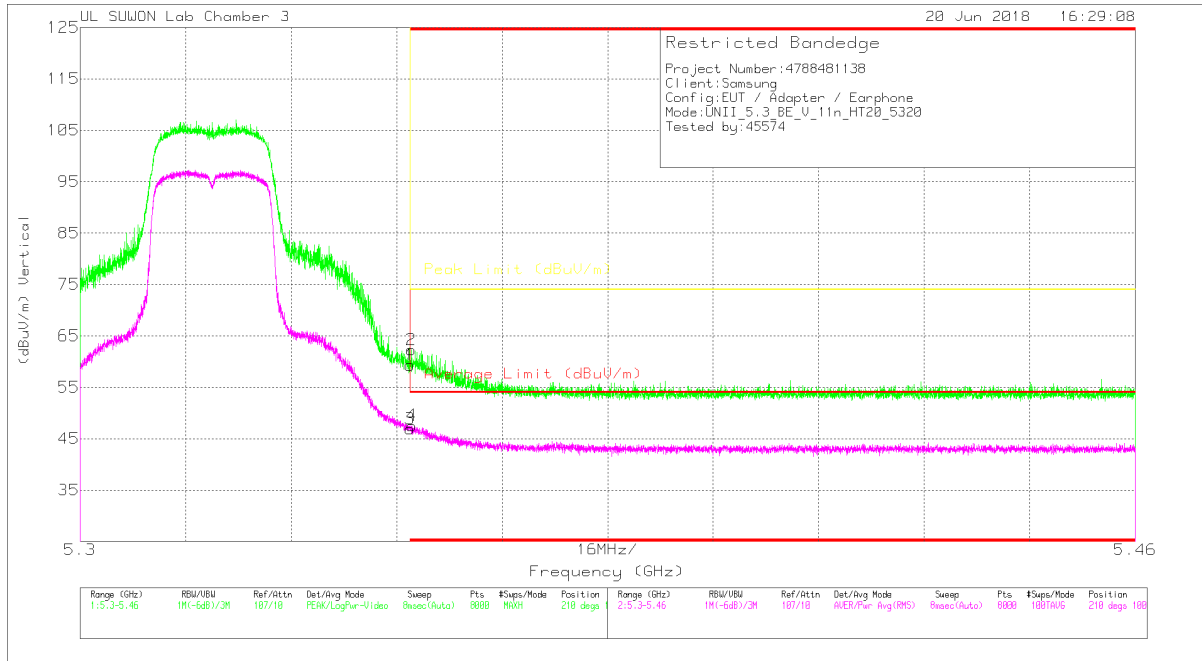
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.35	Pk	34.4	-18.7	0	55.05	-	-	74	-18.95	355	103	H
2	* 5.354	42.04	Pk	34.4	-18.6	0	57.84	-	-	74	-16.16	355	103	H
3	* 5.35	28.7	RMS	34.4	-19	0	44.1	54	-9.9	-	-	355	103	H
4	* 5.35	29.65	RMS	34.4	-19	0	45.05	54	-8.95	-	-	355	103	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	3117(00205959)	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	* 5.35	43.62	Pk	34.4	-18.7	0	59.32	-	-	74	-14.68	210	100	V
2	* 5.35	46.59	Pk	34.4	-18.7	0	62.29	-	-	74	-11.71	210	100	V
3	* 5.35	31.48	RMS	34.4	-19	0	46.88	54	-7.12	-	-	210	100	V
4	* 5.35	32.13	RMS	34.4	-19	0	47.53	54	-6.47	-	-	210	100	V

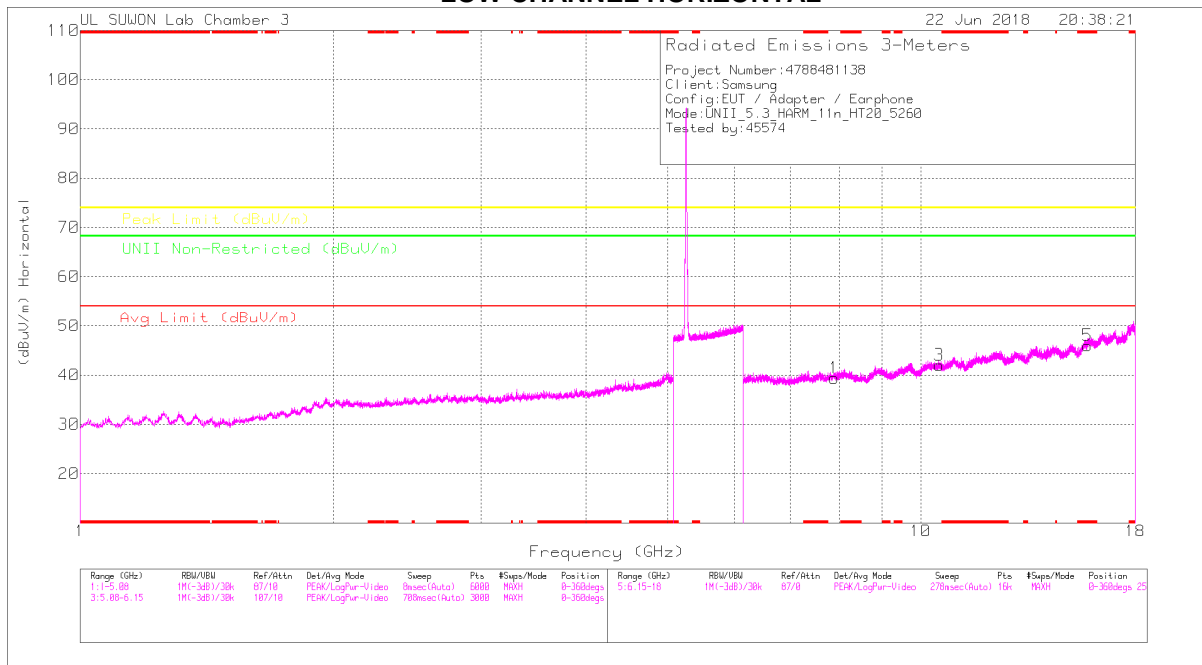
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

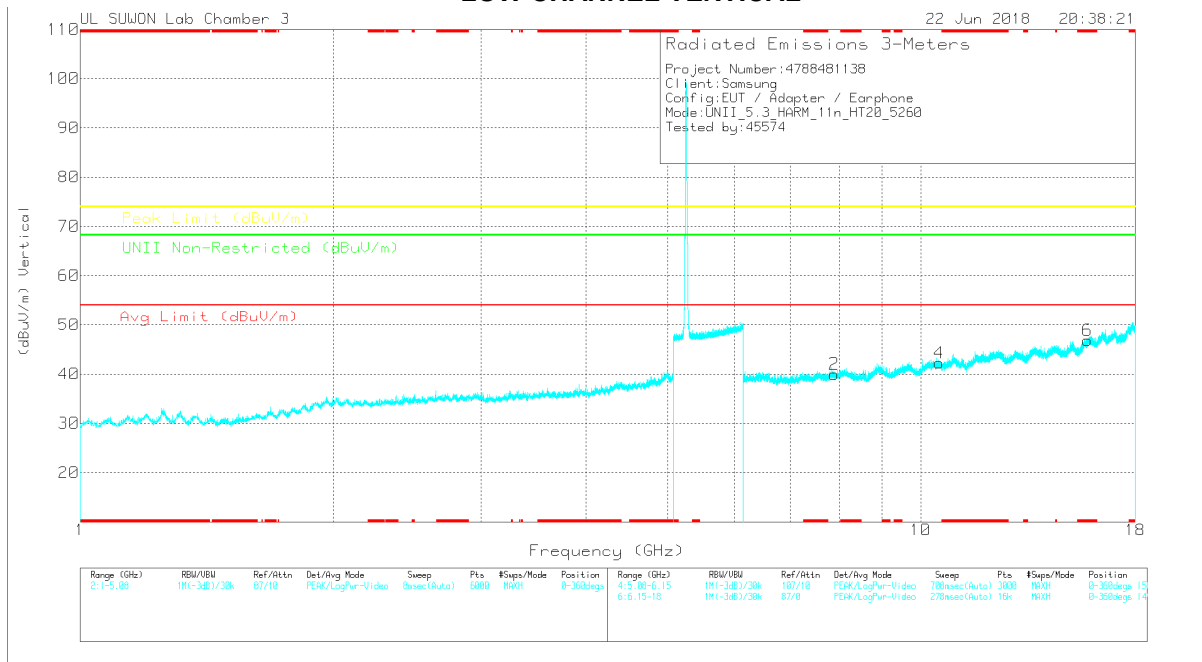
RMS - RMS detection

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

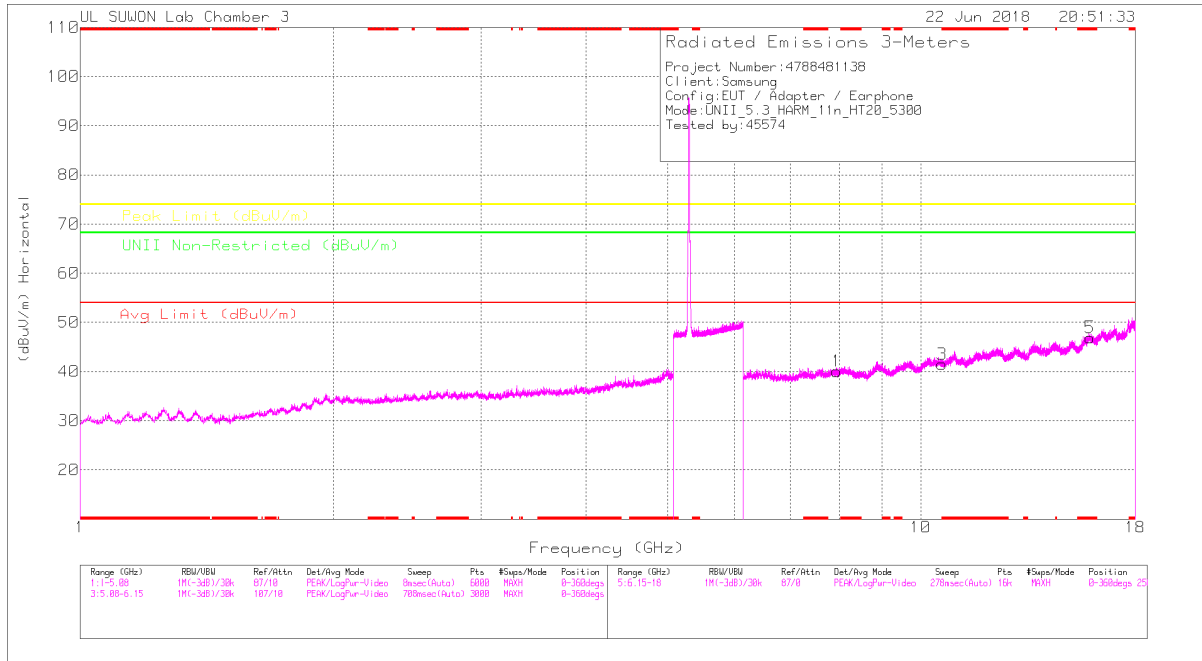
Trace Markers

Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	3117(0020995)	66Hz_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	7.891	26.11	PK	35.7	-22.4	0	39.41	-	-	-	-	68.2	-28.79	0-360	251	H
3	10.52	23.52	PK	37.7	-19.2	0	42.02	-	-	-	-	68.2	-26.18	0-360	150	H
5	* 15.78	24.28	PK	40.7	-19	0	45.98	-	-	74	-28.02	-	-	0-360	150	H
2	7.891	26.68	PK	35.7	-22.4	0	39.98	-	-	-	-	68.2	-28.22	0-360	149	V
4	10.521	23.77	PK	37.7	-19.2	0	42.27	-	-	-	-	68.2	-25.93	0-360	149	V
6	* 15.781	25.04	PK	40.7	-18.9	0	46.84	-	-	74	-27.16	-	-	0-360	149	V

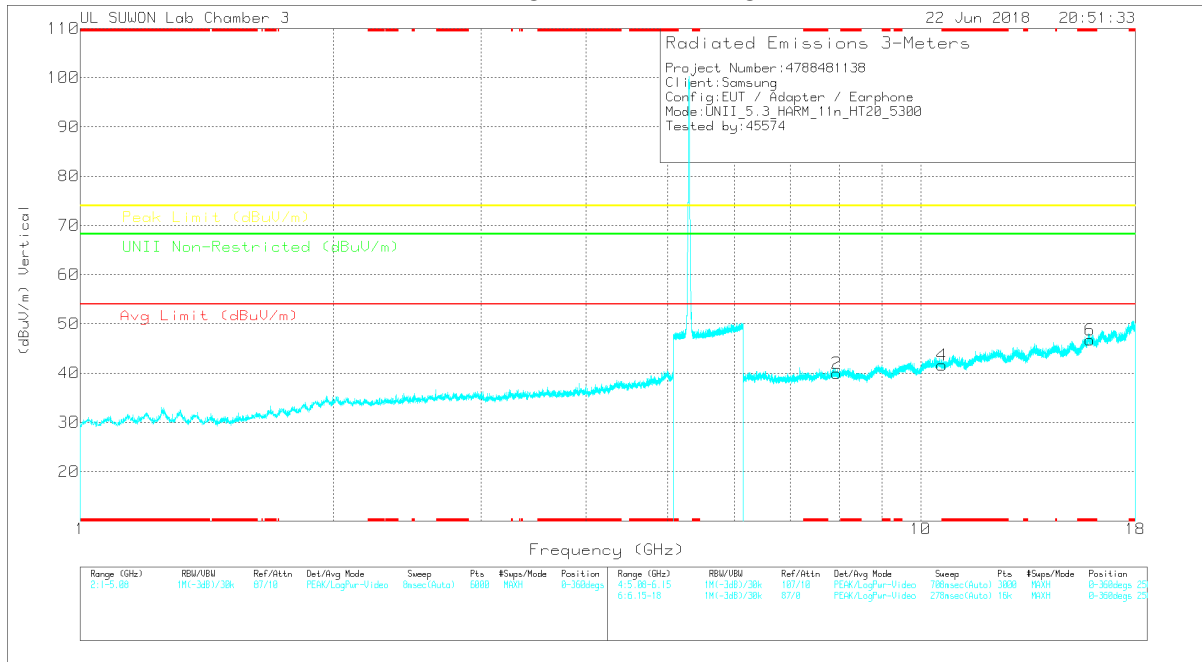
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

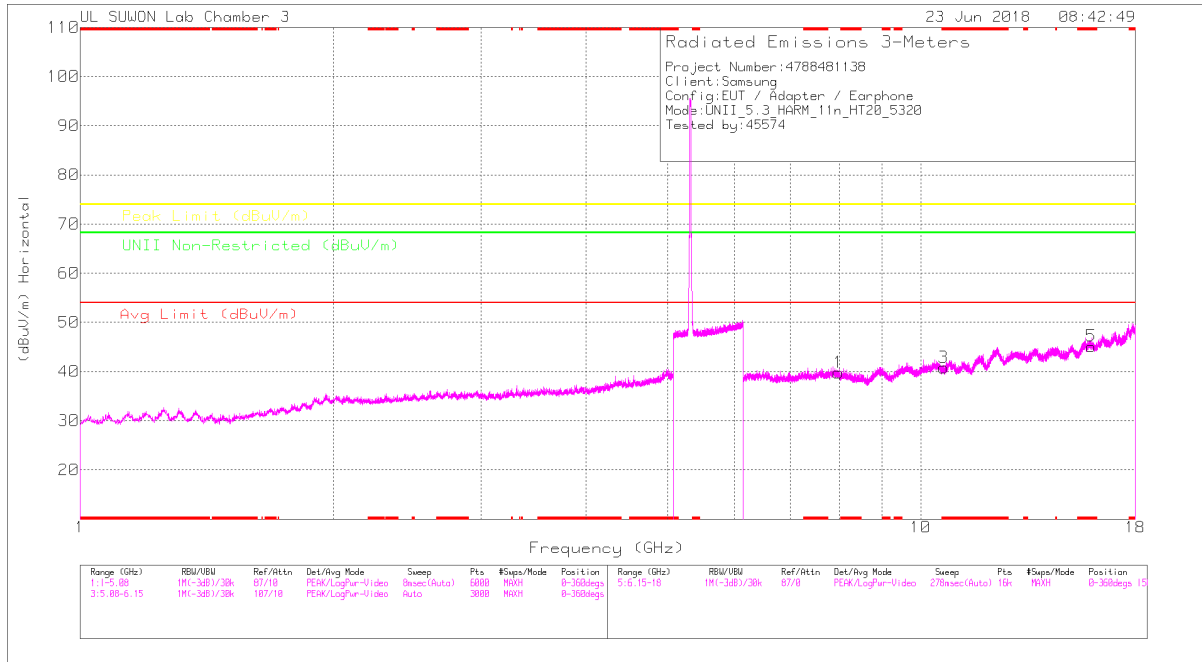
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020999)	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)	Azimuth (Degs)	Height (cm)	Polarity
1	7.949	26.85	PK	35.7	-22.5	0	40.05	-	-	-	-	68.2	-28.15	0-360	250	H
3	* 10.601	23.19	PK	37.7	-19.4	0	41.49	-	-	74	-32.51	-	-	0-360	250	H
5	* 15.902	24.28	PK	41	-18.4	0	46.88	-	-	74	-27.12	-	-	0-360	250	H
2	7.949	26.75	PK	35.7	-22.5	0	39.95	-	-	-	-	68.2	-28.25	0-360	149	V
4	* 10.601	23.33	PK	37.7	-19.4	0	41.63	-	-	74	-32.37	-	-	0-360	149	V
6	* 15.902	24.1	PK	41	-18.4	0	46.7	-	-	74	-27.3	-	-	0-360	250	V

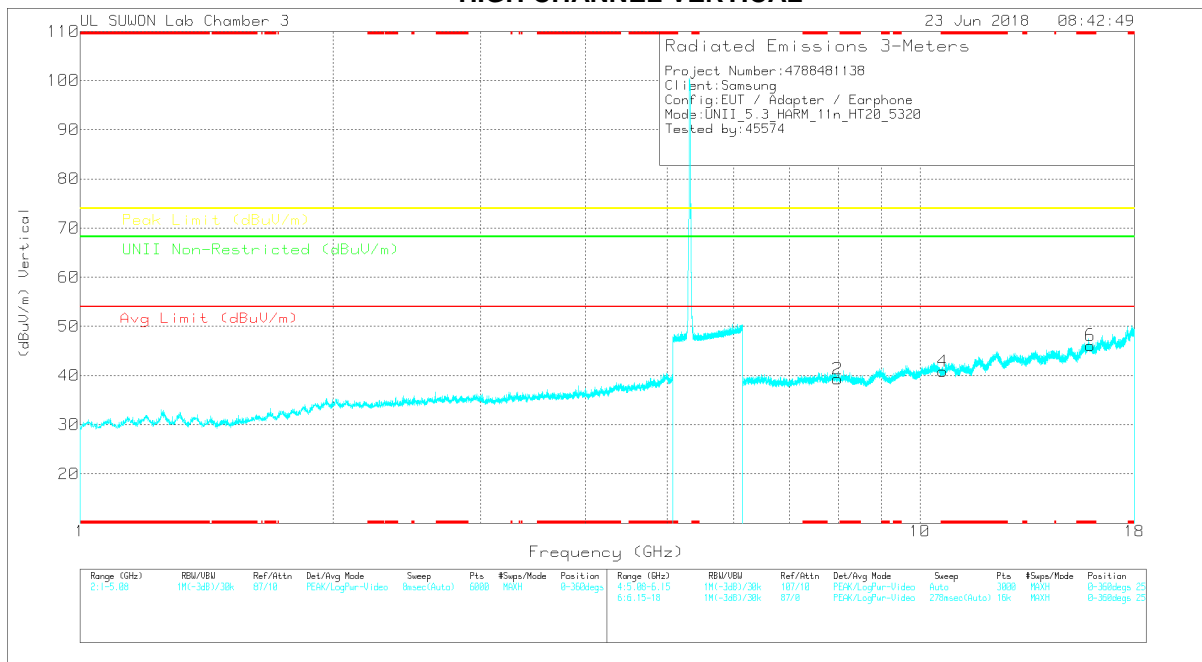
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020999)	GHz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	7.98	26.79	PK	35.7	-22.7	0	39.79	-	-	-	-	68.2	-28.41	0-360	150	H
3	* 10.641	22.5	PK	37.6	-19.3	0	40.8	-	-	74	-33.2	-	-	0-360	251	H
5	* 15.961	22.53	PK	41.1	-18.5	0	45.13	-	-	74	-28.87	-	-	0-360	150	H
2	7.98	26.32	PK	35.7	-22.7	0	39.32	-	-	-	-	68.2	-28.88	0-360	251	V
4	* 10.64	22.55	PK	37.6	-19.3	0	40.85	-	-	74	-33.15	-	-	0-360	149	V
6	* 15.961	23.51	PK	41.1	-18.5	0	46.11	-	-	74	-27.89	-	-	0-360	149	V

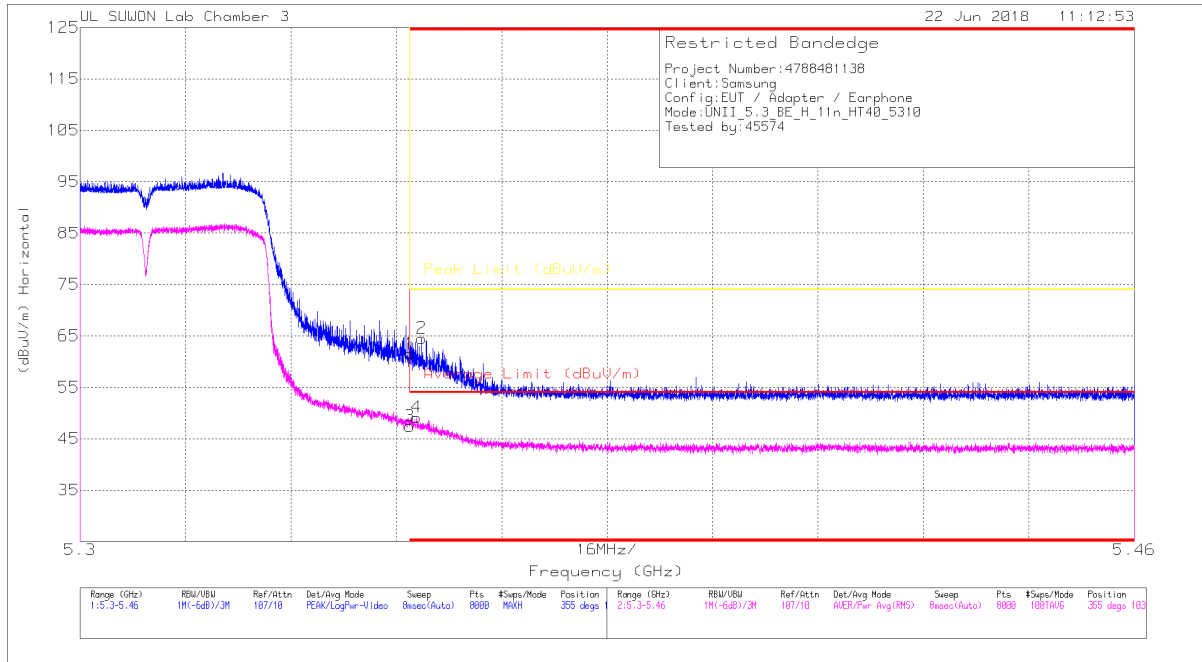
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

11.2.3.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

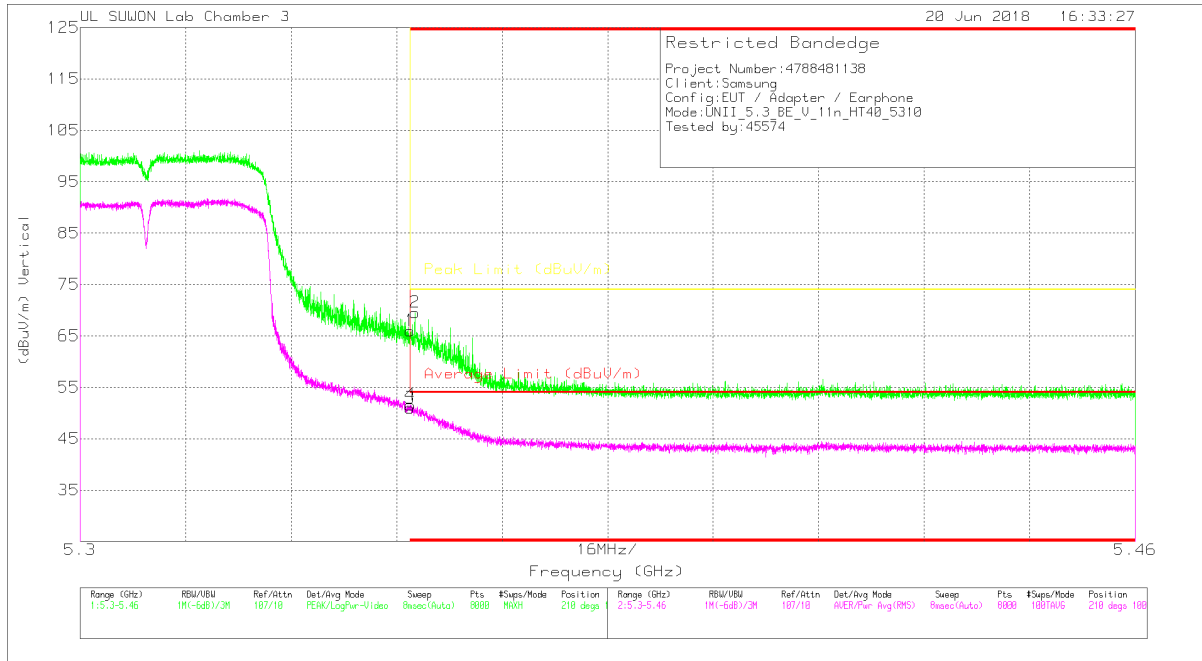
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	45.85	Pk	34.4	-18.7	0	61.55	-	-	74	-12.45	355	103	H
2	* 5.352	48.83	Pk	34.4	-18.7	0	64.53	-	-	74	-9.47	355	103	H
3	* 5.35	31.89	RMS	34.4	-19	.17	47.46	54	-6.54	-	-	355	103	H
4	* 5.351	33.59	RMS	34.4	-19	.17	49.16	54	-4.84	-	-	355	103	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	3117(0020599)	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	* 5.35	50.29	Pk	34.4	-18.7	0	65.99	-	-	74	-8.01	210	100	V
2	* 5.351	53.76	Pk	34.4	-18.6	0	69.56	-	-	74	-4.44	210	100	V
3	* 5.35	35.4	RMS	34.4	-19	.17	50.97	54	-3.03	-	-	210	100	V
4	* 5.35	36	RMS	34.4	-19	.17	51.57	54	-2.43	-	-	210	100	V

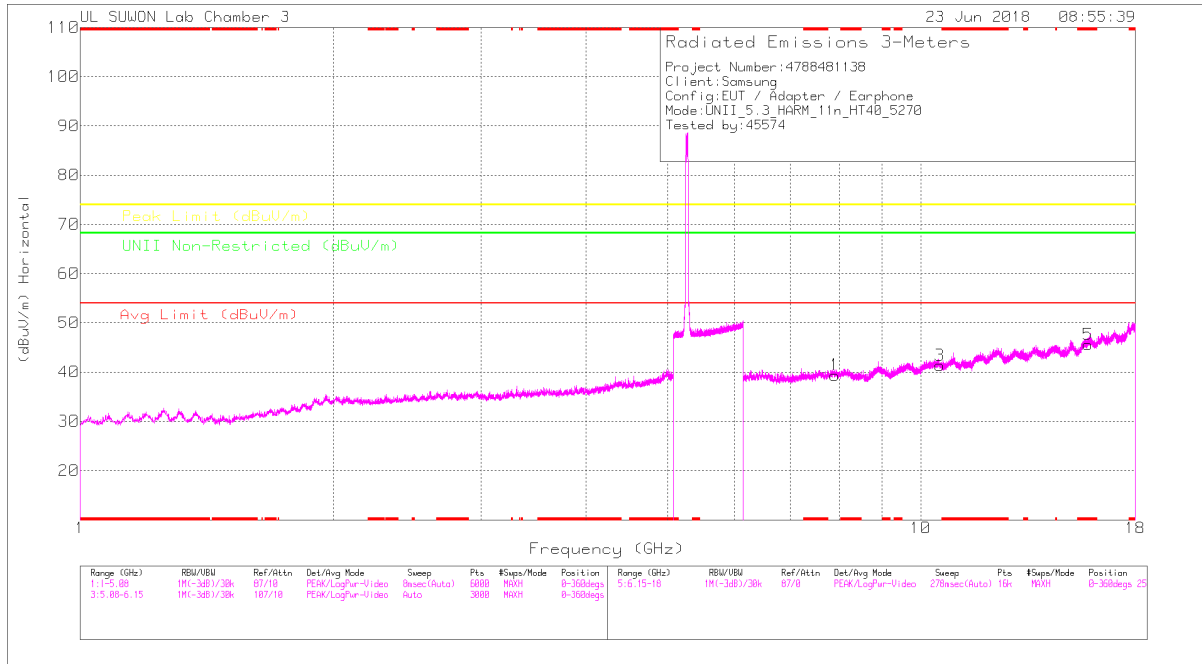
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

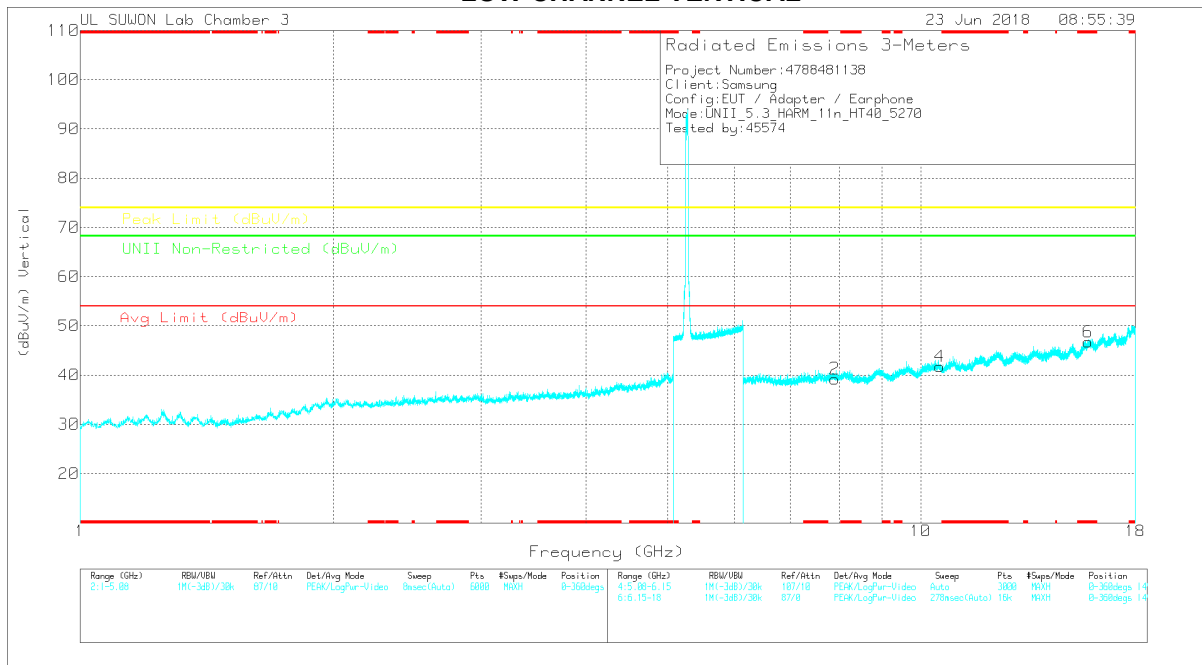
RMS - RMS detection

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

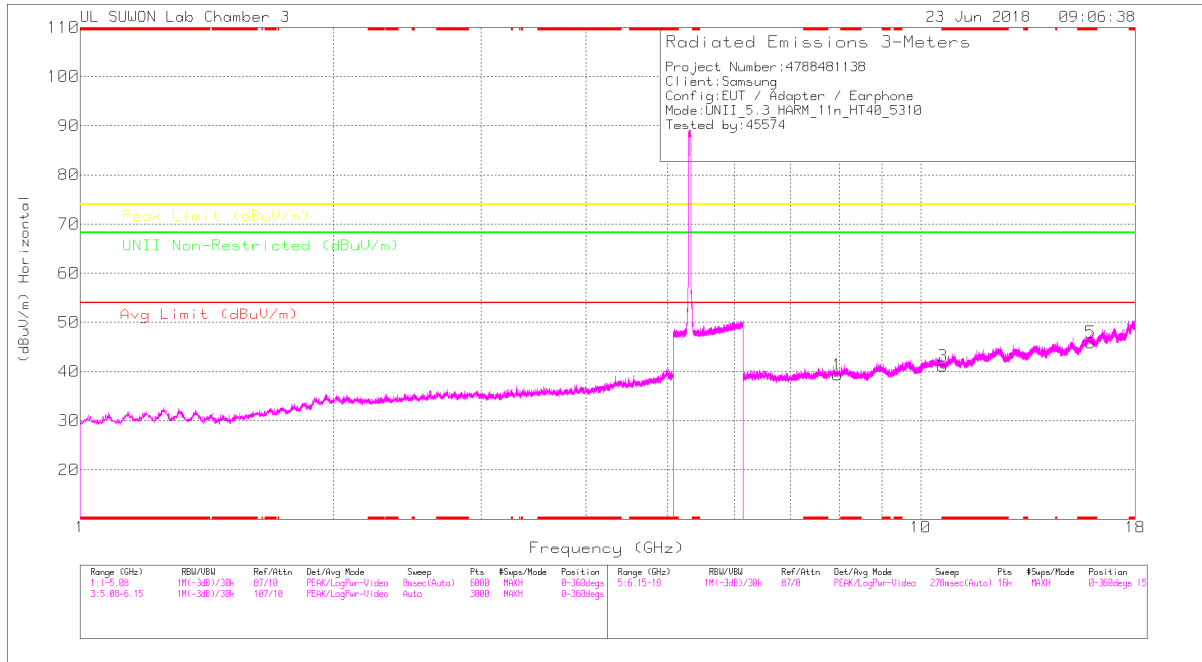
Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	3117(0020995)	66Hz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	7.905	26.18	PK	35.7	-22.5	0	39.38	-	-	-	-	68.2	-28.82	0-360	150	H
3	10.541	22.97	PK	37.7	-19.3	0	41.37	-	-	-	-	68.2	-26.83	0-360	150	H
5	* 15.811	23.67	PK	40.7	-18.8	0	45.57	-	-	74	-28.43	-	-	0-360	251	H
2	7.905	26.02	PK	35.7	-22.5	0	39.22	-	-	-	-	68.2	-28.98	0-360	250	V
4	10.541	23.34	PK	37.7	-19.3	0	41.74	-	-	-	-	68.2	-26.46	0-360	250	V
6	* 15.811	24.81	PK	40.7	-18.8	0	46.71	-	-	74	-27.29	-	-	0-360	250	V

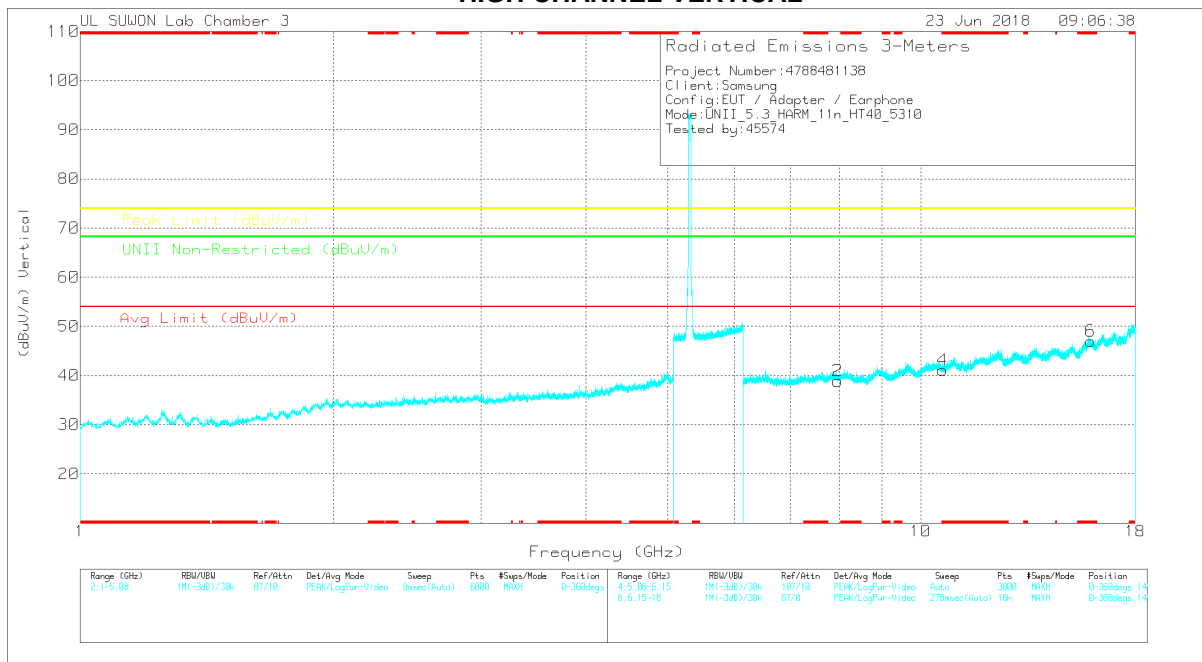
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	3117(0020995)	66Hz_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	7.965	26.31	PK	35.7	-22.7	0	39.31	-	-	-	-	68.2	-28.89	0-360	150	H
3	* 10.621	22.71	PK	37.7	-19.3	0	41.11	-	-	74	-32.89	-	-	0-360	150	H
5	* 15.931	23.29	PK	41	-18.4	0	45.89	-	-	74	-28.11	-	-	0-360	150	H
2	7.965	25.9	PK	35.7	-22.7	0	38.9	-	-	-	-	68.2	-29.3	0-360	250	V
4	* 10.621	22.71	PK	37.7	-19.3	0	41.11	-	-	74	-32.89	-	-	0-360	250	V
6	* 15.931	24.42	PK	41	-18.4	0	47.02	-	-	74	-26.98	-	-	0-360	149	V

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

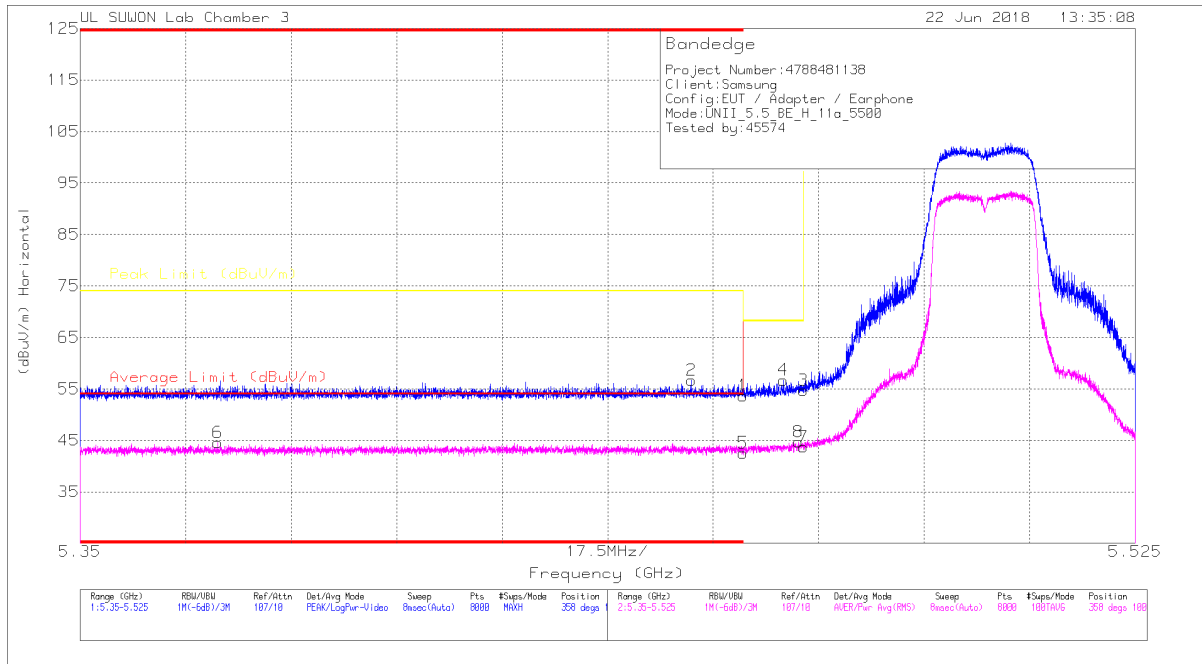
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.3. 5.5-5.6 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

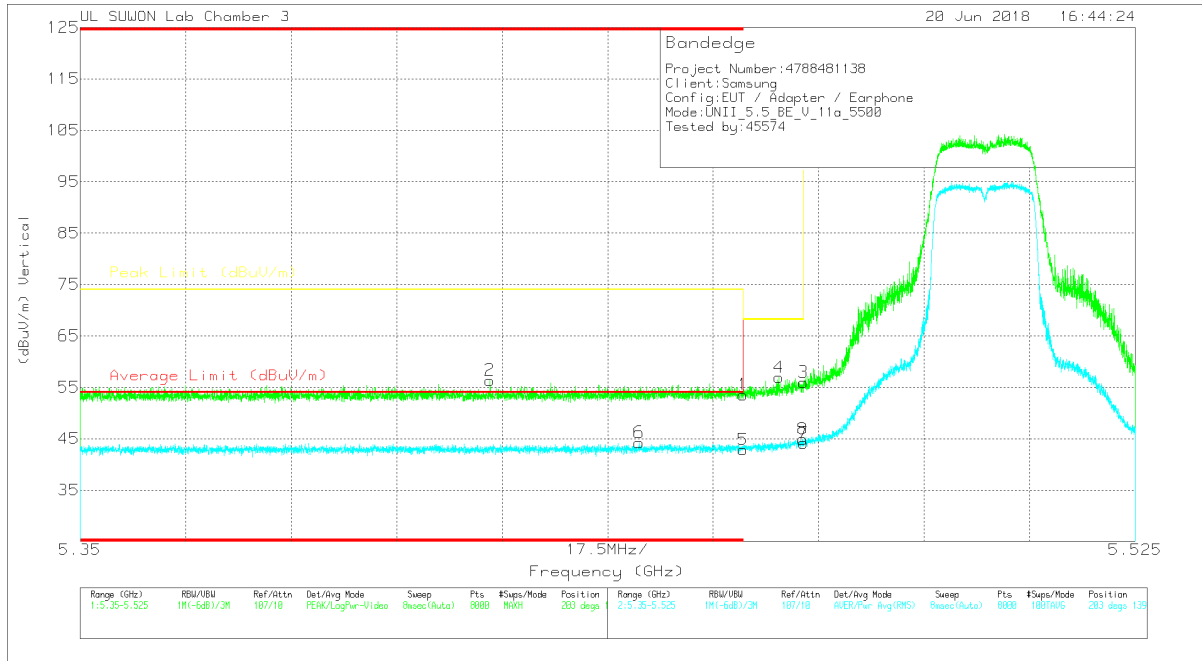
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.77	Pk	34.3	-18.4	0	53.67	-	-	74	-20.33	358	100	H
2	* 5.451	40.77	Pk	34.3	-18.4	0	56.67	-	-	74	-17.33	358	100	H
3	5.47	38.83	Pk	34.3	-18.4	0	54.73	-	-	68.2	-13.47	358	100	H
4	5.467	40.82	Pk	34.3	-18.4	0	56.72	-	-	68.2	-11.48	358	100	H
5	* 5.46	27.03	RMS	34.3	-18.8	0	42.53	54	-11.47	-	-	358	100	H
6	* 5.373	29.15	RMS	34.4	-19	0	44.55	54	-9.45	-	-	358	100	H
7	5.47	28.24	RMS	34.3	-18.8	0	43.74	-	-	-	-	358	100	H
8	5.469	29.2	RMS	34.3	-18.8	0	44.7	-	-	-	-	358	100	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	3117(00205959)	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	* 5.46	37.66	Pk	34.3	-18.4	0	53.56	-	-	74	-20.44	203	139	V
2	* 5.418	40.46	Pk	34.3	-18.4	0	56.36	-	-	74	-17.64	203	139	V
3	5.47	40.07	Pk	34.3	-18.4	0	55.97	-	-	68.2	-12.23	203	139	V
4	5.466	40.99	Pk	34.3	-18.4	0	56.89	-	-	68.2	-11.31	203	139	V
5	* 5.46	27.34	RMS	34.3	-18.8	0	42.84	54	-11.16	-	-	203	139	V
6	* 5.443	28.85	RMS	34.3	-18.9	0	44.25	54	-9.75	-	-	203	139	V
7	5.47	28.68	RMS	34.3	-18.8	0	44.18	-	-	-	-	203	139	V
8	5.47	29.41	RMS	34.3	-18.8	0	44.91	-	-	-	-	203	139	V

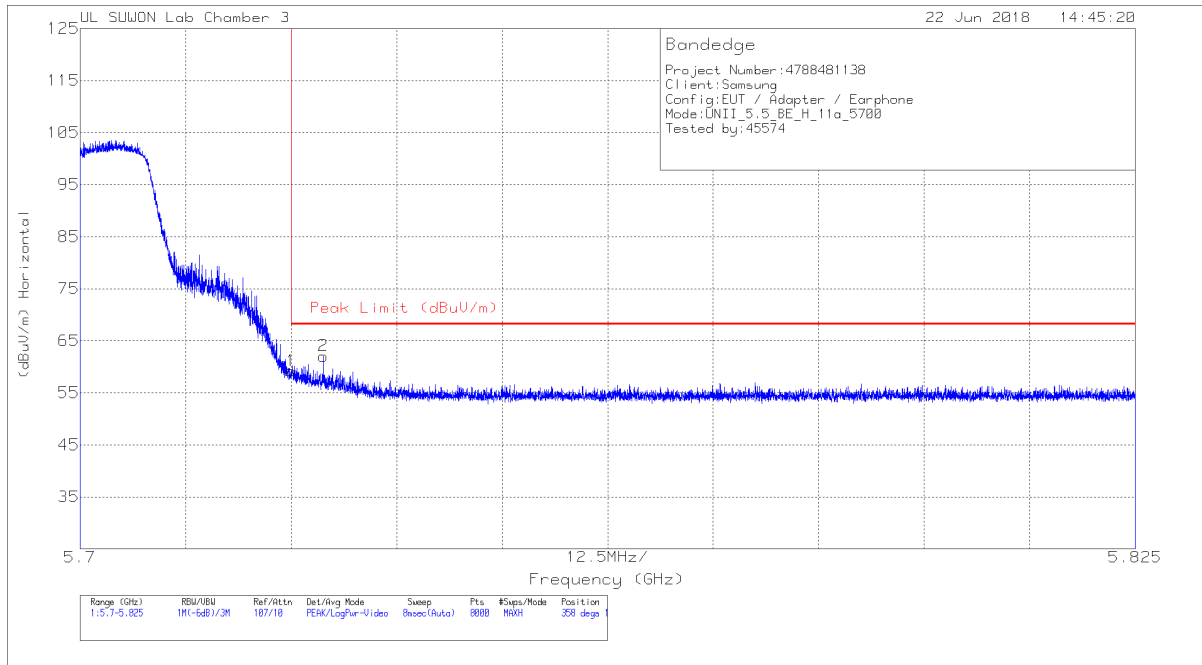
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



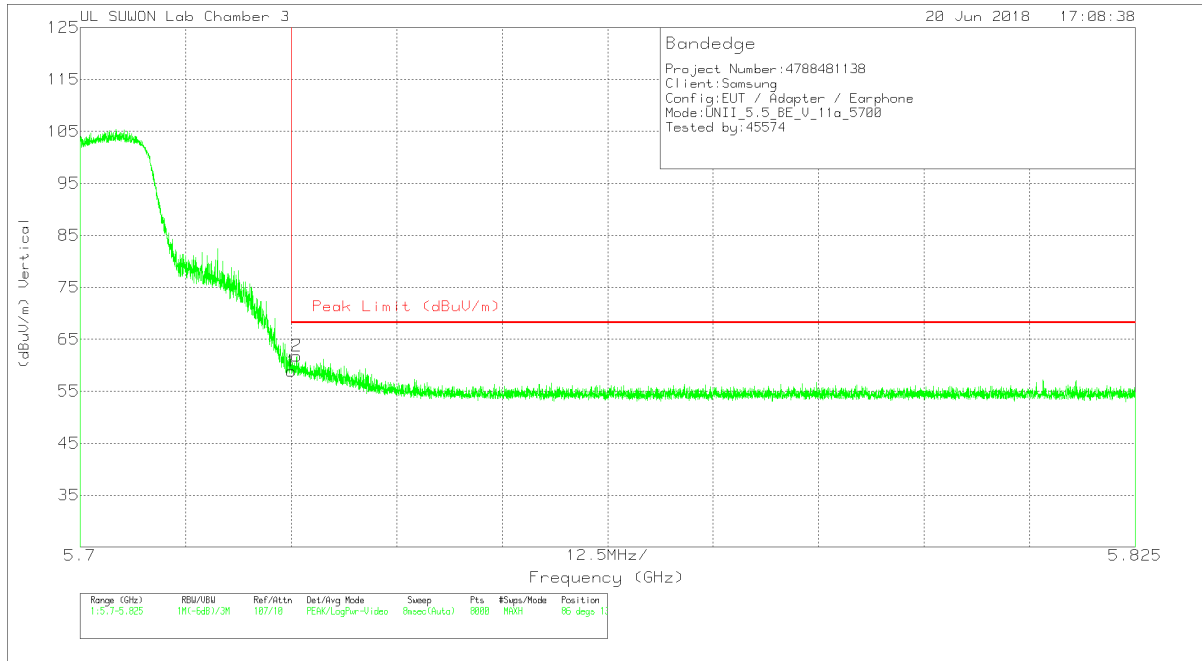
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.43	Pk	34.7	-17.9	0	59.23	68.2	-8.97	358	112	H
2	5.729	45.27	Pk	34.7	-17.9	0	62.07	68.2	-6.13	358	112	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

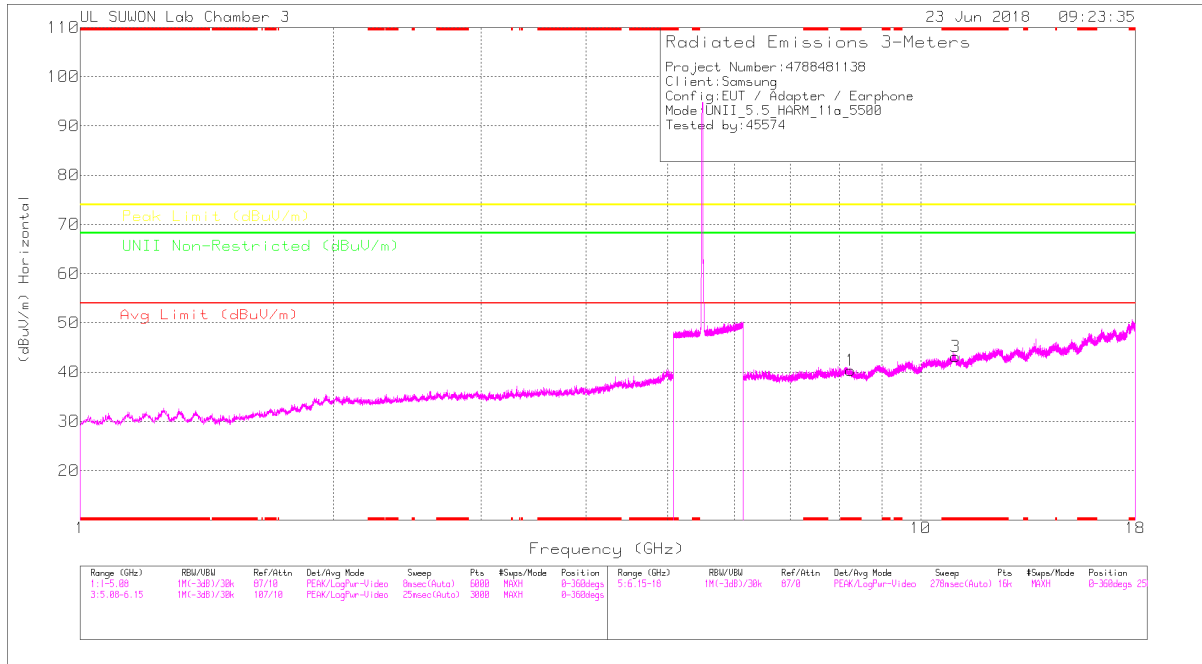
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.05	Pk	34.7	-17.9	58.85	68.2	-9.35	86	131	V
2	5.726	45	Pk	34.7	-17.9	61.8	68.2	-6.4	86	131	V

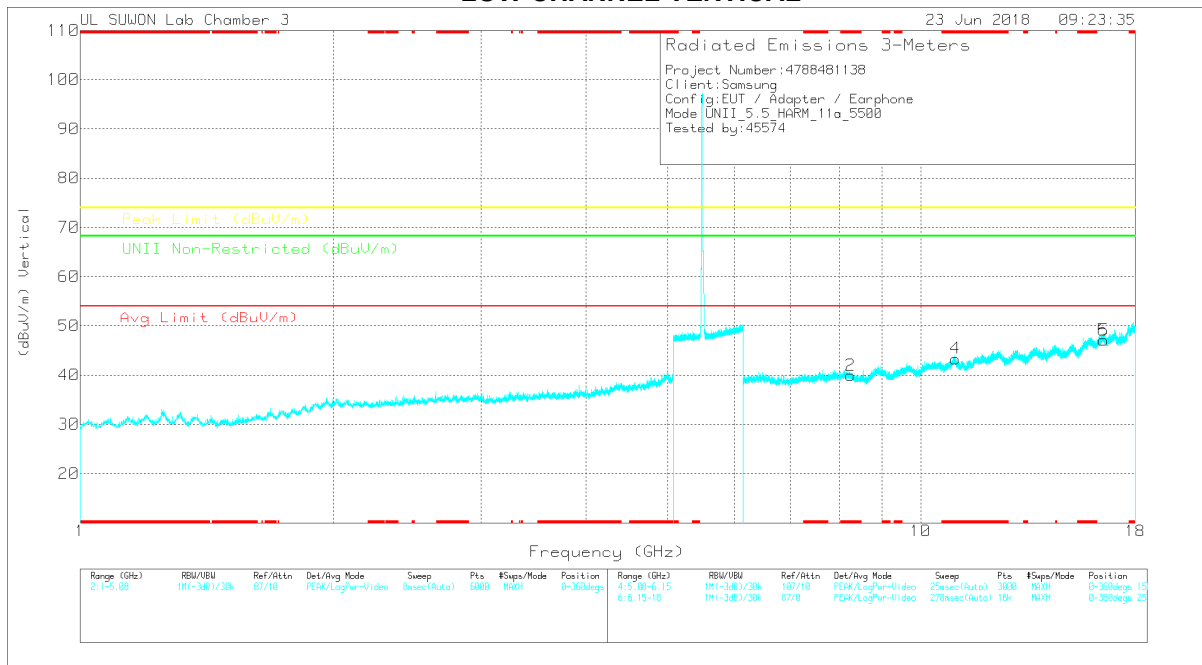
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

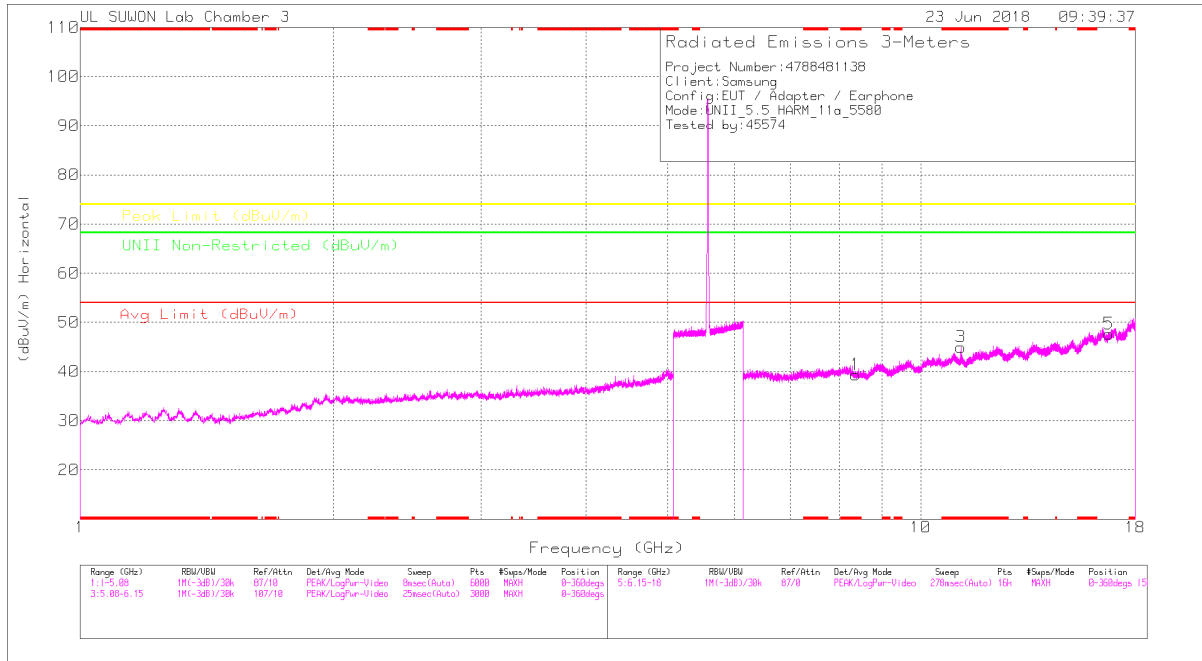
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	317(0020995)	66Hz_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	* 8.251	26.42	PK	35.8	-21.9	0	40.32	-	-	74	-33.68	-	-	0-360	150	H
3	* 11.001	24.82	PK	37.8	-19.5	0	43.12	-	-	74	-30.88	-	-	0-360	150	H
2	* 8.25	26.04	PK	35.8	-21.9	0	39.94	-	-	74	-34.06	-	-	0-360	251	V
4	* 11.001	25.05	PK	37.8	-19.5	0	43.35	-	-	74	-30.65	-	-	0-360	251	V
5	16.5	23.08	PK	41.4	-17.4	0	47.08	-	-	-	-	68.2	-21.12	0-360	251	V
6	16.5	23.08	PK	41.4	-17.4	0	47.08	-	-	-	-	68.2	-21.12	0-360	251	V

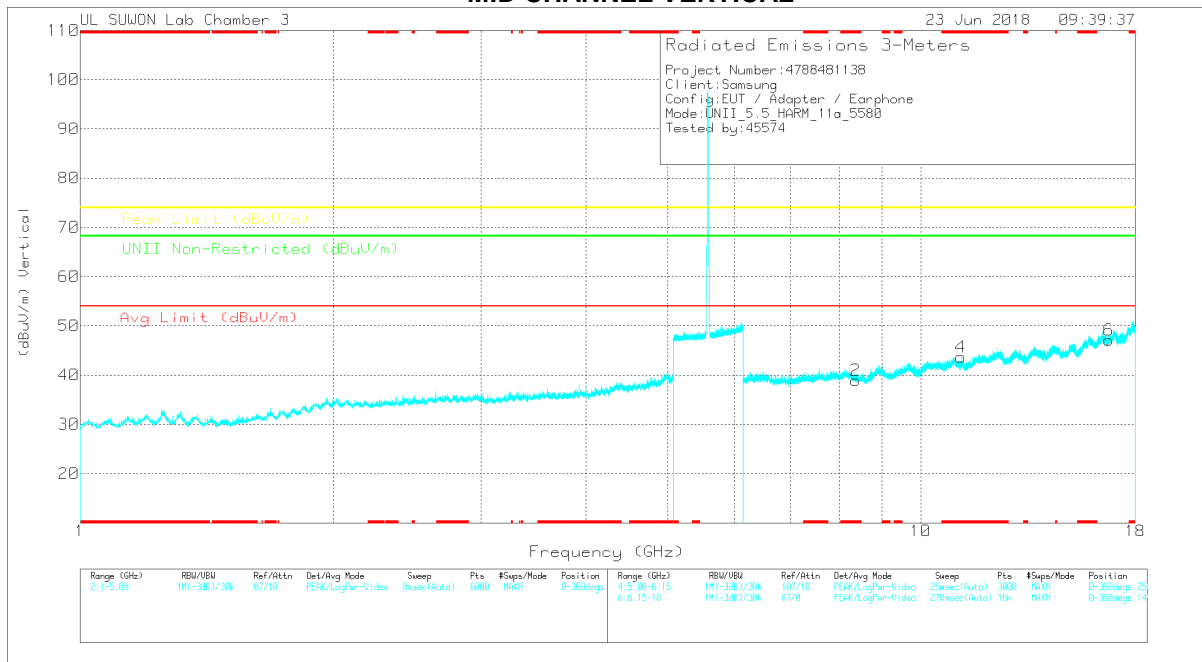
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

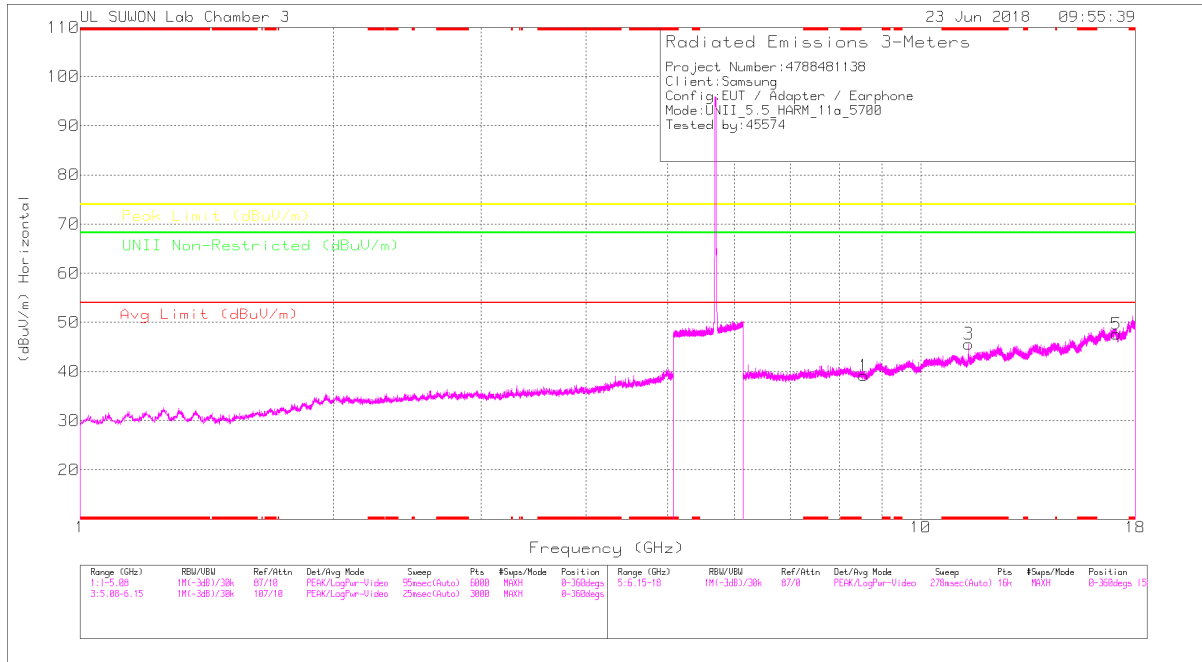
Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	317(0020995)	66Hz_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
1	* 8.371	25.45	PK	35.8	-21.9	0	39.35	-	-	74	-34.65	-	-	0-360	150	H
3	* 11.162	26.91	PK	37.9	-19.8	0	45.01	-	-	74	-28.99	-	-	0-360	250	H
5	16.74	23.17	PK	41.5	-17	0	47.67	-	-	-	-	68.2	-20.53	0-360	150	H
2	* 8.371	25.05	PK	35.8	-21.9	0	38.95	-	-	74	-35.05	-	-	0-360	250	V
4	* 11.163	25.55	PK	37.9	-19.8	0	43.65	-	-	74	-30.35	-	-	0-360	250	V
6	16.74	22.59	PK	41.5	-17	0	47.09	-	-	-	-	68.2	-21.11	0-360	250	V

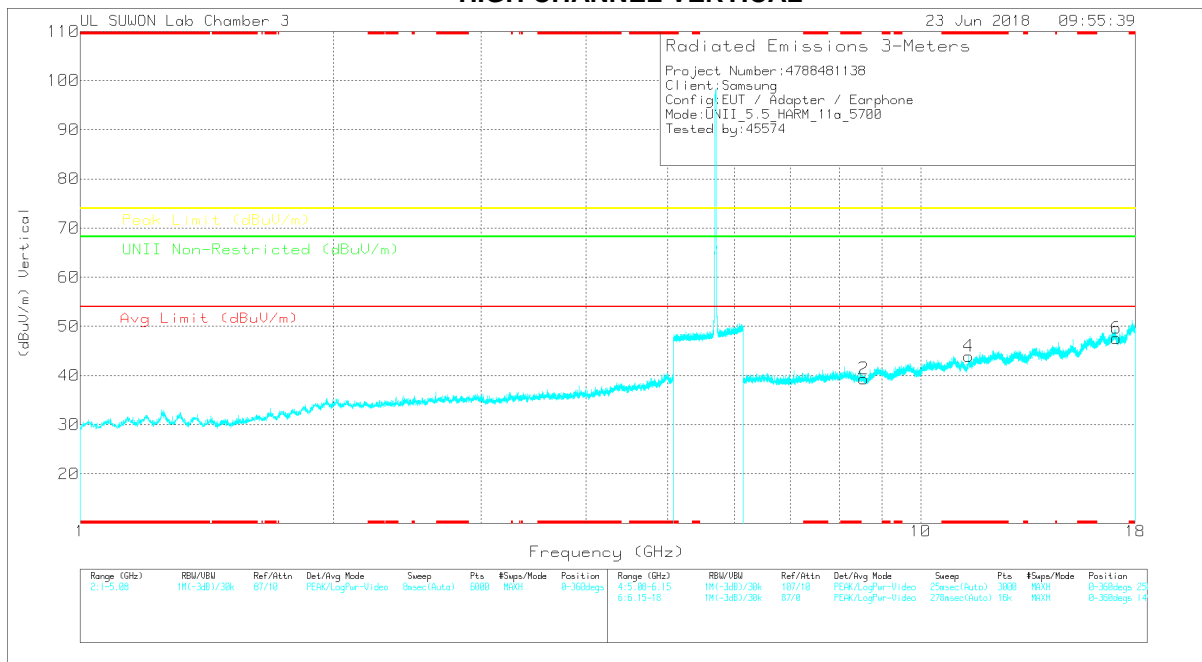
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020959)	6GHz_HF(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	8.551	24.59	PK	35.8	-21.2	0	39.19	-	-	-	-	68.2	-29.01	0-360	150	H
3	* 11.4	27.22	PK	38	-19.6	0	45.62	-	-	74	-28.38	-	-	0-360	250	H
5	17.1	22.51	PK	41	-15.9	0	47.61	-	-	-	-	68.2	-20.59	0-360	150	H
2	8.551	24.75	PK	35.8	-21.2	0	39.35	-	-	-	-	68.2	-28.85	0-360	149	V
4	* 11.399	25.56	PK	38	-19.6	0	43.96	-	-	74	-30.04	-	-	0-360	250	V
6	17.1	22.48	PK	41	-15.9	0	47.58	-	-	-	-	68.2	-20.62	0-360	250	V

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

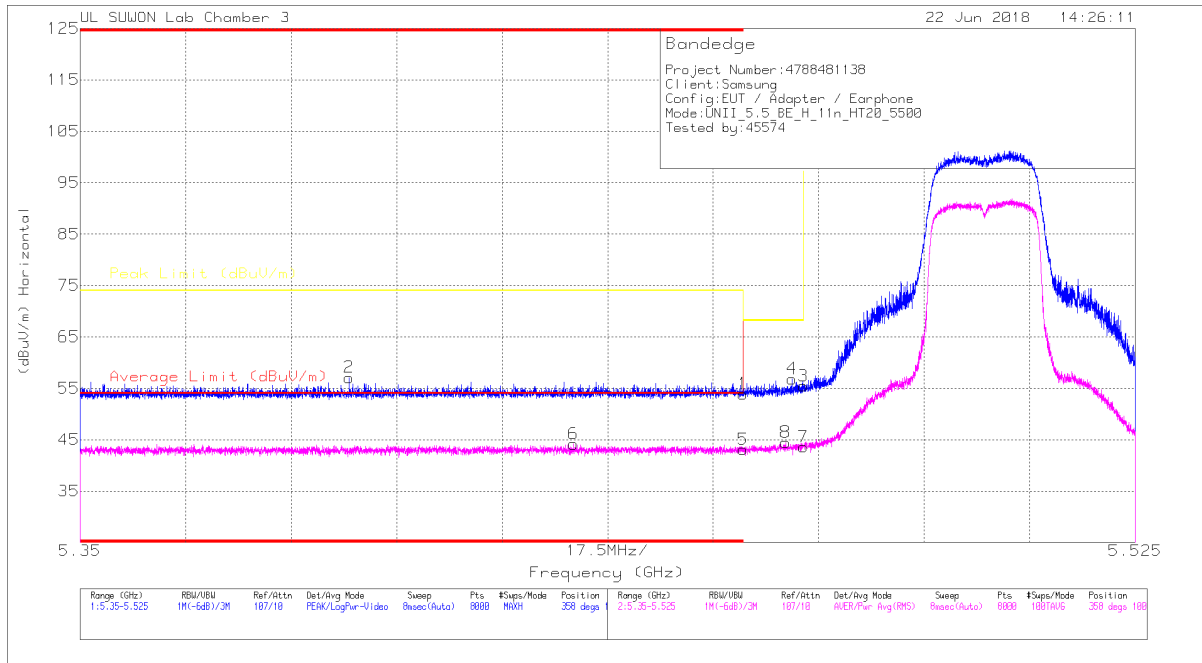
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020959)	6GHz_HF(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
* 11.401	36.88	PK-U	38	-19.6	0	55.28	-	-	74	-18.72	-	-	127	243	H
* 11.4	24.34	ADR	38	-19.6	0	42.74	54	-11.26	-	-	-	-	127	243	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

11.3.2.TX ABOVE 1GHz 802.11n HT20 MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

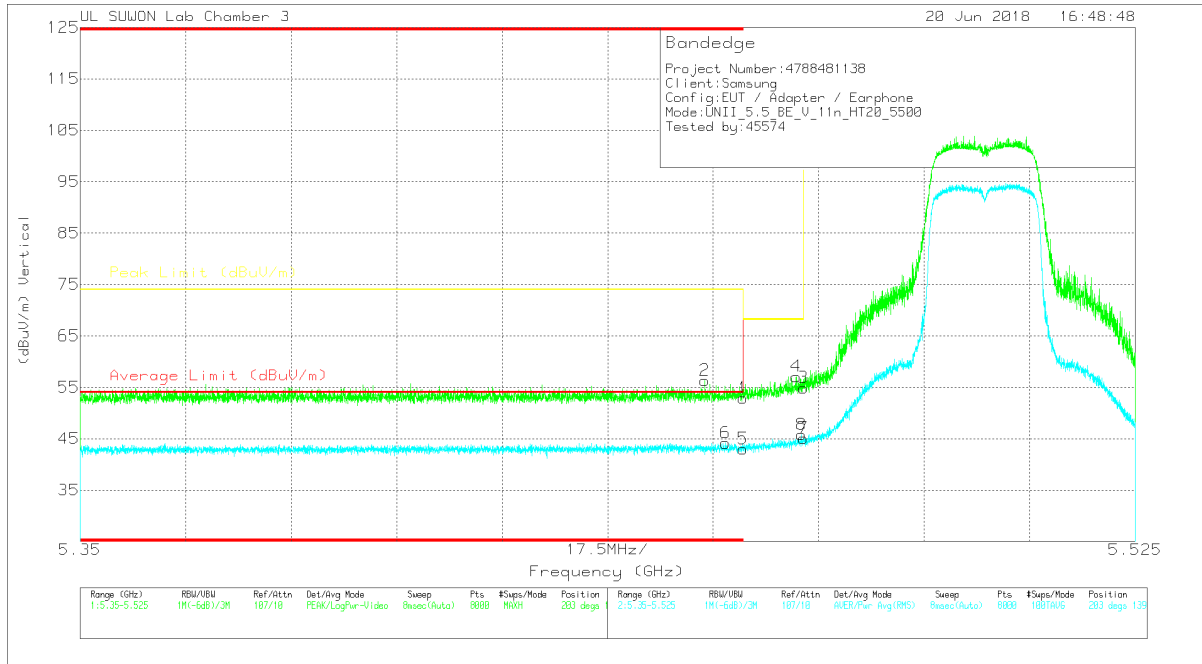
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.02	Pk	34.3	-18.4	0	53.92	-	-	74	-20.08	358	100	H
2	* 5.395	41.31	Pk	34.3	-18.5	0	57.11	-	-	74	-16.89	358	100	H
3	5.47	39.54	Pk	34.3	-18.4	0	55.44	-	-	68.2	-12.76	358	100	H
4	5.468	40.95	Pk	34.3	-18.4	0	56.85	-	-	68.2	-11.35	358	100	H
5	* 5.46	27.63	RMS	34.3	-18.8	0	43.13	54	-10.87	-	-	358	100	H
6	* 5.432	28.78	RMS	34.3	-18.9	0	44.18	54	-9.82	-	-	358	100	H
7	5.47	28.12	RMS	34.3	-18.8	0	43.62	-	-	-	-	358	100	H
8	5.467	28.98	RMS	34.3	-18.8	0	44.48	-	-	-	-	358	100	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	3117(00205959)	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	* 5.46	37.01	Pk	34.3	-18.4	0	52.91	-	-	74	-21.09	203	139	V
2	* 5.454	40.43	Pk	34.3	-18.4	0	56.33	-	-	74	-17.67	203	139	V
3	5.47	39.01	Pk	34.3	-18.4	0	54.91	-	-	68.2	-13.29	203	139	V
4	5.469	41.21	Pk	34.3	-18.4	0	57.11	-	-	68.2	-11.09	203	139	V
5	* 5.46	27.53	RMS	34.3	-18.8	0	43.03	54	-10.97	-	-	203	139	V
6	* 5.457	28.68	RMS	34.3	-18.8	0	44.18	54	-9.82	-	-	203	139	V
7	5.47	29.6	RMS	34.3	-18.8	0	45.1	-	-	-	-	203	139	V
8	5.47	30.28	RMS	34.3	-18.8	0	45.78	-	-	-	-	203	139	V

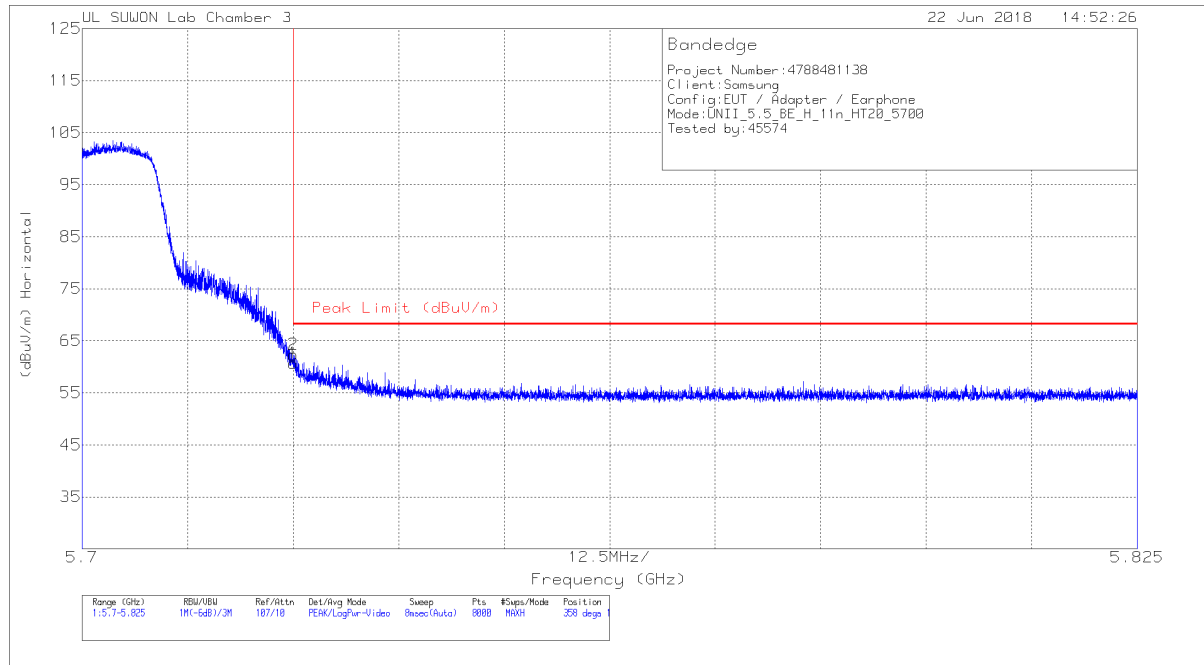
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



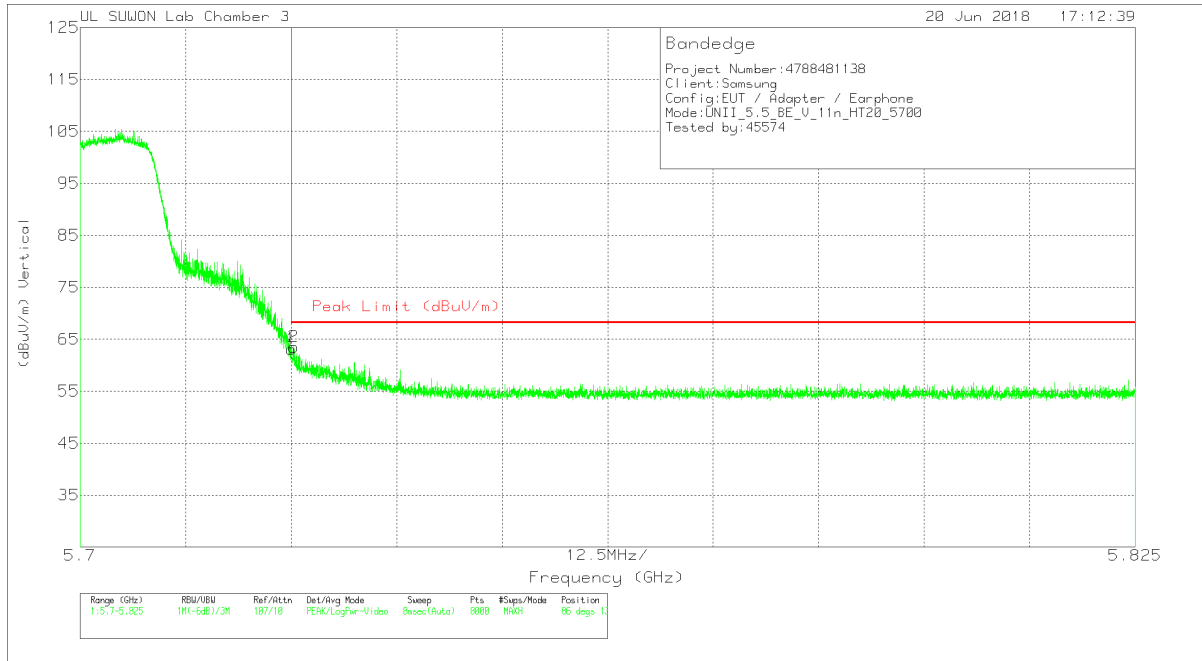
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.88	Pk	34.7	-17.9	0	60.68	68.2	-7.52	358	112	H
2	5.725	45.52	Pk	34.7	-17.9	0	62.32	68.2	-5.88	358	112	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

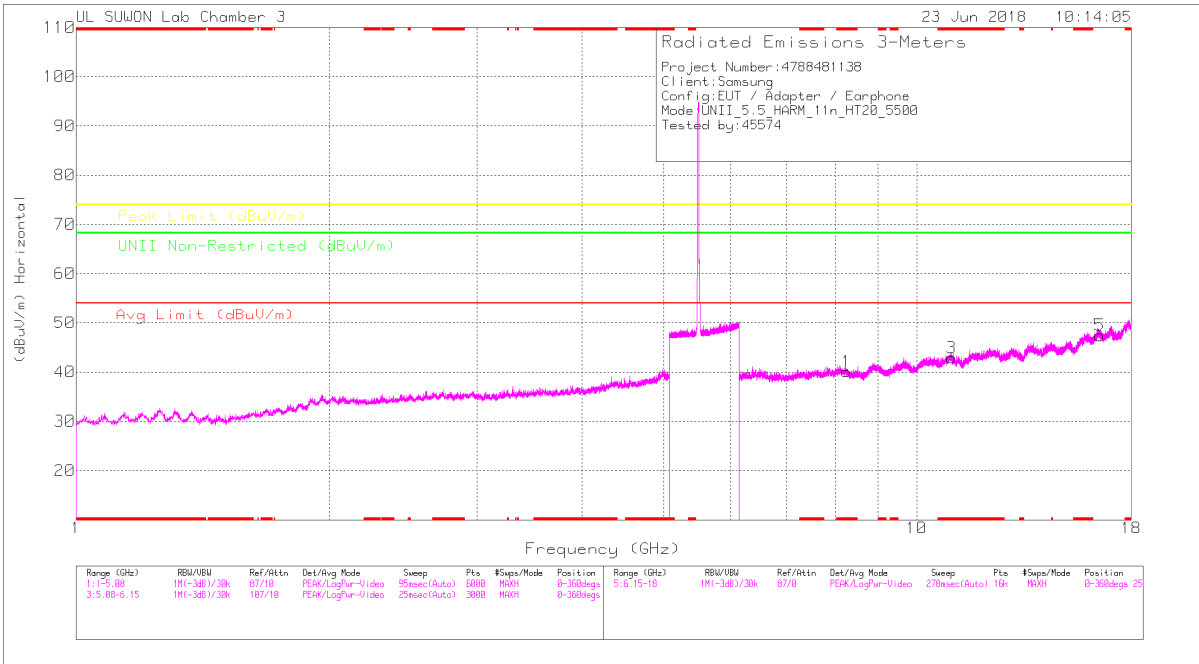
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	46.32	Pk	34.7	-17.9	63.12	68.2	-5.08	86	131	V
2	5.725	46.74	Pk	34.7	-17.9	63.54	68.2	-4.66	86	131	V

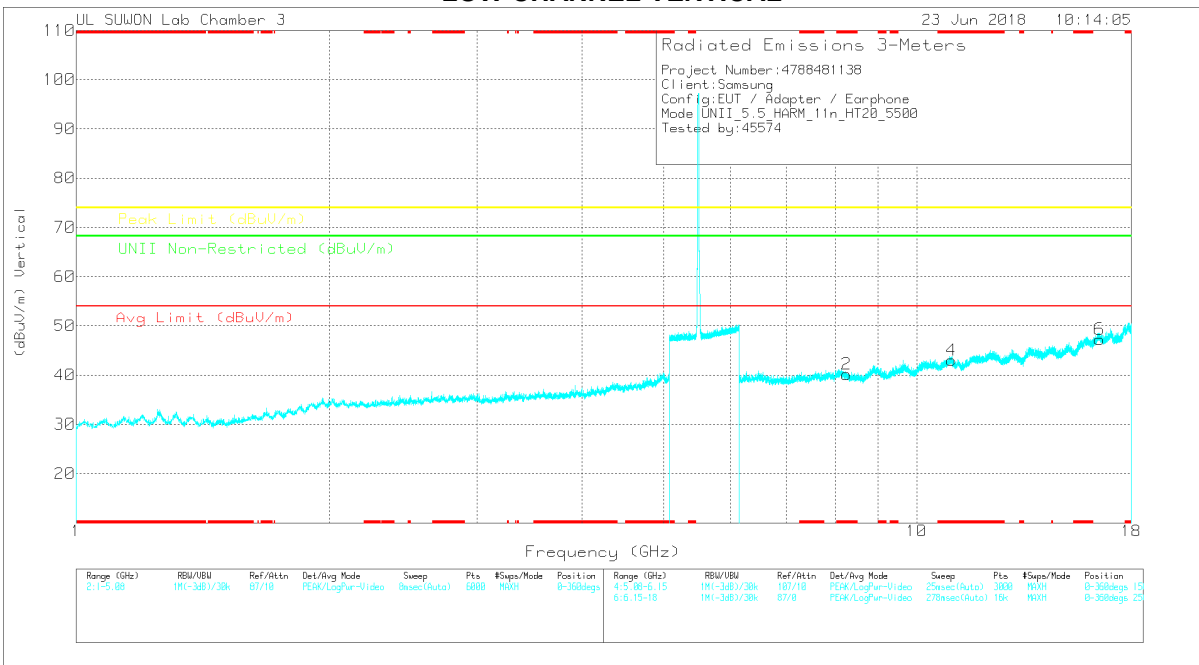
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

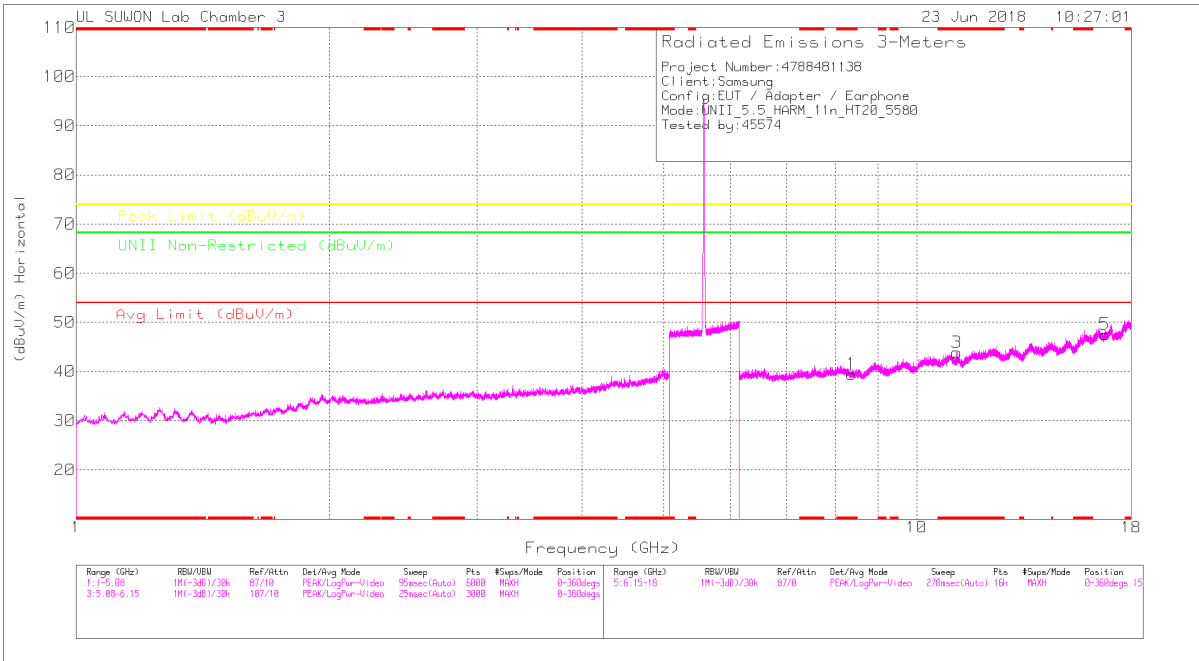
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020955R)	EGHz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 8.251	26.16	PK	35.8	-21.9	0	40.06	-	-	74	-33.94	-	-	0-360	250	H
3	* 11.001	24.57	PK	37.8	-19.5	0	42.87	-	-	74	-31.13	-	-	0-360	250	H
5	16.501	23.44	PK	41.4	-17.4	0	47.44	-	-	-	-	68.2	-20.76	0-360	149	H
2	* 8.251	26.26	PK	35.8	-21.9	0	40.16	-	-	74	-33.84	-	-	0-360	250	V
4	* 11.001	24.72	PK	37.8	-19.5	0	43.02	-	-	74	-30.98	-	-	0-360	250	V
6	16.501	23.27	PK	41.4	-17.4	0	47.27	-	-	-	-	68.2	-20.93	0-360	250	V

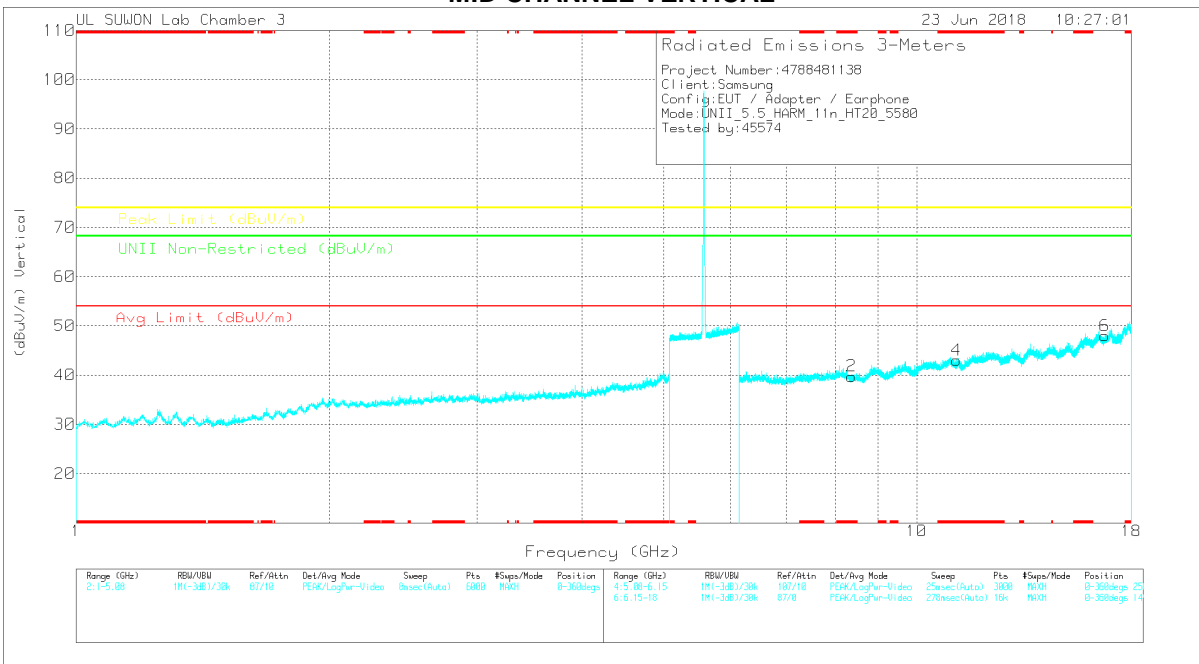
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

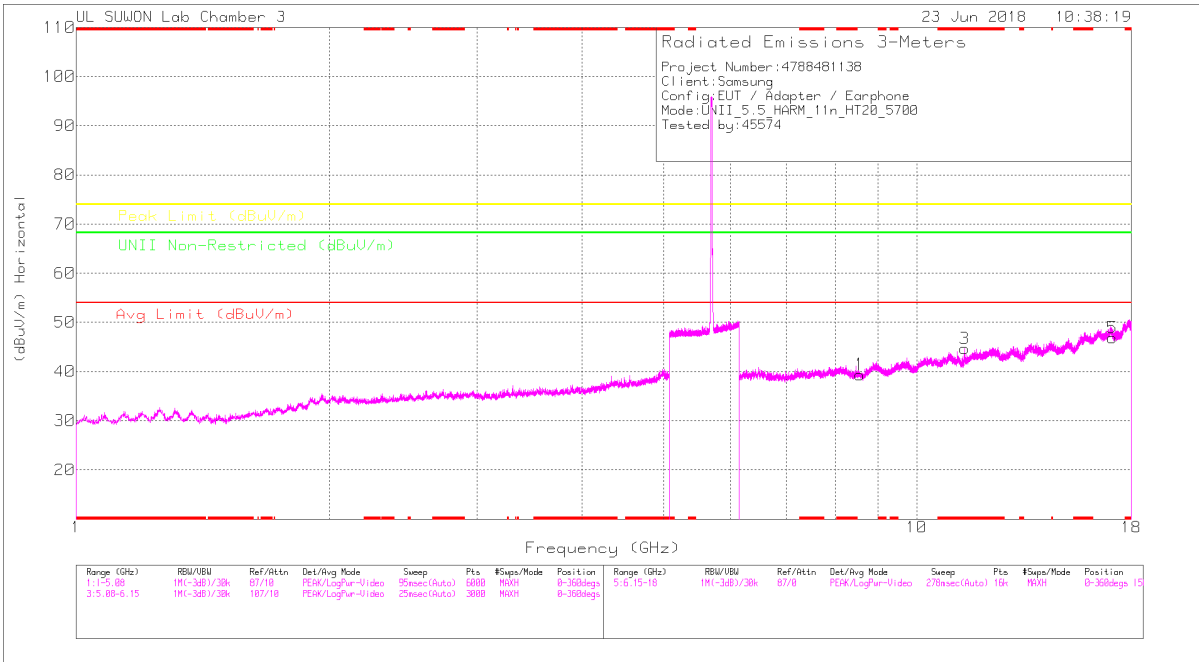
Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	317(0020995)	66Hz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 8.371	25.59	PK	35.8	-21.9	0	39.49	-	-	74	-34.51	-	-	0-360	150	H
3	* 11.161	25.67	PK	37.9	-19.7	0	43.87	-	-	74	-30.13	-	-	0-360	251	H
5	16.739	22.94	PK	41.5	-16.9	0	47.54	-	-	-	-	68.2	-20.66	0-360	251	H
2	* 8.371	25.86	PK	35.8	-21.9	0	39.76	-	-	74	-34.24	-	-	0-360	149	V
4	* 11.16	24.9	PK	37.9	-19.8	0	43	-	-	74	-31	-	-	0-360	250	V
6	16.739	23.39	PK	41.5	-16.9	0	47.99	-	-	-	-	68.2	-20.21	0-360	149	V

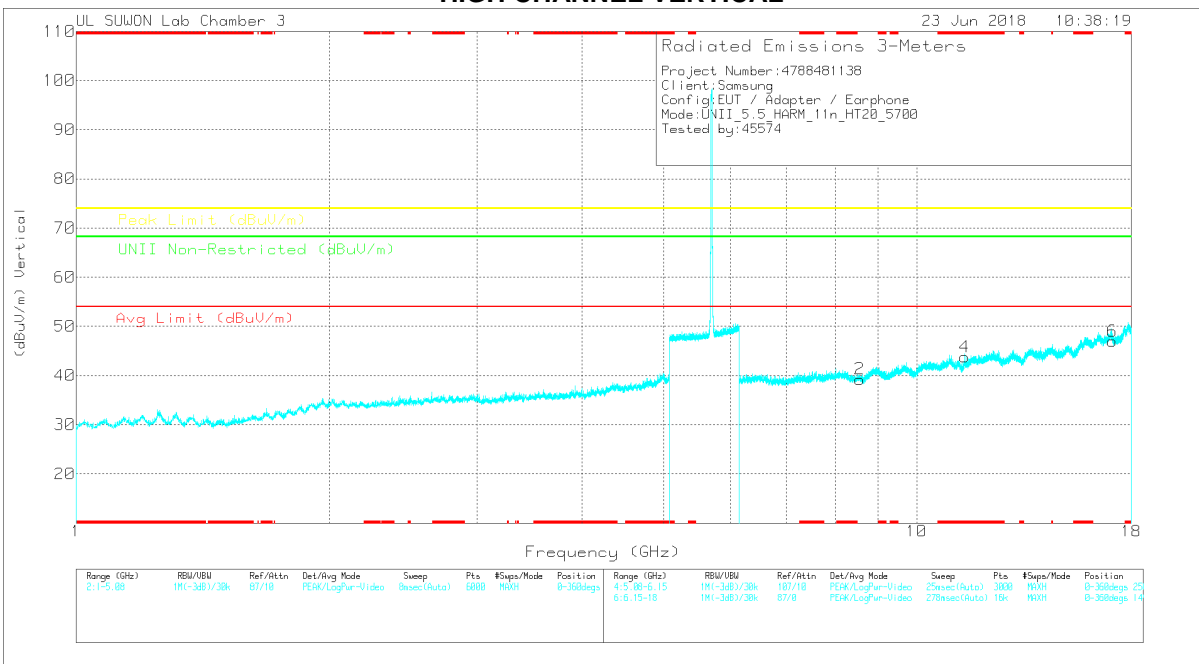
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

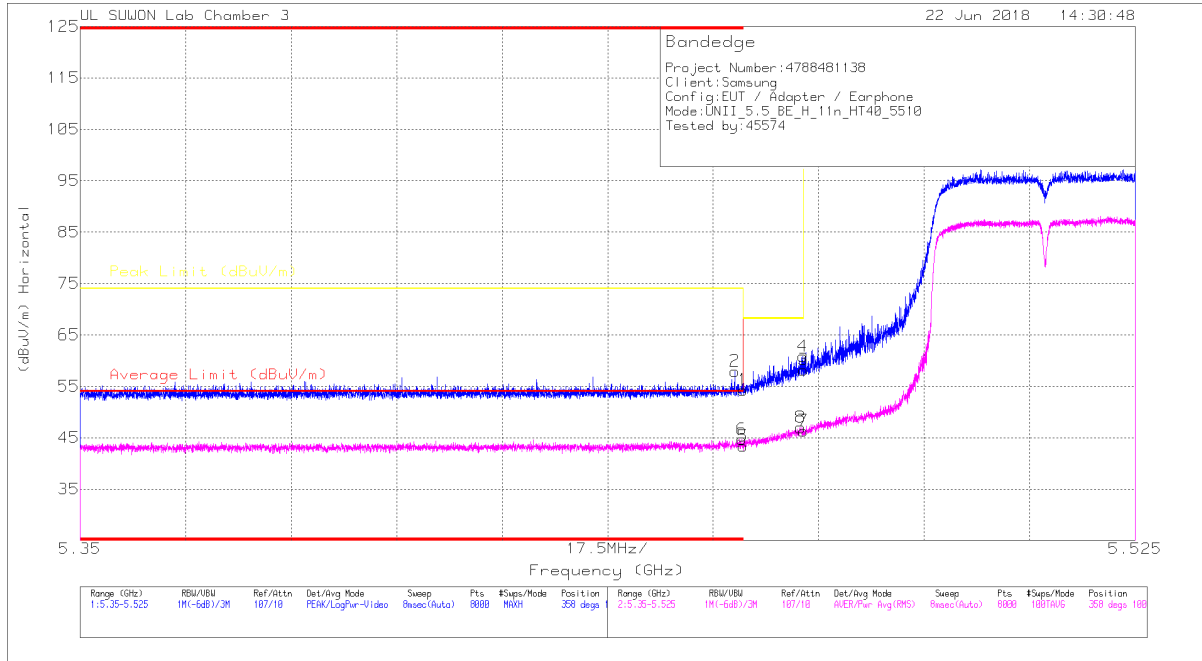
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020999)	GHz_HF[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.551	24.76	PK	35.8	-21.2	0	39.36	-	-	-	-	68.2	-28.84	0-360	150	H
3	* 11.4	26.29	PK	38	-19.6	0	44.69	-	-	74	-29.31	-	-	0-360	250	H
5	17.1	21.75	PK	41	-15.9	0	46.85	-	-	-	-	68.2	-21.35	0-360	250	H
2	8.551	24.65	PK	35.8	-21.2	0	39.25	-	-	-	-	68.2	-28.95	0-360	149	V
4	* 11.401	25.5	PK	38	-19.7	0	43.8	-	-	74	-30.2	-	-	0-360	250	V
6	17.1	21.89	PK	41	-15.9	0	46.99	-	-	-	-	68.2	-21.21	0-360	149	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).

11.3.3.TX ABOVE 1GHz 802.11n HT40 MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



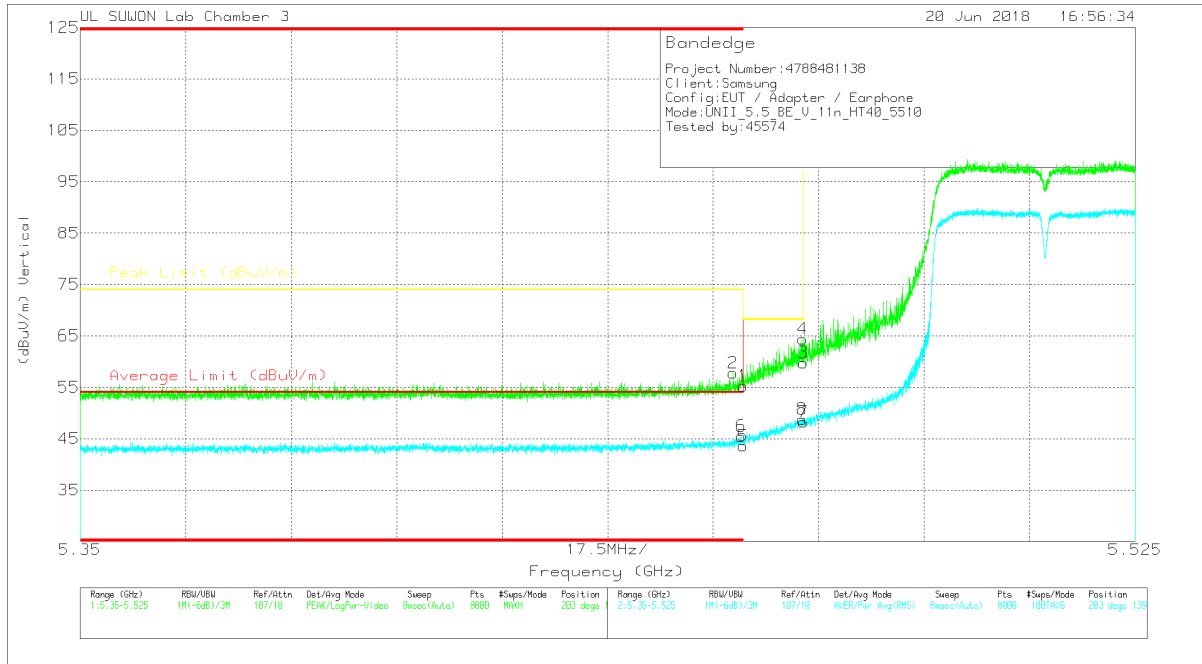
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	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	* 5.46	38.36	Pk	34.3	-18.4	0	54.26	-	-	74	-19.74	358	100	H
2	* 5.459	41.95	Pk	34.3	-18.3	0	57.95	-	-	74	-16.05	358	100	H
3	5.47	42.3	Pk	34.3	-18.4	0	58.2	-	-	68.2	-10	358	100	H
4	5.47	44.92	Pk	34.3	-18.4	0	60.82	-	-	68.2	-7.38	358	100	H
5	* 5.46	27.69	RMS	34.3	-18.8	.17	43.36	54	-10.64	-	-	358	100	H
6	* 5.46	29.04	RMS	34.3	-18.8	.17	44.71	54	-9.29	-	-	358	100	H
7	5.47	30.69	RMS	34.3	-18.8	.17	46.36	-	-	-	-	358	100	H
8	5.469	31.31	RMS	34.3	-18.8	.17	46.98	-	-	-	-	358	100	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	3117(00205959)	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	* 5.46	39.36	Pk	34.3	-18.4	0	55.26	-	-	74	-18.74	203	139	V
2	* 5.458	41.79	Pk	34.3	-18.3	0	57.79	-	-	74	-16.21	203	139	V
3	5.47	43.88	Pk	34.3	-18.4	0	59.78	-	-	68.2	-8.42	203	139	V
4	5.47	48.51	Pk	34.3	-18.4	0	64.41	-	-	68.2	-3.79	203	139	V
5	* 5.46	27.95	RMS	34.3	-18.8	.17	43.62	54	-10.38	-	-	203	139	V
6	* 5.46	29.82	RMS	34.3	-18.8	.17	45.49	54	-8.51	-	-	203	139	V
7	5.47	32.58	RMS	34.3	-18.8	.17	48.25	-	-	-	-	203	139	V
8	5.47	33.1	RMS	34.3	-18.8	.17	48.77	-	-	-	-	203	139	V

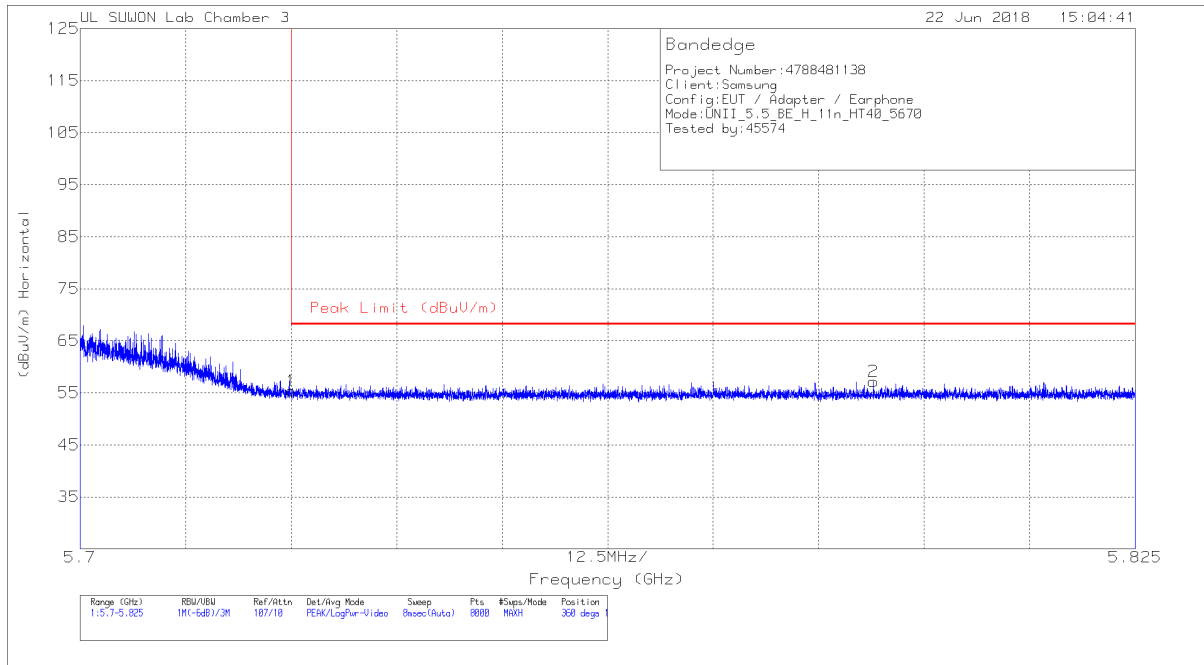
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



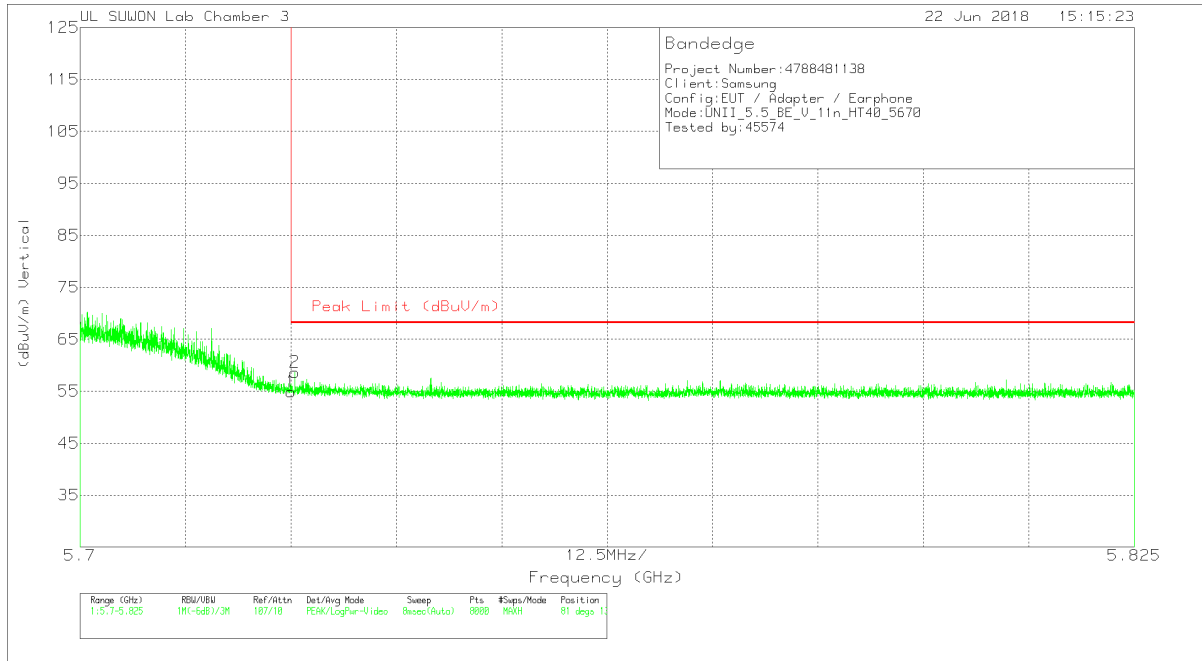
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.55	Pk	34.7	-17.9	55.35	68.2	-12.85	360	100	H
2	5.794	40.06	Pk	34.8	-17.7	57.16	68.2	-11.04	360	100	H

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

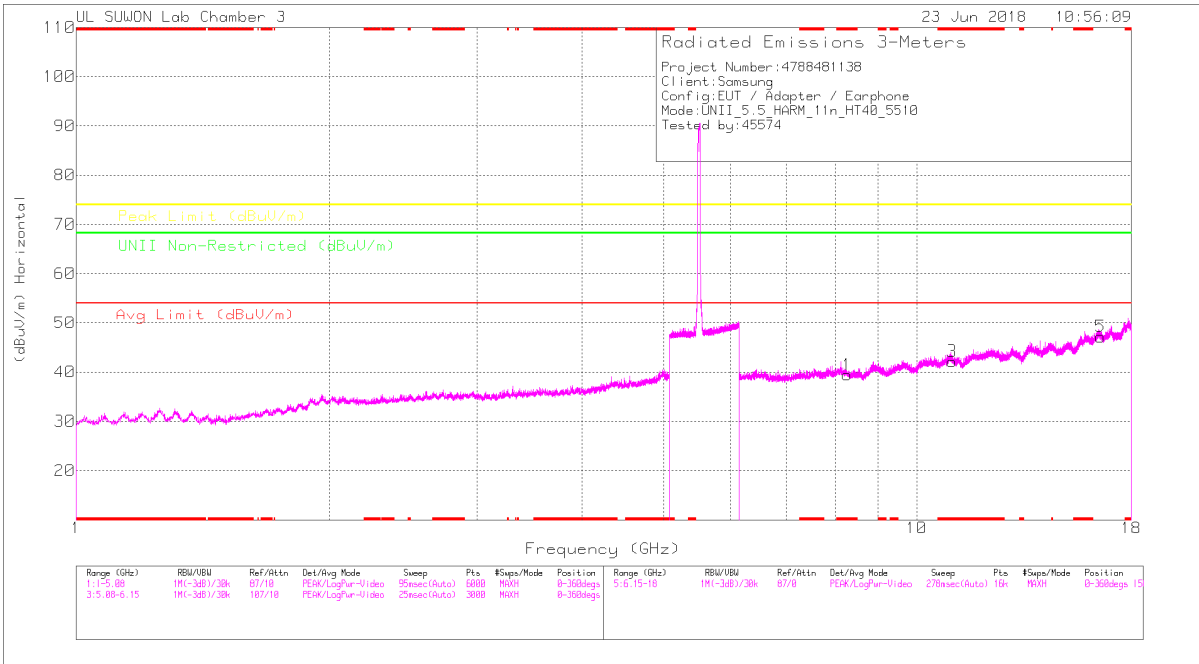
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.12	Pk	34.7	-17.9	0	54.92	68.2	-13.28	81	135	V
2	5.725	41.86	Pk	34.7	-17.9	0	58.66	68.2	-9.54	81	135	V

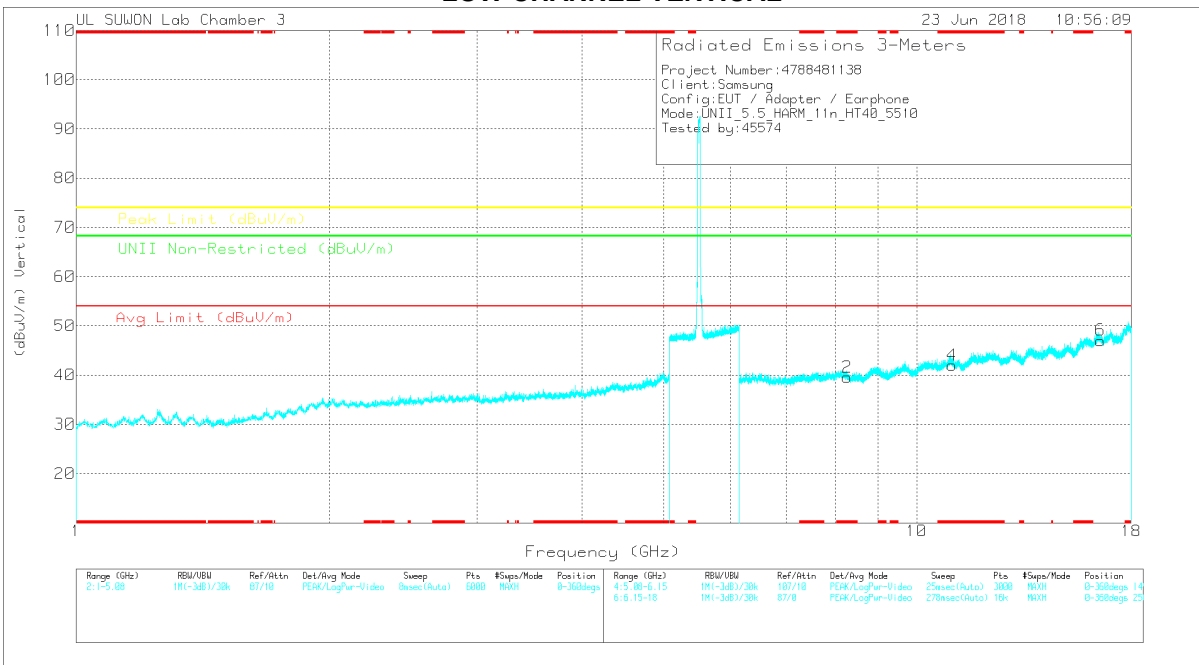
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

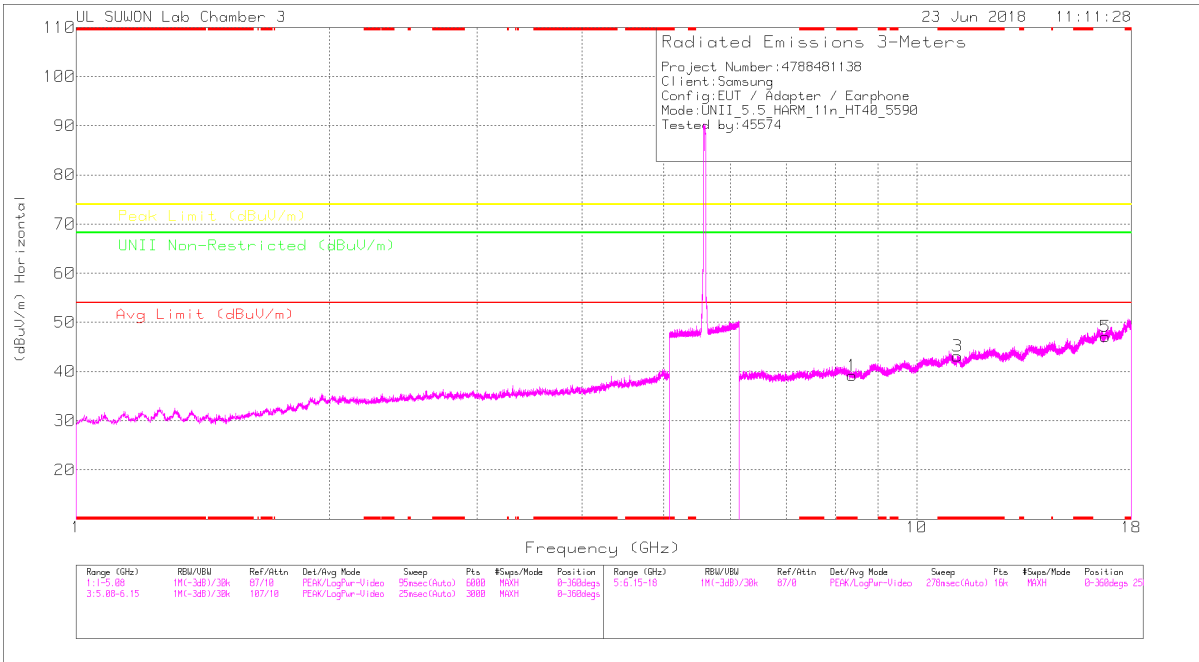
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117(00209959)	6GHz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 8.266	25.65	PK	35.8	-22	0	39.45	-	-	74	-34.55	-	-	0-360	250	H
3	* 11.021	23.95	PK	37.8	-19.6	0	42.15	-	-	74	-31.85	-	-	0-360	250	H
5	16.531	23.09	PK	41.4	-17.3	0	47.19	-	-	-	-	68.2	-21.01	0-360	250	H
2	* 8.266	25.75	PK	35.8	-22	0	39.55	-	-	74	-34.45	-	-	0-360	149	V
4	* 11.021	23.78	PK	37.8	-19.6	0	41.98	-	-	74	-32.02	-	-	0-360	149	V
6	16.531	22.95	PK	41.4	-17.3	0	47.05	-	-	-	-	68.2	-21.15	0-360	149	V

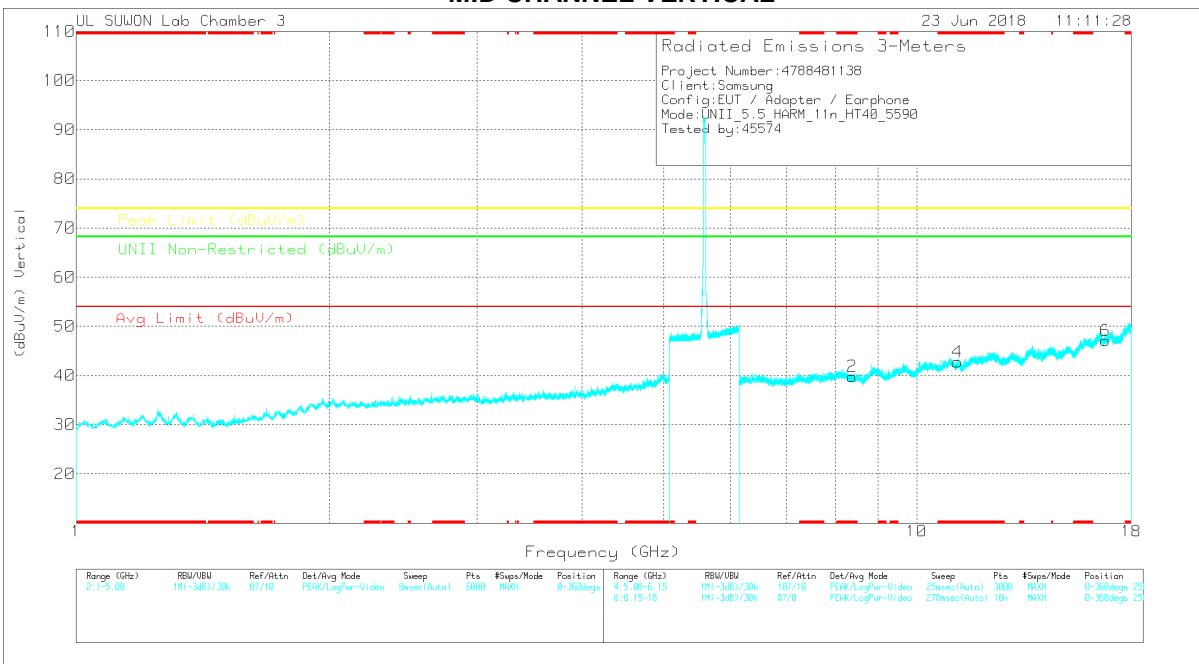
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

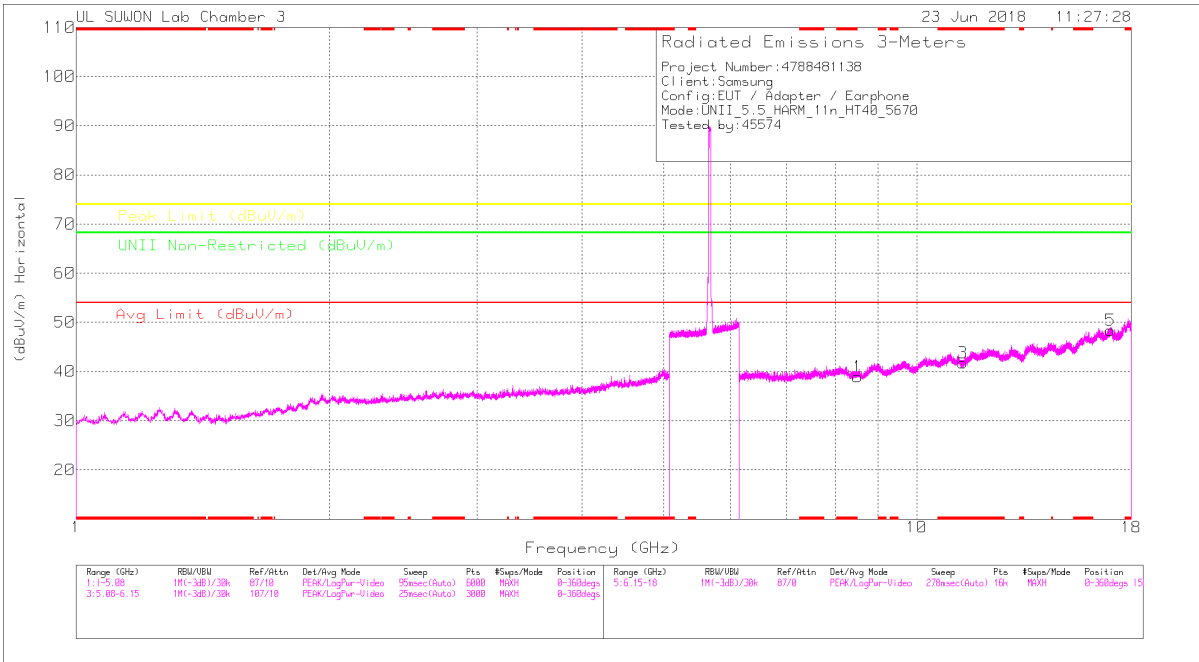
Trace Markers

Marker	Frequency (GHz)	Major Reading (dBuV)	Det	317(0020959)	66Hz_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
1	* 8.385	25.2	PK	35.8	-21.8	0	39.2	-	-	74	-34.8	-	-	0-360	250	H
3	* 11.18	24.95	PK	37.9	-19.7	0	43.15	-	-	74	-30.85	-	-	0-360	250	H
5	16.77	22.29	PK	41.5	-16.7	0	47.09	-	-	-	-	68.2	-21.11	0-360	150	H
2	* 8.384	25.8	PK	35.8	-21.8	0	39.8	-	-	74	-34.2	-	-	0-360	150	V
4	* 11.181	24.44	PK	37.9	-19.6	0	42.74	-	-	74	-31.26	-	-	0-360	250	V
6	16.77	22.32	PK	41.5	-16.7	0	47.12	-	-	-	-	68.2	-21.08	0-360	250	V

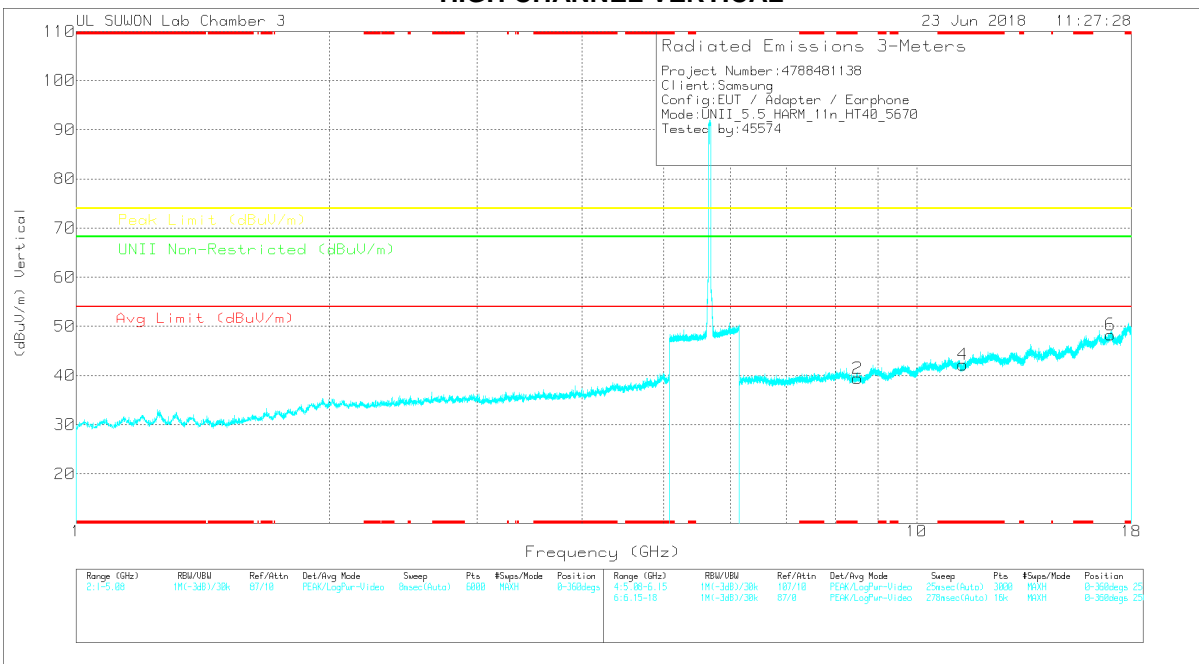
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	3117(0020959)	6GHz_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)	Azimuth (Degs)	Height (cm)	Polarity
1	8.505	24.45	PK	35.8	-21.3	0	38.95	-	-	-	-	68.2	-29.25	0-360	250	H
3	*11.341	23.63	PK	37.9	-19.8	0	41.73	-	-	74	-32.27	-	-	0-360	250	H
5	17.01	23.2	PK	41.2	-16	0	48.4	-	-	-	-	68.2	-19.8	0-360	250	H
2	8.505	24.93	PK	35.8	-21.3	0	39.43	-	-	-	-	68.2	-28.77	0-360	250	V
4	*11.341	24.11	PK	37.9	-19.8	0	42.21	-	-	74	-31.79	-	-	0-360	250	V
6	17.01	23.09	PK	41.2	-16	0	48.29	-	-	-	-	68.2	-19.91	0-360	149	V

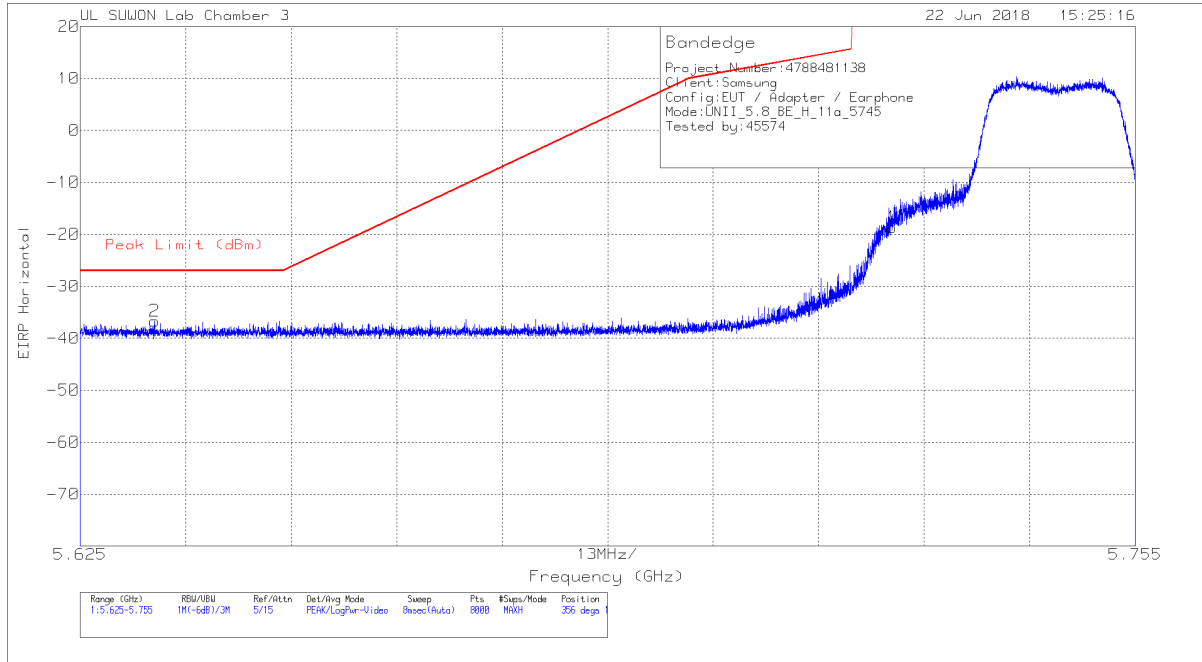
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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

11.4. 5.8 GHz

11.4.1. TX ABOVE 1GHz 802.11a MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



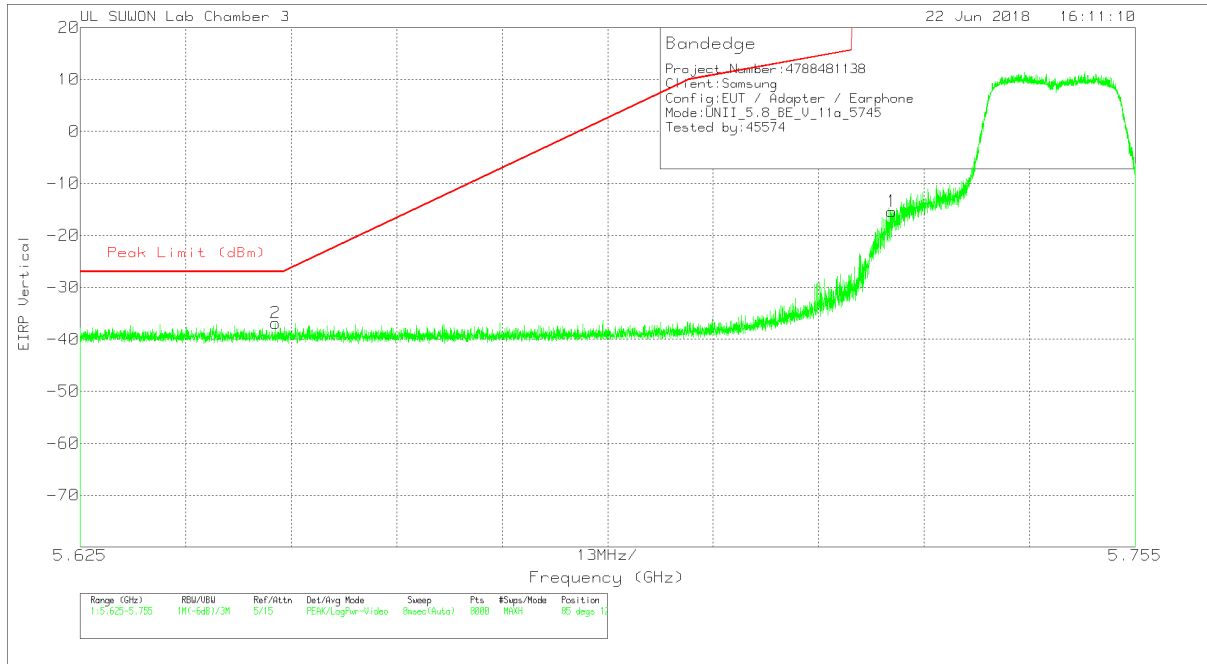
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-47.23	Pk	34.7	-17.9	11.8	-18.63	278.95	-297.58	356	100	H
2	5.634	-64.88	Pk	34.5	-18.1	11.8	-36.68	-27	-9.68	356	100	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

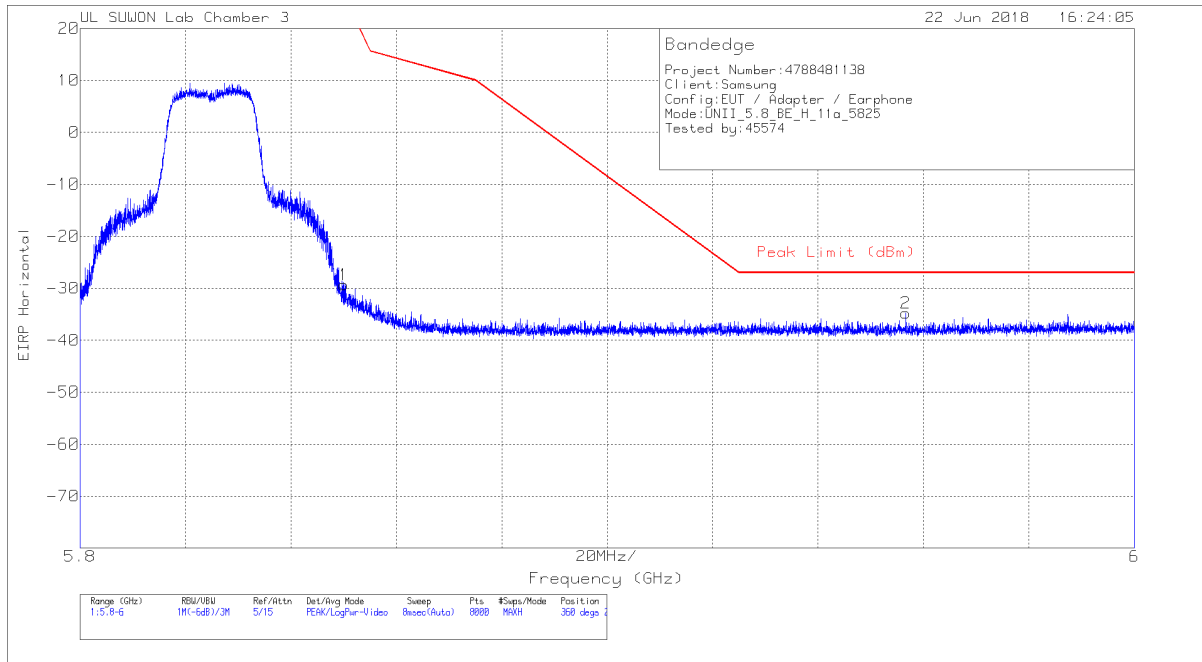
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-43.99	Pk	34.7	-17.9	11.8	-15.39	278.95	-294.34	85	128	V
2	5.649	-65.08	Pk	34.5	-18.1	11.8	-36.88	-27	-9.88	85	128	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



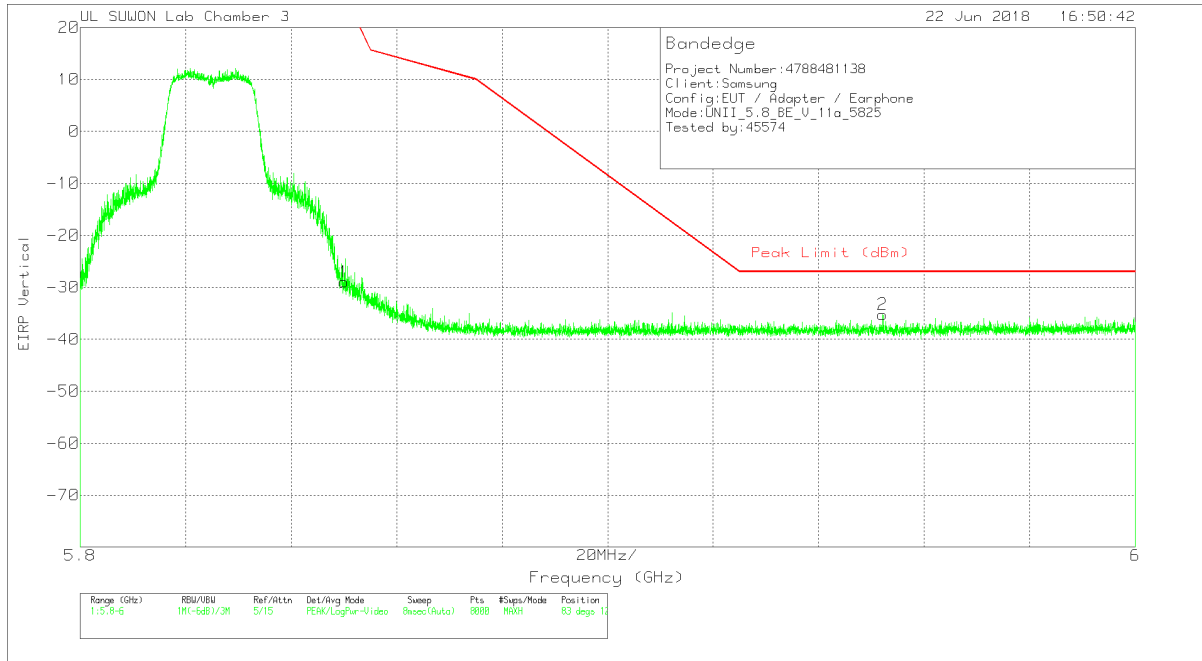
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-58.46	Pk	34.9	-17.6	11.8	-29.36	26.99	-56.35	360	288	H
2	5.957	-64.08	Pk	35	-17.5	11.8	-34.78	-27	-7.78	360	288	H

Pk - Peak detector

VERTICAL PEAK PLOT



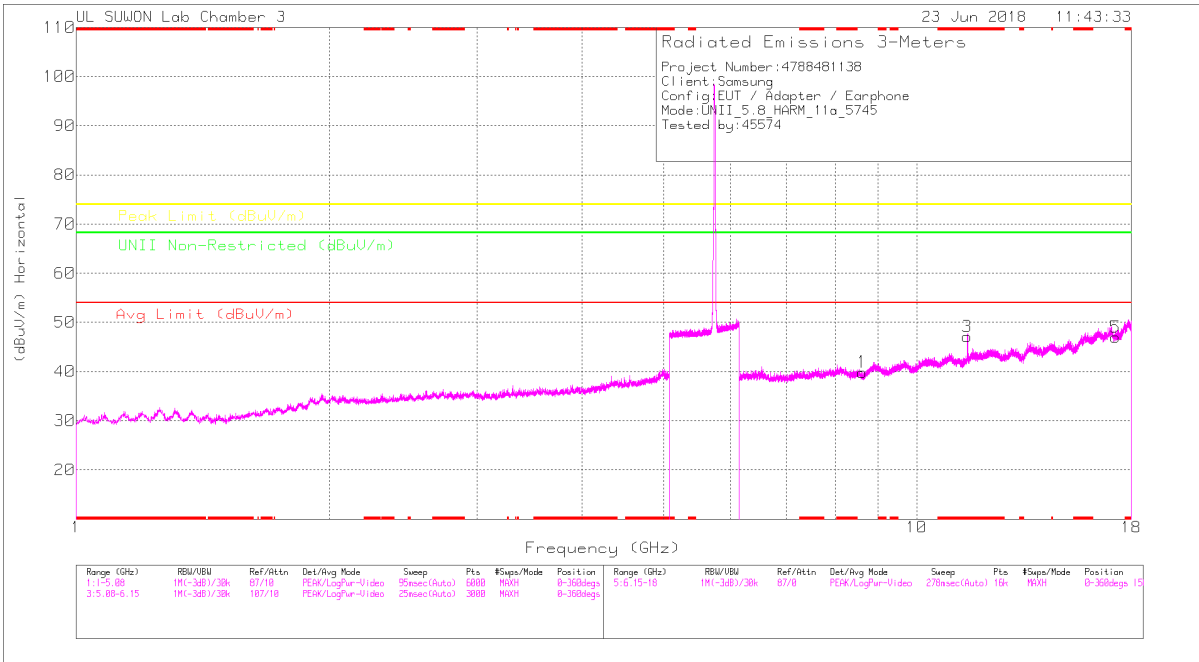
VERTICAL DATA

Trace Markers

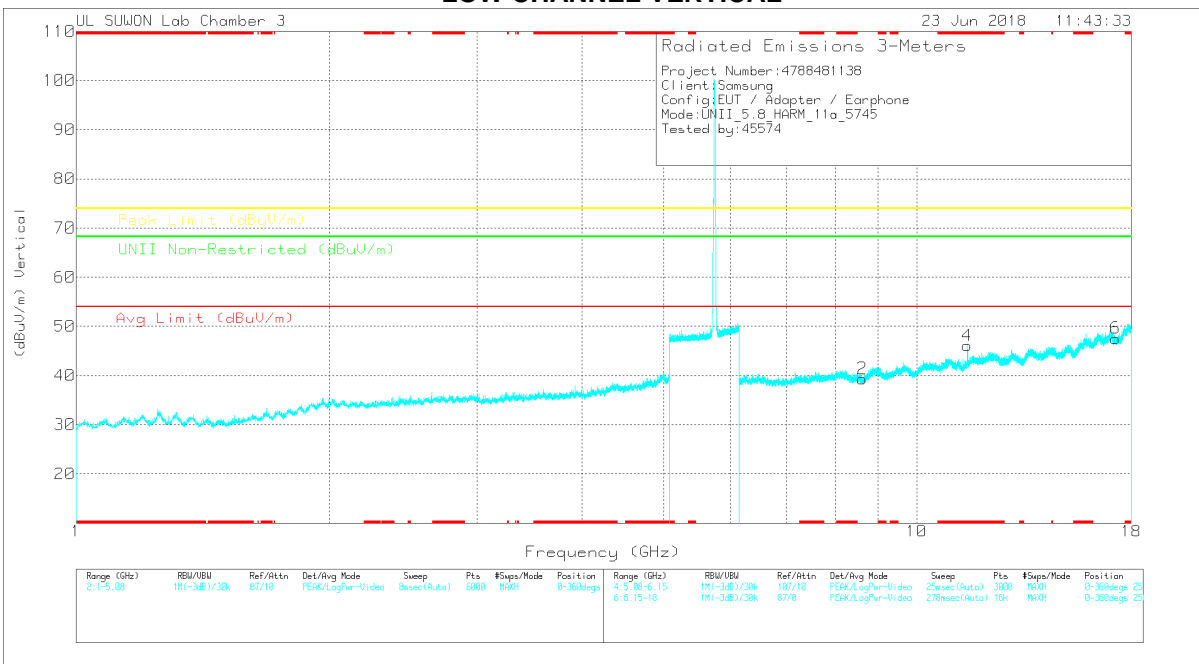
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-58.1	Pk	34.9	-17.6	11.8	-29	26.99	-55.99	83	121	V
2	5.952	-64.54	Pk	35	-17.5	11.8	-35.24	-27	-8.24	83	121	V

Pk - Peak detector

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	3117(0020959)	SGHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.616	25.56	PK	35.8	-21.5	0	39.86	-	-	-	-	68.2	-28.34	0-360	150	H
3	*11.491	28.62	PK	38	-19.5	0	47.12	-	-	74	-26.88	-	-	0-360	150	H
5	17.236	21.57	PK	40.7	-15.3	0	46.97	-	-	-	-	68.2	-21.23	0-360	150	H
2	8.618	25.05	PK	35.8	-21.5	0	39.35	-	-	-	-	68.2	-28.85	0-360	149	V
4	*11.489	27.67	PK	38	-19.6	0	46.07	-	-	74	-27.93	-	-	0-360	250	V
6	17.236	22.16	PK	40.7	-15.3	0	47.56	-	-	-	-	68.2	-20.64	0-360	250	V

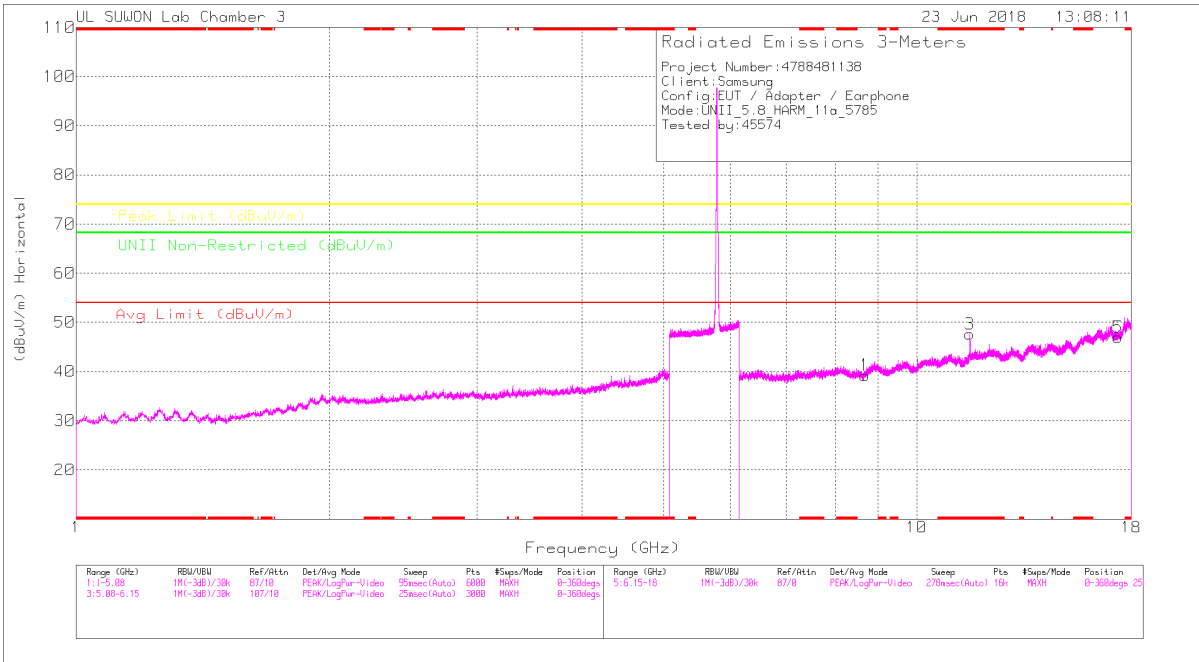
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

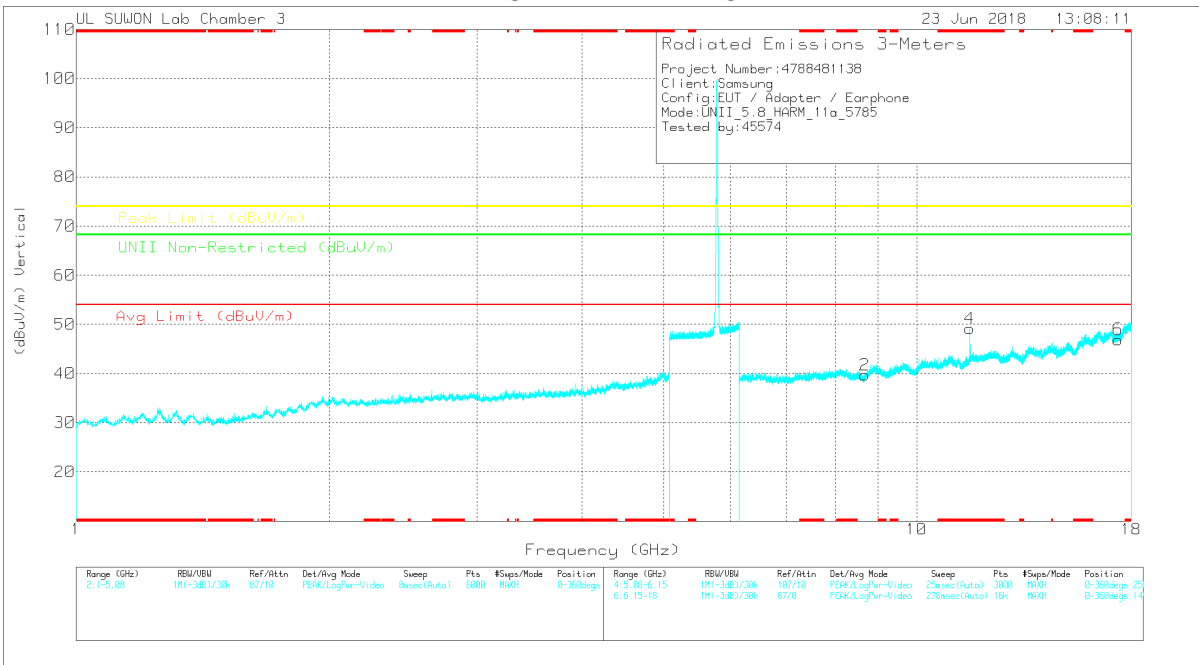
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020959)	SGHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*11.49	35.78	PK-U	38	-19.6	0	54.18	-	-	74	-19.82	-	-	86	136	H
*11.49	27.12	ADR	38	-19.6	0	45.52	54	-8.48	-	-	-	-	86	136	H
*11.494	39.13	PK-U	38	-19.6	0	57.53	-	-	74	-16.47	-	-	170	247	V
*11.49	27.35	ADR	38	-19.6	0	45.75	54	-8.25	-	-	-	-	170	247	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	3117(0020959)	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)	Azimuth (Degs)	Height (cm)	Polarity
1	8.678	24.62	PK	35.9	-21.3	0	39.22	-	-	-	-	68.2	-28.98	0-360	250	H
3	* 11.569	29.2	PK	38.1	-19.7	0	47.6	-	-	74	-26.4	-	-	0-360	150	H
5	17.356	21.47	PK	40.8	-15.3	0	46.97	-	-	-	-	68.2	-21.23	0-360	250	H
2	8.678	25.11	PK	35.9	-21.3	0	39.71	-	-	-	-	68.2	-28.49	0-360	250	V
4	* 11.569	30.75	PK	38.1	-19.7	0	49.15	-	-	74	-24.85	-	-	0-360	250	V
6	17.356	21.41	PK	40.8	-15.3	0	46.91	-	-	-	-	68.2	-21.29	0-360	250	V

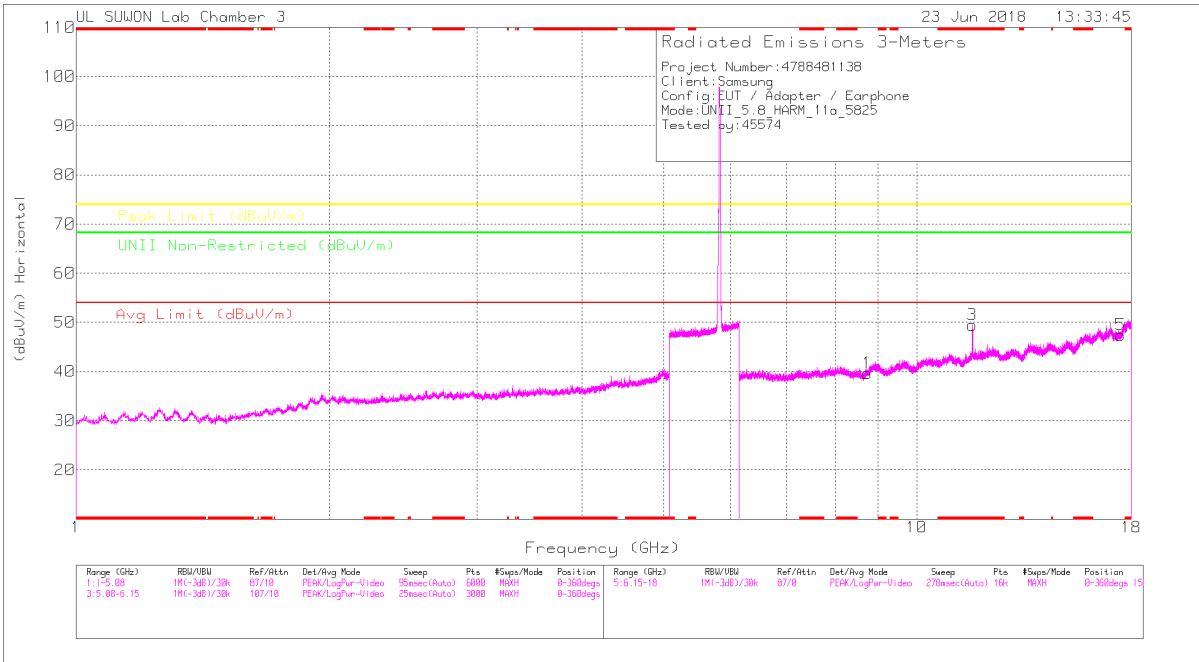
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

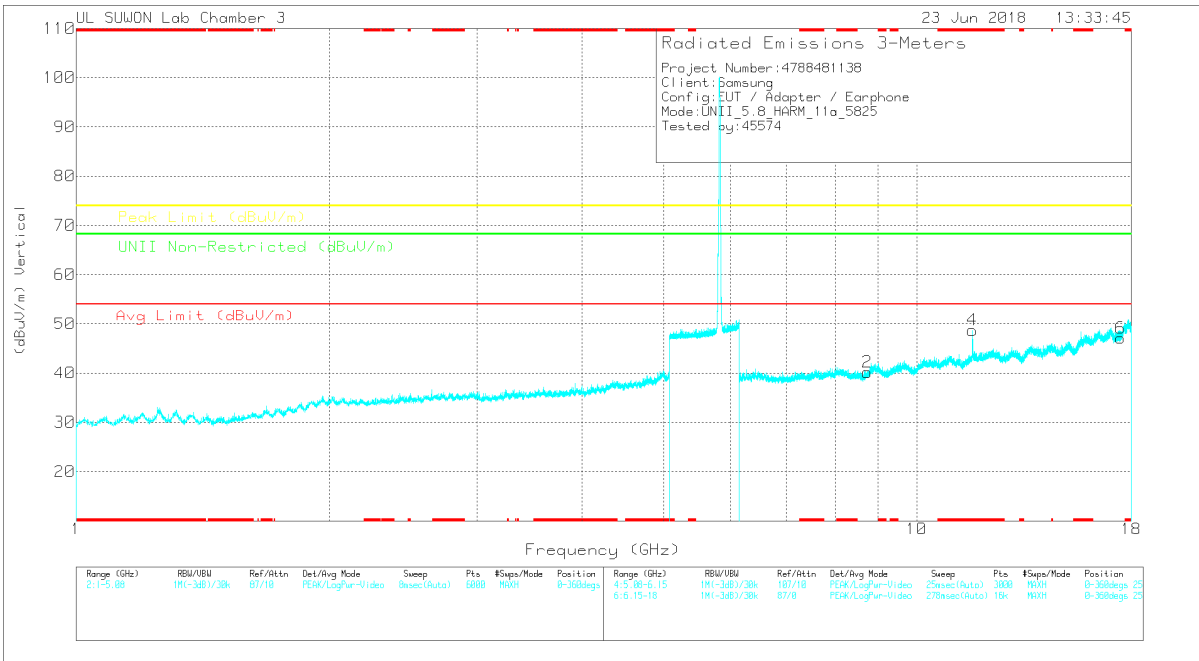
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020959)	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.576	37.39	PK-U	38.1	-19.8	0	55.69	-	-	74	-18.31	-	-	86	134	H
* 11.569	27.9	ADR	38.1	-19.7	0	46.3	54	-7.7	-	-	-	-	86	134	H
* 11.571	37.95	PK-U	38.1	-19.7	0	56.35	-	-	74	-17.65	-	-	170	247	V
* 11.57	27.61	ADR	38.1	-19.8	0	45.91	54	-8.09	-	-	-	-	170	247	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	3117(0020959)	GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.738	24.86	PK	35.9	-21.1	0	39.66	-	-	-	-	68.2	-28.54	0-360	150	H
3	*11.651	30.89	PK	38.2	-19.6	0	49.49	-	-	74	-24.51	-	-	0-360	251	H
5	17.474	21.34	PK	41	-14.9	0	47.44	-	-	-	-	68.2	-20.76	0-360	251	H
2	8.738	25.37	PK	35.9	-21.1	0	40.17	-	-	-	-	68.2	-28.03	0-360	251	V
4	*11.652	30.12	PK	38.2	-19.6	0	48.72	-	-	74	-25.28	-	-	0-360	251	V
6	17.476	21.02	PK	41	-14.9	0	47.12	-	-	-	-	68.2	-21.08	0-360	251	V

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

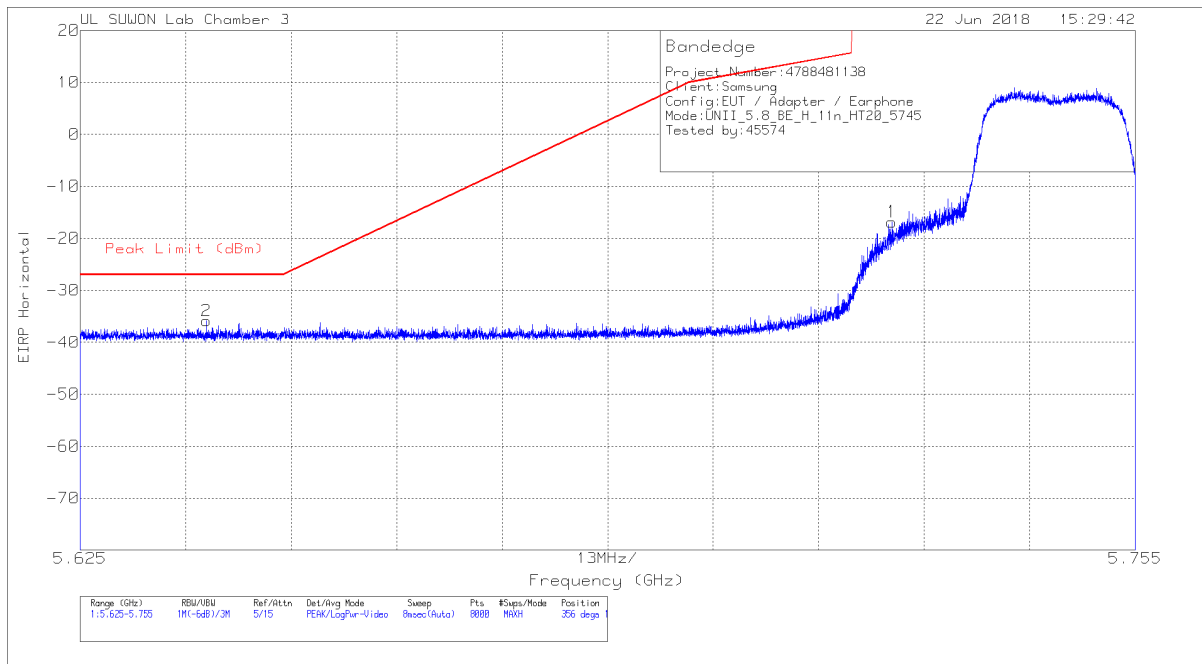
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020959)	GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*11.651	38.76	PK-U	38.2	-19.6	0	57.36	-	-	74	-16.64	-	-	86	136	H
*11.65	28.39	ADR	38.2	-19.7	0	46.89	54	-7.11	-	-	-	-	86	136	H
*11.654	37.24	PK-U	38.2	-19.6	0	55.84	-	-	74	-18.16	-	-	170	247	V
*11.65	28.11	ADR	38.2	-19.7	0	46.61	54	-7.39	-	-	-	-	170	247	V

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

11.4.2.TX ABOVE 1GHz 802.11n HT20 MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



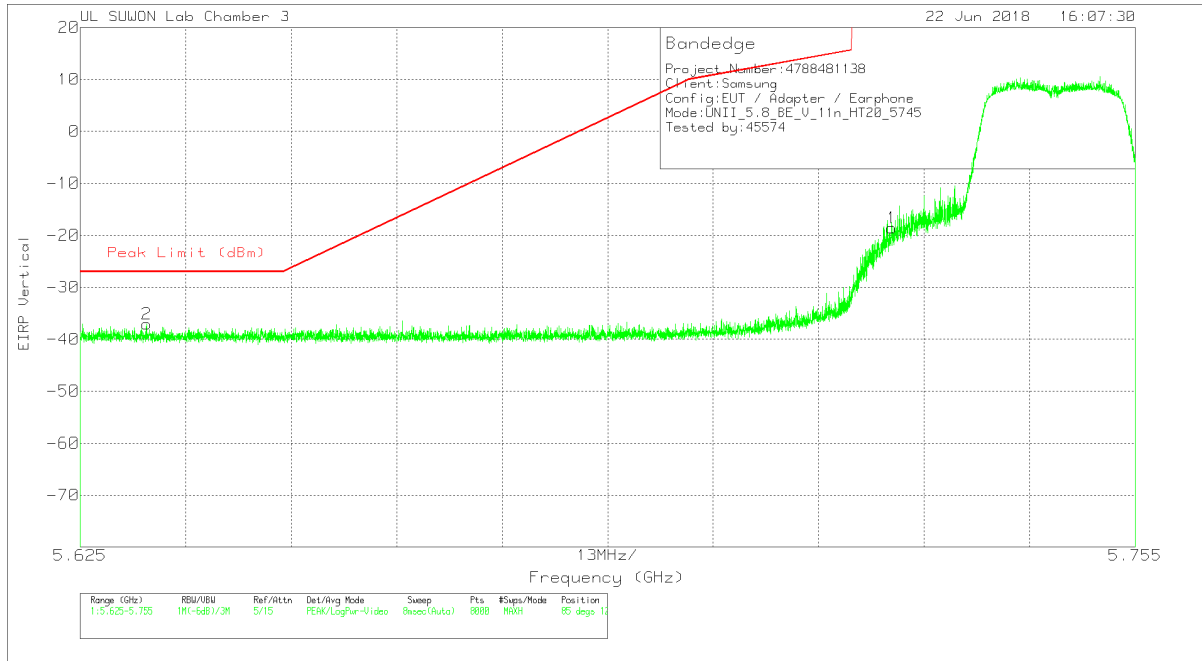
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-45.46	Pk	34.7	-17.9	11.8	-16.86	278.95	-295.81	356	100	H
2	5.641	-64.09	Pk	34.5	-18.1	11.8	-35.89	-27	-8.89	356	100	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

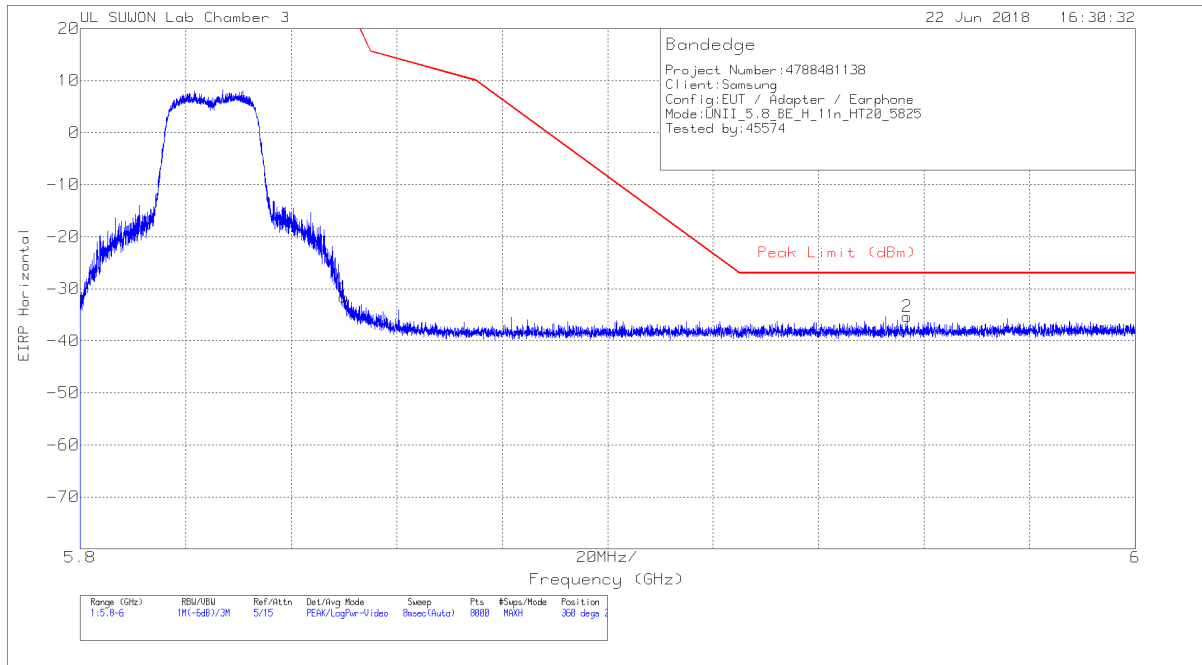
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-47.17	Pk	34.7	-17.9	11.8	-18.57	278.95	-297.52	85	128	V
2	5.633	-65.18	Pk	34.5	-18.2	11.8	-37.08	-27	-10.08	85	128	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



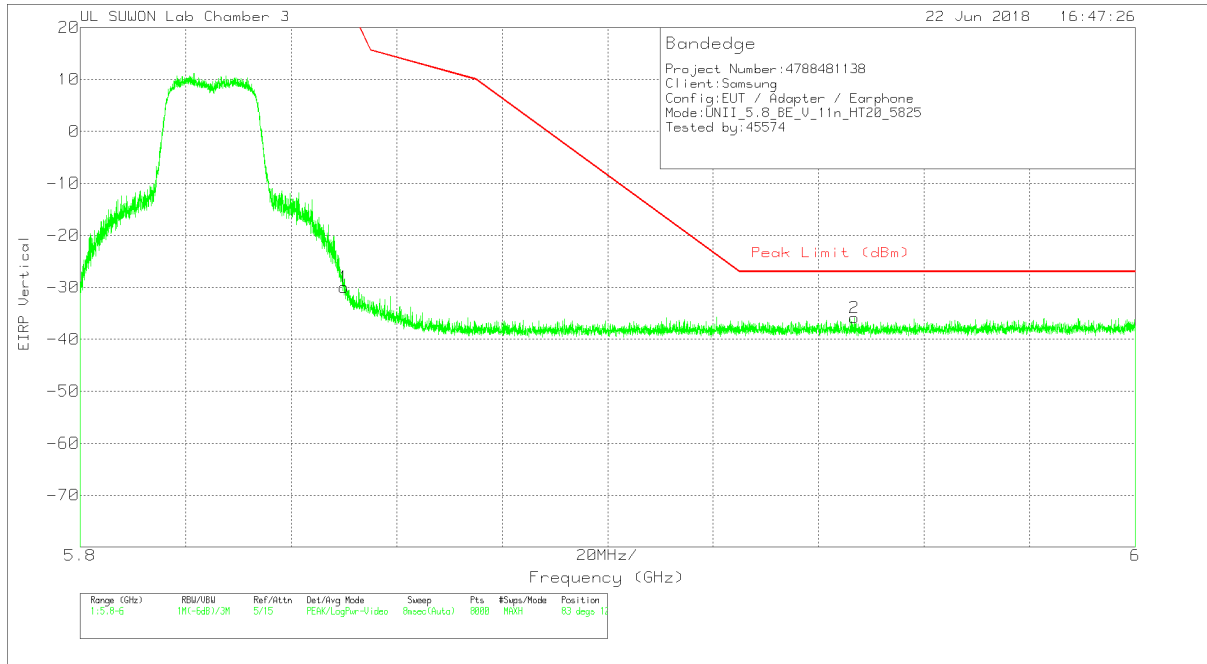
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.74	Pk	34.9	-17.6	11.8	-31.64	26.99	-58.63	360	288	H
2	5.957	-64.66	Pk	35	-17.5	11.8	-35.36	-27	-8.36	360	288	H

Pk - Peak detector

VERTICAL PEAK PLOT



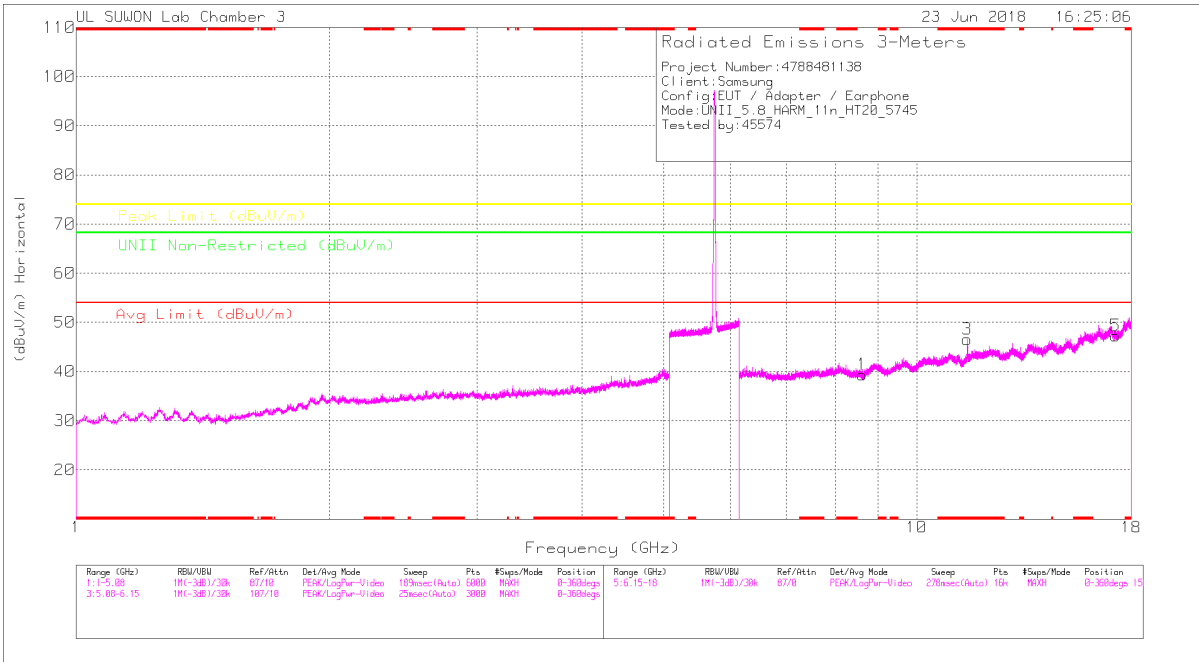
VERTICAL DATA

Trace Markers

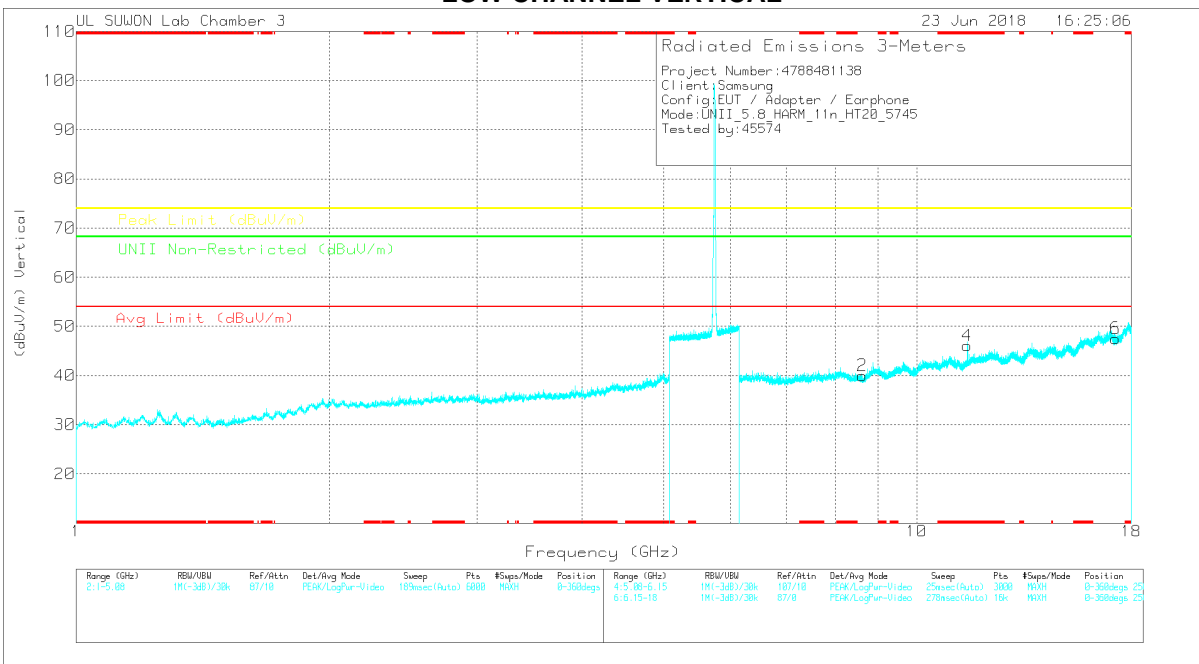
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.09	Pk	34.9	-17.6	11.8	-29.99	26.99	-56.98	83	121	V
2	5.947	-65.05	Pk	35	-17.6	11.8	-35.85	-27	-8.85	83	121	V

Pk - Peak detector

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	3117(0020959)	SGHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.617	25.05	PK	35.8	-21.5	0	39.35	-	-	-	-	68.2	-28.85	0-360	150	H
3	*11.491	28.15	PK	38	-19.6	0	46.55	-	-	74	-27.45	-	-	0-360	250	H
5	17.236	21.88	PK	40.7	-15.3	0	47.28	-	-	-	-	68.2	-20.92	0-360	150	H
2	8.618	25.69	PK	35.8	-21.5	0	39.99	-	-	-	-	68.2	-28.21	0-360	250	V
4	*11.488	27.66	PK	38	-19.6	0	46.06	-	-	74	-27.94	-	-	0-360	250	V
6	17.236	22.13	PK	40.7	-15.3	0	47.53	-	-	-	-	68.2	-20.67	0-360	150	V

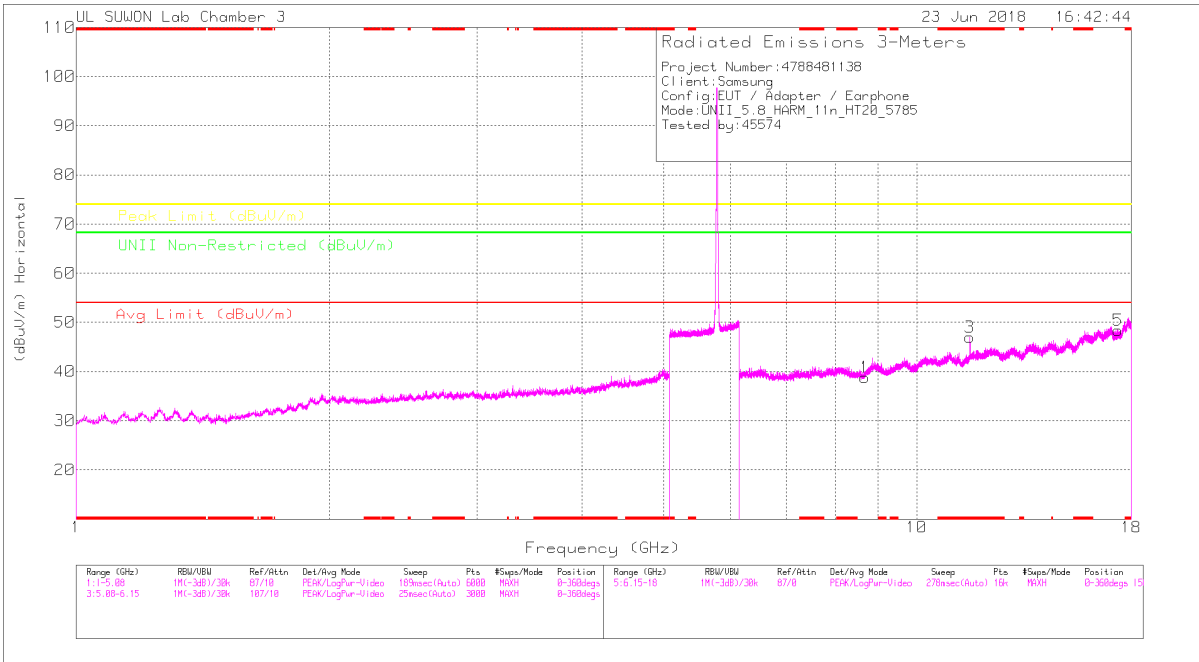
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

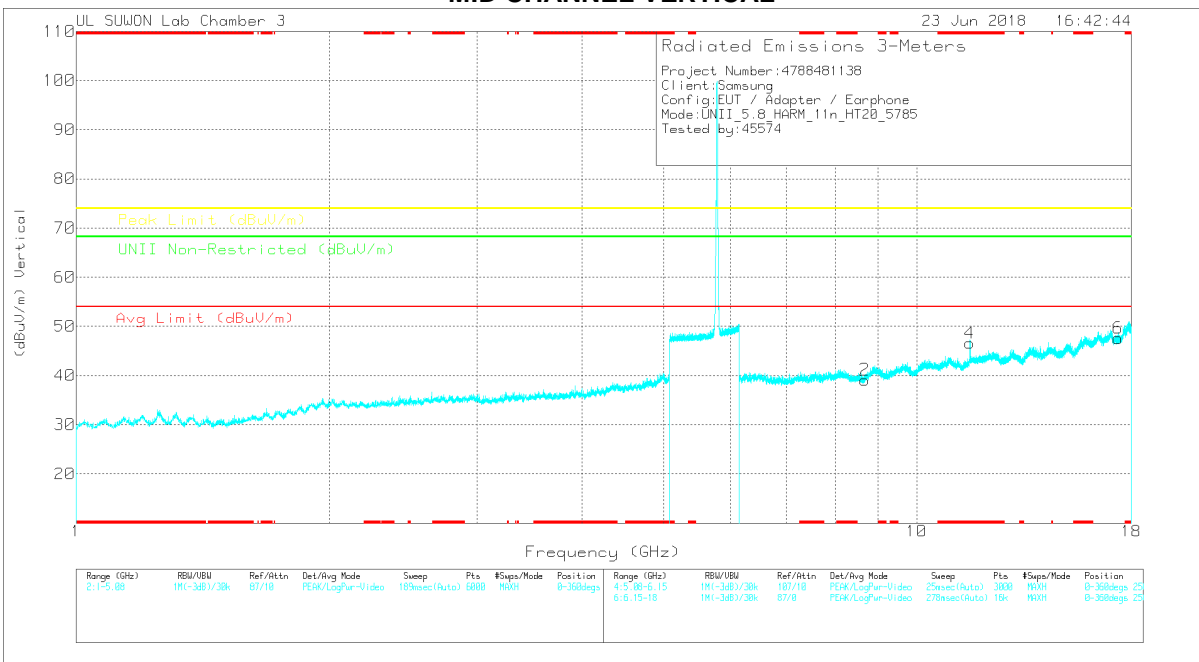
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020959)	SGHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*11.492	35.35	PK-U	38	-19.6	0	53.75	-	-	74	-20.25	-	-	86	134	H
*11.493	25.63	ADR	38	-19.6	0	44.03	54	-9.97	-	-	-	-	86	134	H
*11.497	33.88	PK-U	38	-19.5	0	52.38	-	-	74	-21.62	-	-	170	248	V
*11.491	24.86	ADR	38	-19.6	0	43.26	54	-10.74	-	-	-	-	170	248	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	3117(0205959)	6GHz_HPI(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Ag Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	ULII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.678	24.21	PK	35.9	-21.3	0	38.81	-	-	-	-	68.2	-29.39	0-360	150	H
3	* 11.57	28.7	PK	38.1	-19.8	0	47	-	-	74	-27	-	-	0-360	250	H
5	17.356	22.86	PK	40.8	-15.3	0	48.36	-	-	-	-	68.2	-19.84	0-360	250	H
2	8.678	24.5	PK	35.9	-21.3	0	39.1	-	-	-	-	68.2	-29.1	0-360	149	V
4	* 11.57	28.3	PK	38.1	-19.8	0	46.6	-	-	74	-27.4	-	-	0-360	250	V
6	17.356	22.08	PK	40.8	-15.3	0	47.58	-	-	-	-	68.2	-20.62	0-360	250	V

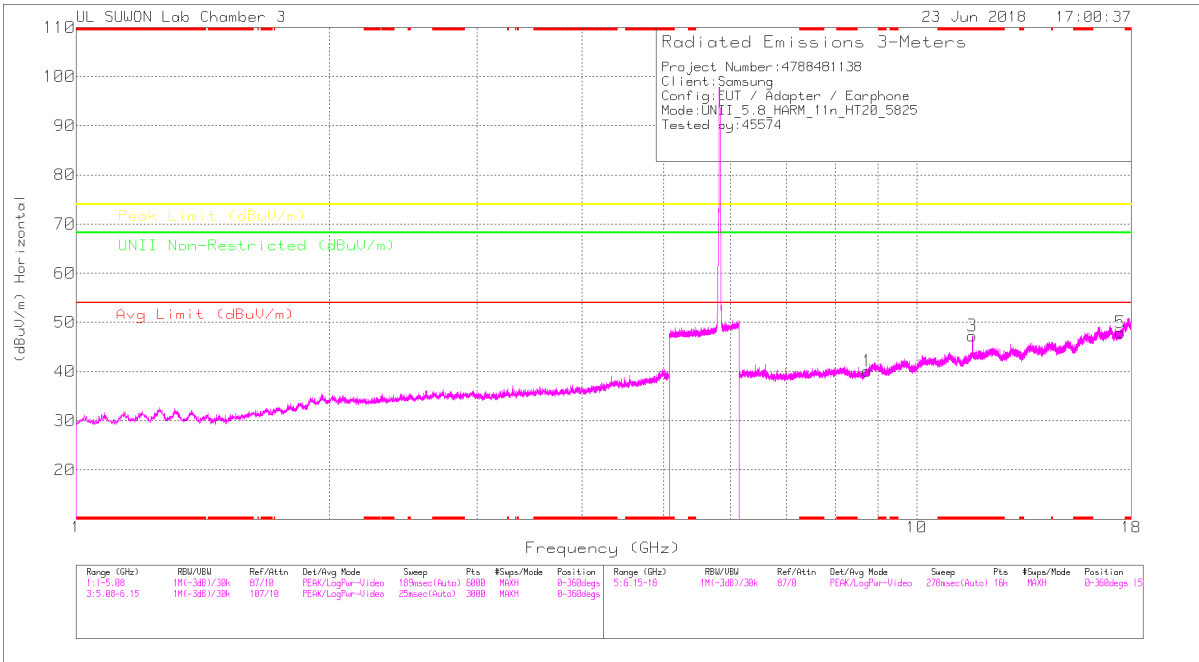
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

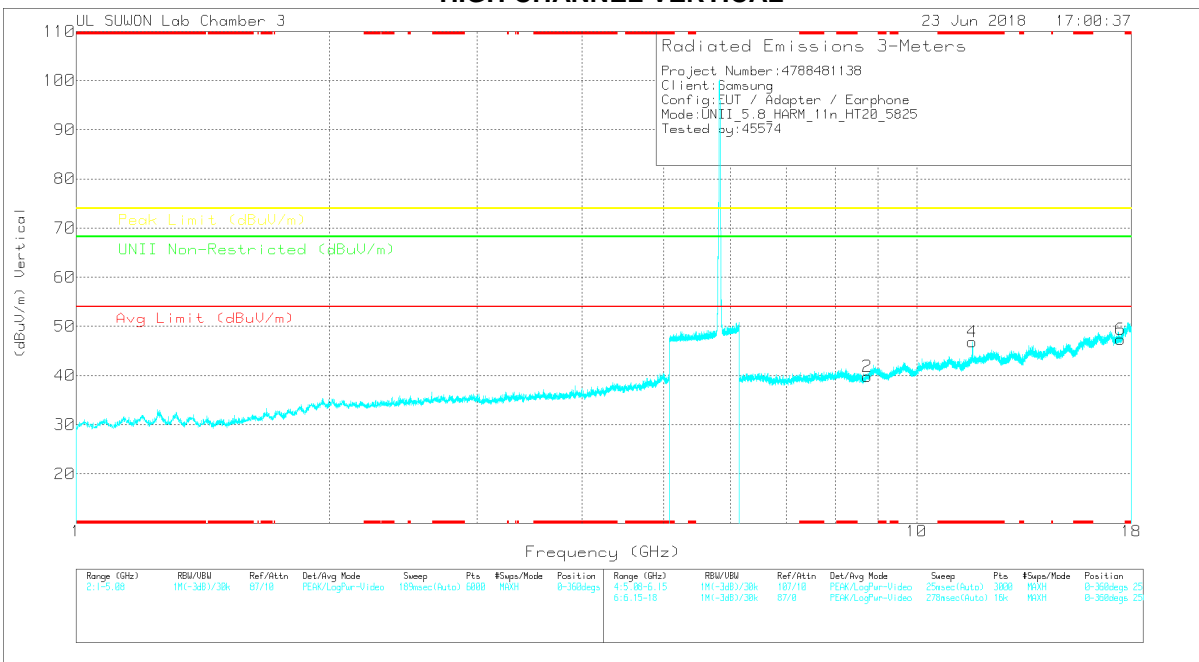
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0205959)	6GHz_HPI(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Ag Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	ULII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.574	36.81	PK-U	38.1	-19.8	0	55.11	-	-	74	-18.89	-	-	86	134	H
* 11.57	27.37	ADR	38.1	-19.8	0	45.67	54	-8.33	-	-	-	-	86	134	H
* 11.572	35.57	PK-U	38.1	-19.8	0	53.87	-	-	74	-20.13	-	-	170	247	V
* 11.571	27.52	ADR	38.1	-19.7	0	45.92	54	-8.08	-	-	-	-	170	247	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	3117(0020959)	SGHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.737	25.31	PK	35.9	-21.1	0	40.11	-	-	-	-	68.2	-28.09	0-360	150	H
3	*11.648	28.77	PK	38.2	-19.7	0	47.27	-	-	74	-26.73	-	-	0-360	150	H
5	17.475	21.81	PK	41	-14.9	0	47.91	-	-	-	-	68.2	-20.29	0-360	150	H
2	8.737	25.04	PK	35.9	-21.1	0	39.84	-	-	-	-	68.2	-28.36	0-360	250	V
4	*11.65	28.37	PK	38.2	-19.7	0	46.87	-	-	74	-27.13	-	-	0-360	250	V
6	17.476	21.28	PK	41	-14.9	0	47.38	-	-	-	-	68.2	-20.82	0-360	250	V

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

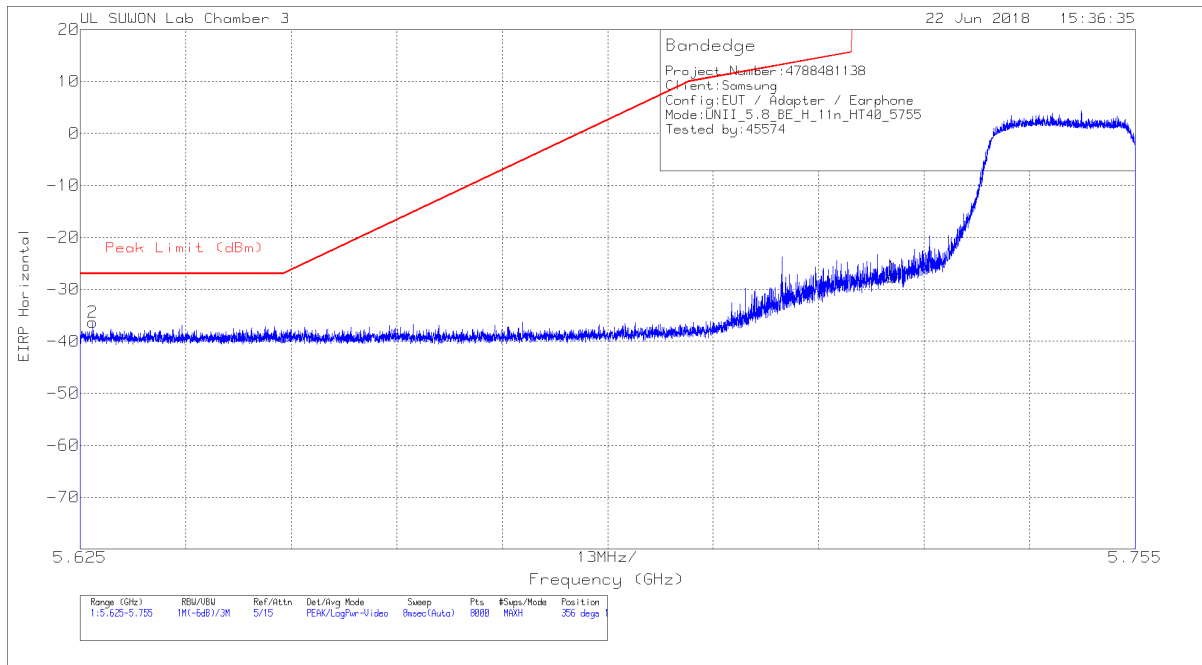
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0020959)	SGHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*11.658	36.25	PK-U	38.3	-19.7	0	54.85	-	-	74	-19.15	-	-	87	135	H
*11.651	27.65	ADR	38.2	-19.7	0	46.15	54	-7.85	-	-	-	-	87	135	H
*11.652	36.06	PK-U	38.2	-19.6	0	54.66	-	-	74	-19.34	-	-	170	247	V
*11.649	27.49	ADR	38.2	-19.7	0	45.99	54	-8.01	-	-	-	-	170	247	V

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

11.4.3.TX ABOVE 1GHz 802.11n HT40 MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK PLOT



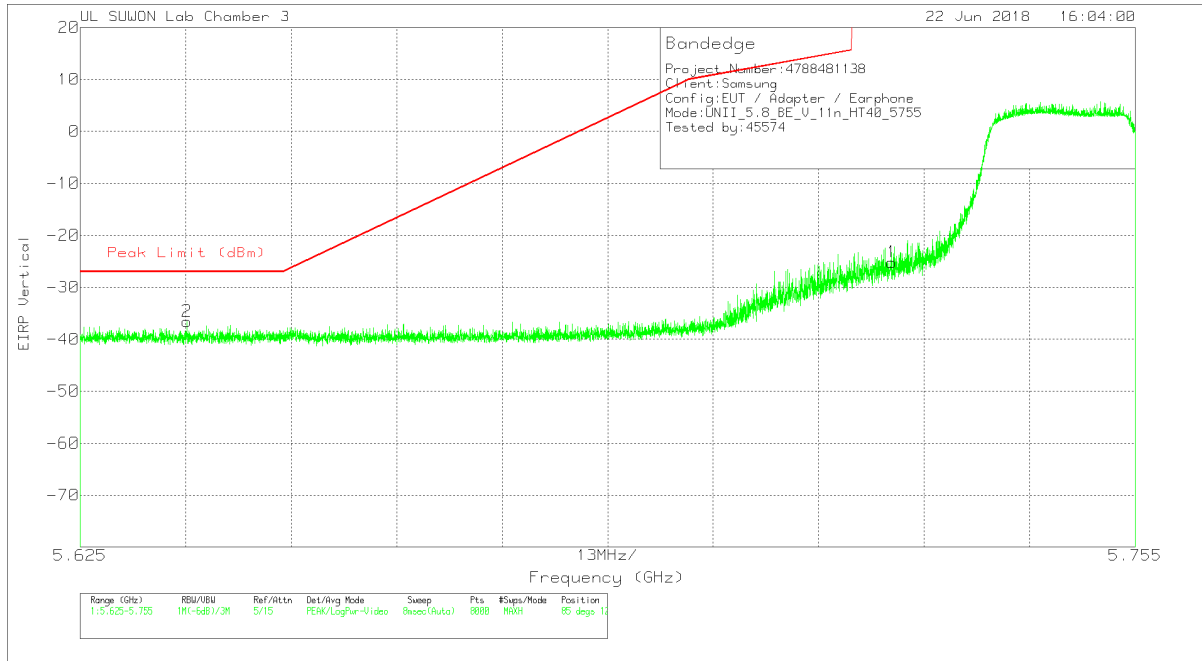
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-56.27	Pk	34.7	-17.9	11.8	-27.67	278.95	-306.62	356	100	H
2	5.627	-64.47	Pk	34.5	-18.2	11.8	-36.37	-27	-9.37	356	100	H

Pk - Peak detector

VERTICAL PEAK PLOT



VERTICAL DATA

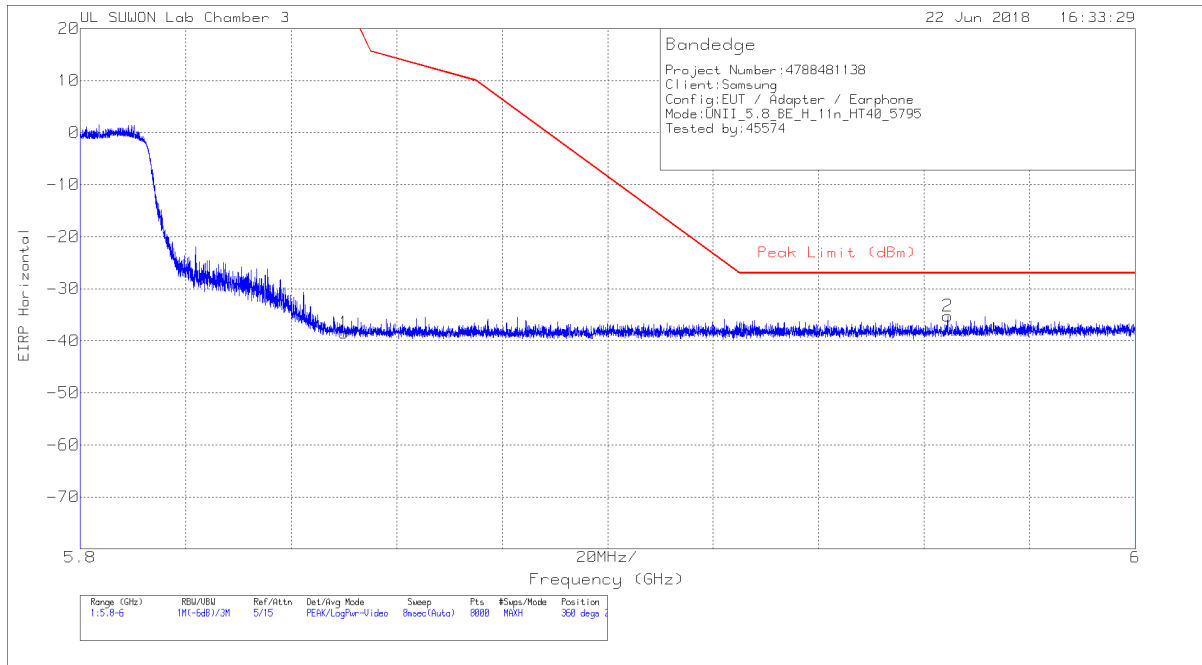
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-53.77	Pk	34.7	-17.9	11.8	-25.17	278.95	-304.12	85	128	V
2	5.638	-64.76	Pk	34.5	-18.1	11.8	-36.56	-27	-9.56	85	128	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK PLOT



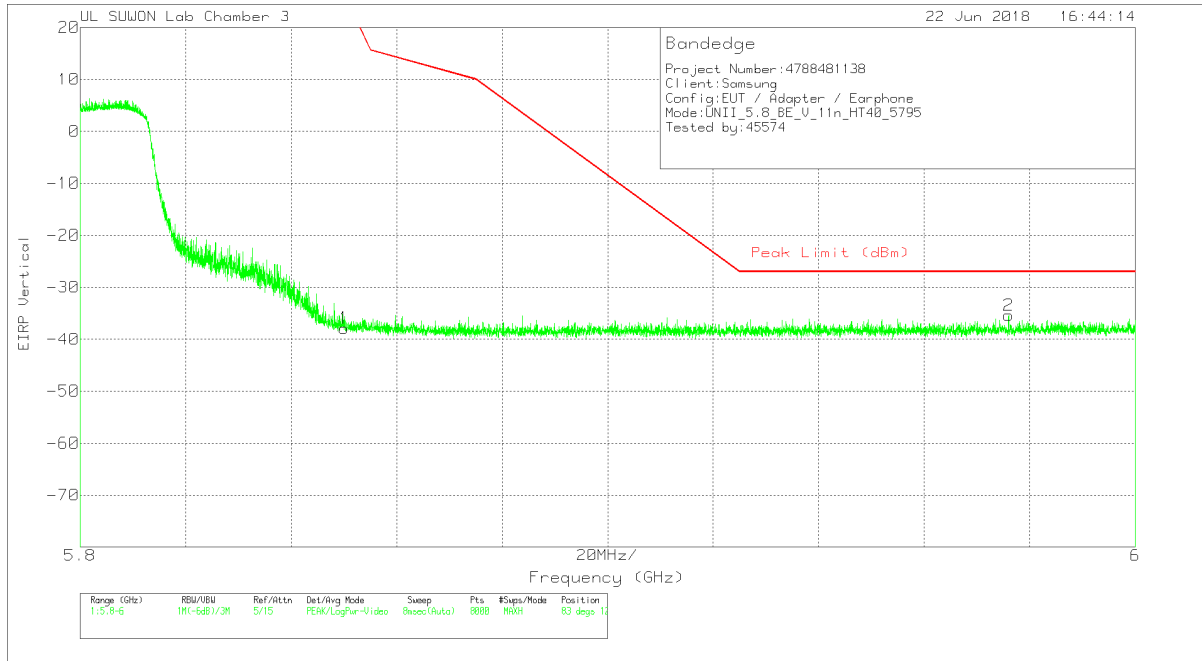
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.54	Pk	34.9	-17.6	11.8	-38.44	26.99	-65.43	360	288	H
2	5.964	-64.53	Pk	35	-17.5	11.8	-35.23	-27	-8.23	360	288	H

Pk - Peak detector

VERTICAL PEAK PLOT



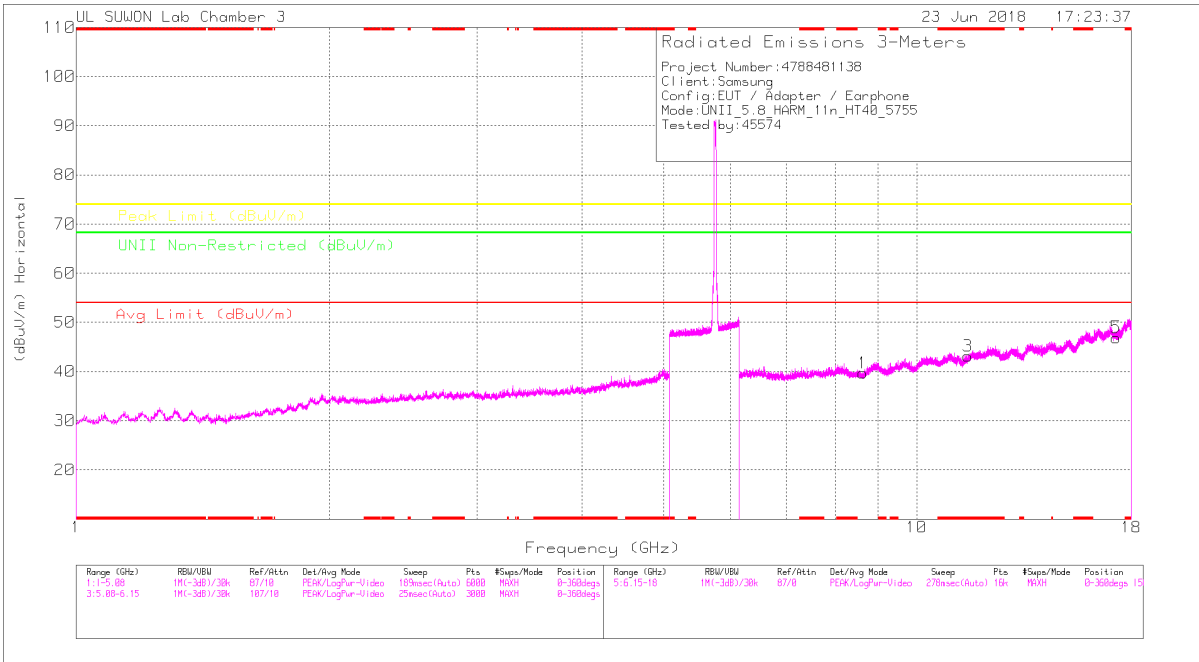
VERTICAL DATA

Trace Markers

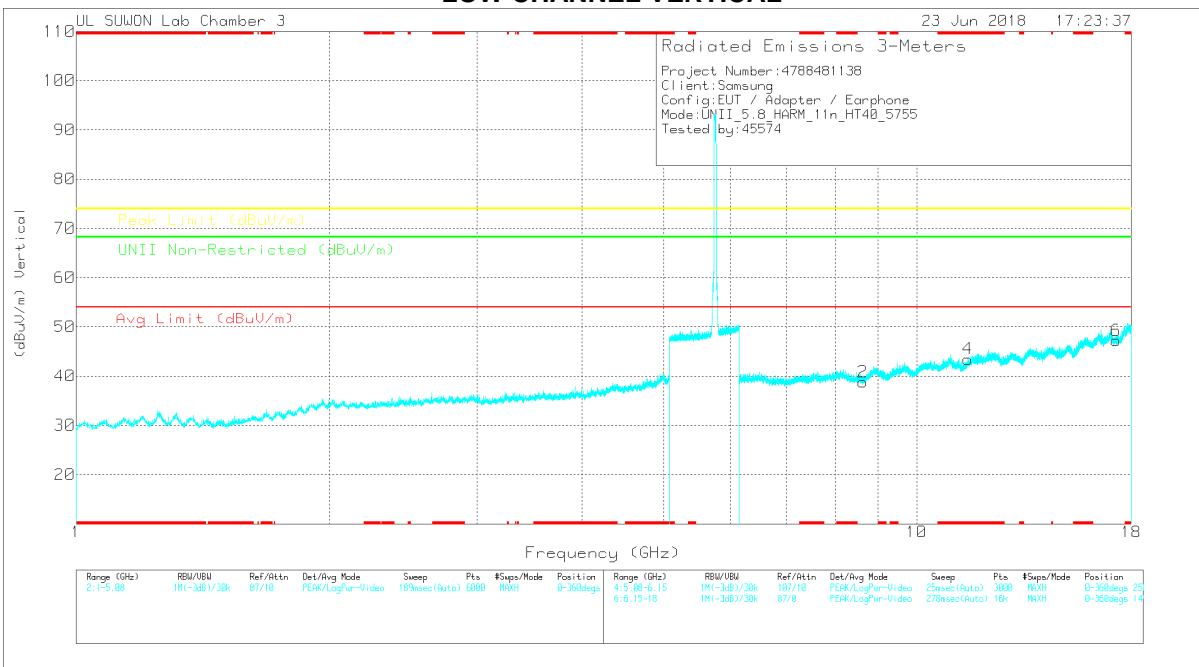
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117[00205959]	10dB_ATT[dB]	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.97	Pk	34.9	-17.6	11.8	-37.87	26.99	-64.86	83	121	V
2	5.976	-64.8	Pk	35.1	-17.5	11.8	-35.4	-27	-8.4	83	121	V

Pk - Peak detector

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

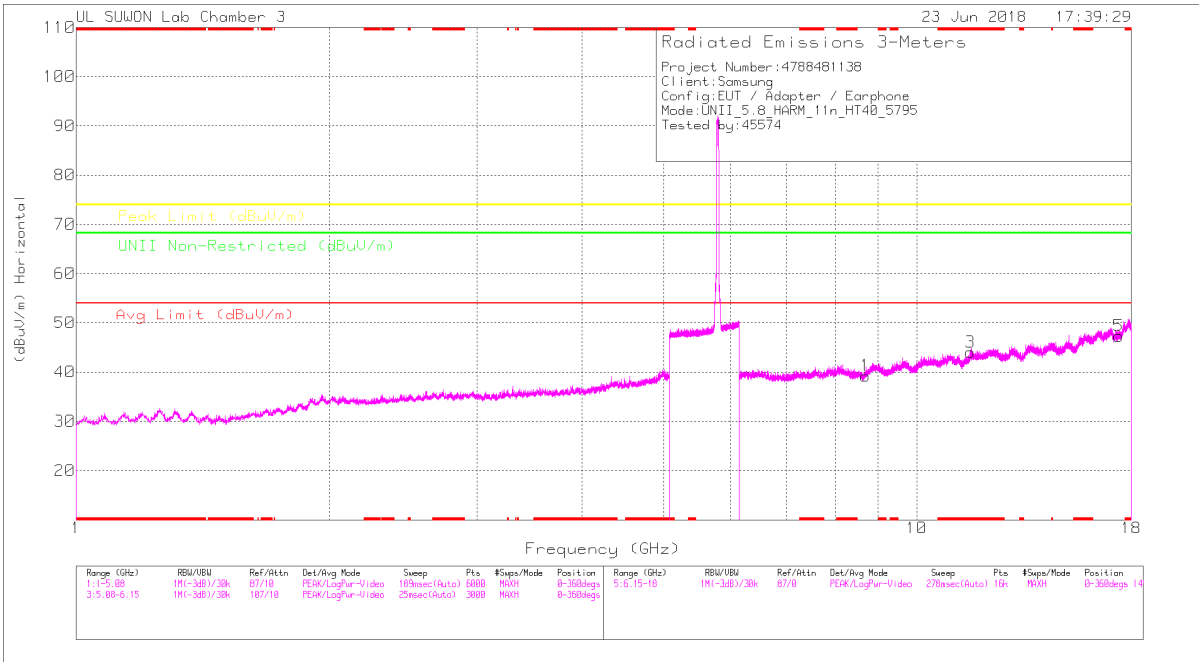
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0205959)	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.633	25.29	PK	35.9	-21.5	0	39.69	-	-	-	-	68.2	-28.51	0-360	150	H
3	*11.51	24.66	PK	38	-19.5	0	43.16	-	-	74	-30.84	-	-	0-360	251	H
5	17.265	21.3	PK	40.7	-15.1	0	46.9	-	-	-	-	68.2	-21.3	0-360	251	H
2	8.632	24.39	PK	35.9	-21.5	0	38.79	-	-	-	-	68.2	-29.41	0-360	251	V
4	*11.51	24.97	PK	38	-19.5	0	43.47	-	-	74	-30.53	-	-	0-360	149	V
6	17.265	21.62	PK	40.7	-15.1	0	47.22	-	-	-	-	68.2	-20.98	0-360	149	V

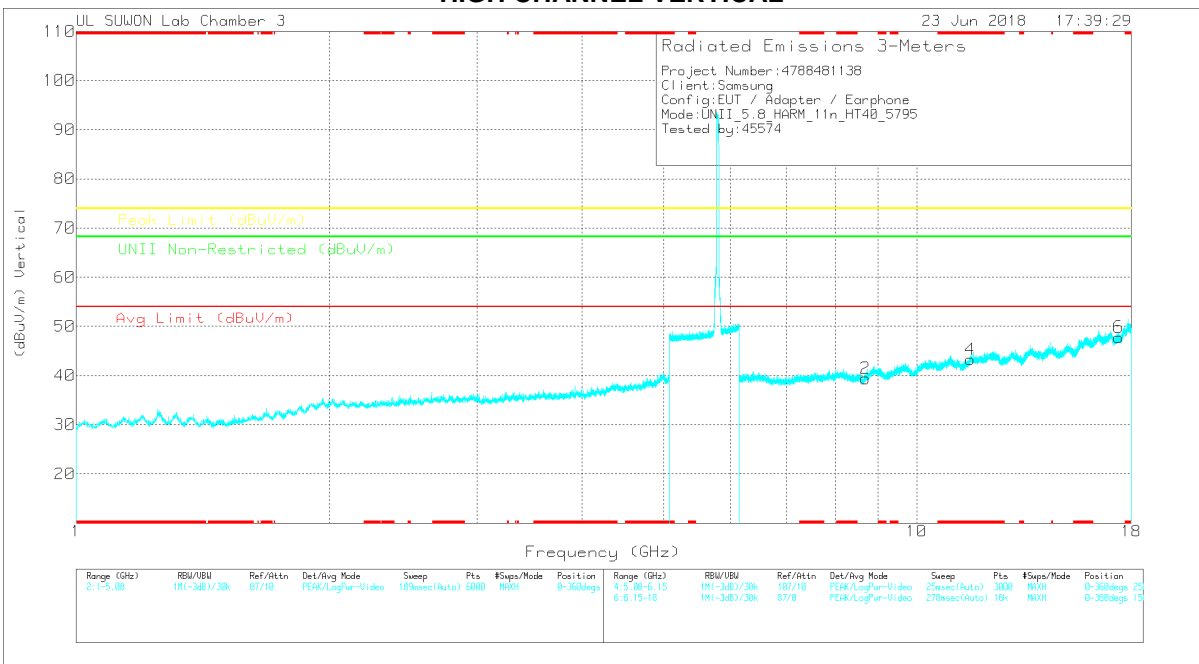
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

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.

HIGH CHANNEL DATA

Trace Markers

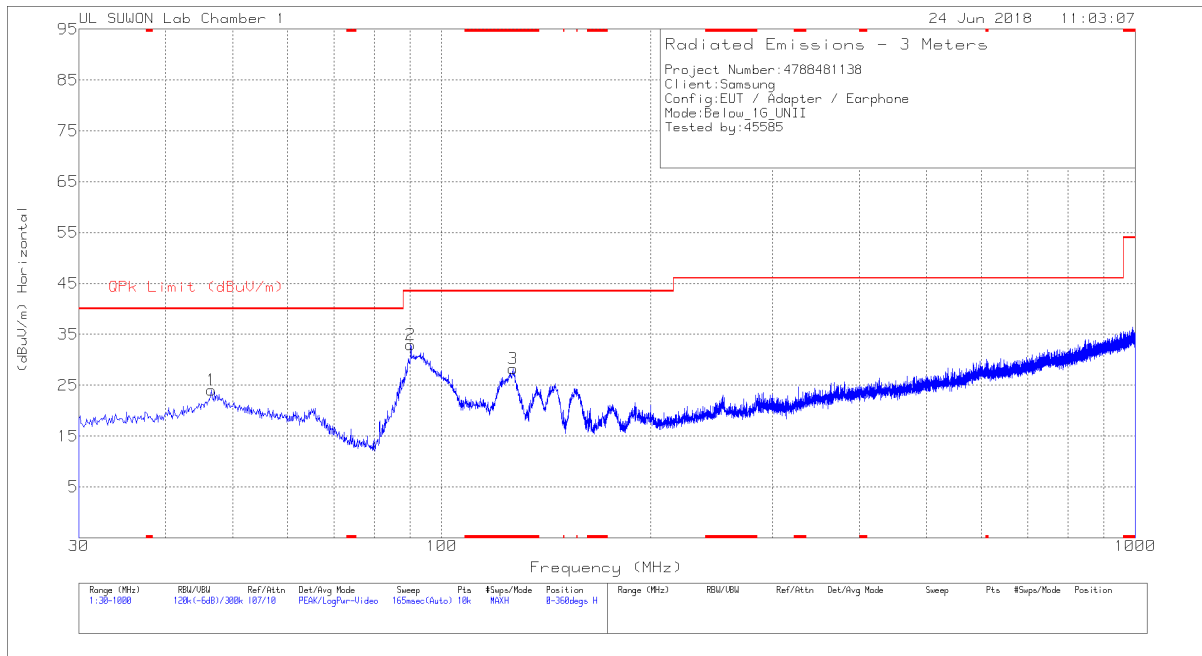
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0205959)	6GHz_HFj(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Limit Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	8.693	24.63	PK	35.9	-21.3	0	39.23	-	-	-	-	68.2	-28.97	0-360	250	H
3	*11.59	25.74	PK	38.1	-19.8	0	44.04	-	-	74	-29.96	-	-	0-360	250	H
5	17.385	21.72	PK	40.9	-15.3	0	47.32	-	-	-	-	68.2	-20.88	0-360	250	H
2	8.692	24.71	PK	35.9	-21.2	0	39.41	-	-	-	-	68.2	-28.79	0-360	150	V
4	*11.59	24.97	PK	38.1	-19.8	0	43.27	-	-	74	-30.73	-	-	0-360	250	V
6	17.385	22.19	PK	40.9	-15.3	0	47.79	-	-	-	-	68.2	-20.41	0-360	250	V

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

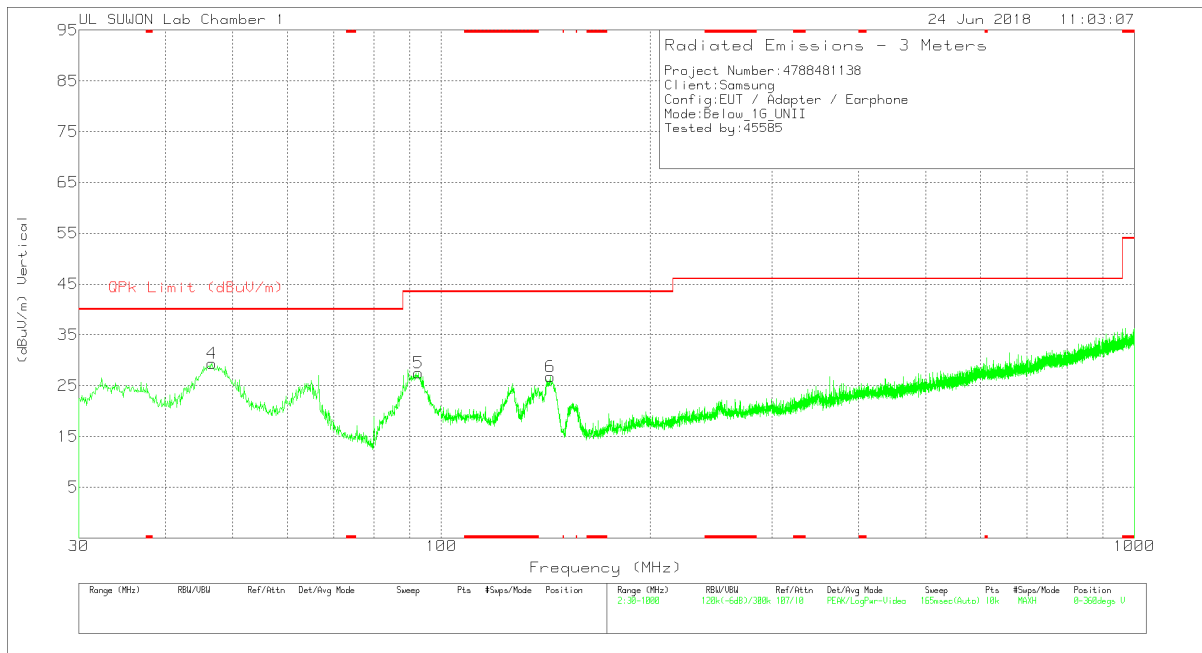
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

12. WORST-CASE BELOW 1 GHz

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



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



Below 1G Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	750_20170831	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.587	33.6	Pk	19.8	-29.4	24	40	-16	0-360	400	H
2	90.237	45.89	Pk	15.6	-28.5	32.99	43.52	-10.53	0-360	300	H
3	* 126.709	41.43	Pk	14.8	-28	28.23	43.52	-15.29	0-360	200	H
4	46.684	38.93	Pk	19.8	-29.4	29.33	40	-10.67	0-360	100	V
5	92.662	39.95	Pk	16.1	-28.5	27.55	43.52	-15.97	0-360	100	V
6	143.587	40.97	Pk	13.7	-27.9	26.77	43.52	-16.75	0-360	100	V

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

Pk - Peak detector

13. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

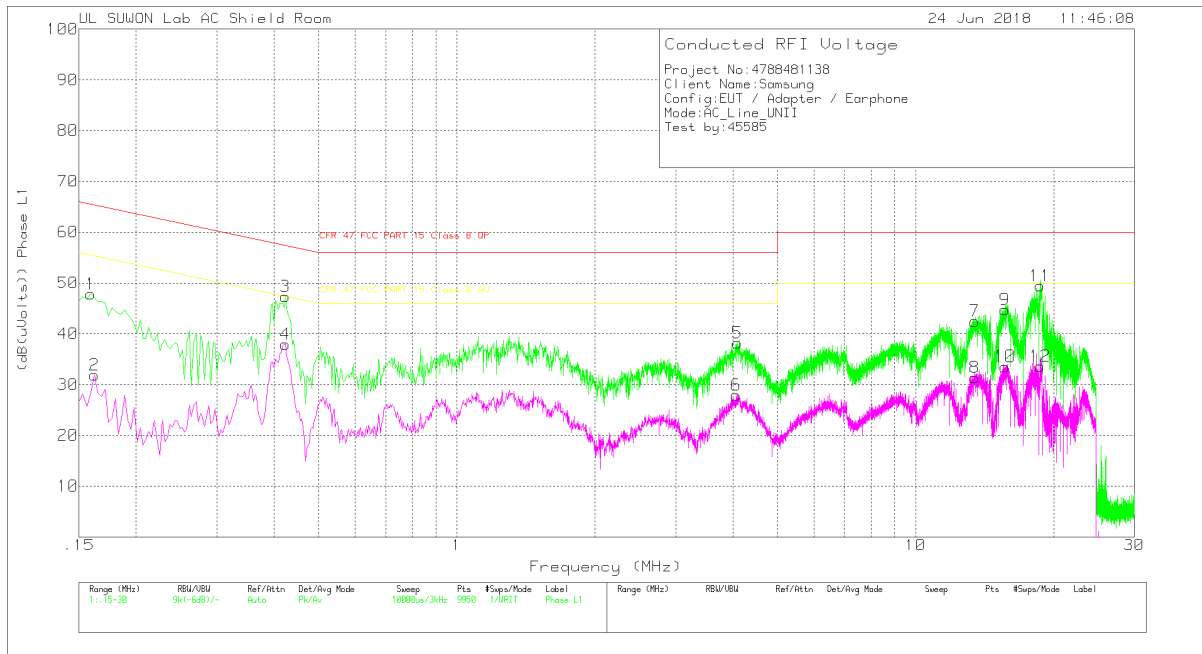
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

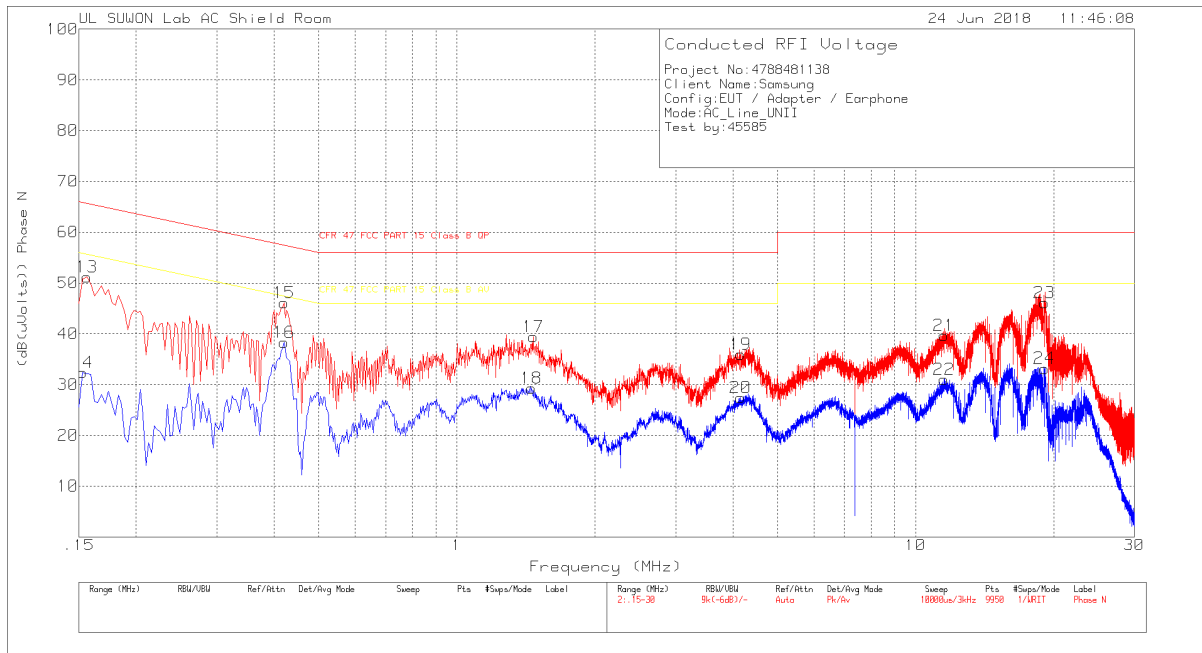
Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_wit h extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.159	37.69	Pk	10	.1	47.79	65.52	-17.73	-	-
2	.162	21.75	Av	10	.1	31.85	-	-	55.36	-23.51
3	.423	37.36	Pk	9.8	.2	47.36	57.39	-10.03	-	-
4	.423	27.95	Av	9.8	.2	37.95	-	-	47.39	-9.44
5	4.092	28.19	Pk	9.7	.3	38.19	56	-17.81	-	-
6	4.065	17.89	Av	9.7	.3	27.89	-	-	46	-18.11
7	13.482	32.26	Pk	9.8	.4	42.46	60	-17.54	-	-
8	13.47	21.24	Av	9.8	.4	31.44	-	-	50	-18.56
9	15.654	34.39	Pk	9.9	.4	44.69	60	-15.31	-	-
10	15.672	23.25	Av	9.9	.4	33.55	-	-	50	-16.45
11	18.693	39.05	Pk	10	.4	49.45	60	-10.55	-	-
12	18.687	23.25	Av	10	.4	33.65	-	-	50	-16.35

Pk - Peak detector
 Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N_with extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.156	41.08	Pk	10	.1	51.18	65.67	-14.49	-	-
14	.153	22.24	Av	10	.1	32.34	-	-	55.84	-23.5
15	.42	36.1	Pk	9.8	.2	46.1	57.45	-11.35	-	-
16	.42	28.33	Av	9.8	.2	38.33	-	-	47.45	-9.12
17	1.467	29.27	Pk	9.9	.3	39.47	56	-16.53	-	-
18	1.455	19.05	Av	9.9	.3	29.25	-	-	46	-16.75
19	4.155	25.92	Pk	9.8	.3	36.02	56	-19.98	-	-
20	4.155	17.32	Av	9.8	.3	27.42	-	-	46	-18.58
21	11.532	29.52	Pk	9.8	.3	39.62	60	-20.38	-	-
22	11.547	20.96	Av	9.8	.3	31.06	-	-	50	-18.94
23	19.113	35.72	Pk	10	.4	46.12	60	-13.88	-	-
24	19.092	22.78	Av	10	.4	33.18	-	-	50	-16.82

Pk - Peak detector

Av - Average detection

14. DYNAMIC FREQUENCY SELECTION

14.1. OVERVIEW

14.1.1. LIMITS

FCC

§15.407 (h), FCC KDB 905462 D02 “Compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection” and KDB 905462 D03 “U-NII client devices without radar detection capability”.

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

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

Table 4: DFS Response requirement values

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