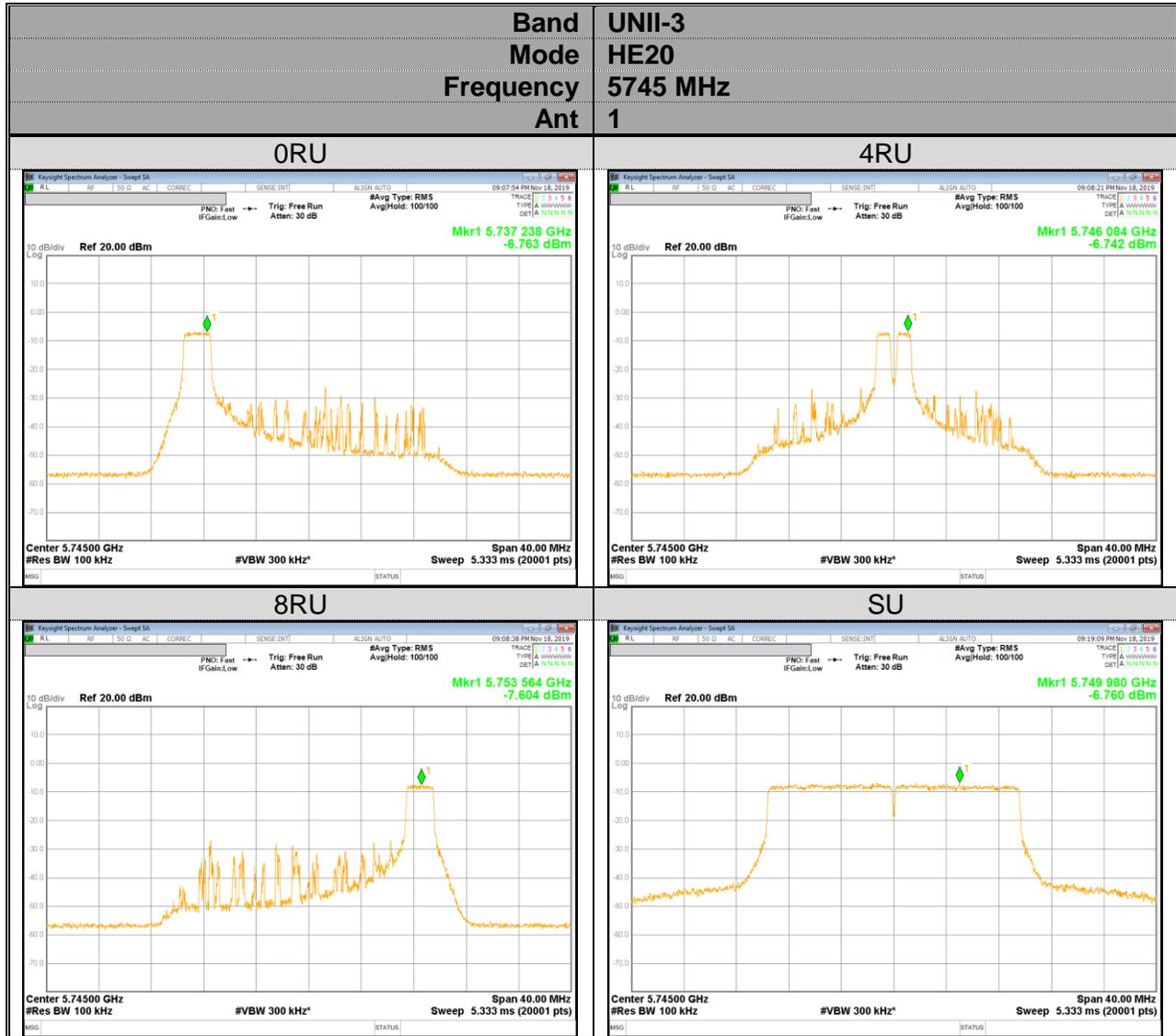
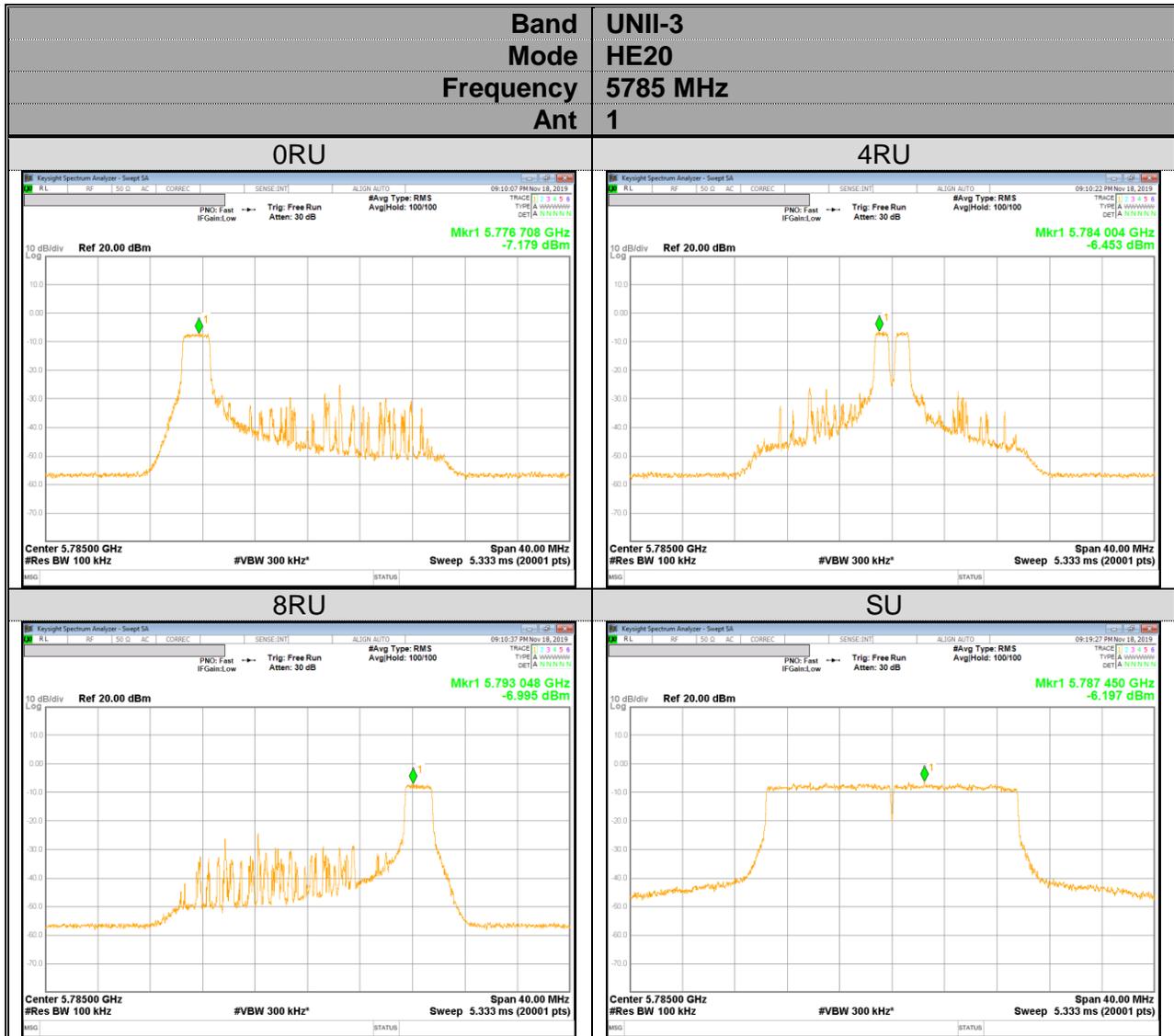
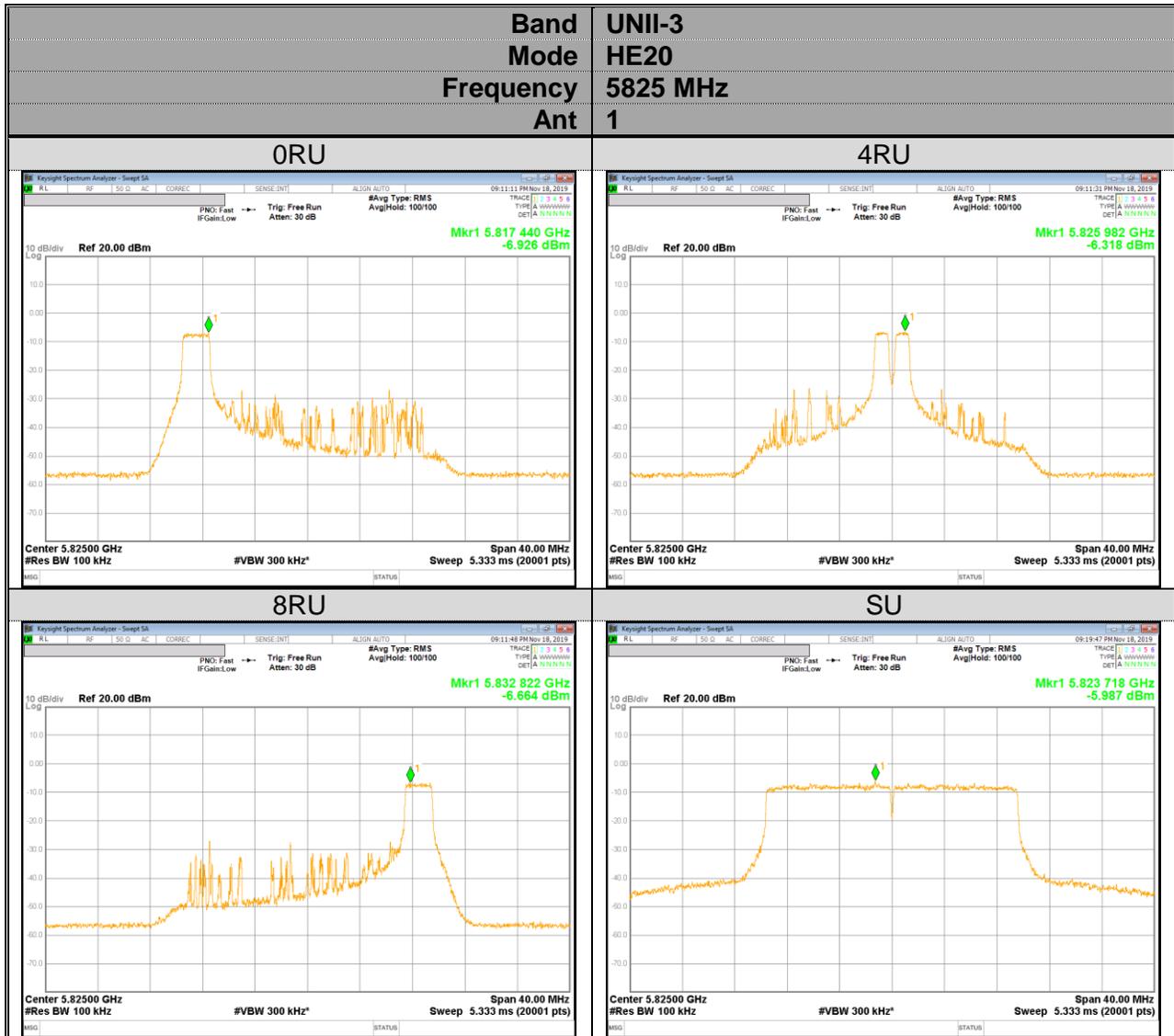
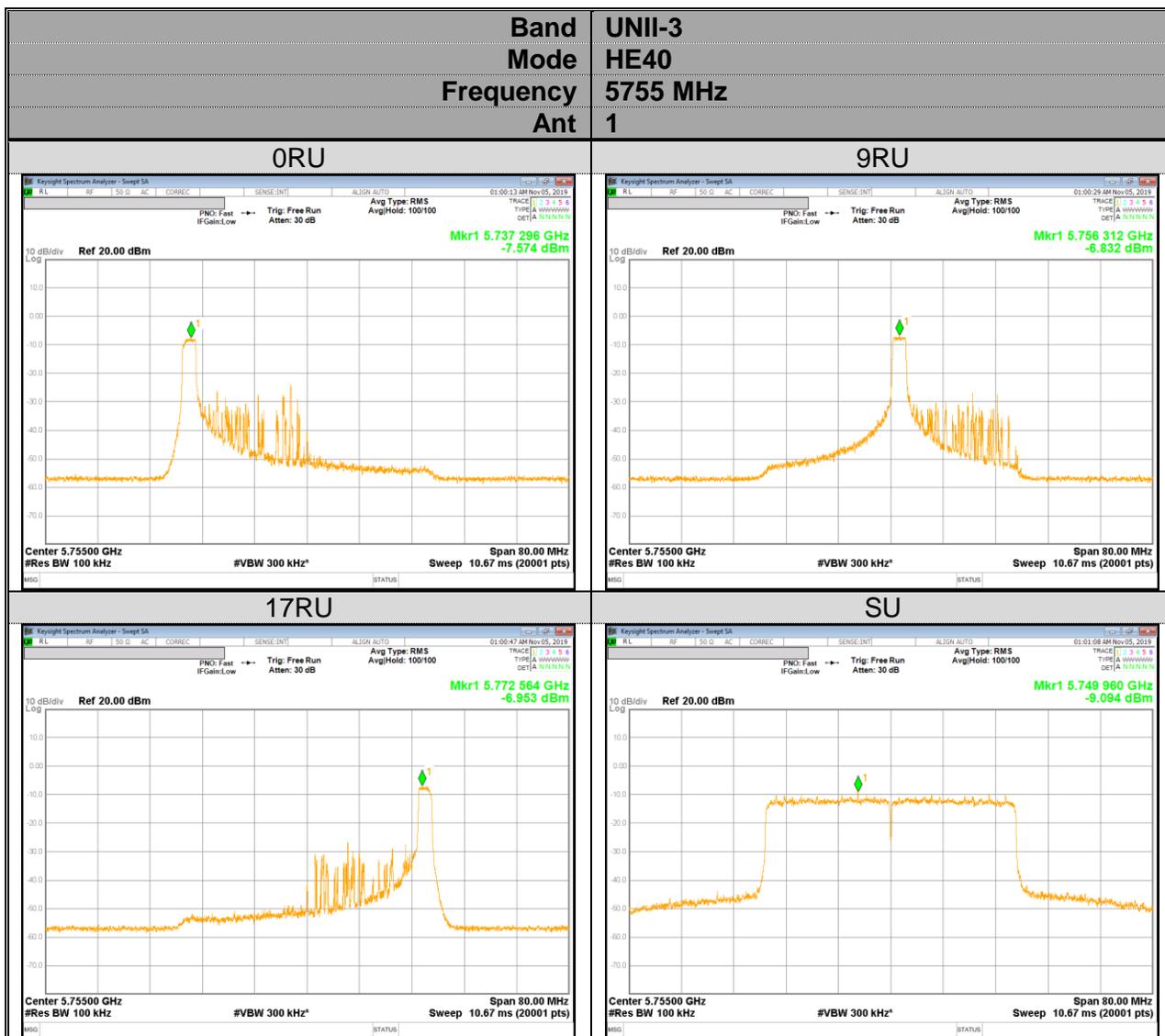


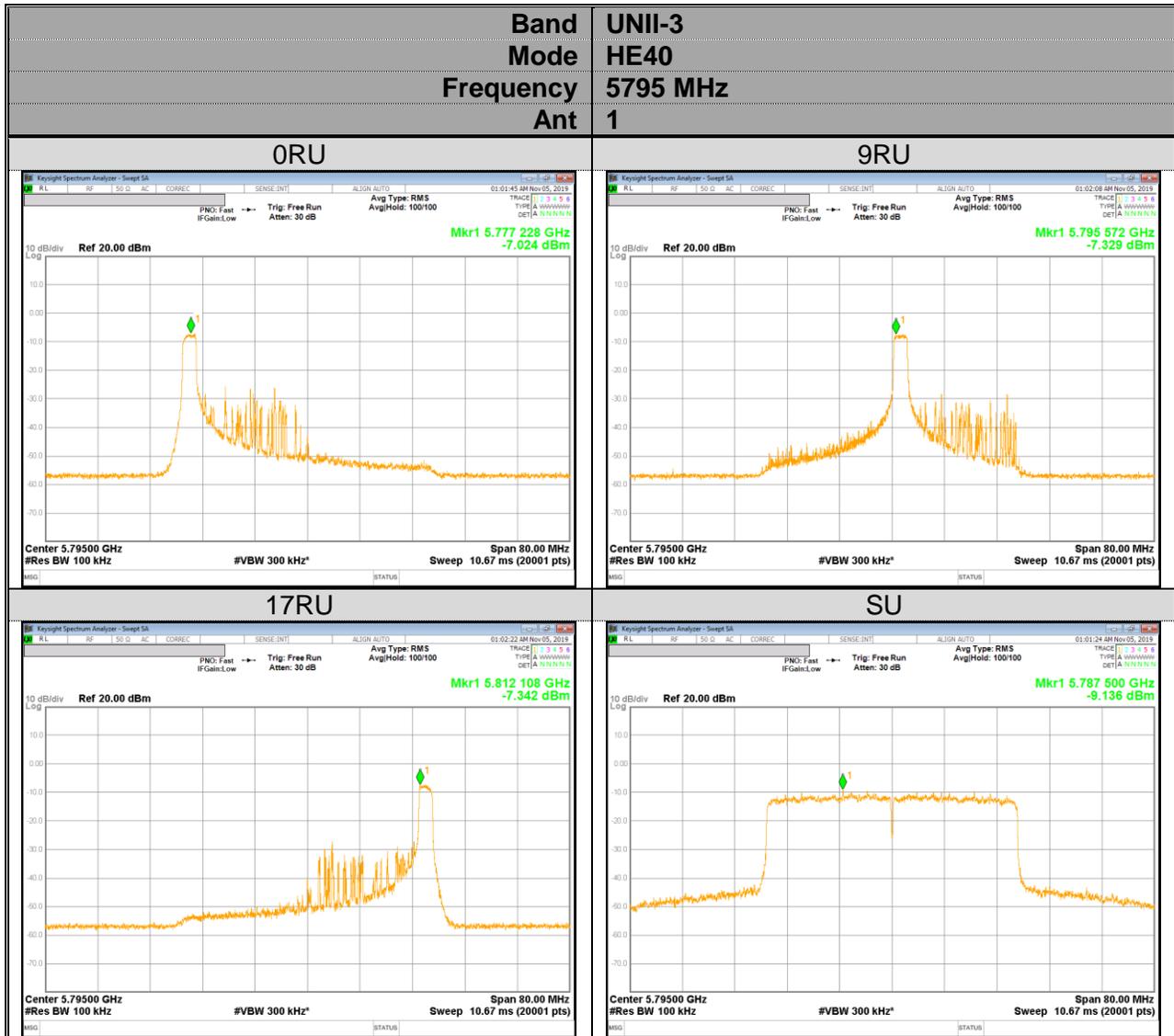
10.2.20. TEST PLOT\_802.11ax 2Tx (MIMO) MODE 5.8 GHz BAND

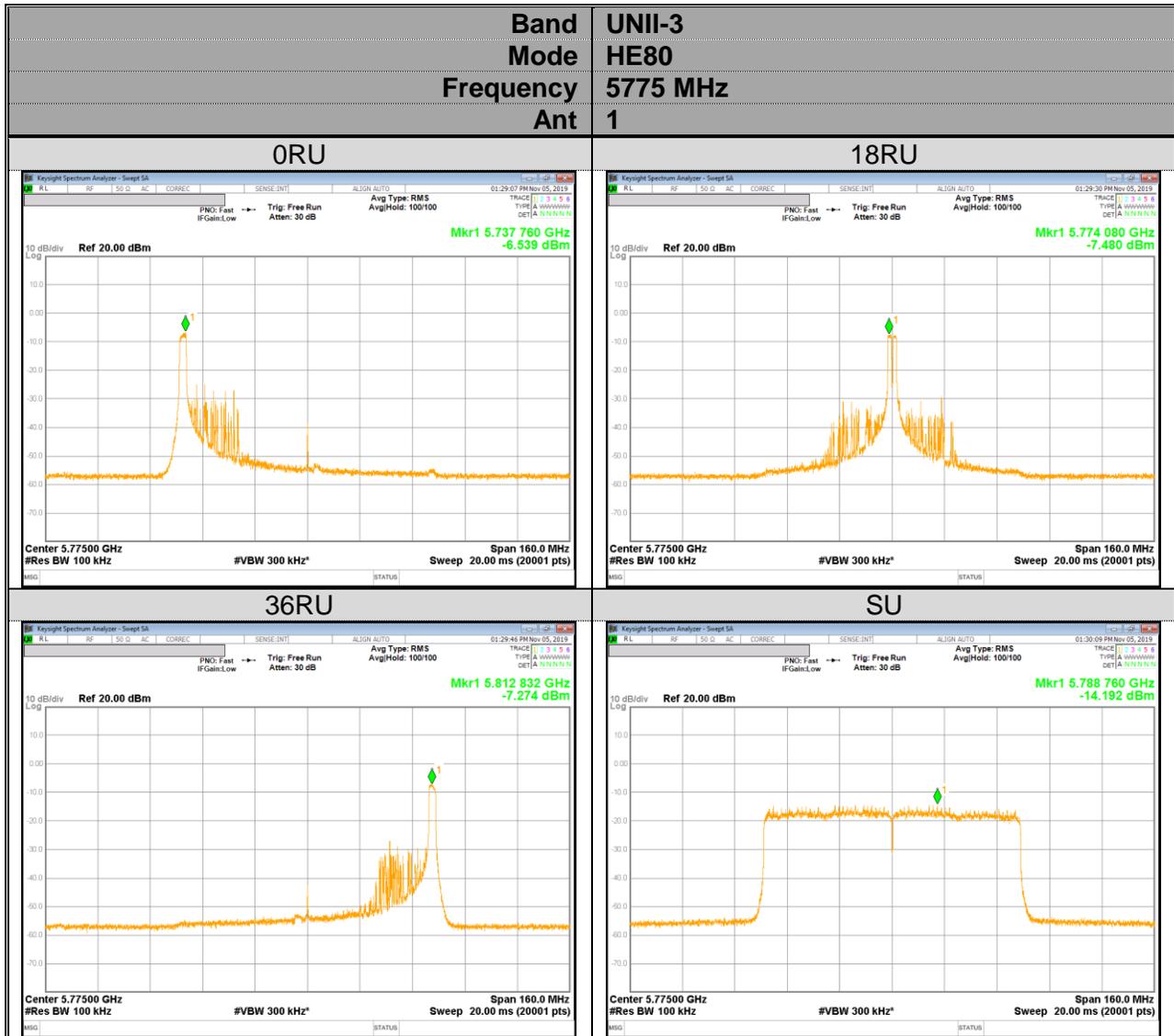


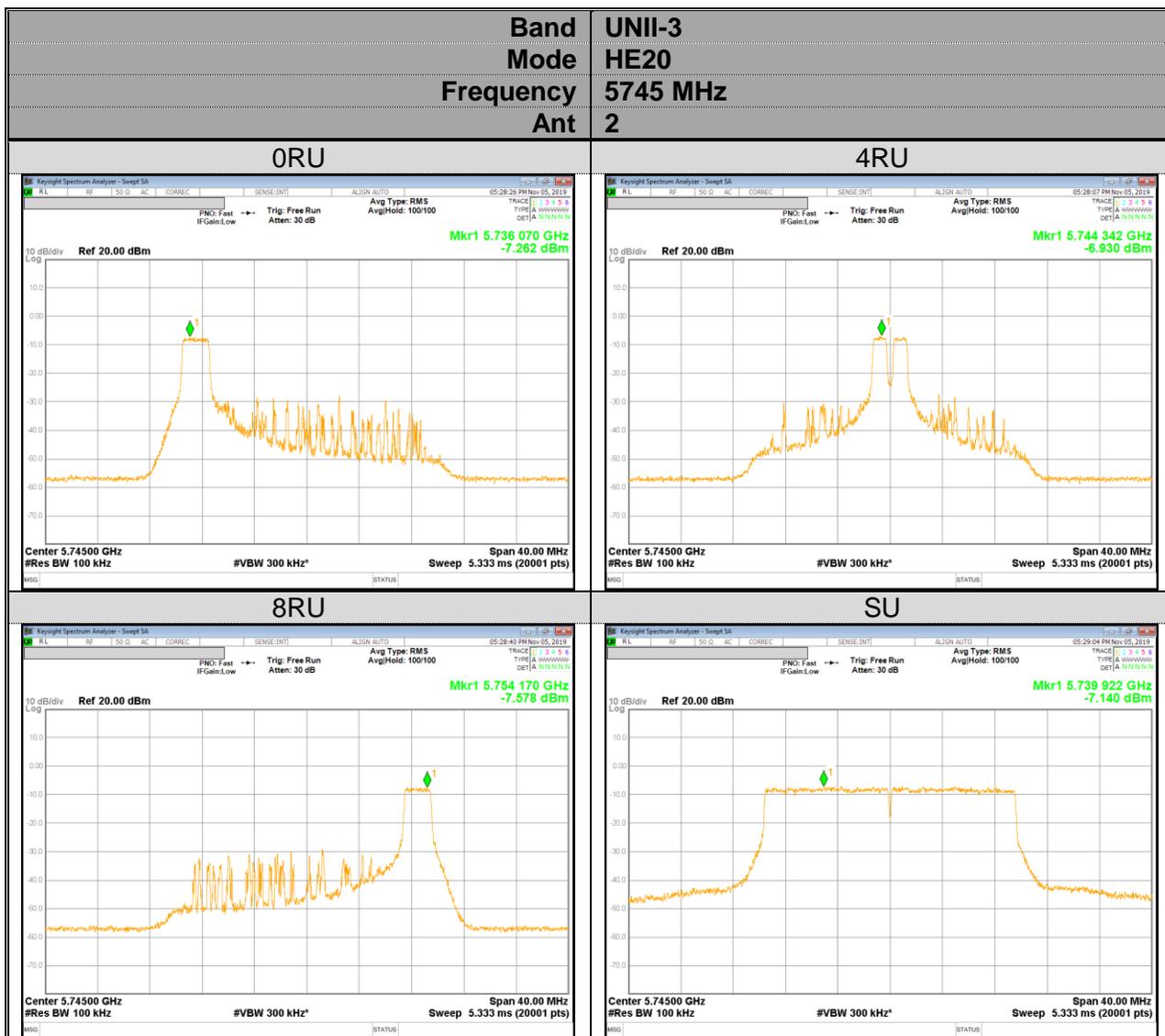


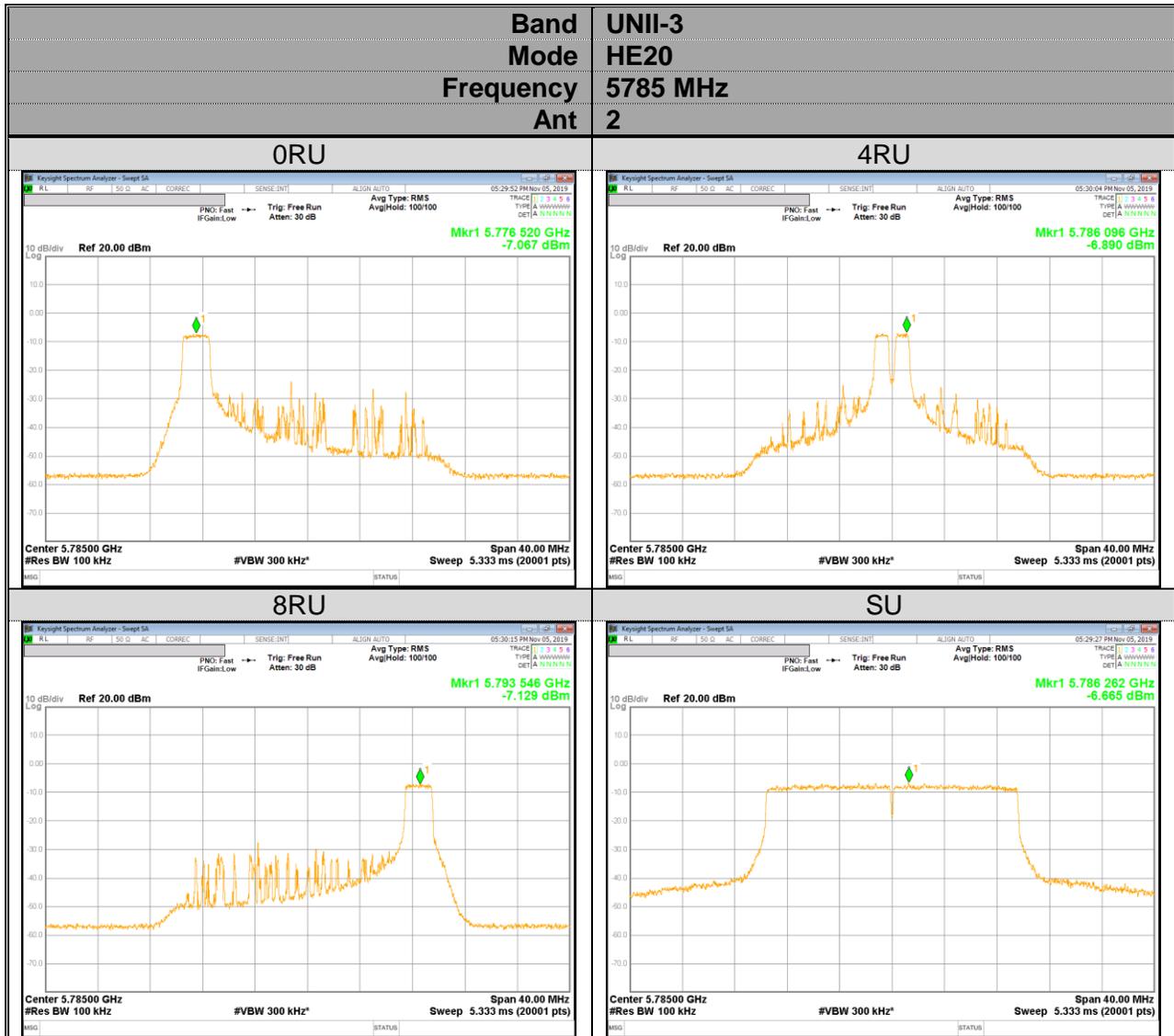


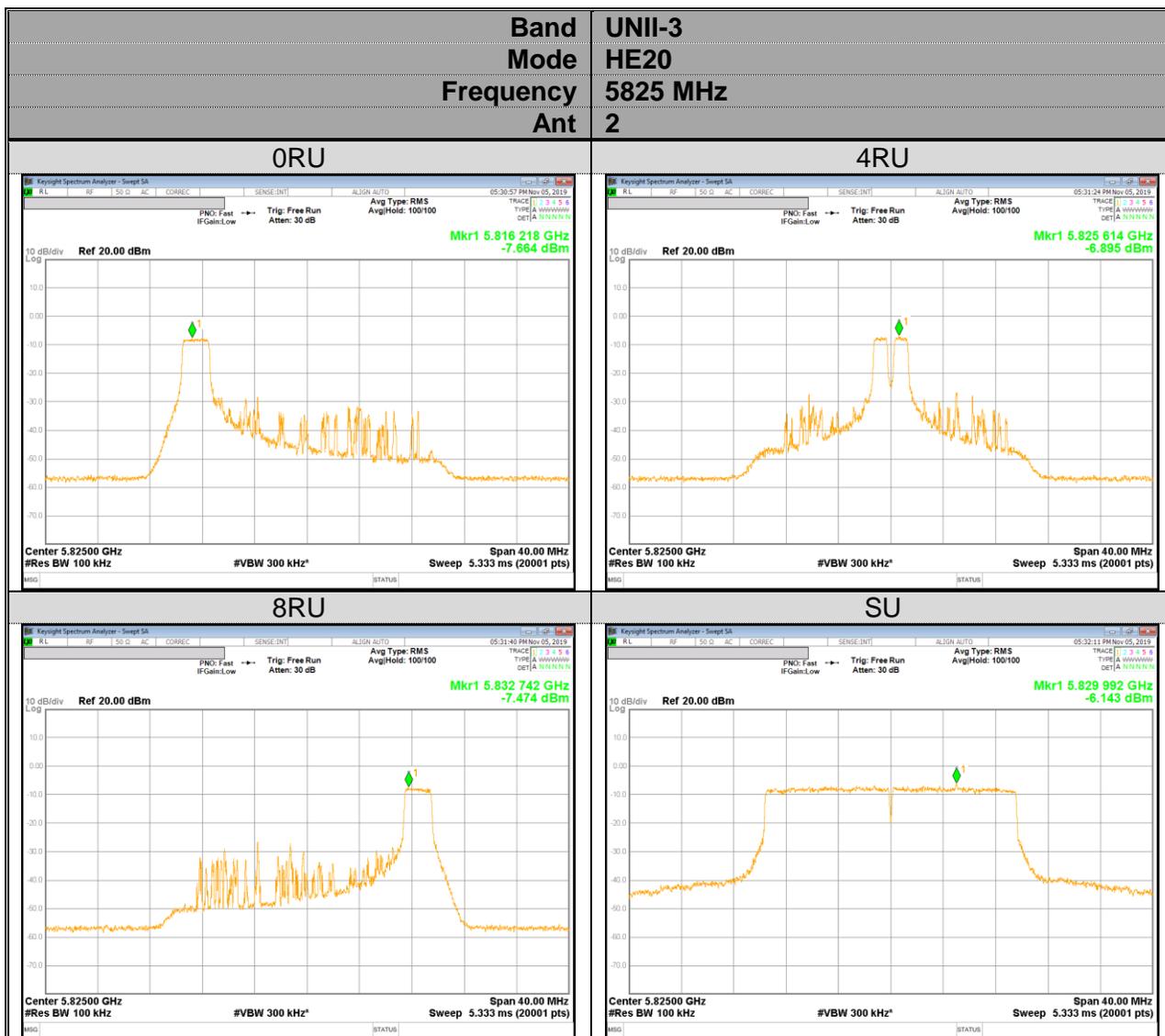


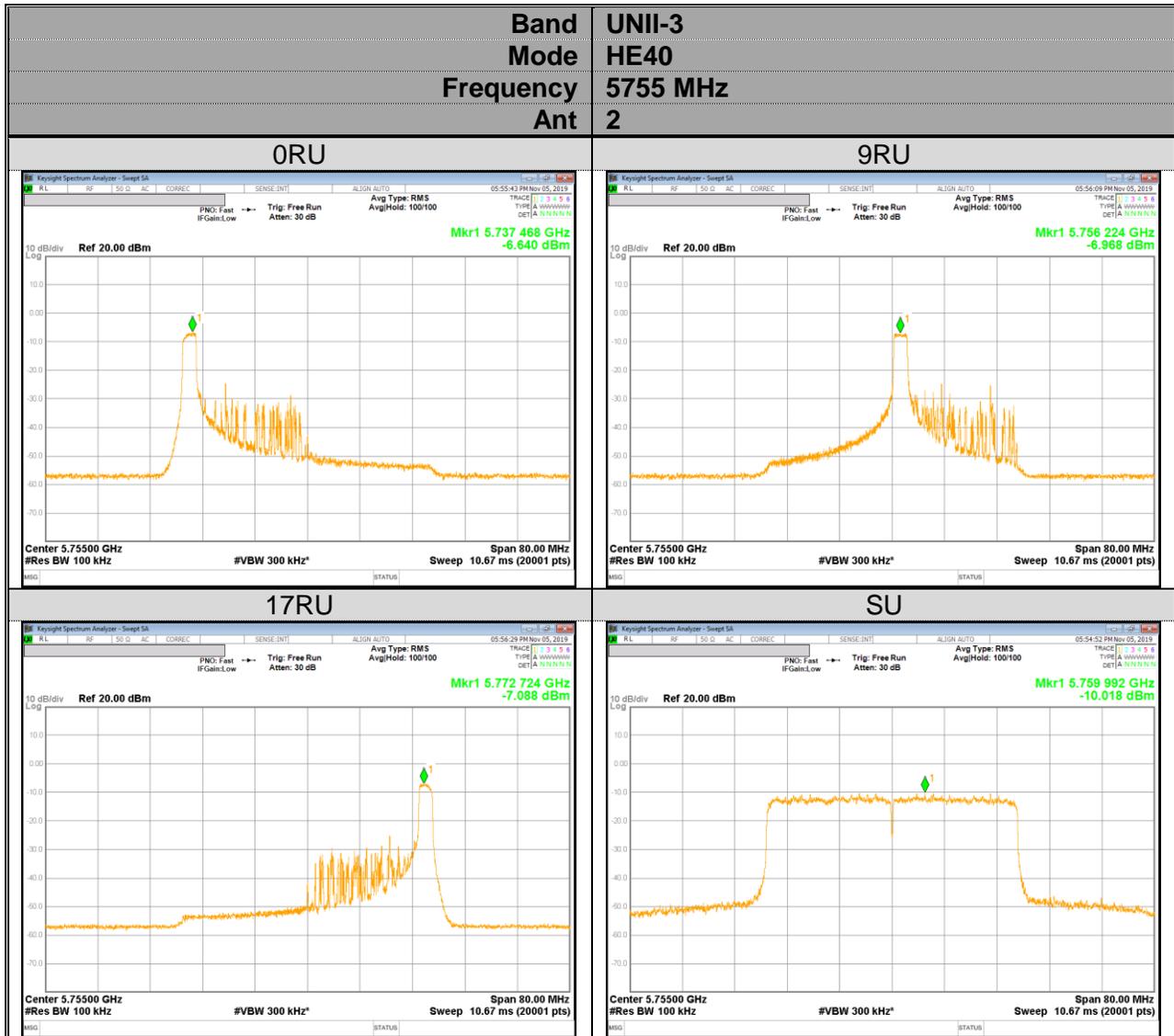


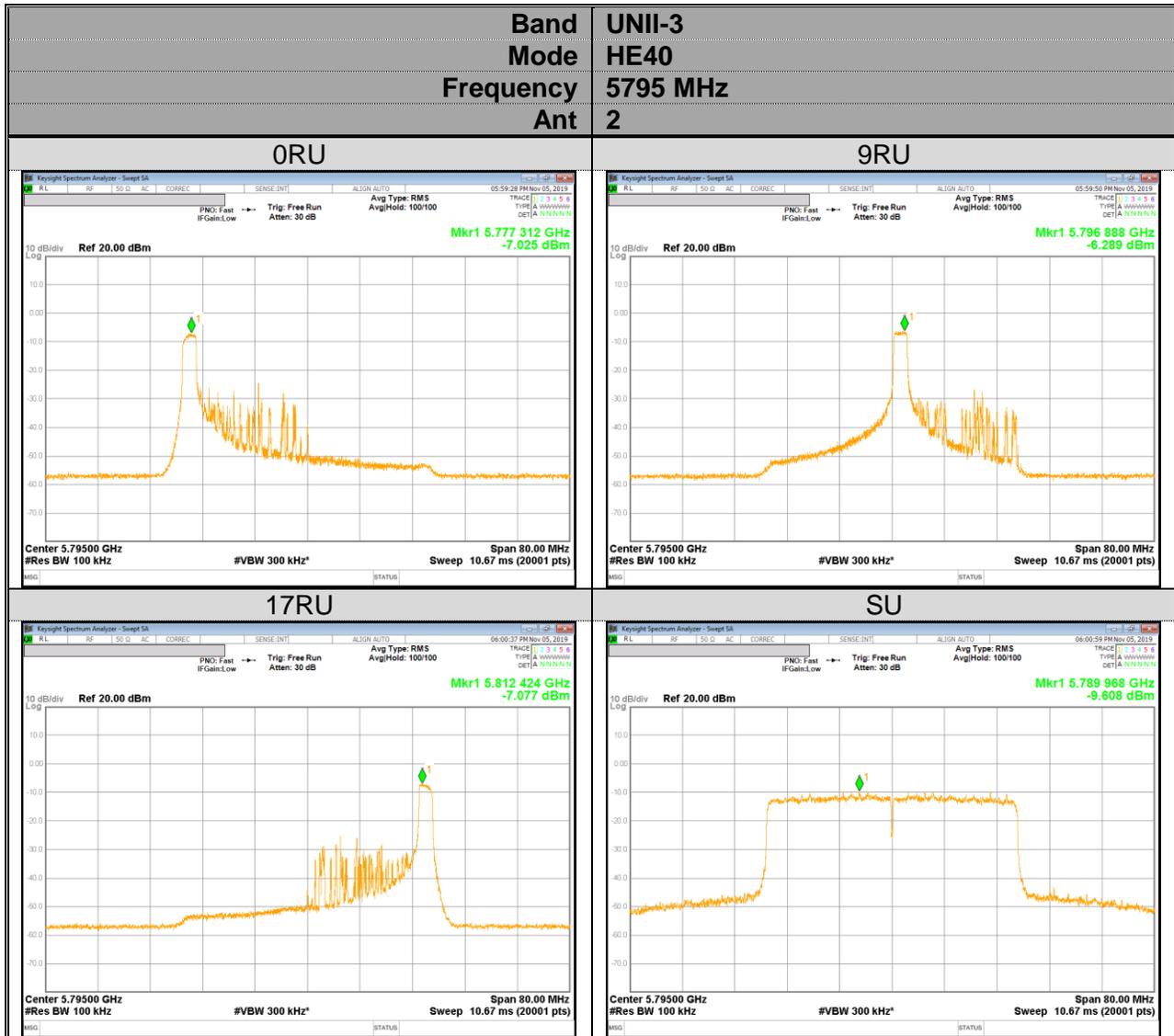


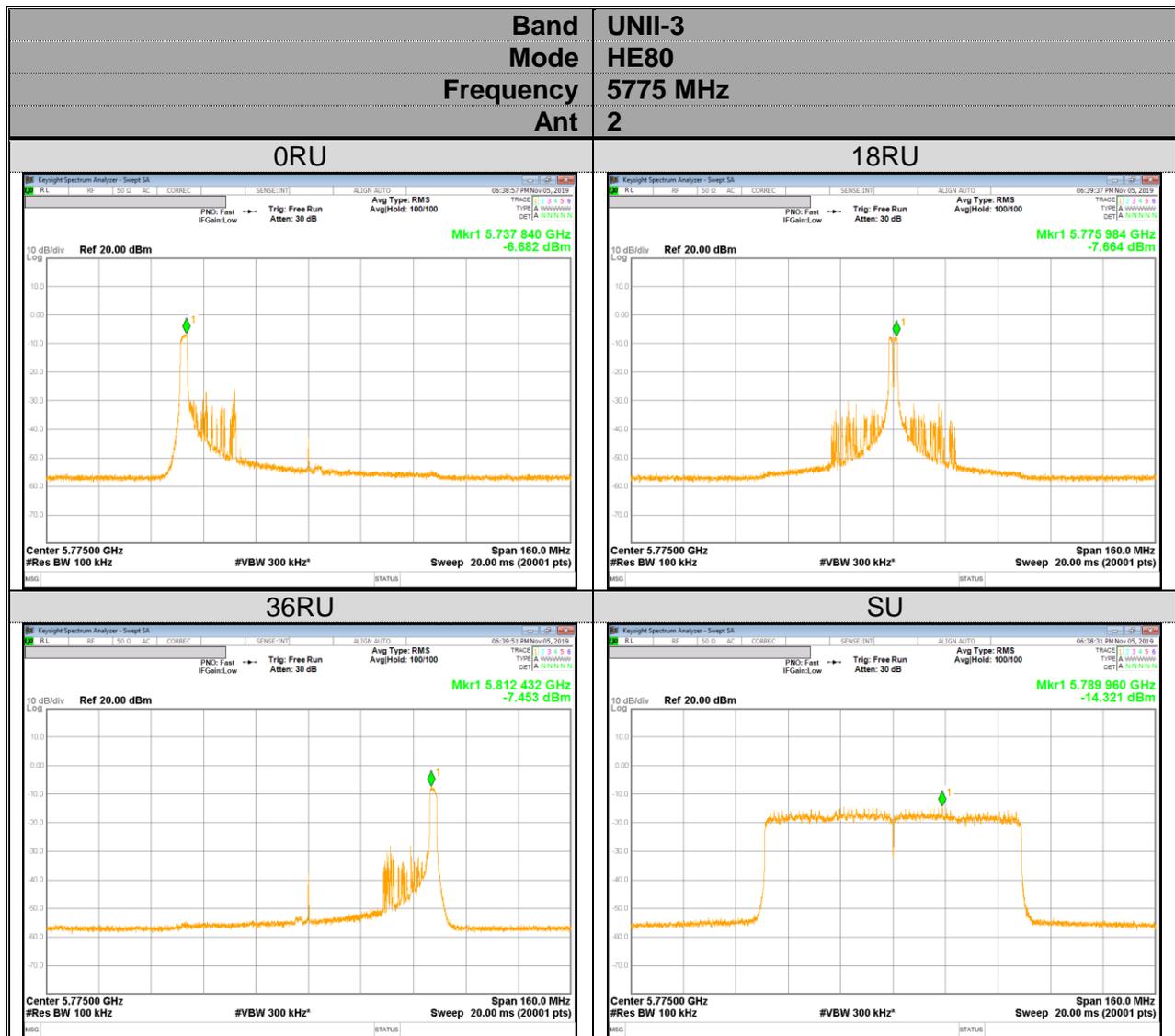












# 11. TRANSMITTER ABOVE 1 GHz

## LIMITS

FCC §15.205 and §15.209

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

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

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

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

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

**FCC §15.407 (b)**

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

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

**Note**

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

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

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

---

**TEST PROCEDURE**

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz and 150 cm for above 1 GHz. 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 30 MHz 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 9 kHz to 30 MHz; 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.

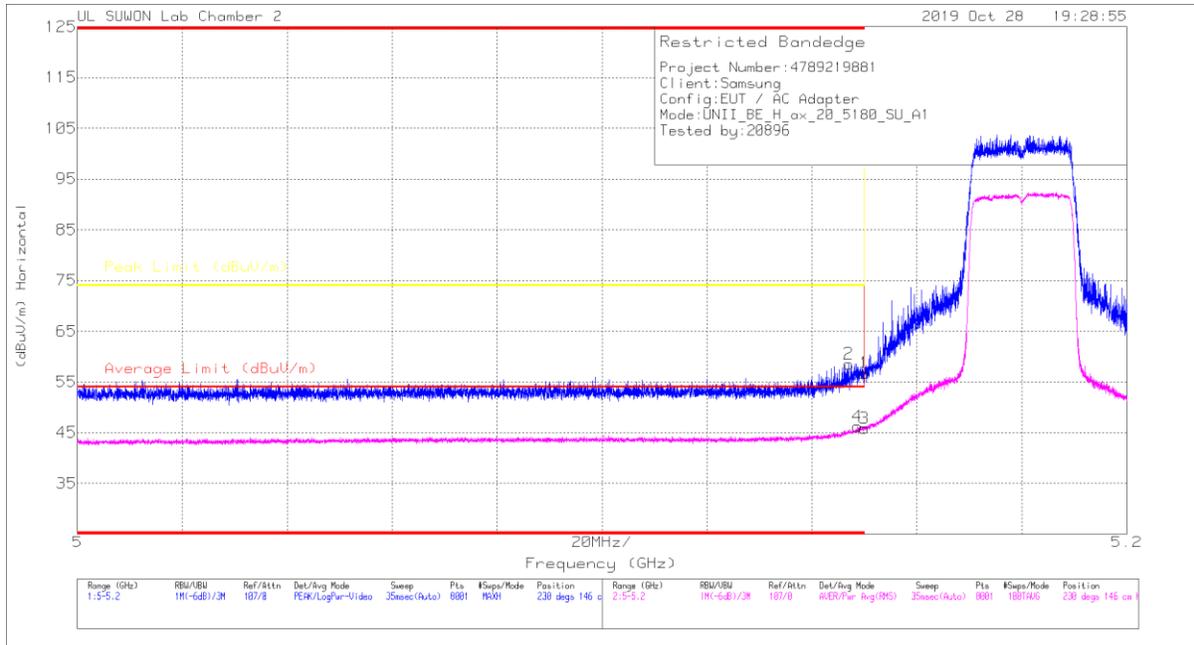
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site.  
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

## 11.1. RADIATED TEST\_1Tx (SISO)

### 11.1.1. RESTRICTED BAND-EDGE\_5.2GHz BAND LOW CHANNEL

HE20 SU mode (ANT\_1)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

##### Trace Markers

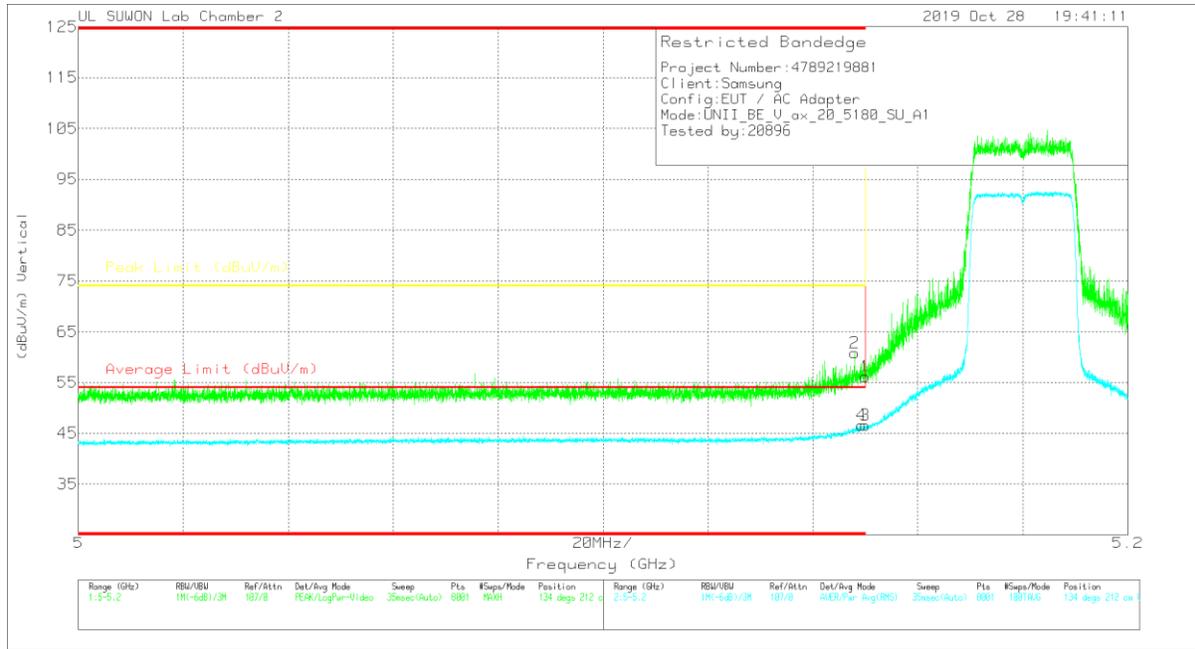
Marker	Frequency (GHz)	Meter Reading (dBu/m)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	40.52	Pk	34.3	-18.1	0	56.72	-	-	74	-17.28	230	146	H
2	* 5.14703	42.36	Pk	34.3	-18.1	0	59.56	-	-	74	-15.44	230	146	H
3	5.15	29.23	RMS	34.3	-18.1	.39	45.82	54	-8.18	-	-	230	146	H
4	* 5.14865	29.66	RMS	34.3	-18.1	.39	46.25	54	-7.75	-	-	230	146	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 (dBu/m)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	39.95	Pk	34.3	-18.1	0	56.15	-	-	74	-17.85	134	212	V
2	* 5.14798	44.64	Pk	34.3	-18.1	0	60.84	-	-	74	-13.16	134	212	V
3	5.15	29.97	RMS	34.3	-18.1	.39	46.56	54	-7.44	-	-	134	212	V
4	* 5.1493	29.95	RMS	34.3	-18.1	.39	46.54	54	-7.46	-	-	134	212	V

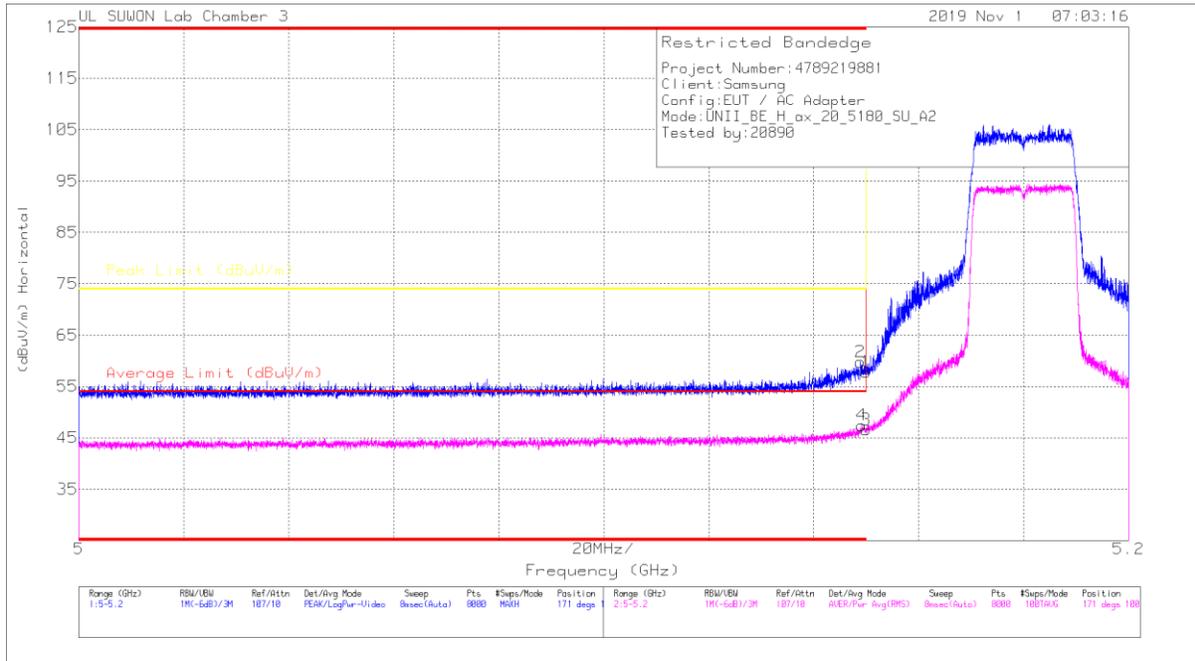
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HE20 SU mode (ANT\_2)

HORIZONTAL PEAK AND AVERAGE PLOT



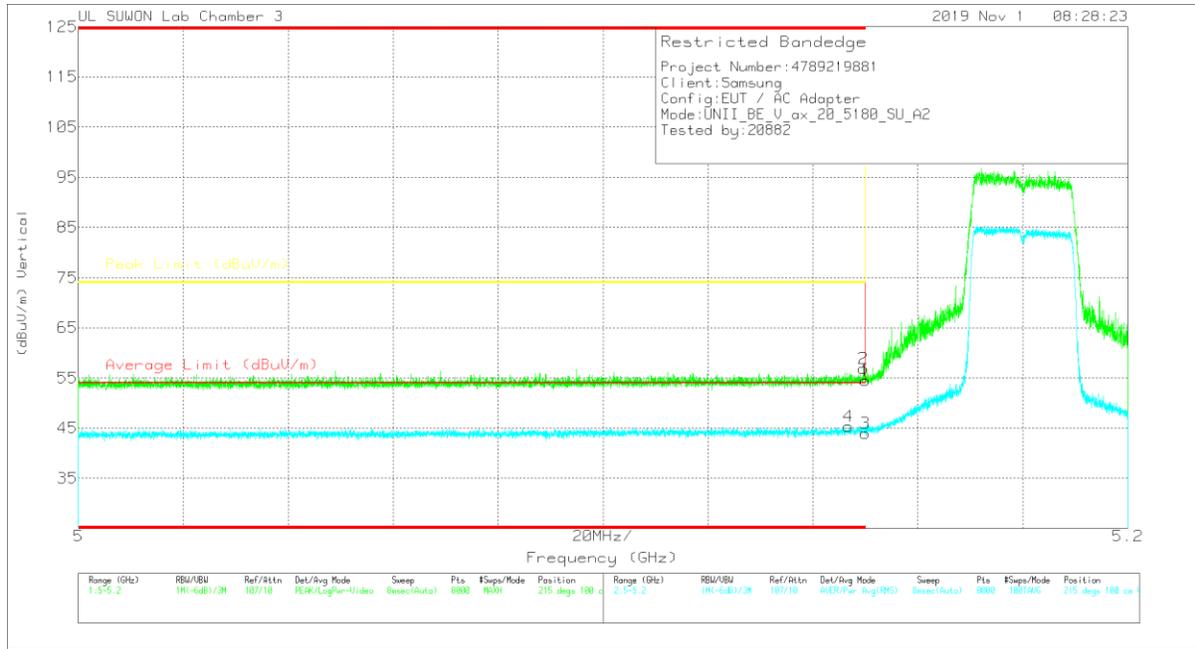
HORIZONTAL DATA

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 (m)	Polarity
1	* 5.14999	42	Pk	34.4	-18.6	0	57.8	-	-	74	-18.2	171	100	H
2	* 5.14999	43.97	Pk	34.4	-18.6	0	59.77	-	-	74	-14.23	171	100	H
3	* 5.14999	30.37	RMS	34.4	-18.6	.39	46.56	54	-7.44	-	-	171	100	H
4	* 5.14909	31.27	RMS	34.4	-18.6	.39	47.46	54	-6.54	-	-	171	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	* 5.14999	38.73	Pk	34.4	-18.6	0	54.53	-	-	74	-19.47	215	100	V
2	* 5.14957	41.02	Pk	34.4	-18.6	0	56.82	-	-	74	-17.18	215	100	V
3	* 5.14999	27.82	RMS	34.4	-18.6	.39	44.01	54	-9.99	-	-	215	100	V
4	* 5.14677	29.19	RMS	34.4	-18.6	.39	45.38	54	-8.62	-	-	215	100	V

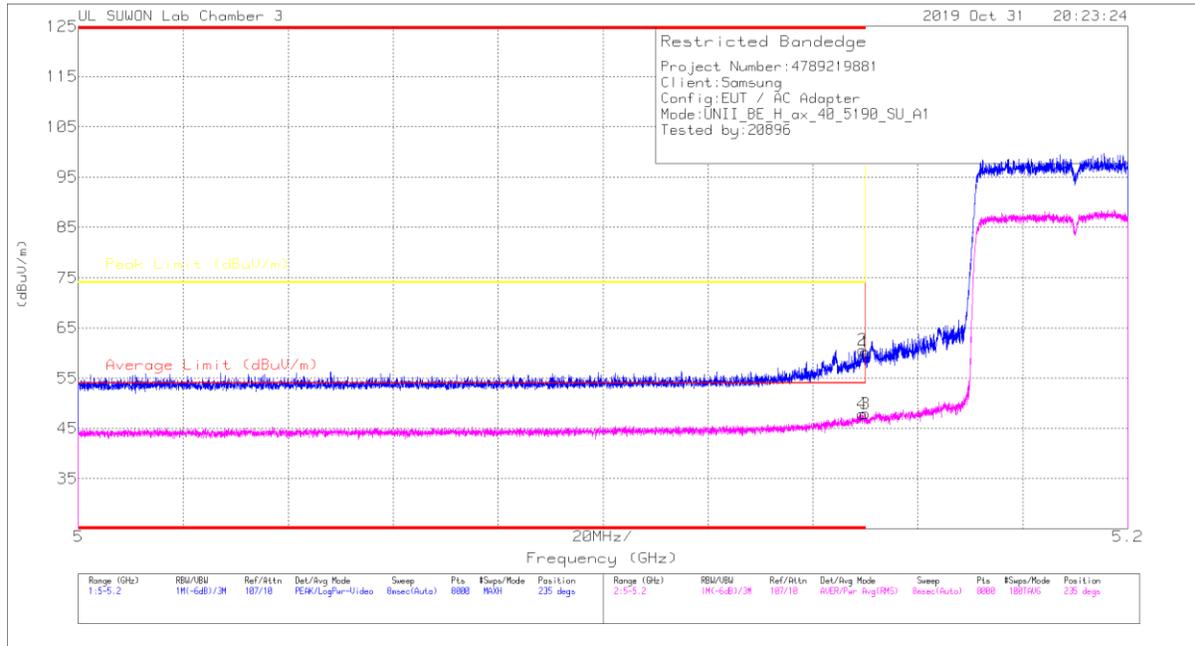
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HE40 SU mode (ANT\_1)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

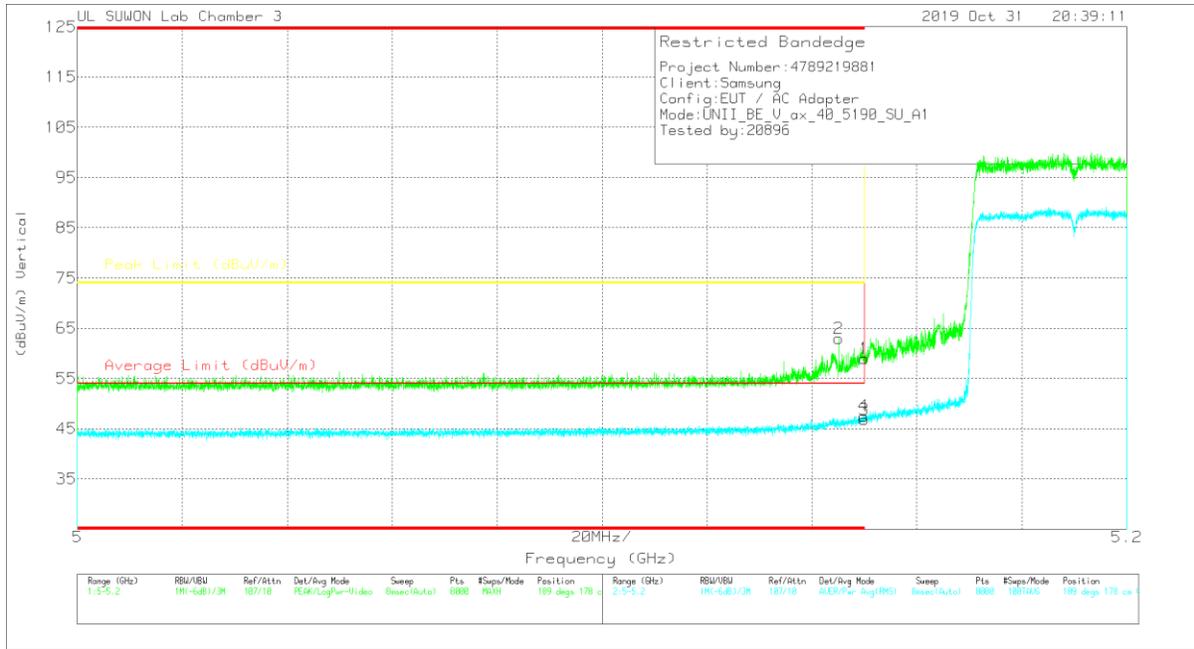
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1	* 5.14999	44.44	Pk	34.4	-18.6	0	60.24	-	-	74	-13.76	235
2	* 5.14954	44.85	Pk	34.4	-18.6	0	60.65	-	-	74	-13.35	235
3	* 5.14999	31.43	RMS	34.4	-18.6	.72	47.95	54	-6.05	-	-	235
4	* 5.14942	31.25	RMS	34.4	-18.6	.72	47.77	54	-6.23	-	-	235

\* - 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 (dBu/m)	Det	3117_00205959	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	43.22	Pk	34.4	-18.6	0	58.02	-	-	74	-14.98	189	178	V
2	* 5.14507	47.15	Pk	34.4	-18.6	0	62.95	-	-	74	-11.05	189	178	V
3	* 5.14999	30.28	RMS	34.4	-18.6	.72	46.8	54	-7.2	-	-	189	178	V
4	* 5.14982	30.98	RMS	34.4	-18.6	.72	47.5	54	-6.5	-	-	189	178	V

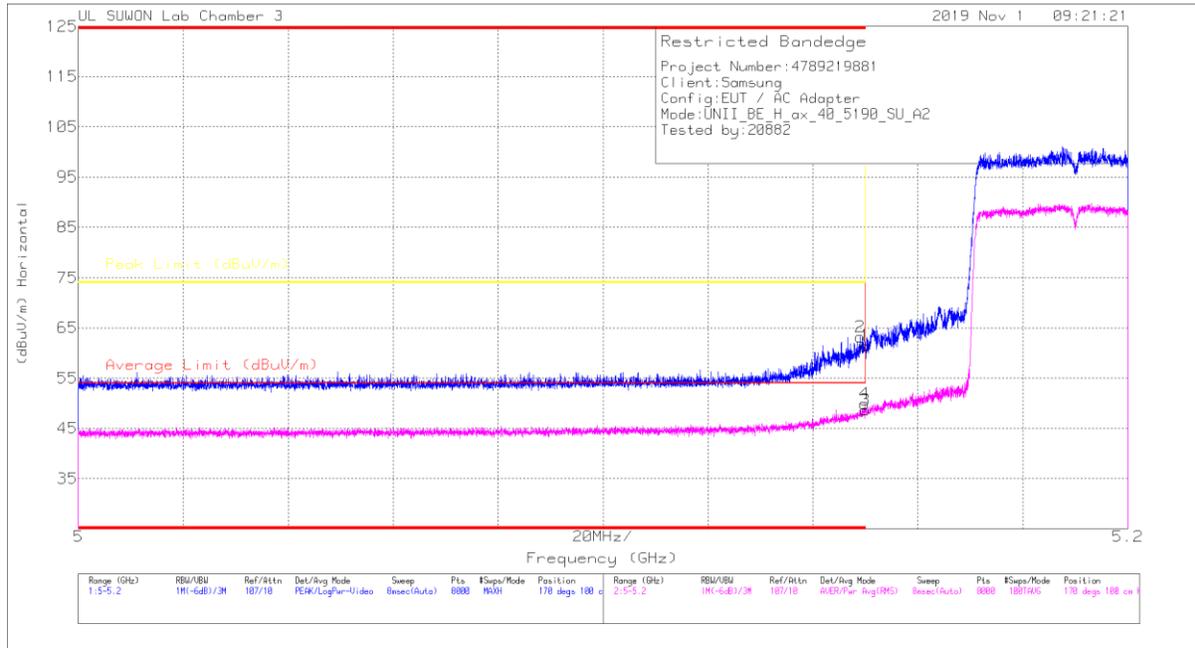
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HE40 SU mode (ANT\_2)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

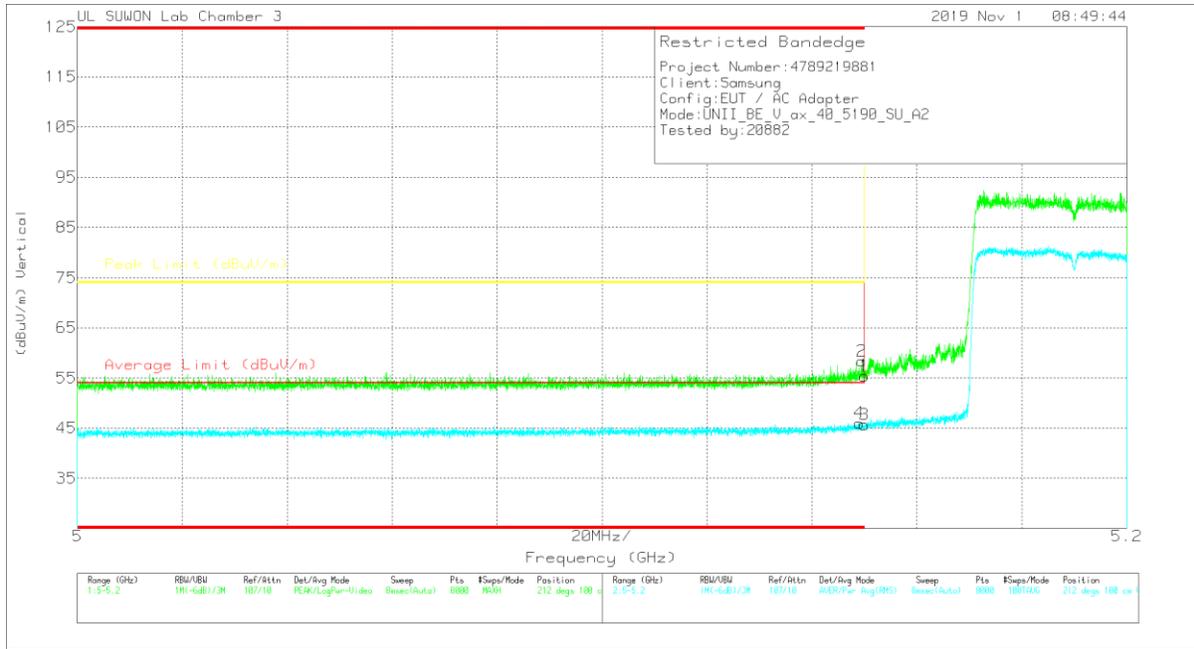
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	45.6	Pk	34.4	-18.6	0	61.4	-	-	74	-12.6	170	100	H
2	* 5.14902	47.45	Pk	34.4	-18.6	0	63.25	-	-	74	-10.75	170	100	H
3	* 5.14989	32.13	RMS	34.4	-18.6	.72	48.65	54	-5.35	-	-	170	100	H
4	* 5.14979	33.34	RMS	34.4	-18.6	.72	49.86	54	-4.14	-	-	170	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 (dBu/m)	Det	3117_00205959	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	39.64	Pk	34.4	-18.6	0	55.44	-	-	74	-18.56	212	100	V
2	* 5.14944	42.53	Pk	34.4	-18.6	0	58.33	-	-	74	-15.67	212	100	V
3	* 5.14999	29.15	RMS	34.4	-18.6	.72	45.67	54	-8.33	-	-	212	100	V
4	* 5.14897	29.49	RMS	34.4	-18.6	.72	46.01	54	-7.99	-	-	212	100	V

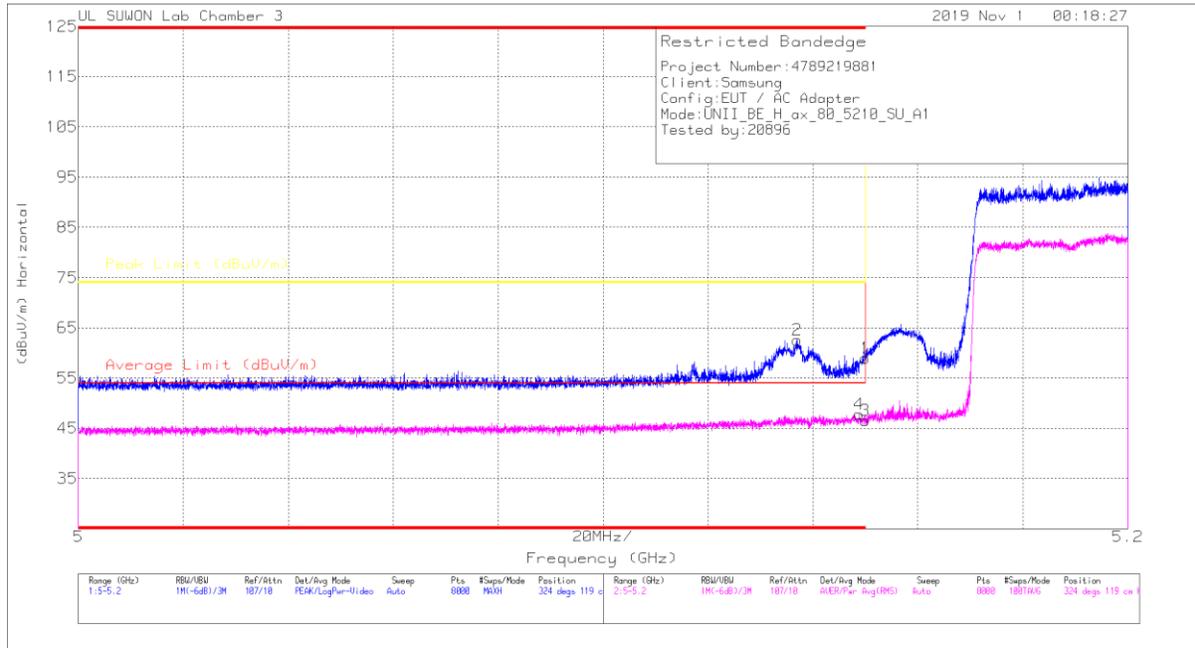
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HE80 SU mode (ANT\_1)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

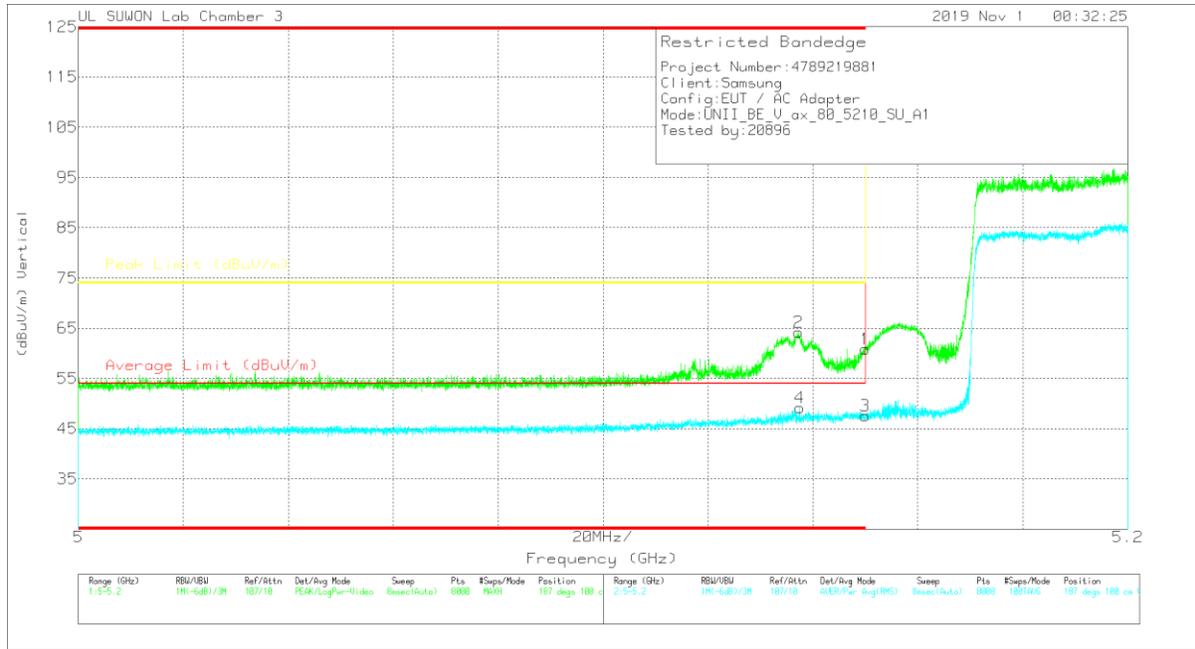
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1	* 5.14999	43.23	Pk	34.4	-18.6	0	59.03	-	-	74	-14.97	324	119	H
2	* 5.13697	46.83	Pk	34.4	-18.6	0	62.63	-	-	74	-11.37	324	119	H
3	* 5.14399	29.47	RMS	34.4	-18.6	1.26	46.53	54	-7.47	-	-	324	119	H
4	* 5.14872	30.7	RMS	34.4	-18.6	1.26	47.76	54	-6.24	-	-	324	119	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	* 5.14999	45.07	Pk	34.4	-18.6	0	60.97	-	-	74	-13.13	187	100	V
2	* 5.13722	48.35	Pk	34.4	-18.6	0	64.15	-	-	74	-9.85	187	100	V
3	* 5.14999	30.45	RMS	34.4	-18.6	1.26	47.51	54	-6.49	-	-	187	100	V
4	* 5.13744	32.06	RMS	34.4	-18.6	1.26	49.12	54	-4.88	-	-	187	100	V

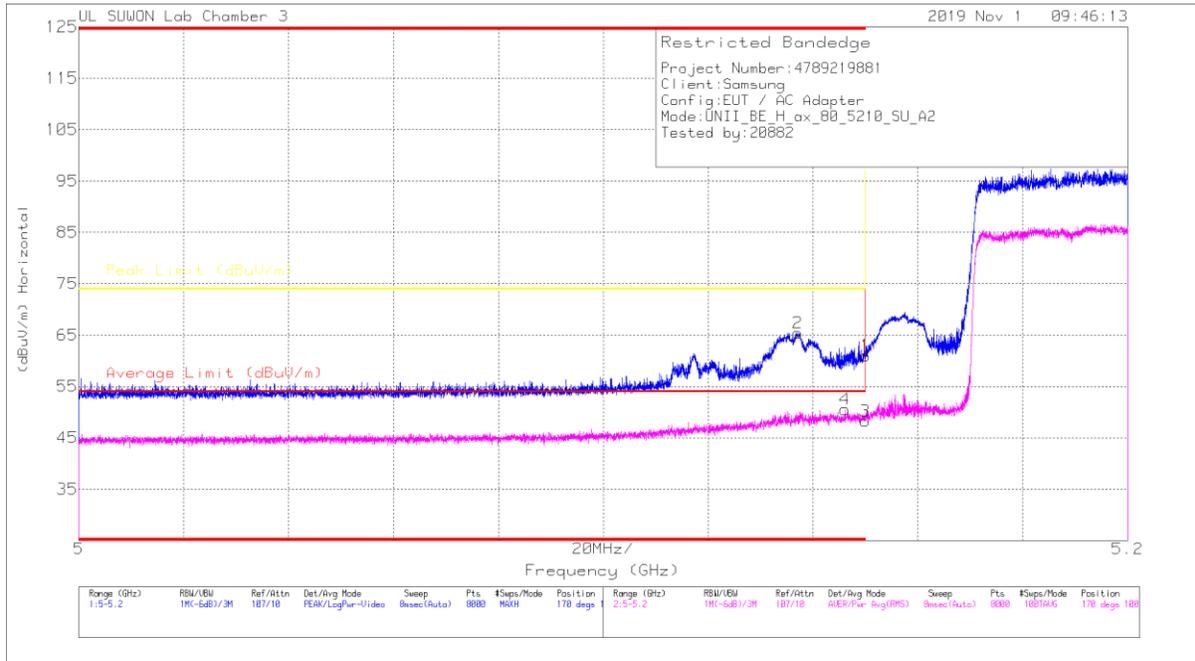
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HE80 SU mode (ANT\_2)

HORIZONTAL PEAK AND AVERAGE PLOT



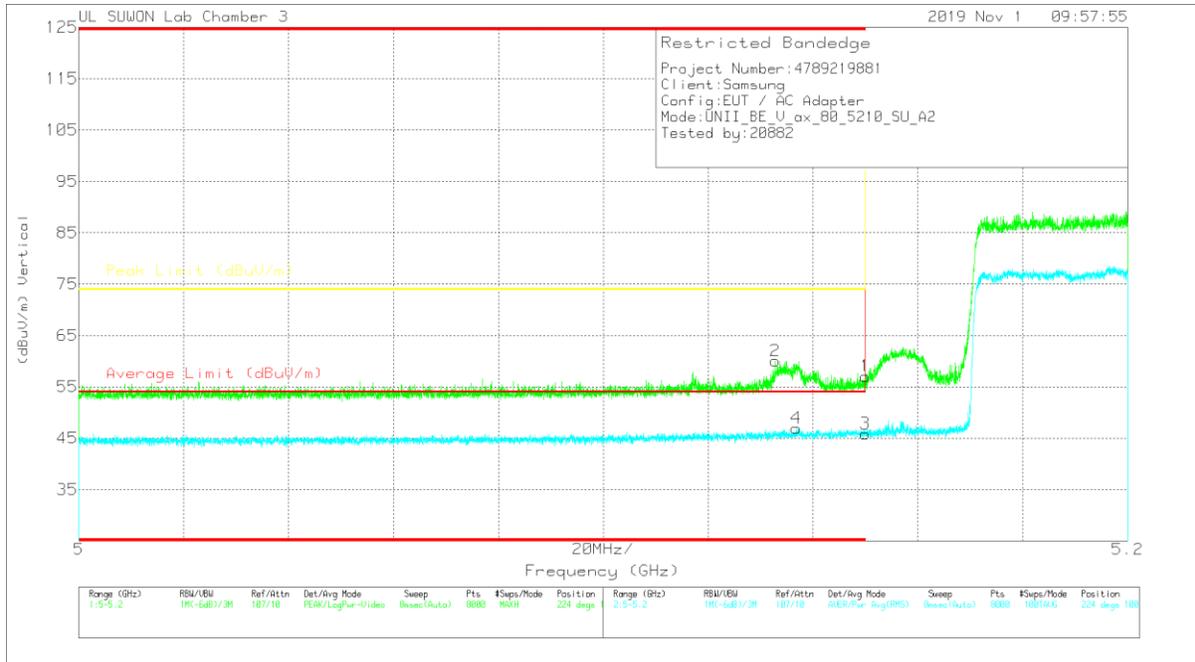
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBu/m)	Det	3117_00205959	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	* 5.14989	45.2	Pk	34.4	-18.6	0	61	-	-	74	-13	170	100	H
2	* 5.13709	49.62	Pk	34.4	-18.6	0	65.42	-	-	74	-8.58	170	100	H
3	* 5.14989	31.19	RMS	34.4	-18.6	1.26	48.25	54	-5.75	-	-	170	100	H
4	* 5.14609	33.45	RMS	34.4	-18.6	1.26	50.51	54	-3.49	-	-	170	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	* 5.14999	41.28	Pk	34.4	-18.6	0	57.08	-	-	74	-16.92	224	100	V
2	* 5.13277	44.25	Pk	34.4	-18.6	0	60.05	-	-	74	-13.95	224	100	V
3	* 5.14999	28.8	RMS	34.4	-18.6	1.26	45.86	54	-8.14	-	-	224	100	V
4	* 5.13679	29.89	RMS	34.4	-18.6	1.26	46.95	54	-7.05	-	-	224	100	V

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

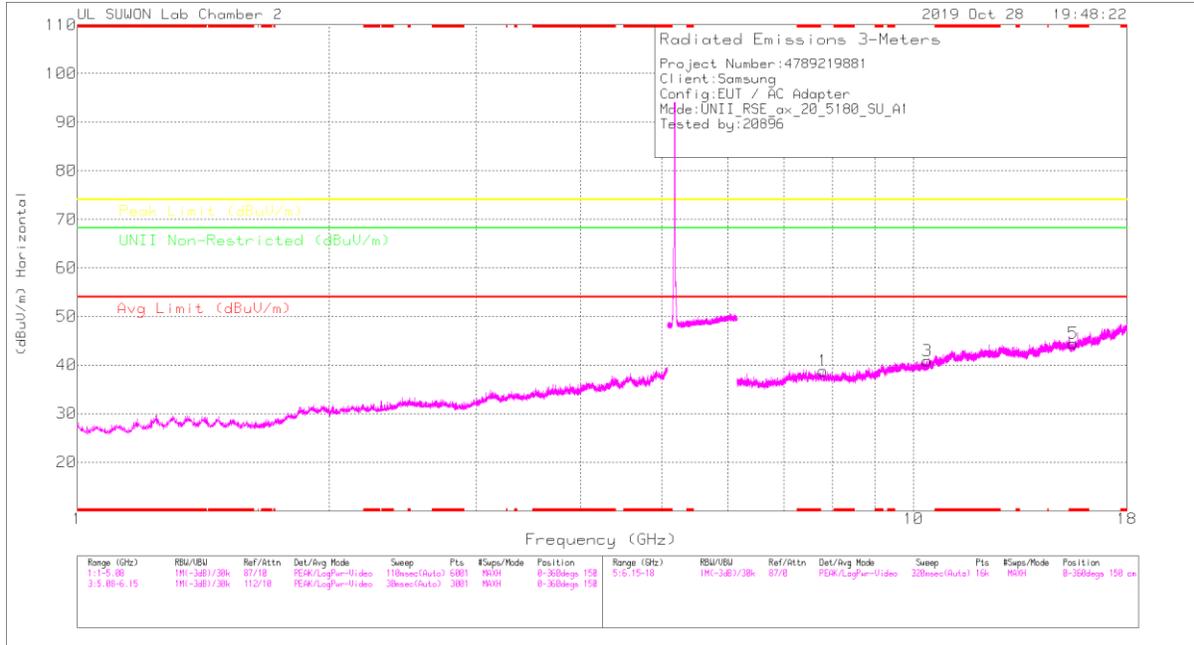
Pk - Peak detector

RMS - RMS detection

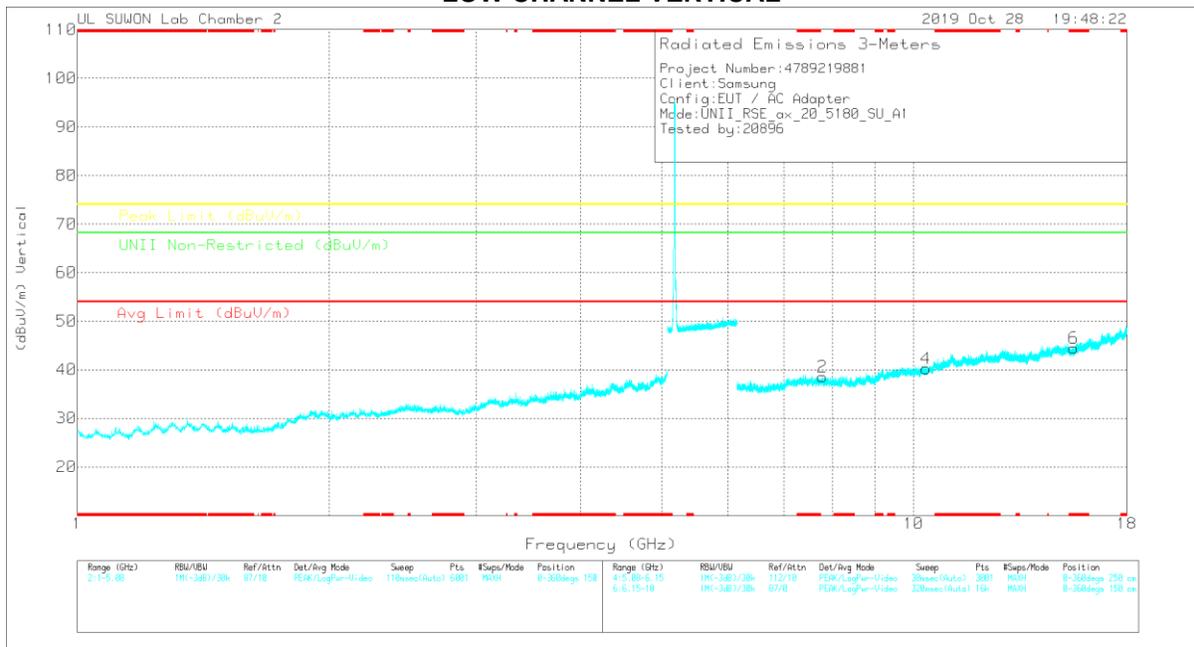
### 11.1.2. HARMONICS AND SPURIOUS EMISSIONS\_5.2GHz BAND

HE20 SU mode (ANT\_1)

#### 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 (dBu)	Det	3117_00188724	6GHz_HF5dB	DC Corr (dB)	Corrected Reading (dBu/m)	Avg Limt (dBu/m)	Margin (dB)	Peak Limt (dBu/m)	Margin (dB)	LNI Non-Restricted (dBu/m)	Margin (dB)	Altitude (Degs)	Height (m)	Polarity
1	7.7925	28.47	PK	36	-23.7	0	38.77	-	-	-	-	68.2	-29.43	0-360	250	H
3	10.35319	24.02	PK	37.6	-20.8	0	40.82	-	-	-	-	68.2	-27.38	0-360	250	H
5	* 15.53462	24.01	PK	39.9	-19.5	0	44.41	-	-	74	-29.59	-	-	0-360	150	H
2	7.7815	26.2	PK	36	-23.6	0	38.6	-	-	-	-	68.2	-29.6	0-360	250	V
4	10.35871	23.39	PK	37.5	-20.7	0	40.19	-	-	-	-	68.2	-28.01	0-360	250	V
6	* 15.55081	24.04	PK	40	-19.6	0	44.44	-	-	74	-29.56	-	-	0-360	250	V

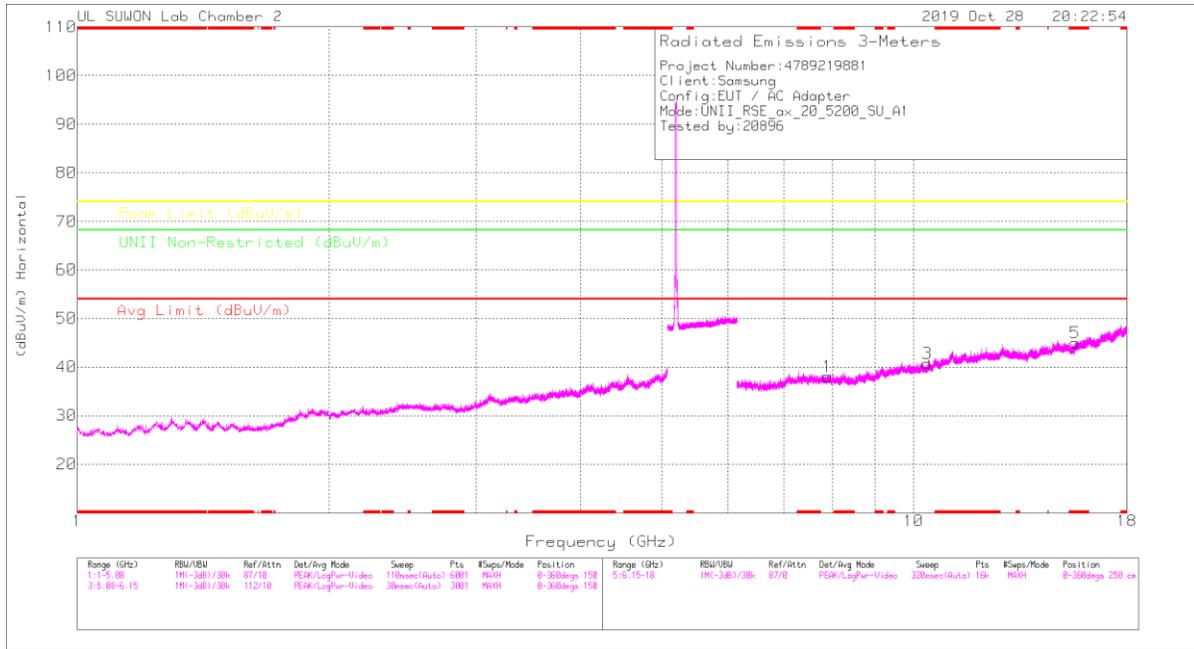
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK – Peak Detector

Radiated Emissions

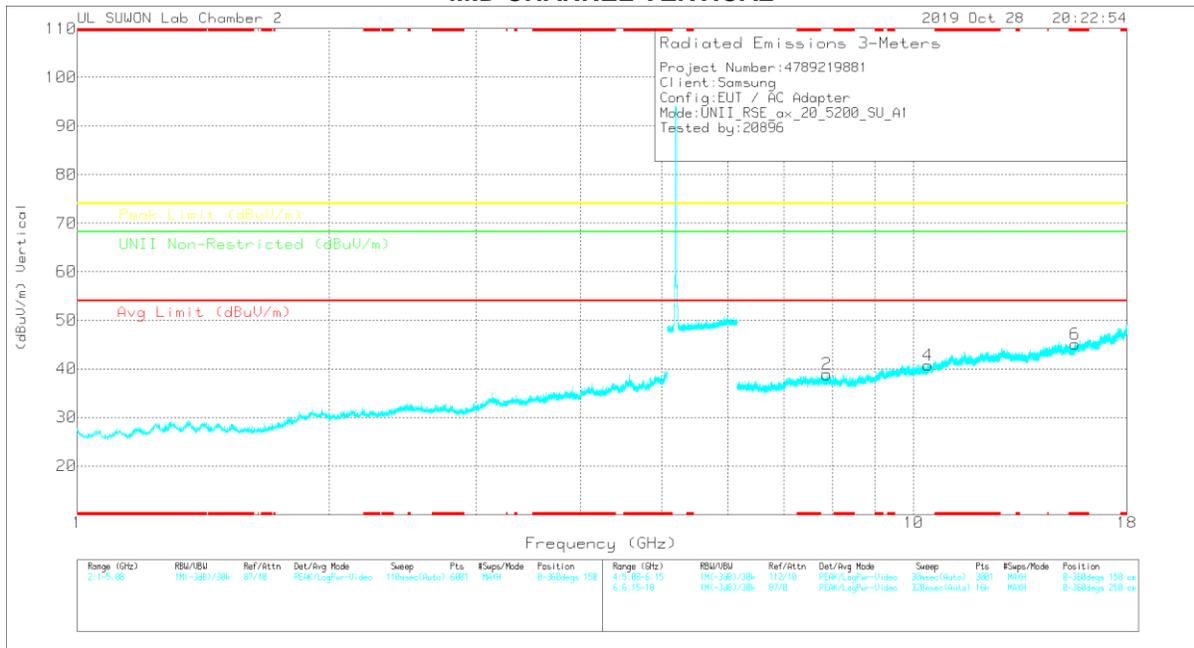
Frequency (GHz)	Meter Reading (dBu)	Det	3117_00188724	6GHz_HF5dB	DC Corr (dB)	Corrected Reading (dBu/m)	Avg Limt (dBu/m)	Margin (dB)	Peak Limt (dBu/m)	Margin (dB)	LNI Non-Restricted (dBu/m)	Margin (dB)	Altitude (Degs)	Height (m)	Polarity
7.79408	36.08	PK-U	36	-23.7	0	48.38	-	-	-	-	68.2	-19.82	0	100	H
7.79087	35.89	PK-U	36	-23.7	0	48.19	-	-	-	-	68.2	-20.01	0	100	V
10.35061	33.79	PK-U	37.6	-20.8	0	50.59	-	-	-	-	68.2	-17.61	0	100	H
10.37944	33.61	PK-U	37.6	-20.8	0	50.41	-	-	-	-	68.2	-17.79	0	100	V
* 15.53595	34.52	PK-U	39.9	-19.6	0	54.82	-	-	74	-19.18	-	-	0	100	H
* 15.53442	34.08	PK-U	39.9	-19.5	0	54.48	-	-	74	-19.52	-	-	0	100	V

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

**MID CHANNEL HORIZONTAL**



**MID CHANNEL VERTICAL**



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

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBm)	Det	3117_00188724	6GHz_HF(4B)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBm/Vm)	Margin (dB)	Peak Limit (dBm/Vm)	Margin (dB)	LNII Non-Restricted (dBm/Vm)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	7.88962	26.38	PK	35.9	-24.2	0	36.08	-	-	-	-	68.2	-30.12	0-360	250	H
3	10.3913	23.5	PK	37.6	-20.7	0	40.7	-	-	-	-	68.2	-27.5	0-360	250	H
5	*15.6109	24.56	PK	40	-19.6	0	44.56	-	-	74	-29.04	-	-	0-360	250	H
2	7.87703	27.29	PK	35.9	-24.3	0	38.89	-	-	-	-	68.2	-29.31	0-360	150	V
4	10.40537	23.72	PK	37.6	-20.6	0	40.72	-	-	-	-	68.2	-27.48	0-360	250	V
6	*15.60349	24.68	PK	40	-19.6	0	45.08	-	-	74	-28.92	-	-	0-360	250	V

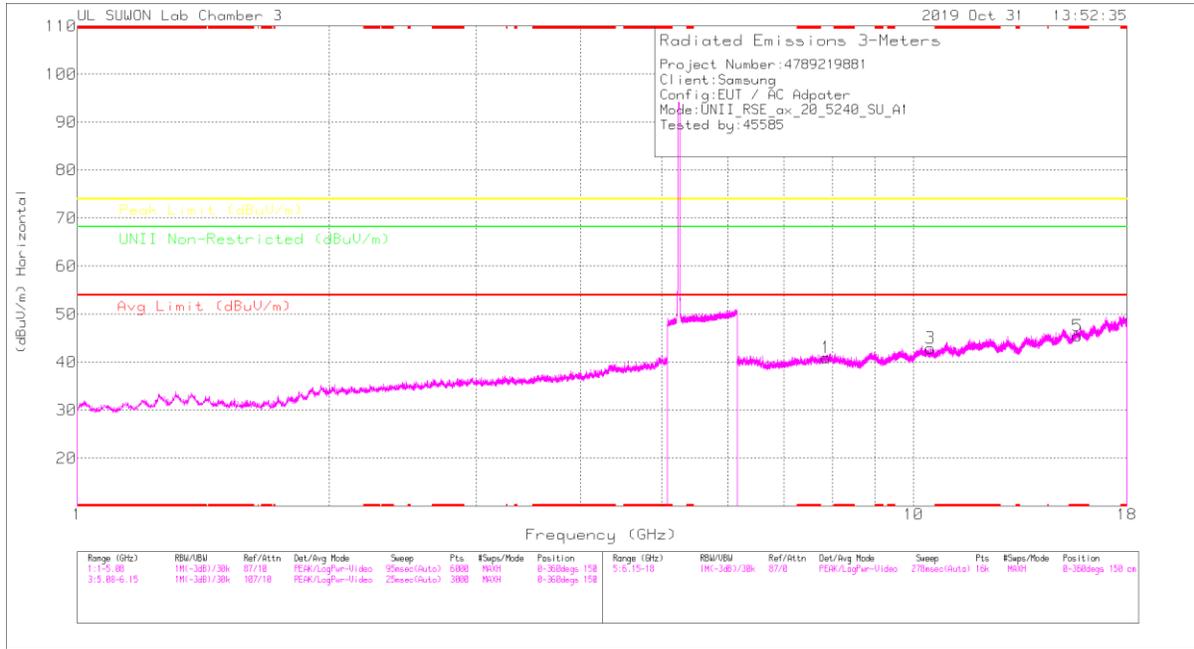
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK – Peak Detector

Radiated Emissions

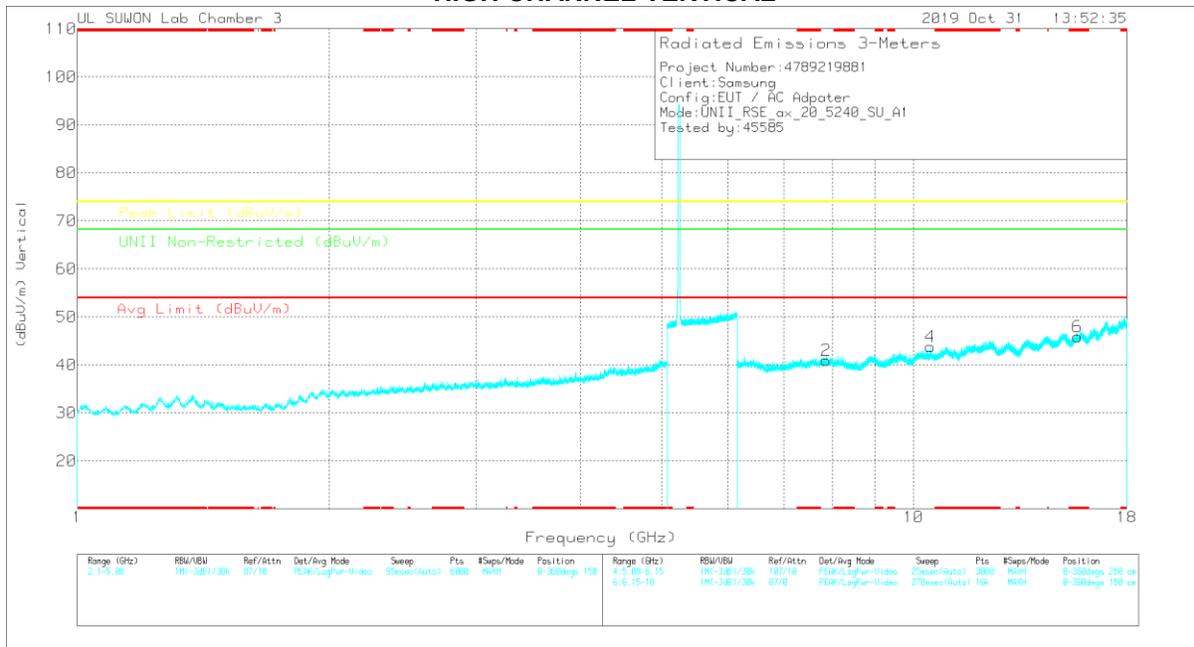
Frequency (GHz)	Meas Reading (dBm)	Det	3117_00188724	6GHz_HF(4B)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBm/Vm)	Margin (dB)	Peak Limit (dBm/Vm)	Margin (dB)	LNII Non-Restricted (dBm/Vm)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
7.88901	36.49	PK-U	35.9	-24.2	0	48.19	-	-	-	-	68.2	-20.01	0	100	H
7.89003	36.46	PK-U	35.9	-24.2	0	48.16	-	-	-	-	68.2	-20.04	0	100	V
10.39327	33.31	PK-U	37.6	-20.7	0	50.21	-	-	-	-	68.2	-17.99	0	100	H
10.39029	33.74	PK-U	37.6	-20.7	0	50.64	-	-	-	-	68.2	-17.86	0	100	V
*15.60178	34.32	PK-U	40	-19.7	0	54.62	-	-	74	-19.38	-	-	0	100	H
*15.60168	33.95	PK-U	40	-19.7	0	54.25	-	-	74	-19.75	-	-	0	100	V

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

**HIGH CHANNEL HORIZONTAL**



**HIGH CHANNEL VERTICAL**



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

**HIGH CHANNEL DATA**

**Trace Markers**

Marker	Frequency (GHz)	Marker Reading (dBu)	Det	3117_00205659	6GHz_HPS(6)	DC Corr (dB)	Corrected Reading (dBu)	Avg Limit (dBu/Vm)	Margin (dB)	Peak Limit (dBu/Vm)	Margin (dB)	LNI Non-Restricted (dBu/Vm)	Margin (dB)	Altitude (Deg)	Height (m)	Polarity
1	7.86021	27.12	PK	35.9	-22	0	41.02	-	-	-	-	68.2	-27.18	0-360	250	H
3	10.48144	24.27	PK	37.7	-19	0	42.97	-	-	-	-	68.2	-25.23	0-360	250	H
5	* 15.71984	24.29	PK	40.4	-19.2	0	45.49	-	-	74	-28.51	-	-	0-360	250	H
2	7.86095	27.03	PK	35.9	-22	0	40.93	-	-	-	-	68.2	-27.27	0-360	150	V
4	10.477	25.23	PK	37.7	-19.1	0	43.83	-	-	-	-	68.2	-24.37	0-360	250	V
6	* 15.71947	24.68	PK	40.4	-19.2	0	45.88	-	-	74	-28.12	-	-	0-360	150	V

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

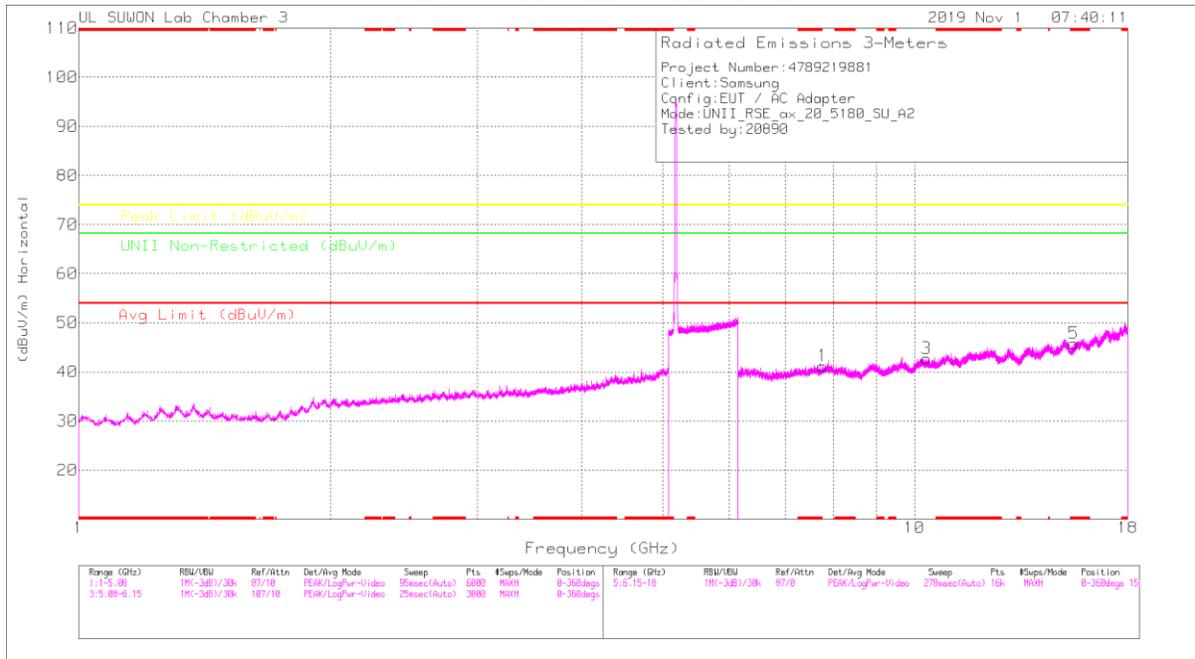
**Radiated Emissions**

Frequency (GHz)	Marker Reading (dBu)	Det	3117_00205659	6GHz_HPS(6)	DC Corr (dB)	Corrected Reading (dBu)	Avg Limit (dBu/Vm)	Margin (dB)	Peak Limit (dBu/Vm)	Margin (dB)	LNI Non-Restricted (dBu/Vm)	Margin (dB)	Altitude (Deg)	Height (m)	Polarity
7.86196	32.46	PK-U	35.9	-22	0	46.38	-	-	-	-	68.2	-21.82	0	100	H
7.864	33.72	PK-U	35.9	-22	0	47.62	-	-	-	-	68.2	-20.58	0	100	V
10.48213	31.24	PK-U	37.7	-19	0	49.94	-	-	-	-	68.2	-19.26	0	100	H
10.48032	31.19	PK-U	37.7	-19.1	0	49.79	-	-	-	-	68.2	-18.41	0	100	V
* 15.71991	32.89	PK-U	40.4	-19.2	0	54.09	-	-	74	-19.91	-	-	0	100	H
* 15.71908	32.46	PK-U	40.4	-19.1	0	53.76	-	-	74	-20.24	-	-	0	100	V

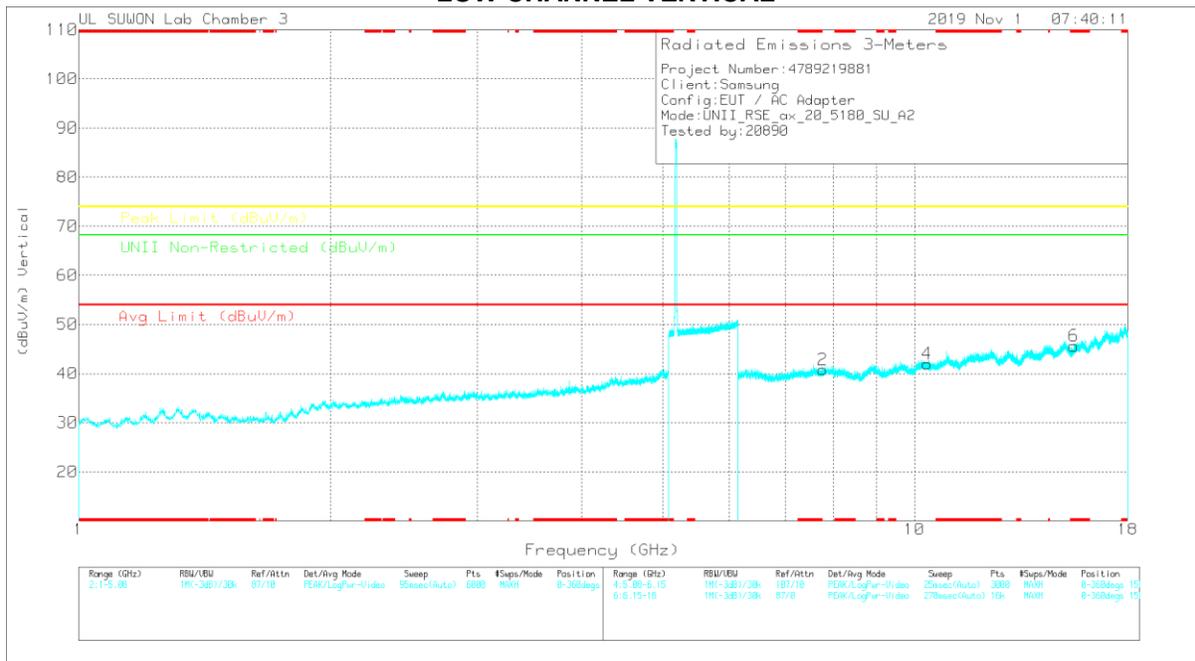
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak

HE20 SU mode (ANT\_2)

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 (MHz)	Meas Reading (dBu)	Det	3117_00205959	6GHz_HF98	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	LNH Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
1	7.77133	28.05	PK	35.9	-22.7	0	41.25	-	-	-	-	68.2	-26.95	0-360	150	H
3	10.33924	24.15	PK	37.6	-19	0	42.75	-	-	-	-	68.2	-25.45	0-360	150	H
5	* 15.52868	25.21	PK	40.2	-19.6	0	45.81	-	-	74	-28.19	-	-	0-360	150	H
2	7.78486	27.61	PK	36.9	-22.7	0	40.91	-	-	-	-	68.2	-27.39	0-360	250	V
4	10.35627	23.28	PK	37.6	-19.9	0	41.98	-	-	-	-	68.2	-26.22	0-360	250	V
6	* 15.51949	25.12	PK	40.1	-19.6	0	45.62	-	-	74	-28.38	-	-	0-360	250	V

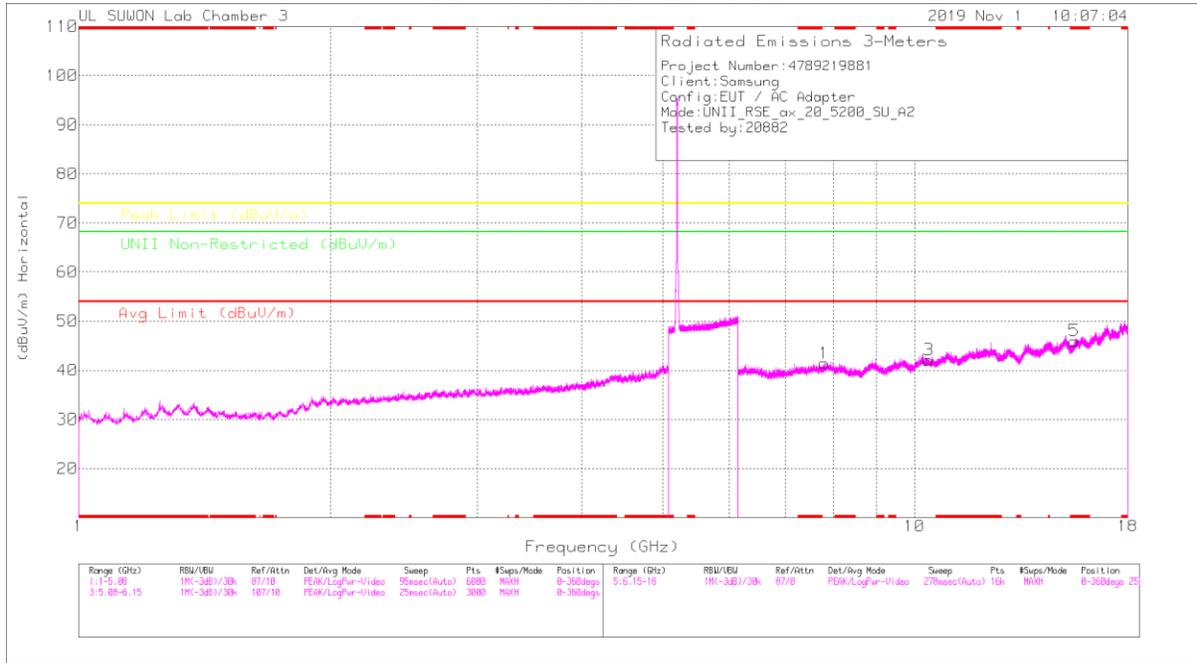
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK – Peak Detector

Radiated Emissions

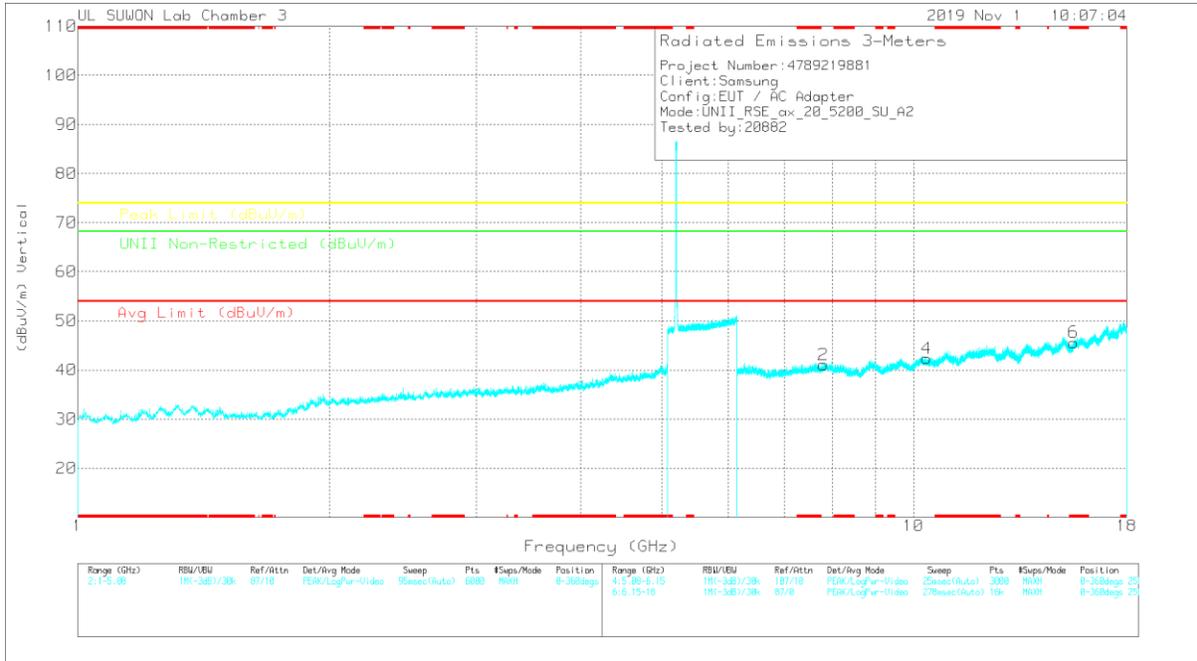
Frequency (MHz)	Meas Reading (dBu)	Det	3117_00205959	6GHz_HF98	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	LNH Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
7.77157	34.21	PK-U	35.9	-22.6	0	47.51	-	-	-	-	68.2	-20.69	360	100	H
7.77157	34.17	PK-U	35.9	-22.6	0	47.47	-	-	-	-	68.2	-20.73	360	100	V
10.33912	31.82	PK-U	37.6	-19	0	50.42	-	-	-	-	68.2	-17.78	360	100	H
10.33927	31.03	PK-U	37.6	-19	0	49.63	-	-	-	-	68.2	-18.57	360	100	V
* 15.53007	31.06	PK-U	40.2	-19.6	0	51.66	-	-	74	-22.34	-	-	360	100	H
* 15.53005	31.97	PK-U	40.2	-19.6	0	52.17	-	-	74	-21.83	-	-	360	100	V

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

**MID CHANNEL HORIZONTAL**



**MID CHANNEL VERTICAL**



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

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Mask Reading (dBm)	Det	3117_00205659	6GHz_HF(6B)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UML Non-Restricted (dBuV/m)	Margin (dB)	Asmuth (Deg)	Height (cm)	Polarity
1	7.8017	27.95	PK	35.9	-22.4	0	41.45	-	-	-	-	68.2	-26.75	0-360	250	H
3	10.39923	23.51	PK	37.6	-19	0	42.11	-	-	-	-	68.2	-26.09	0-360	150	H
5	* 15.5343	25.37	PK	40.2	-19.6	0	45.97	-	-	74	-28.03	-	-	0-360	150	H
2	7.80244	27.57	PK	35.9	-22.4	0	41.07	-	-	-	-	68.2	-27.13	0-360	149	V
4	10.37257	23.63	PK	37.6	-19.9	0	42.33	-	-	-	-	68.2	-25.87	0-360	149	V
6	* 15.54171	25	PK	40.2	-19.6	0	45.6	-	-	74	-28.4	-	-	0-360	149	V

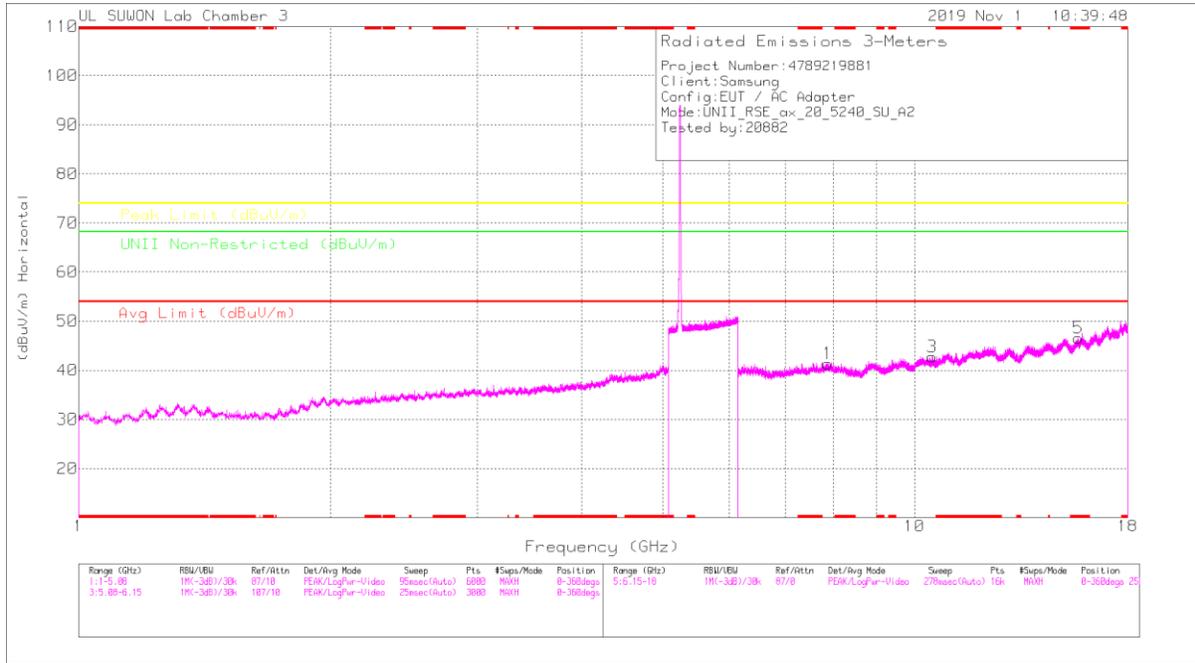
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK – Peak Detector

Radiated Emissions

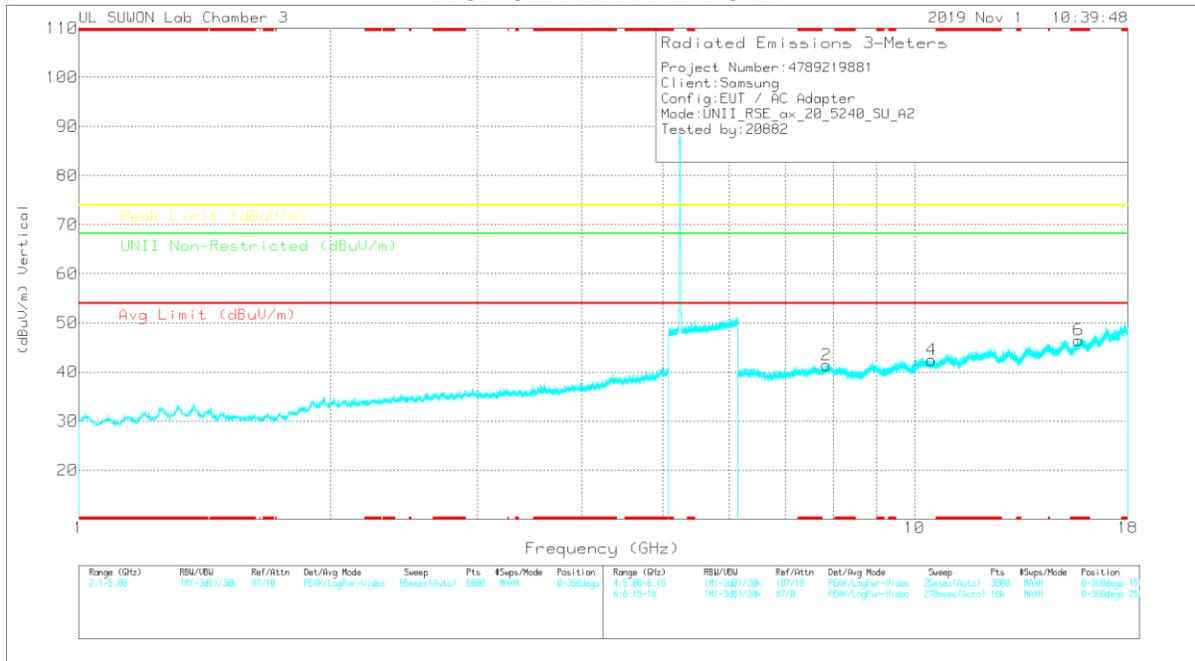
Frequency (GHz)	Mask Reading (dBuV)	Det	3117_00205659	6GHz_HF(6B)	DC Corr (dB)	Corrected Reading (dBuV)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UML Non-Restricted (dBuV/m)	Margin (dB)	Asmuth (Deg)	Height (cm)	Polarity
7.8017	36.89	PK-U	35.9	-22.4	0	50.39	-	-	-	-	68.2	-17.81	0	100	H
7.80127	37	PK-U	35.9	-22.4	0	50.5	-	-	-	-	68.2	-17.7	0	100	V
10.39925	33.9	PK-U	37.6	-19	0	52.5	-	-	-	-	68.2	-15.7	0	100	H
10.39928	33.28	PK-U	37.6	-19	0	51.88	-	-	-	-	68.2	-16.32	0	100	V
* 15.53417	34.82	PK-U	40.2	-19.6	0	55.42	-	-	74	-18.58	-	-	0	100	H
* 15.53426	34.71	PK-U	40.2	-19.6	0	55.31	-	-	74	-18.69	-	-	0	100	V

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

**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 (dBm)	Det	3117_0020959	6GHz_HF9dB	DC Corr (dB)	Corrected Reading (dBm)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (m)	Polarity
1	7.87576	27.28	PK	36	-21.9	0	41.38	-	-	-	-	68.2	-26.82	0-360	150	H
3	10.497	24.04	PK	37.7	-19	0	42.74	-	-	-	-	68.2	-25.46	0-360	150	H
5	* 15.71503	25.36	PK	40.4	-19.2	0	46.56	-	-	74	-27.44	-	-	0-360	250	H
2	7.8526	27.82	PK	35.9	-22.1	0	41.42	-	-	-	-	68.2	-26.78	0-360	250	V
4	10.4927	23.82	PK	37.7	-19.1	0	42.62	-	-	-	-	68.2	-25.78	0-360	150	V
6	* 15.71947	25.28	PK	40.4	-19.2	0	46.48	-	-	74	-27.52	-	-	0-360	250	V

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

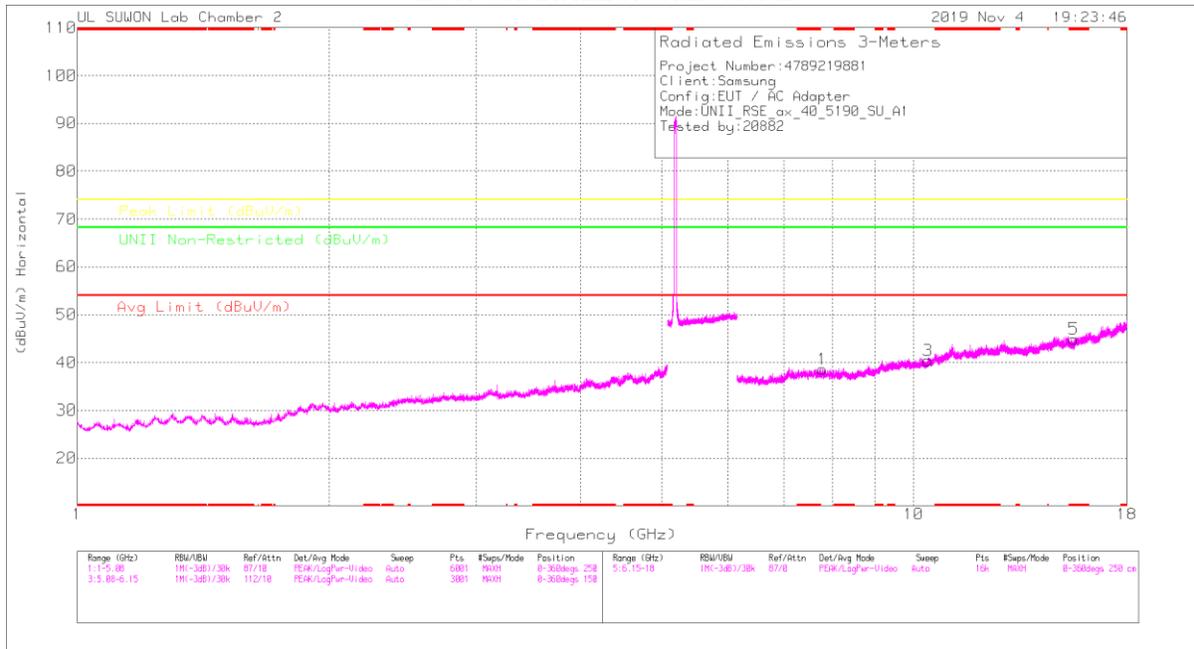
**Radiated Emissions**

Frequency (GHz)	Marker Reading (dBuV)	Det	3117_0020959	6GHz_HF9dB	DC Corr (dB)	Corrected Reading (dBuV)	Avg Limt (dBuV/m)	Margin (dB)	Peak Limt (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (m)	Polarity
7.87555	37.01	PK-U	36	-21.9	0	51.11	-	-	-	-	68.2	-17.09	0	100	H
7.87597	36.72	PK-U	36	-21.9	0	50.82	-	-	-	-	68.2	-17.38	0	100	V
10.4969	33.45	PK-U	37.7	-19	0	52.19	-	-	-	-	68.2	-15.02	0	100	H
10.49716	33.77	PK-U	37.7	-19	0	52.47	-	-	-	-	68.2	-15.73	0	100	V
* 15.71505	34.38	PK-U	40.4	-19.2	0	55.58	-	-	74	-18.42	-	-	0	100	H
* 15.71479	34.8	PK-U	40.4	-19.2	0	56	-	-	74	-18	-	-	0	100	V

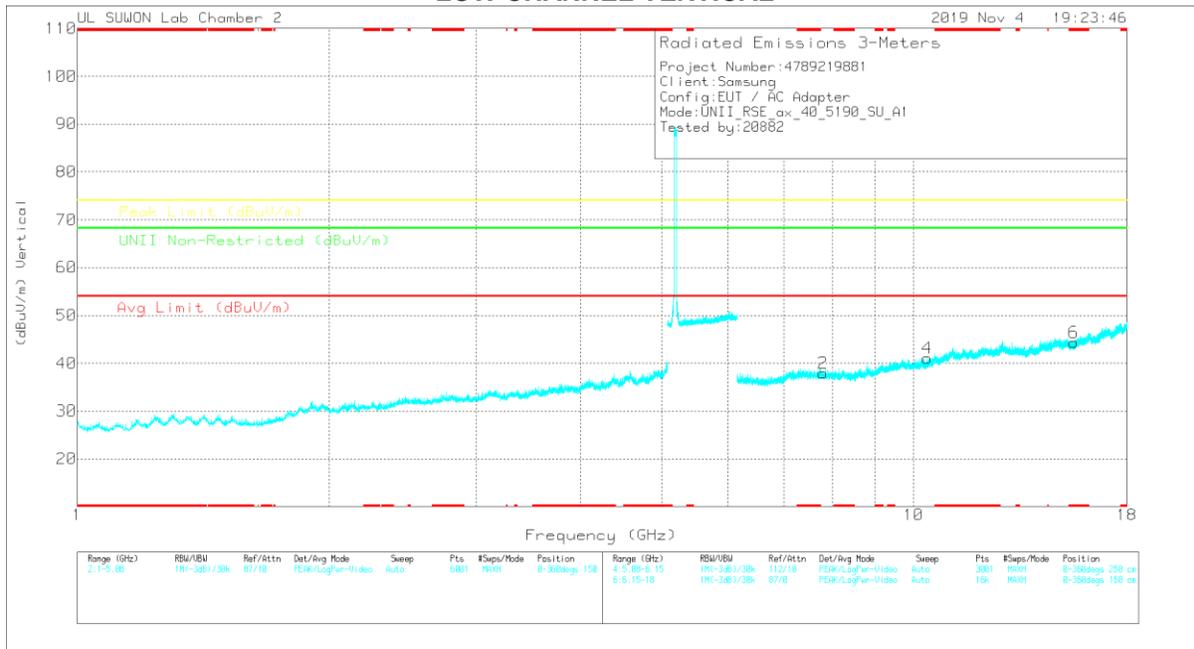
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak

HE40 SU mode (ANT\_1)

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 (dBu)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBu/m)	Avg Limt (dBu/m)	Margin (dB)	Peak Limt (dBu/m)	Margin (dB)	UNE Non-Restricted (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	7.7815	26.21	PK	36	-23.6	0	36.61	-	-	-	-	68.2	-29.59	0-360	250	H
3	10.39944	23.49	PK	37.6	-20.7	0	40.39	-	-	-	-	68.2	-27.81	0-360	250	H
5	* 15.56946	24.62	PK	40	-19.7	0	44.62	-	-	74	-29.08	-	-	0-360	150	H
2	7.78483	25.67	PK	36	-23.7	0	37.97	-	-	-	-	68.2	-30.23	0-360	250	H
4	10.39722	24.21	PK	37.6	-20.7	0	41.11	-	-	-	-	68.2	-27.09	0-360	250	V
6	* 15.56239	23.89	PK	40	-19.6	0	44.29	-	-	74	-29.71	-	-	0-360	250	V

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

Radiated Emissions

Frequency (GHz)	Meas Reading (dBu/m)	Det	3117_00168724	6GHz_HF(dB)	DC Corr (dB)	Corrected Reading (dBu/m)	Avg Limt (dBu/m)	Margin (dB)	Peak Limt (dBu/m)	Margin (dB)	UNE Non-Restricted (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
7.77995	35.34	PK-U	36	-23.6	0	47.74	-	-	-	-	68.2	-20.46	360	100	H
7.78305	36.22	PK-U	36	-23.7	0	48.52	-	-	-	-	68.2	-19.68	360	100	V
10.40142	34	PK-U	37.6	-20.7	0	50.9	-	-	-	-	68.2	-17.3	360	100	H
10.39771	34.02	PK-U	37.6	-20.7	0	50.02	-	-	-	-	68.2	-17.28	360	100	V
* 15.56704	33.87	PK-U	40	-19.7	0	54.17	-	-	74	-19.83	-	-	360	100	H
* 15.56765	33.87	PK-U	40	-19.6	0	54.27	-	-	74	-19.73	-	-	360	100	V

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