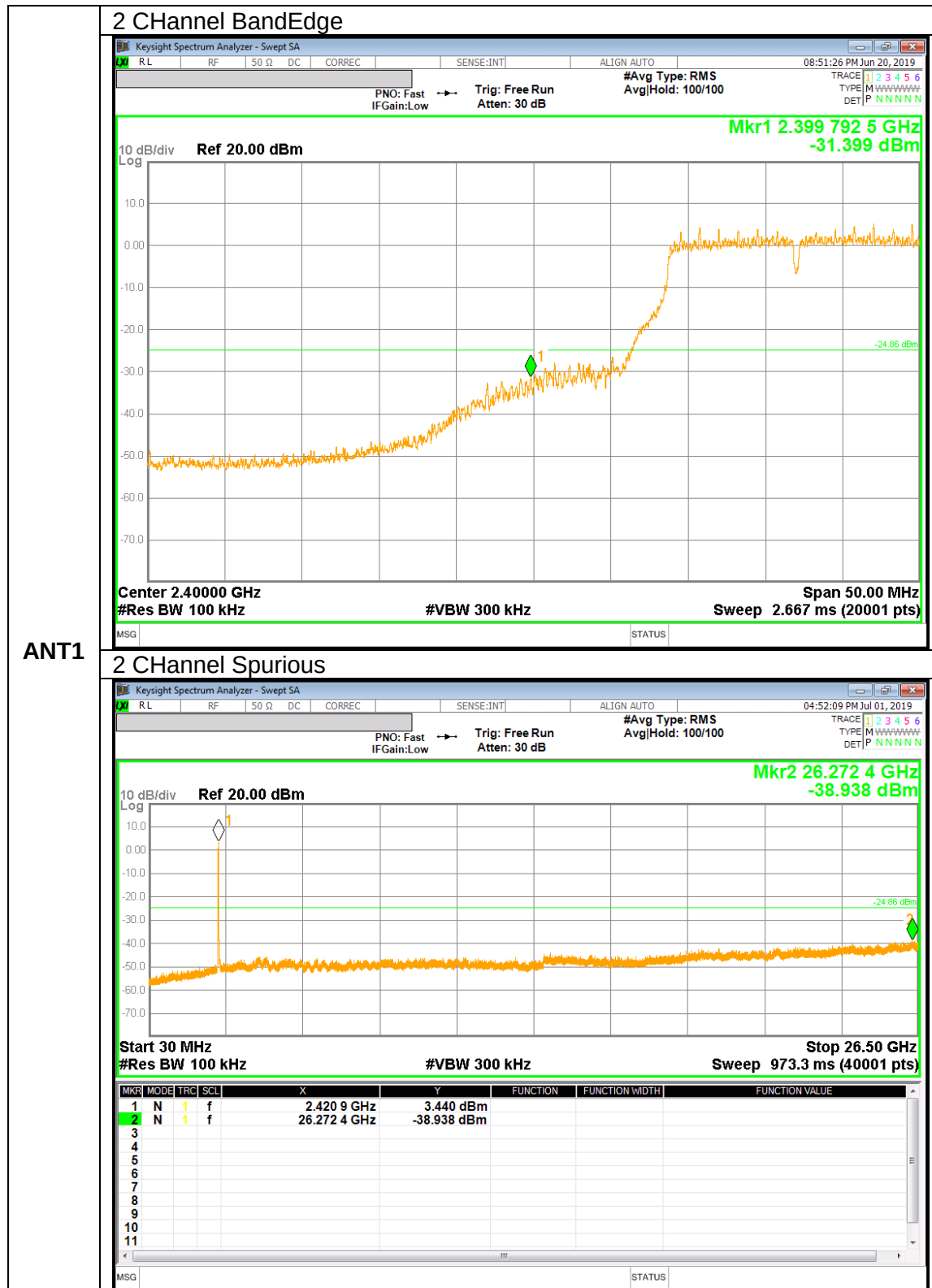
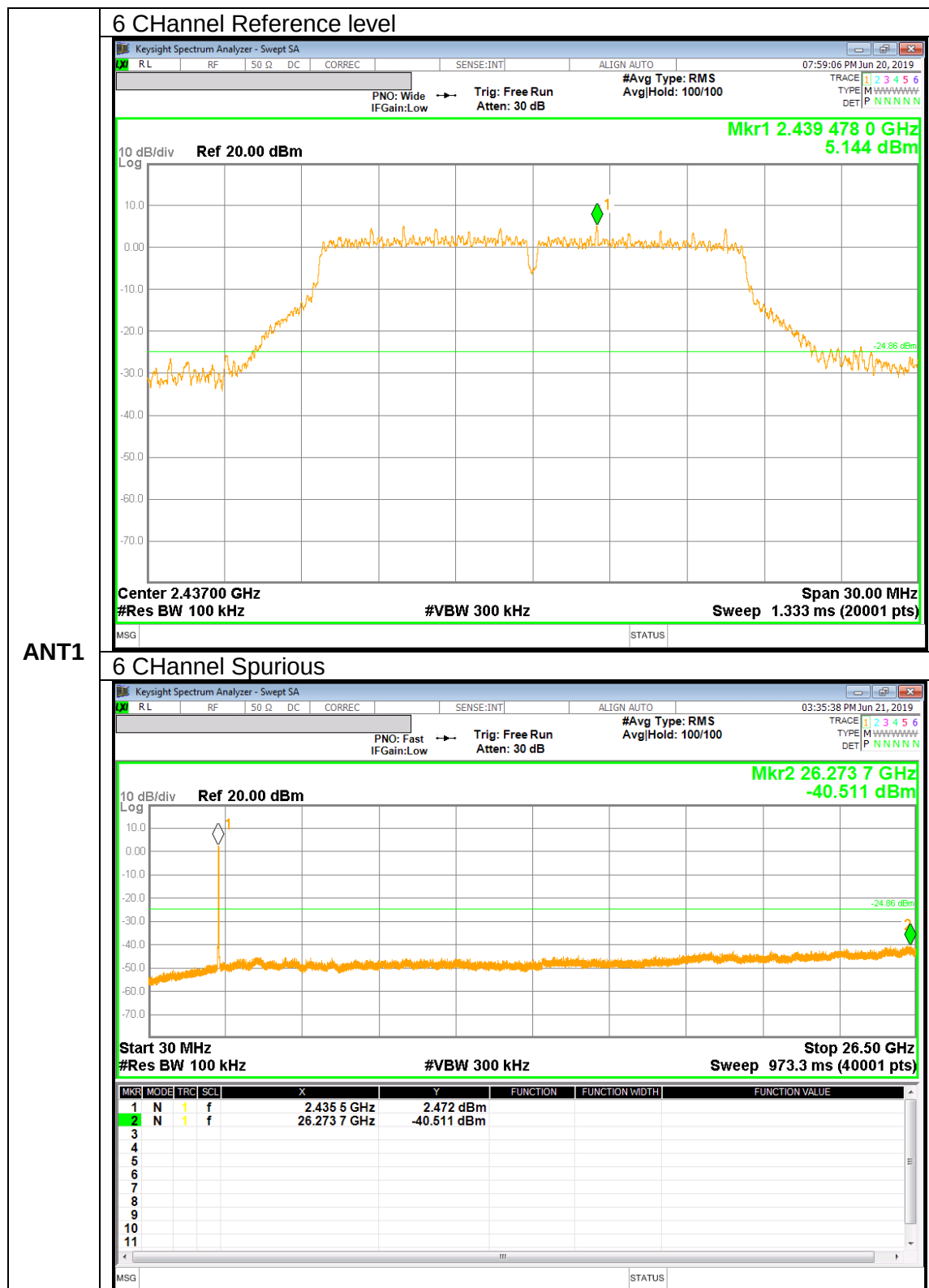


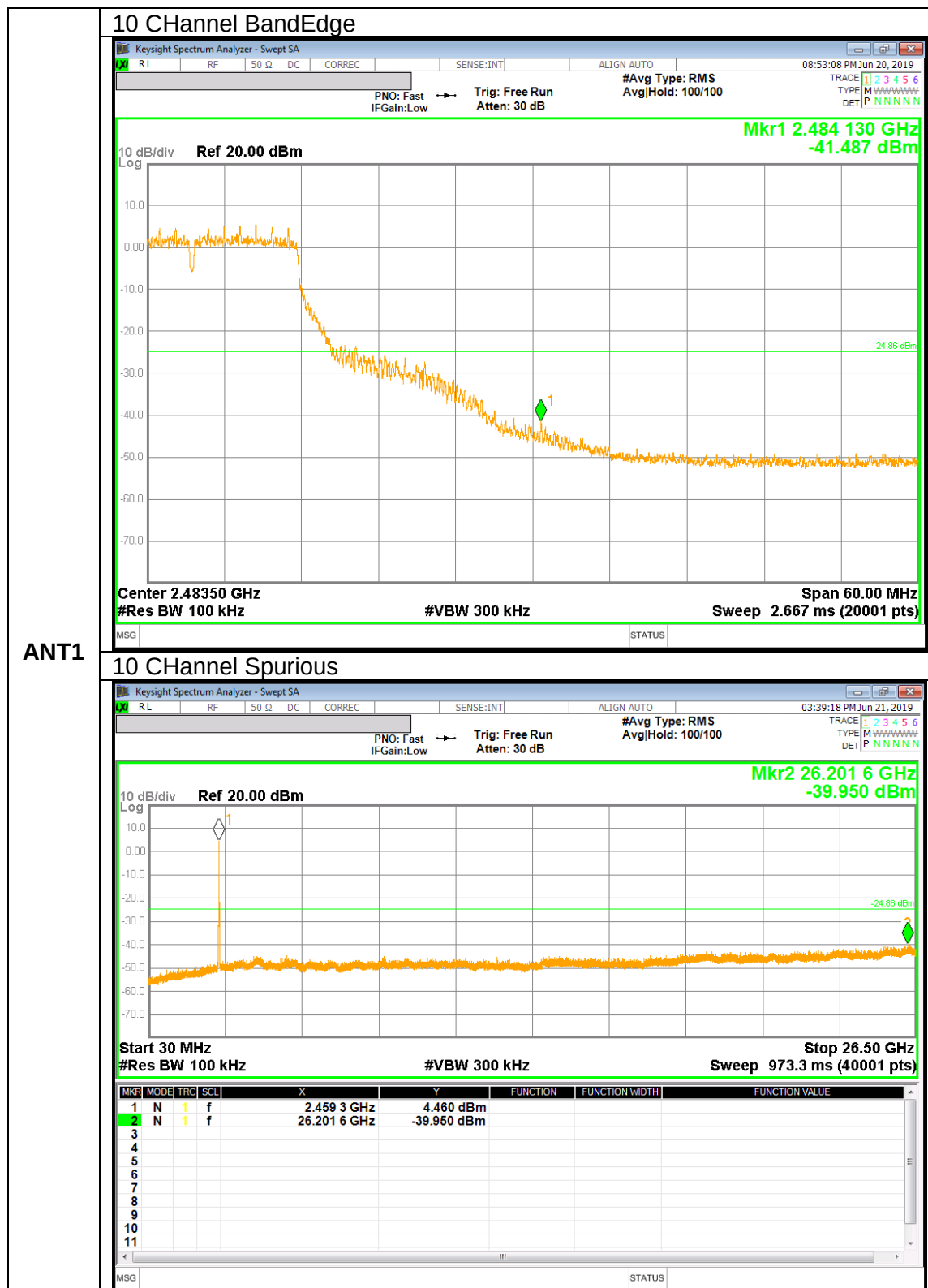
10.4.2. 802.11g MODE IN THE 2.4 GHz BAND



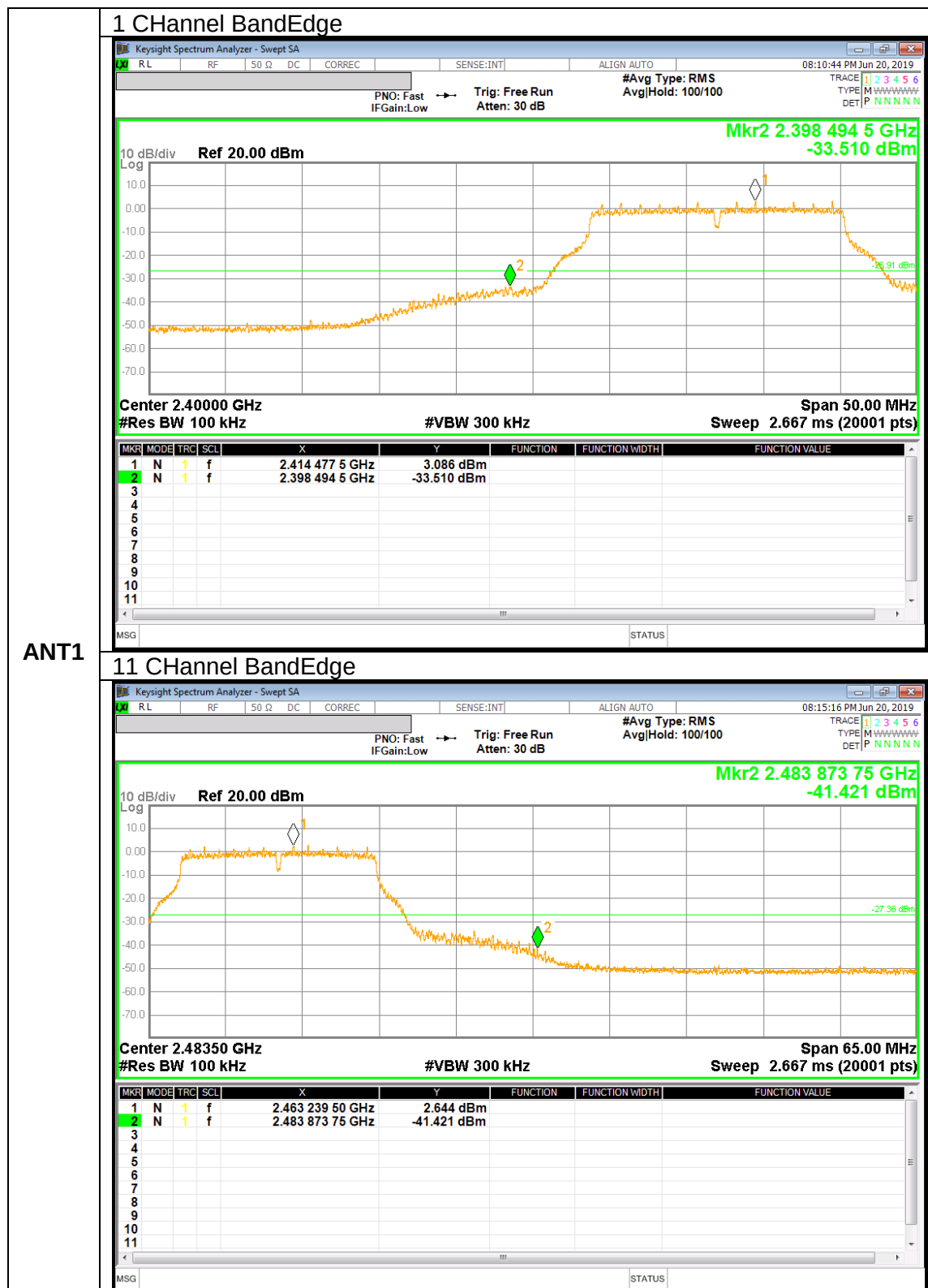
ANT1



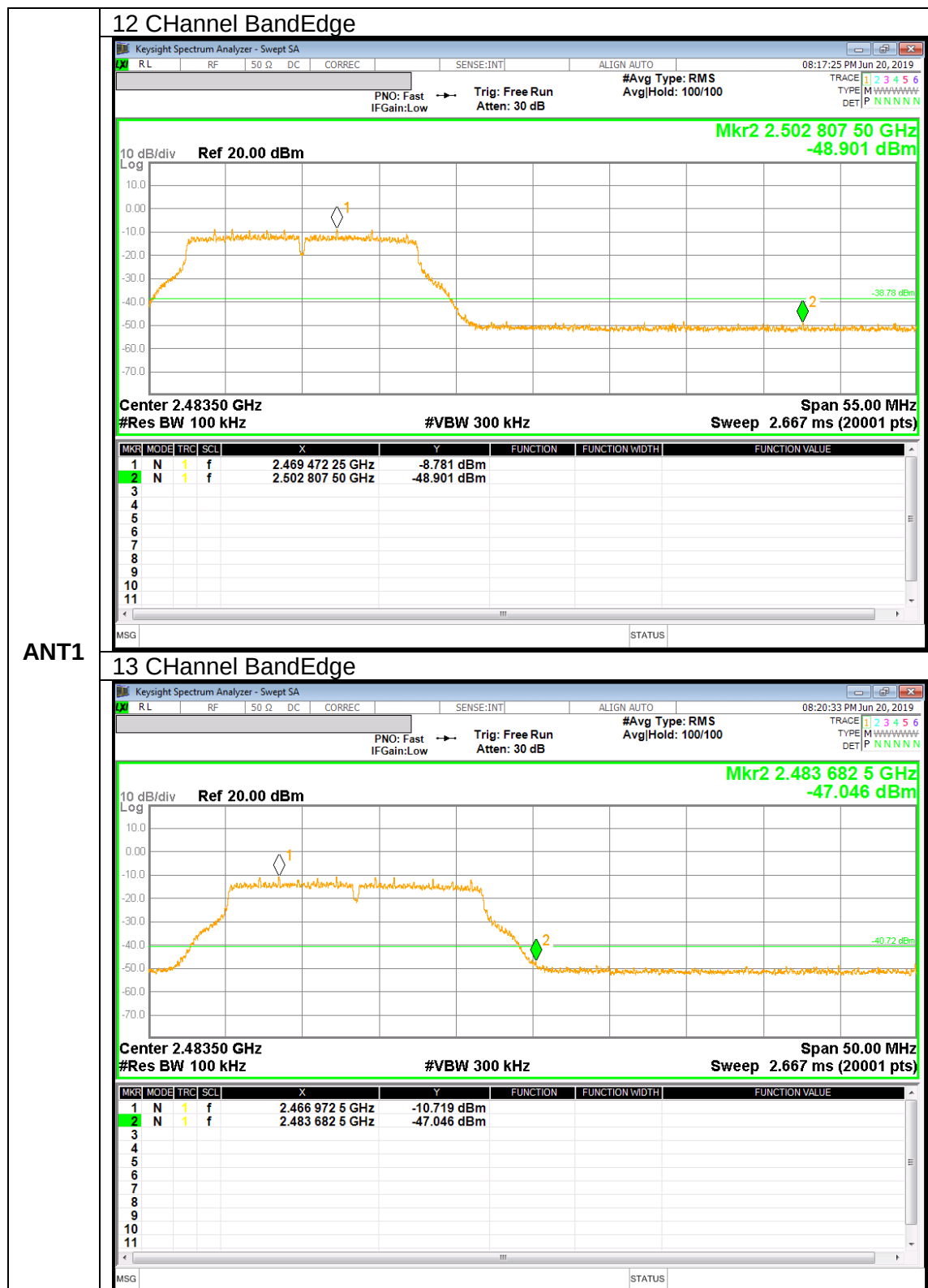
ANT1



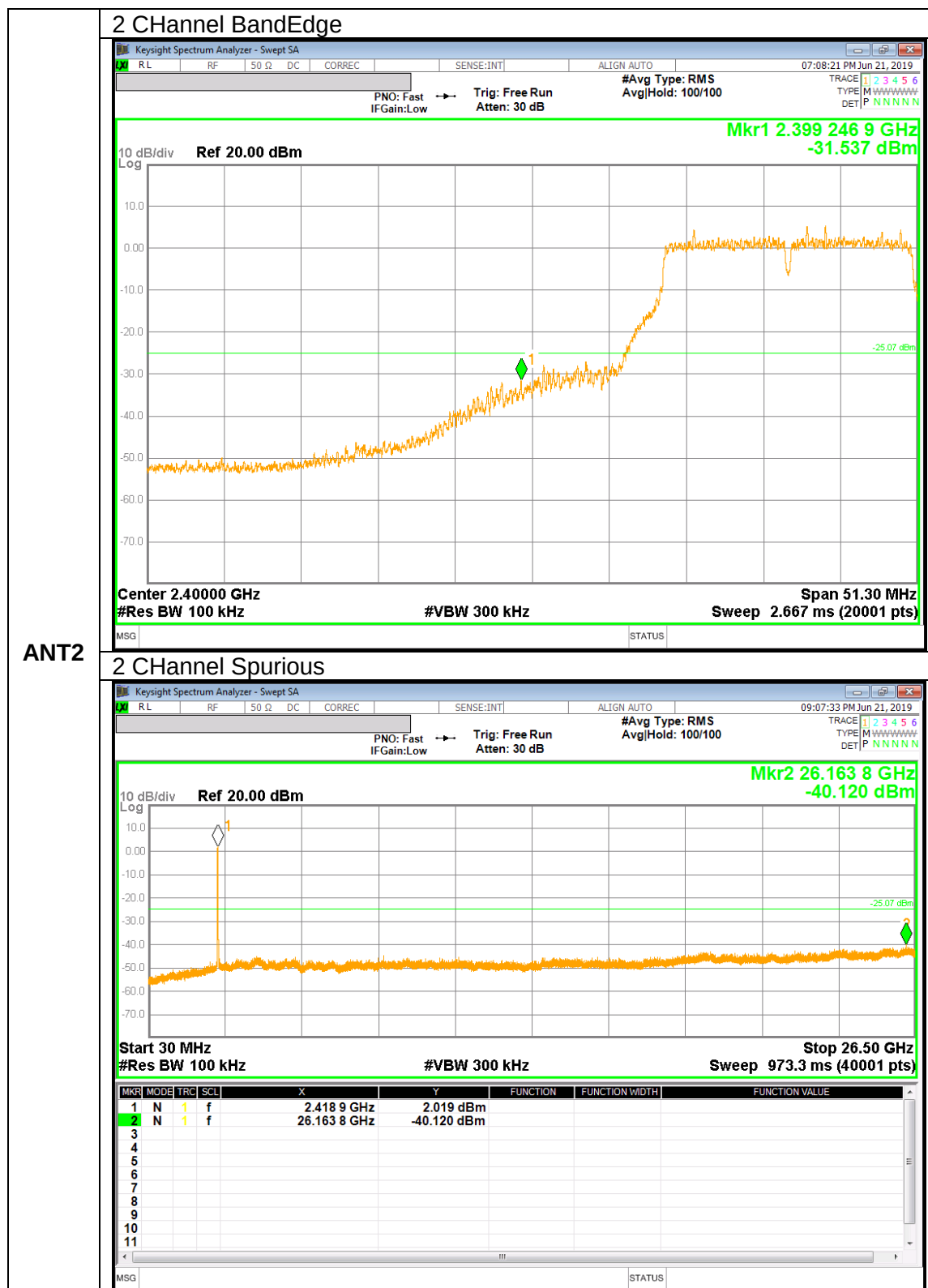
ANT1



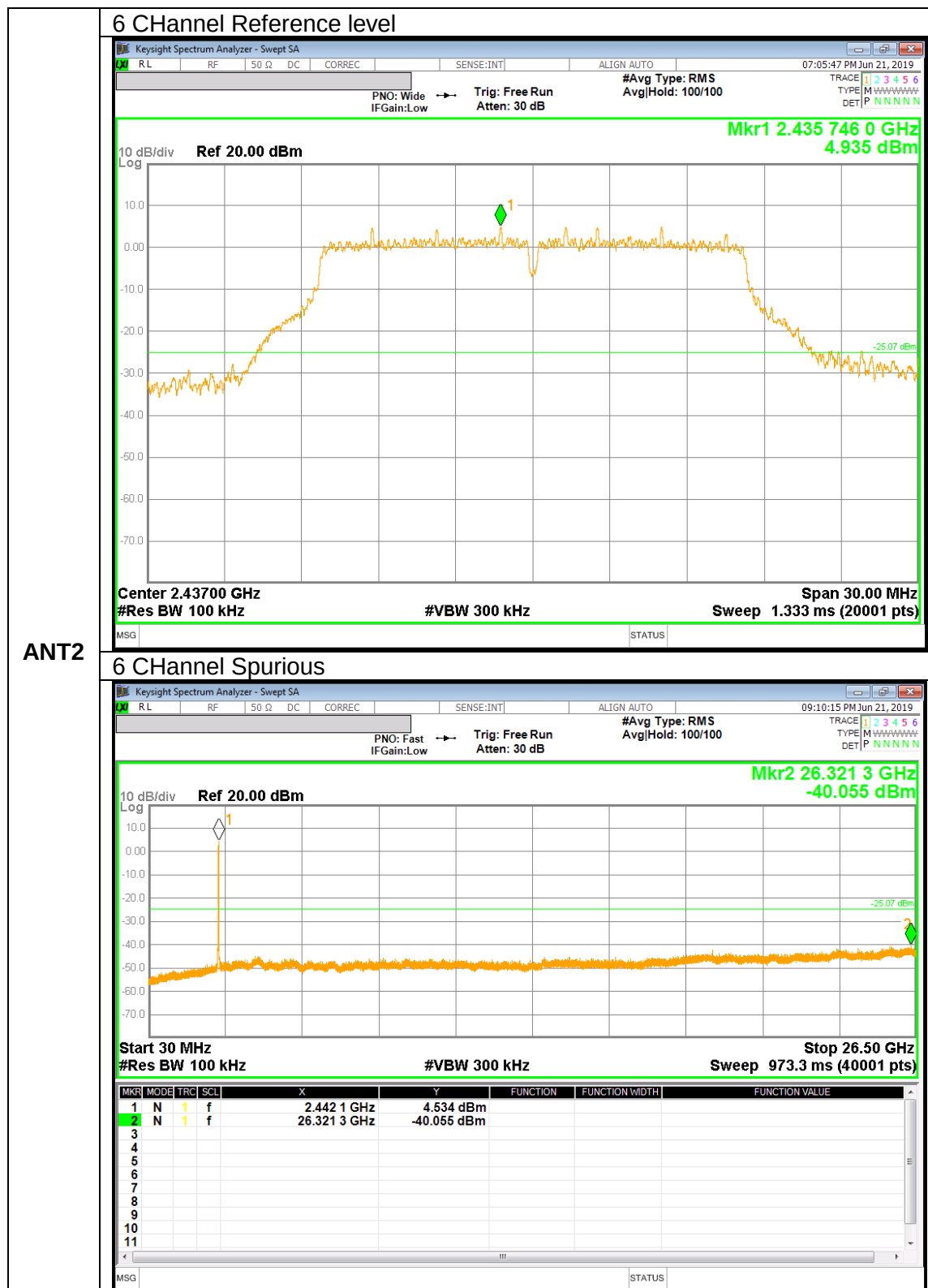
ANT1

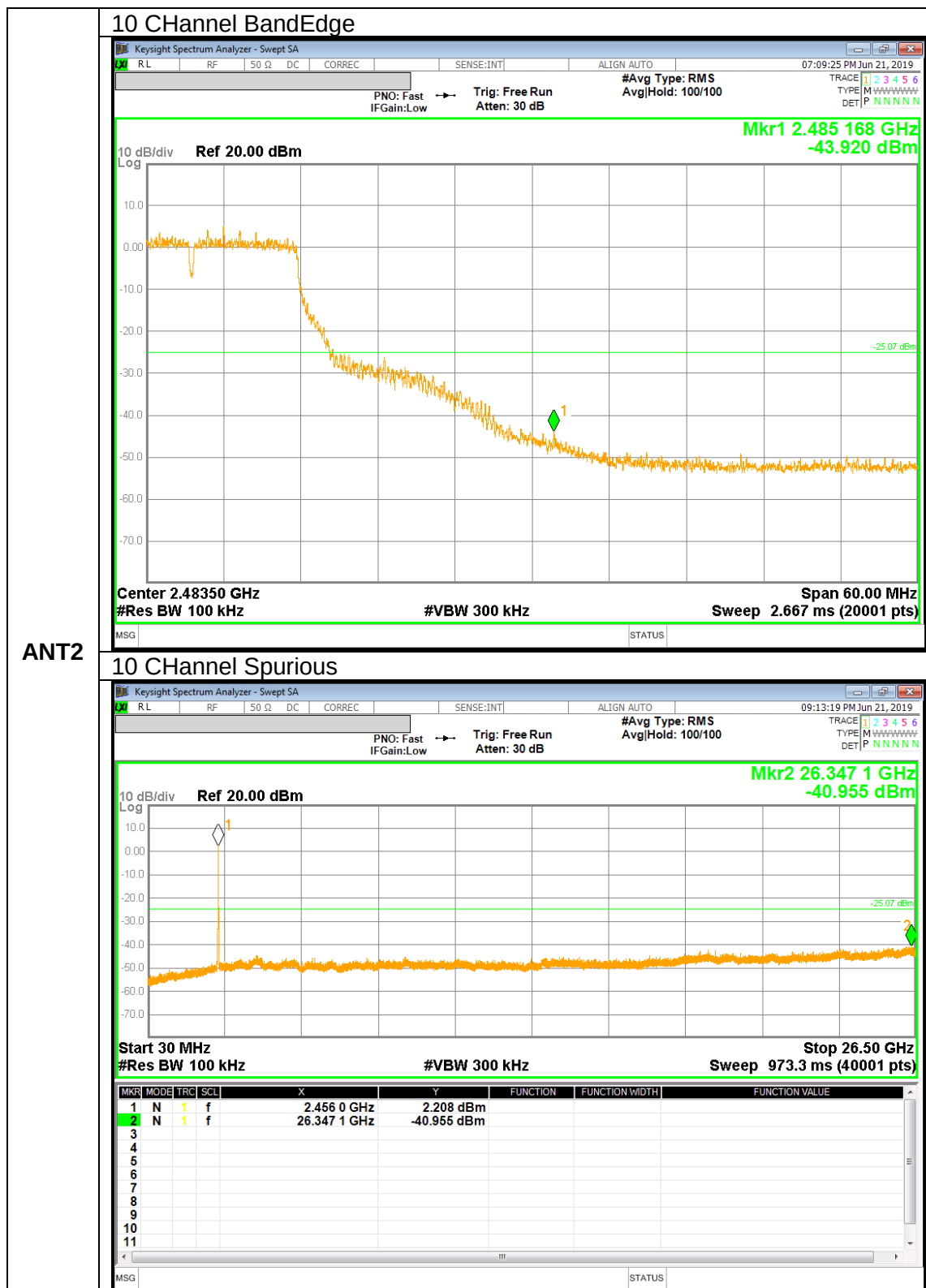


ANT1

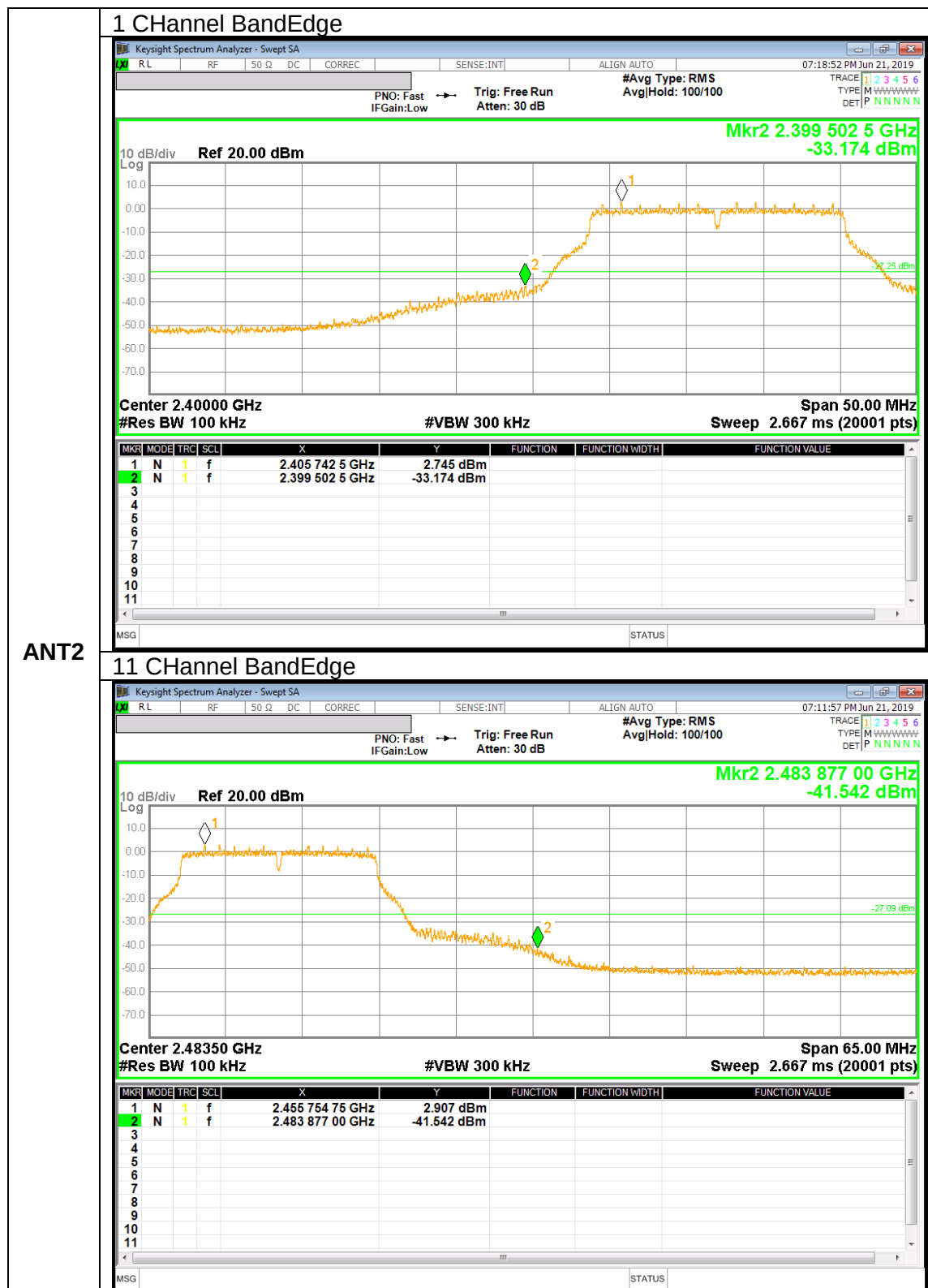


ANT2

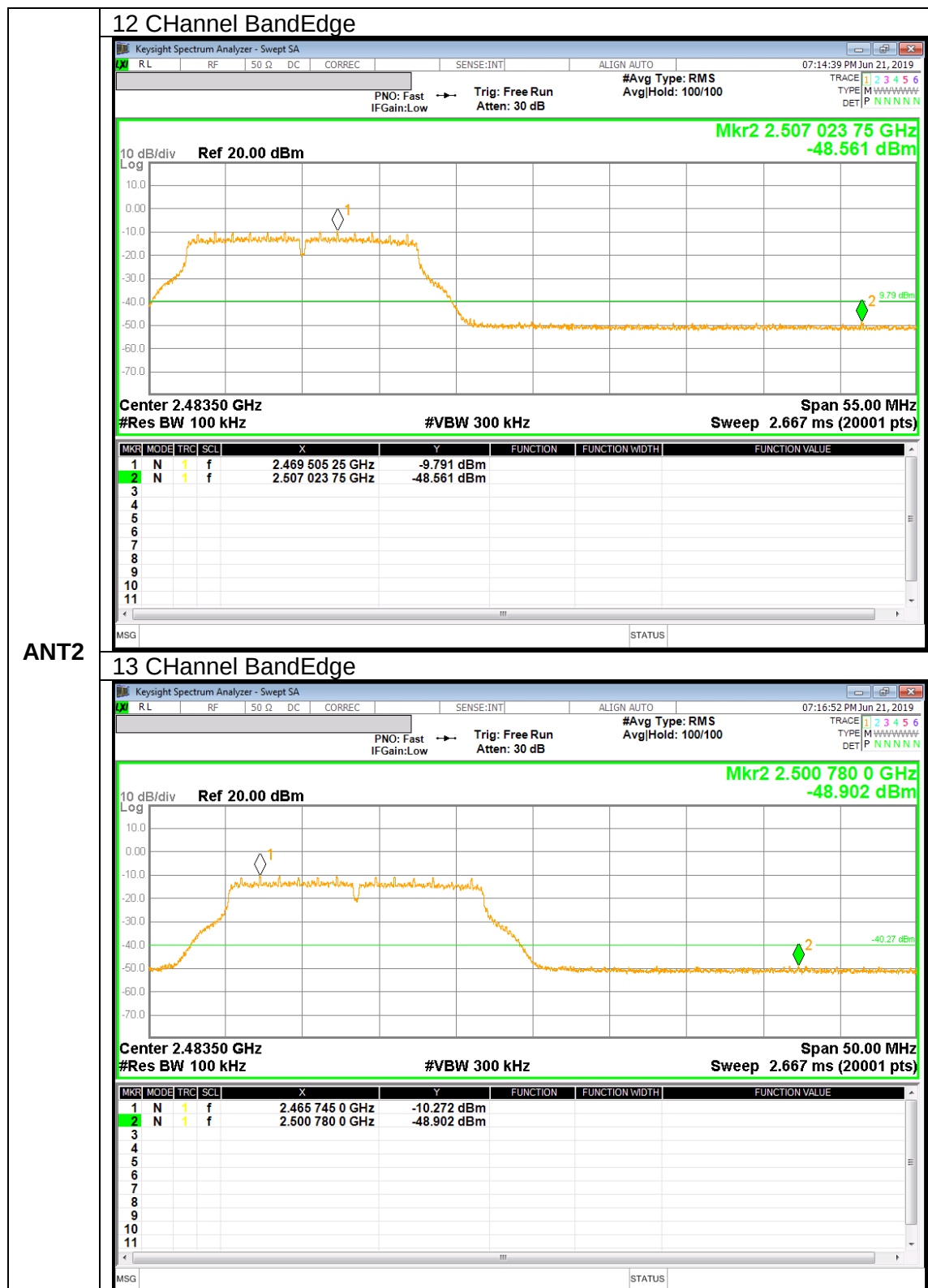




ANT2

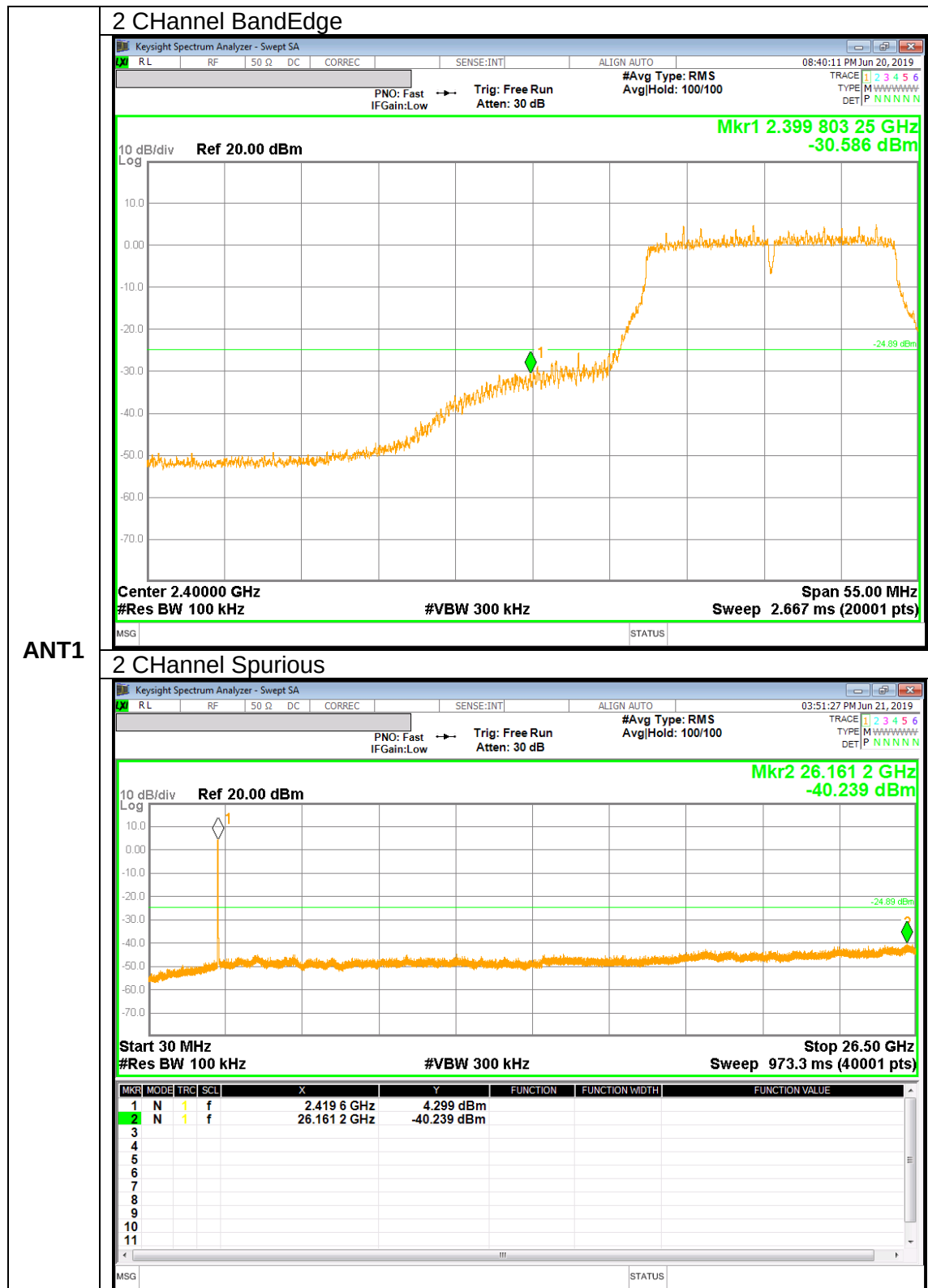


ANT2

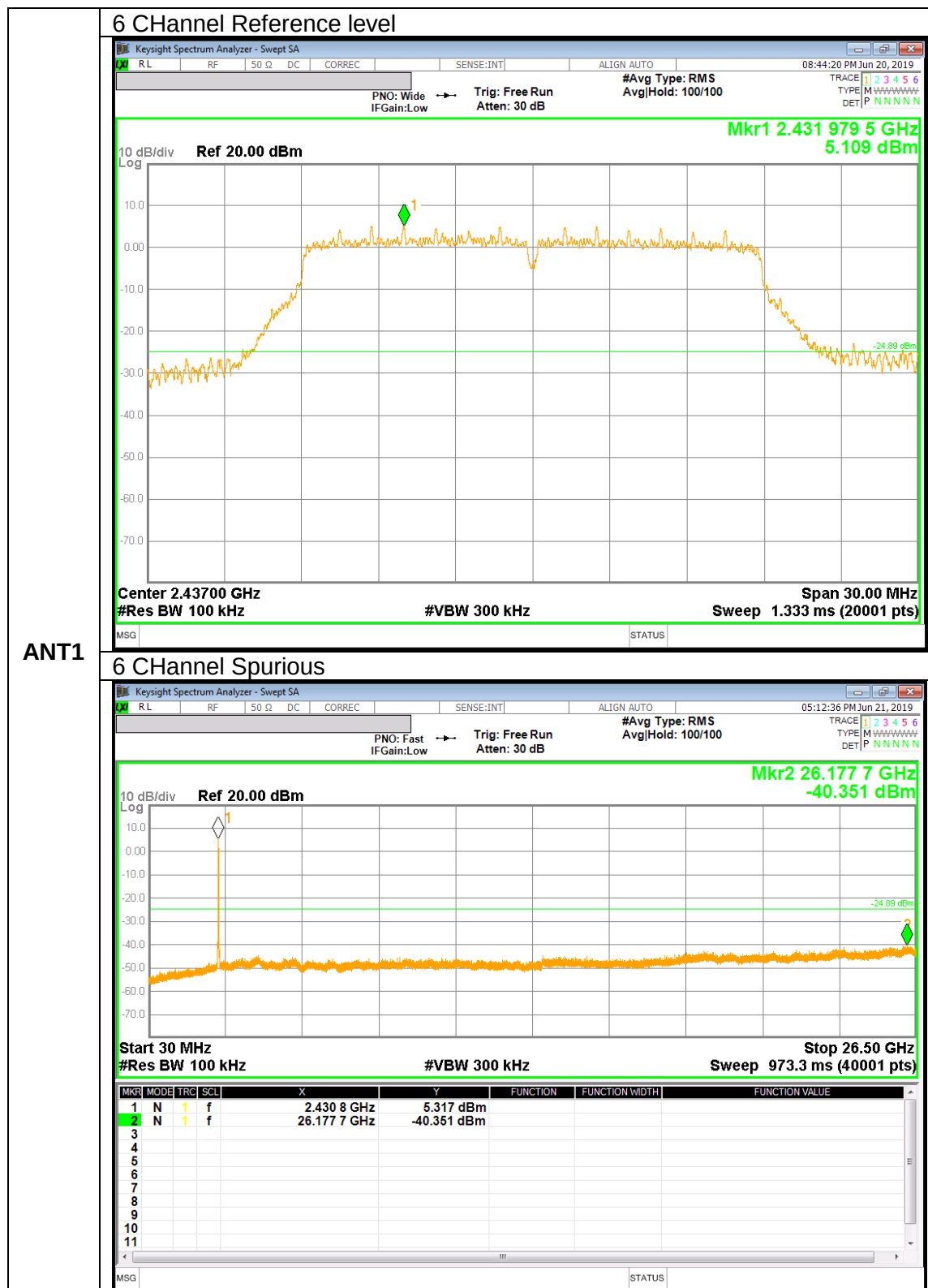


ANT2

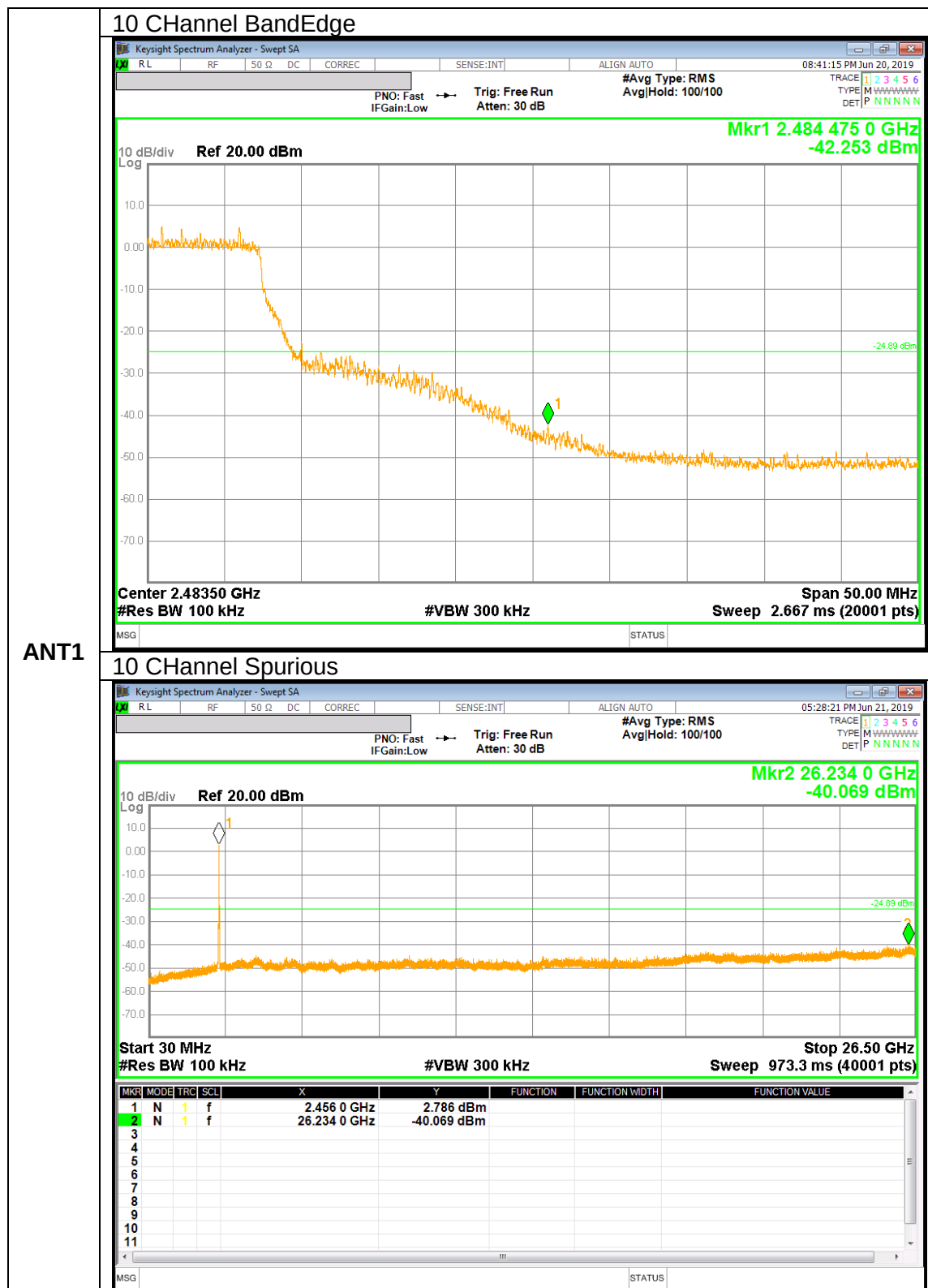
10.4.1. 802.11n HT20 MODE IN THE 2.4 GHz BAND



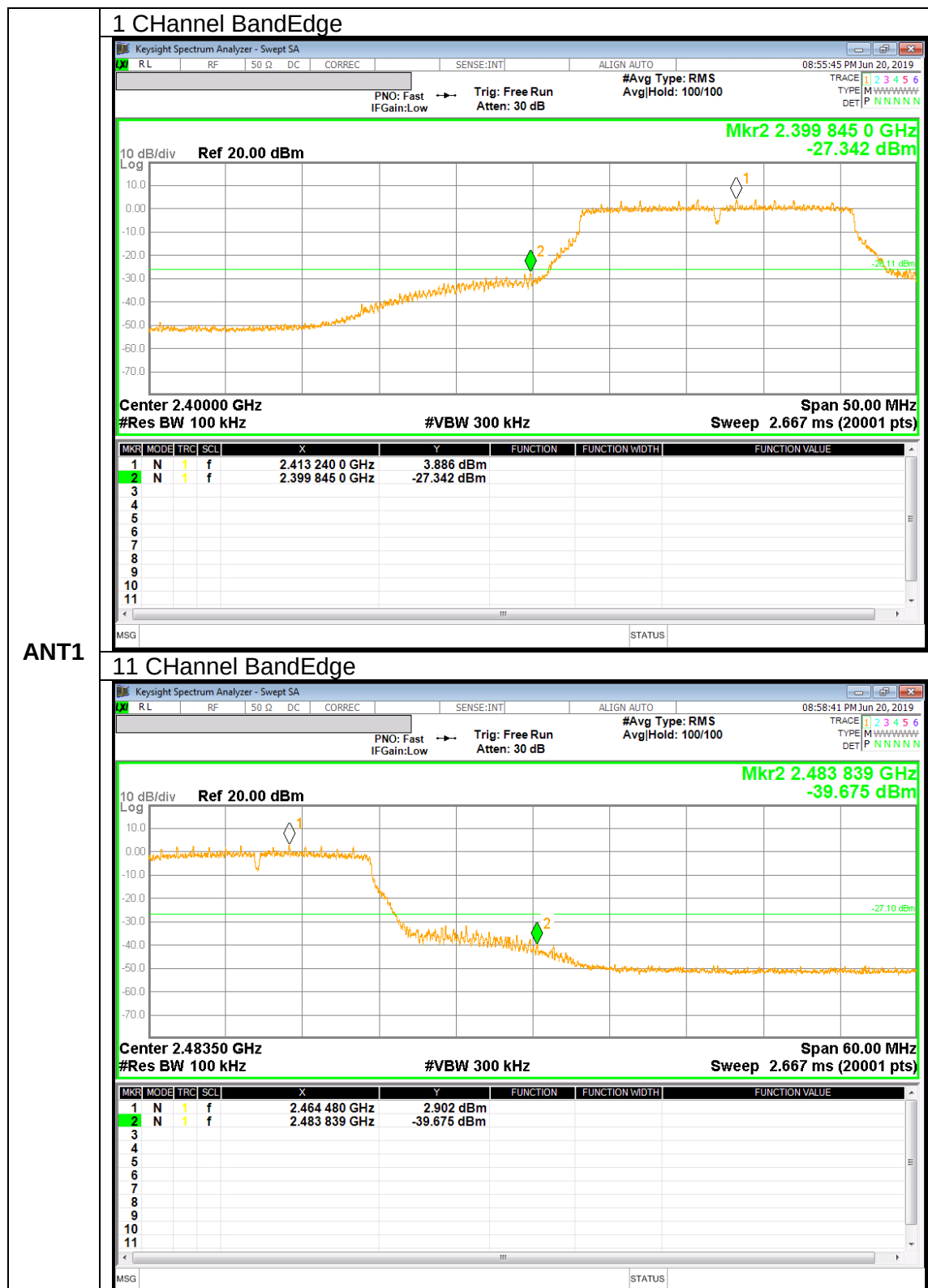
ANT1



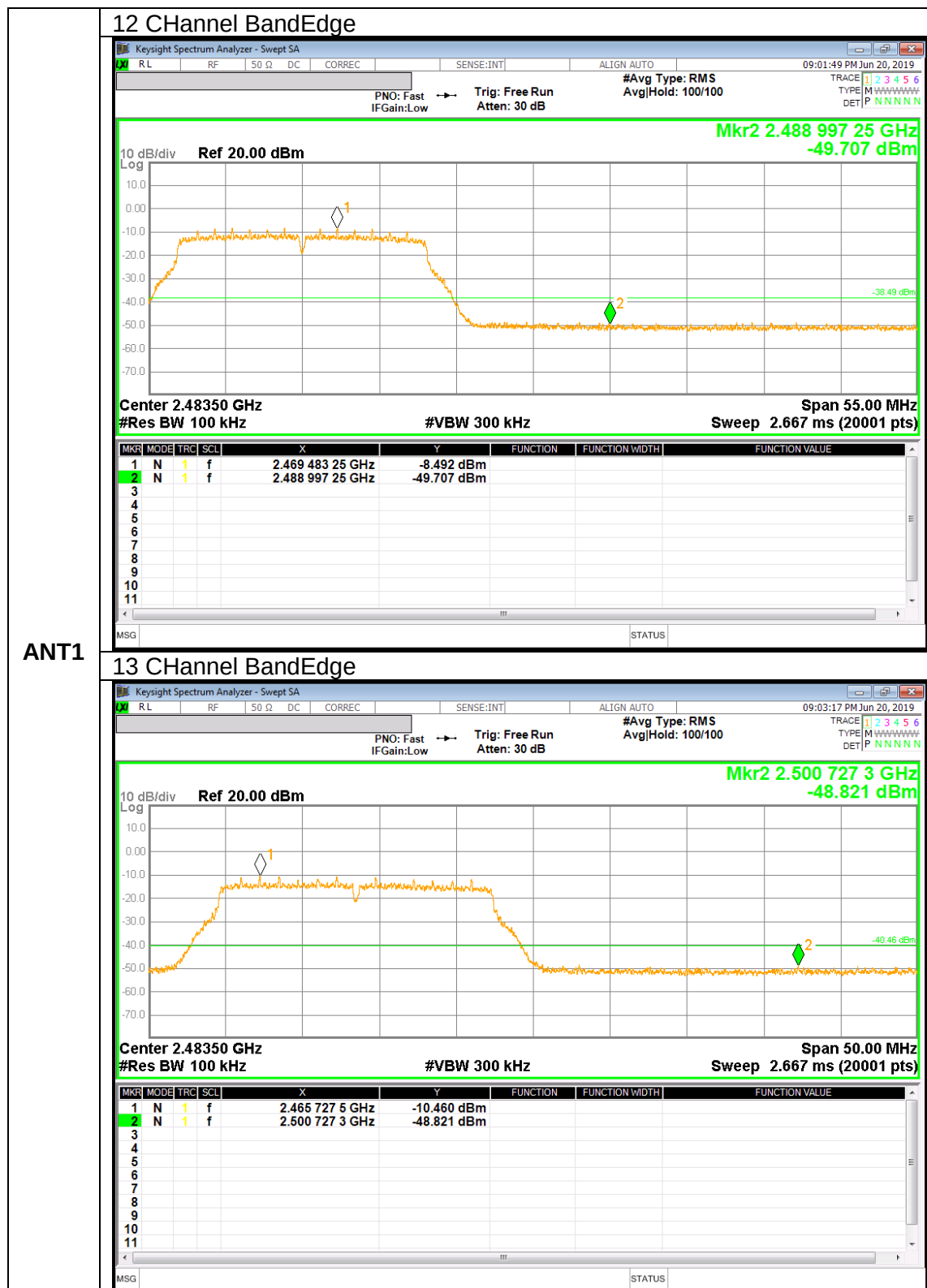
ANT1



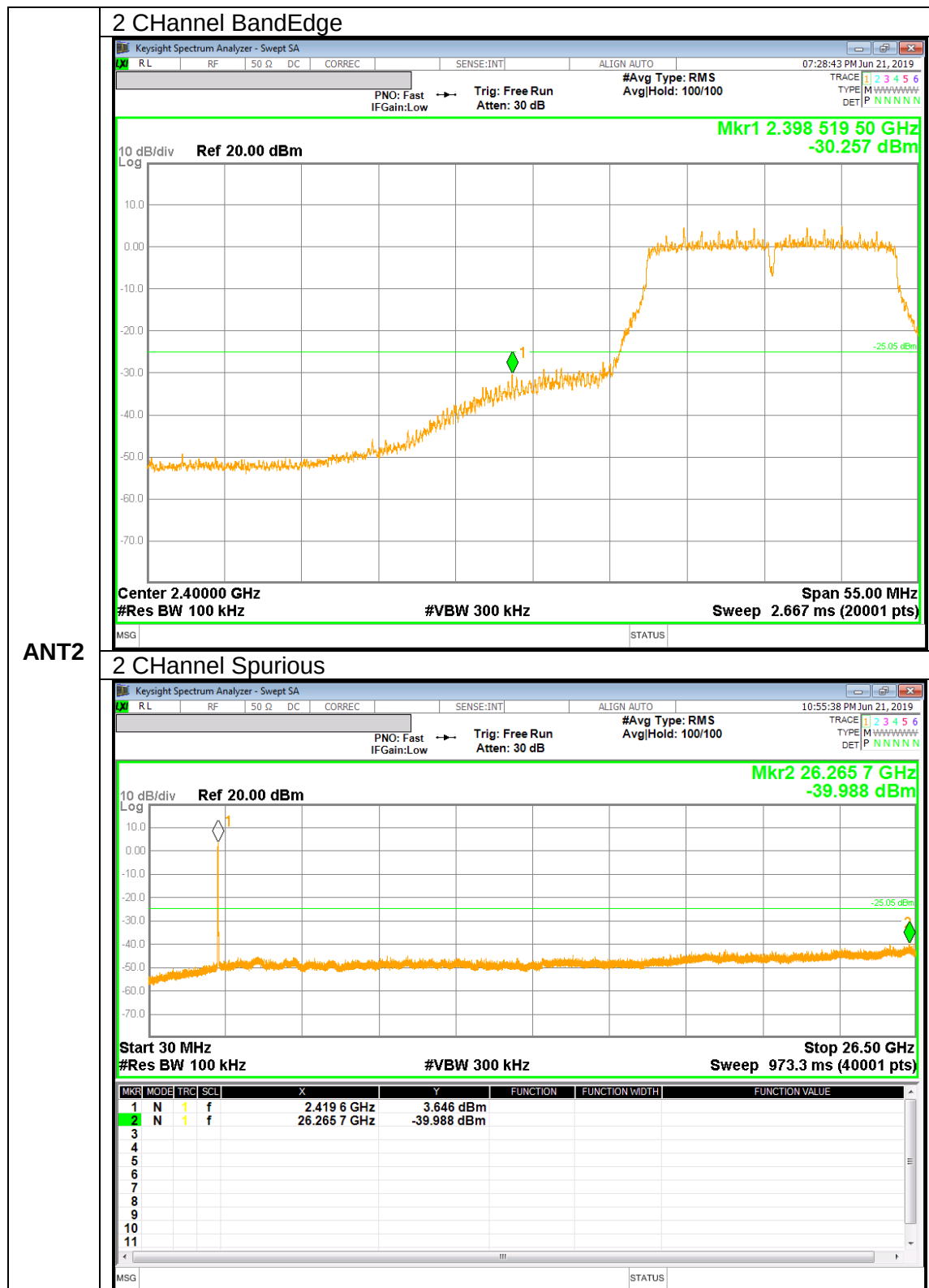
ANT1

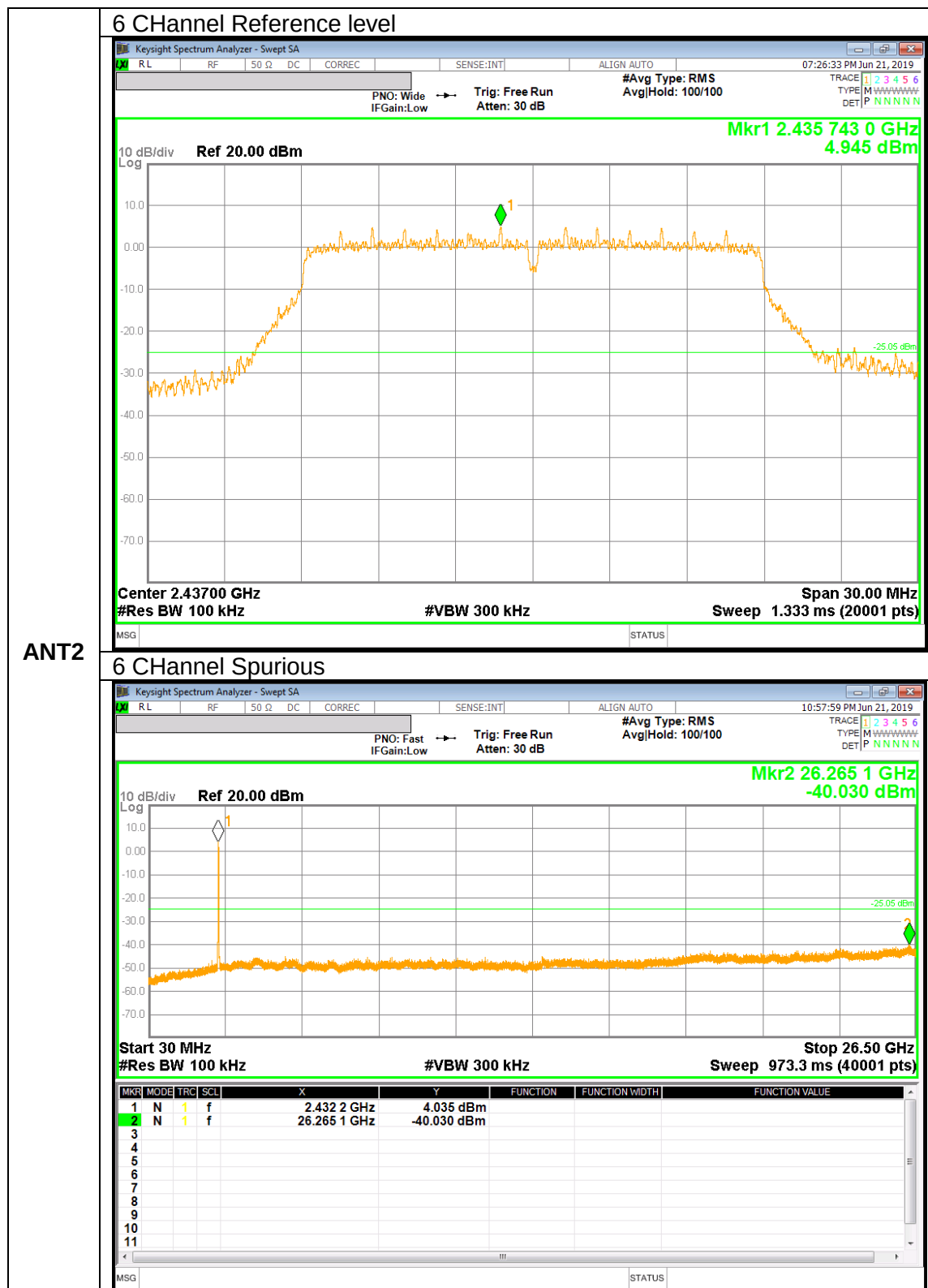


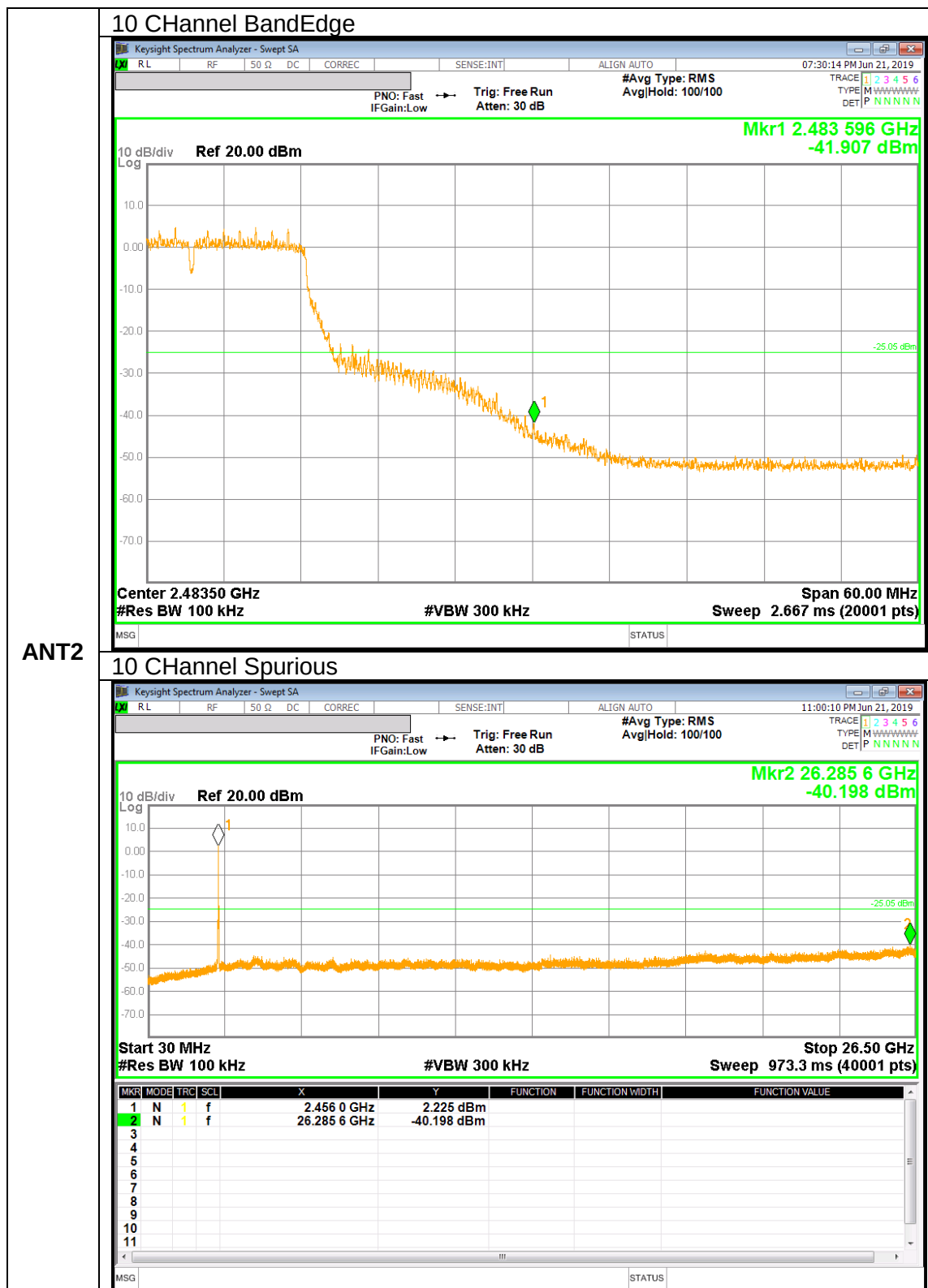
ANT1



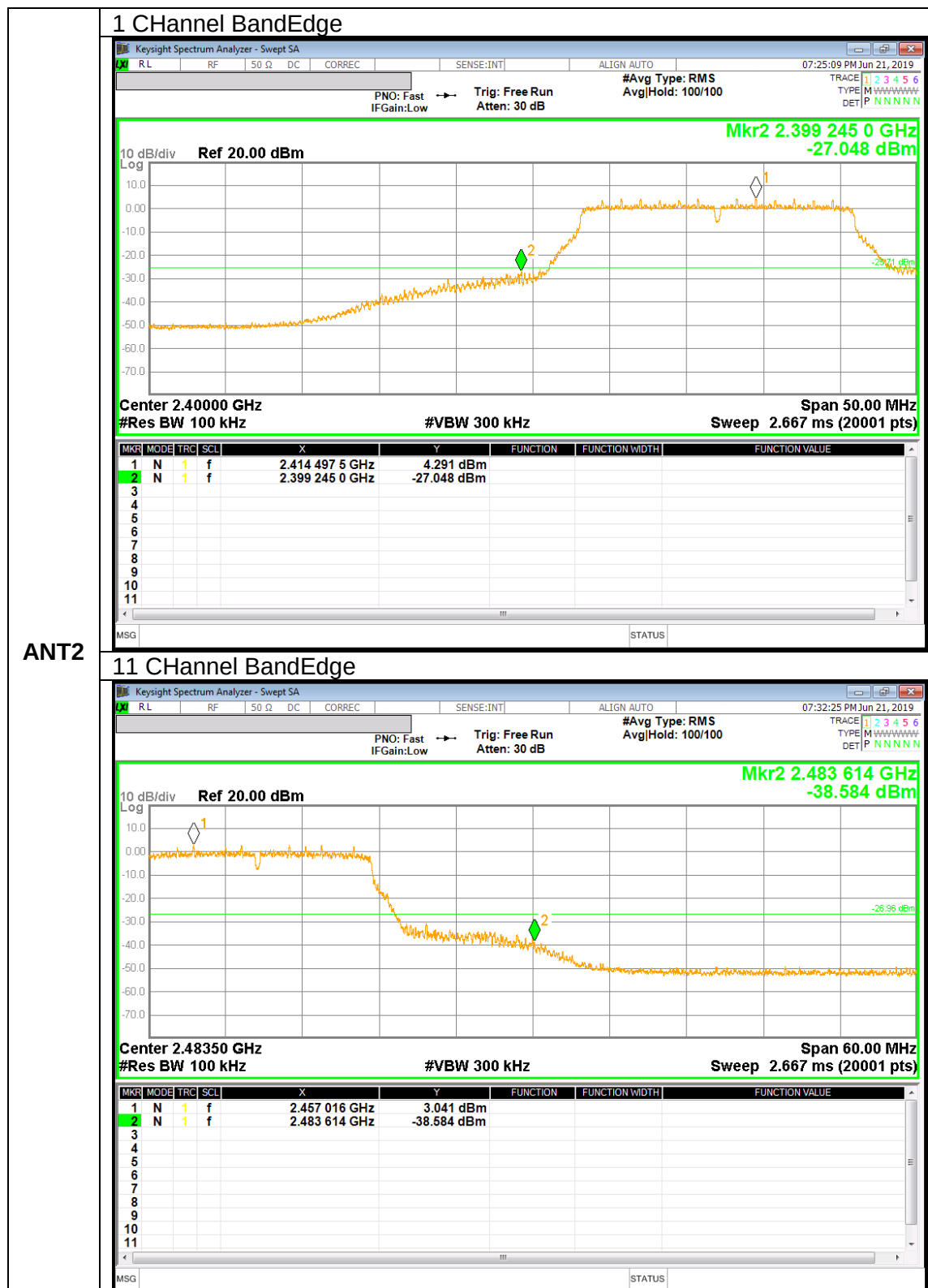
ANT1



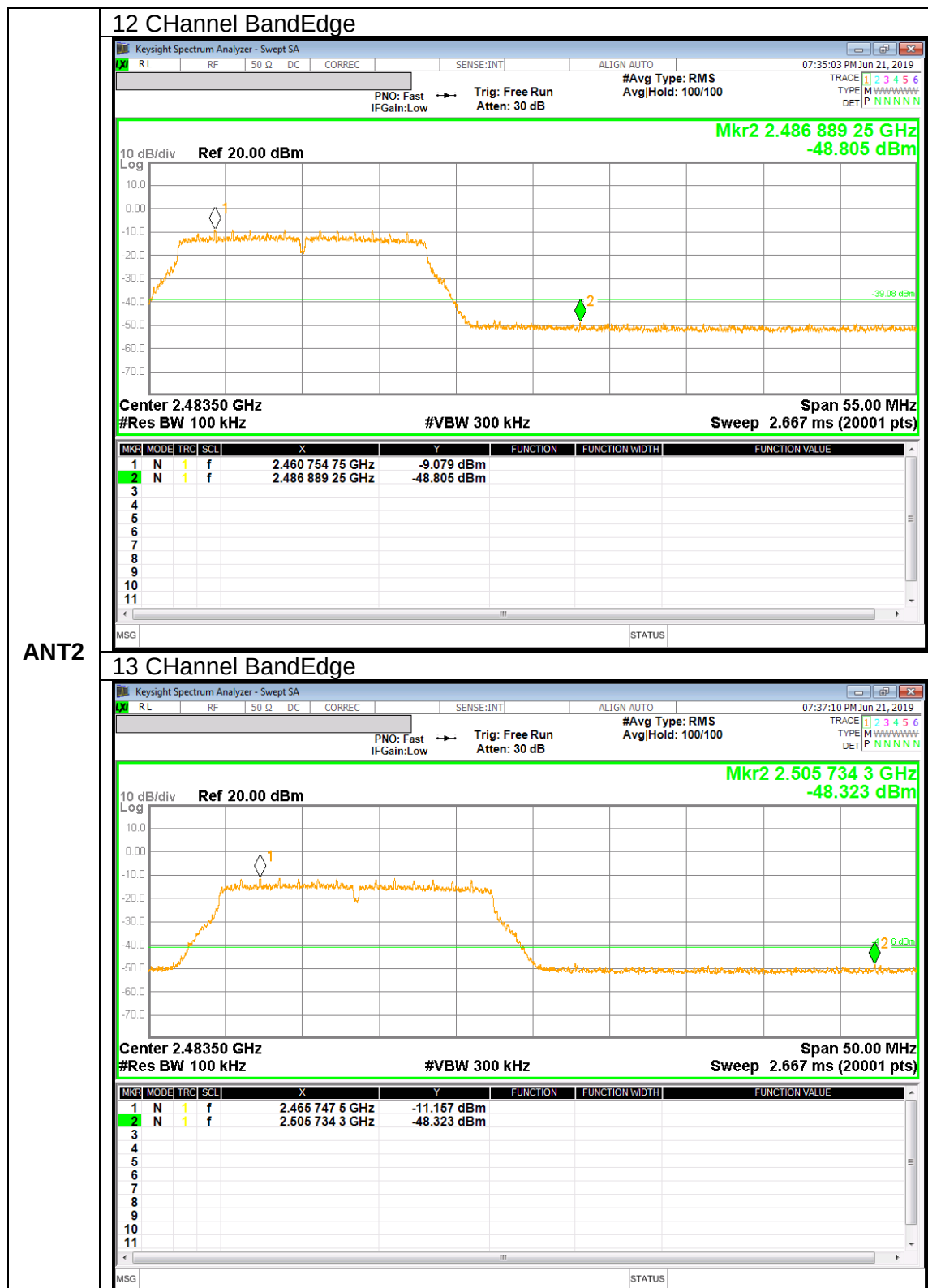




ANT2



ANT2



ANT2

11. RADIATED TEST RESULTS

11.1. LIMITS AND PROCEDURE

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.

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.

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 for average measurements. (Restricted bandedge, Final detection of spurious harmonic emissions)
Duty cycle factor= $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0dB (duty cycle >98%); N mode = 0dB (duty cycle >98%).

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

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

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

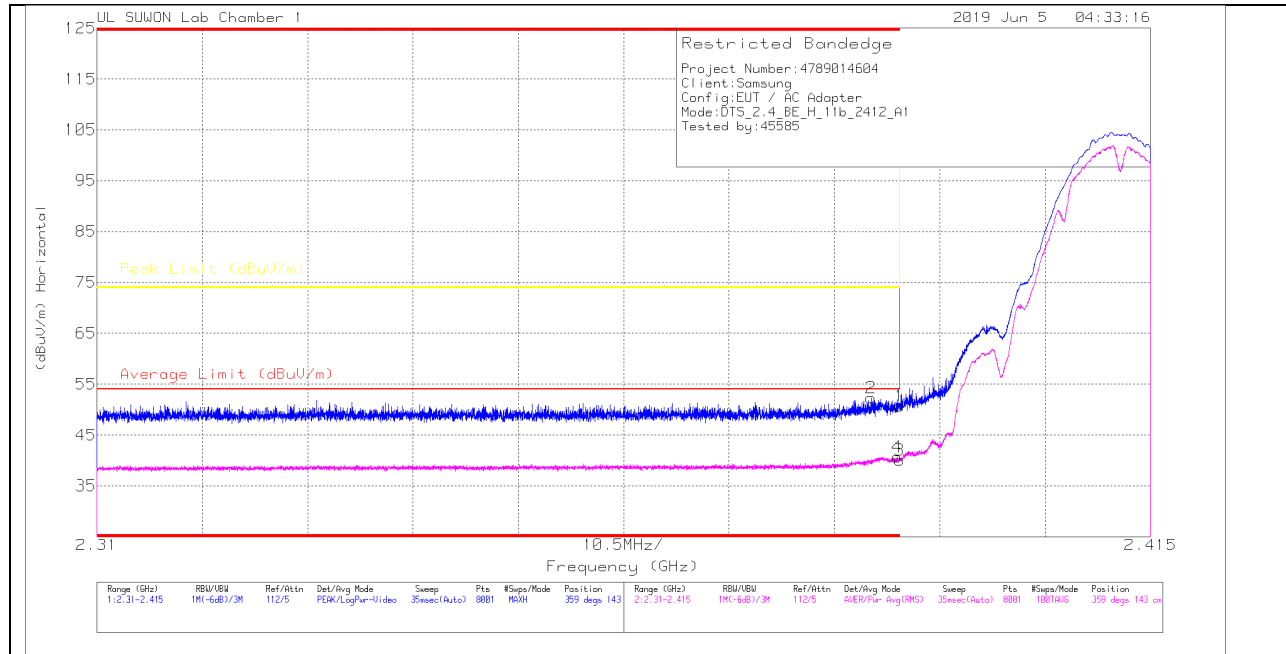
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open field test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

11.2. TRANSMITTER ABOVE 1 GHz

11.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANT1

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

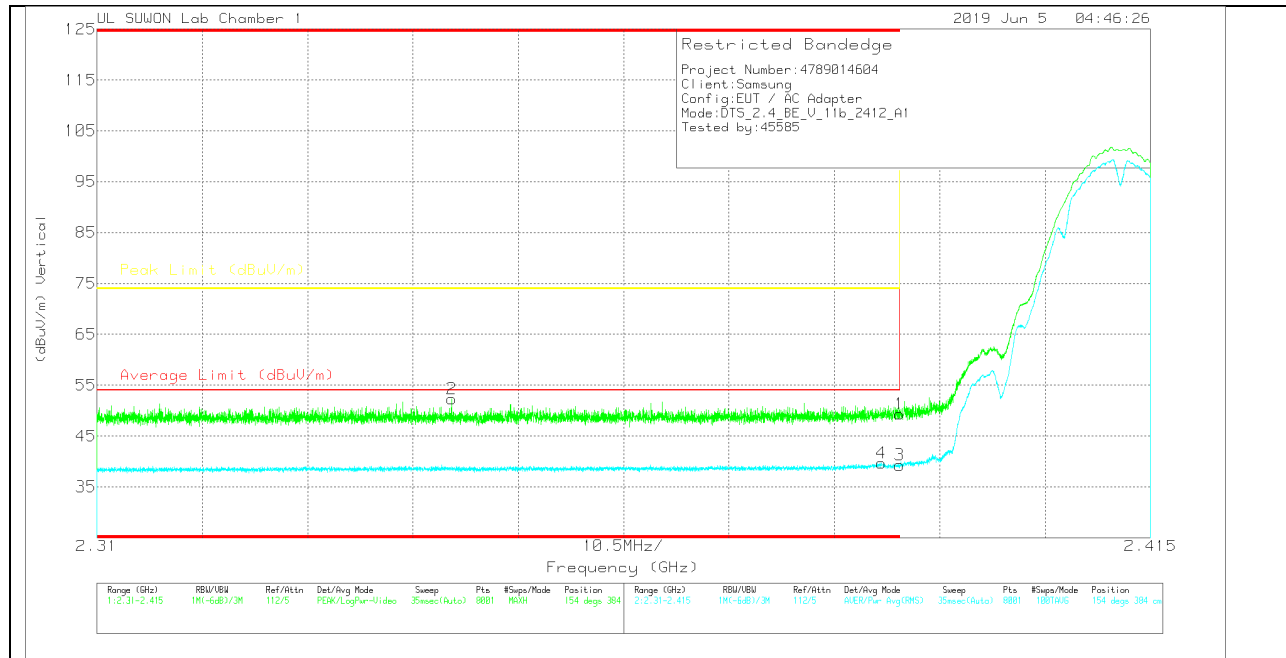
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	44.54	Pk	31.7	-25.5	0	50.74	-	-	74	-23.26	359	143	H
2	* 2.38715	46.05	Pk	31.7	-25.5	0	52.25	-	-	74	-21.75	359	143	H
3	* 2.39	33.88	RMS	31.7	-25.5	0	40.08	54	-13.92	-	-	359	143	H
4	* 2.38975	34.5	RMS	31.7	-25.5	0	40.7	54	-13.3	-	-	359	143	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_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	43.15	Pk	31.7	-25.5	0	49.35	-	-	74	-24.65	154	384	V
2	* 2.34533	46.43	Pk	31.6	-25.7	0	52.33	-	-	74	-21.67	154	384	V
3	* 2.39	33.06	RMS	31.7	-25.5	0	39.26	54	-14.74	-	-	154	384	V
4	* 2.38819	33.53	RMS	31.7	-25.5	0	39.73	54	-14.27	-	-	154	384	V

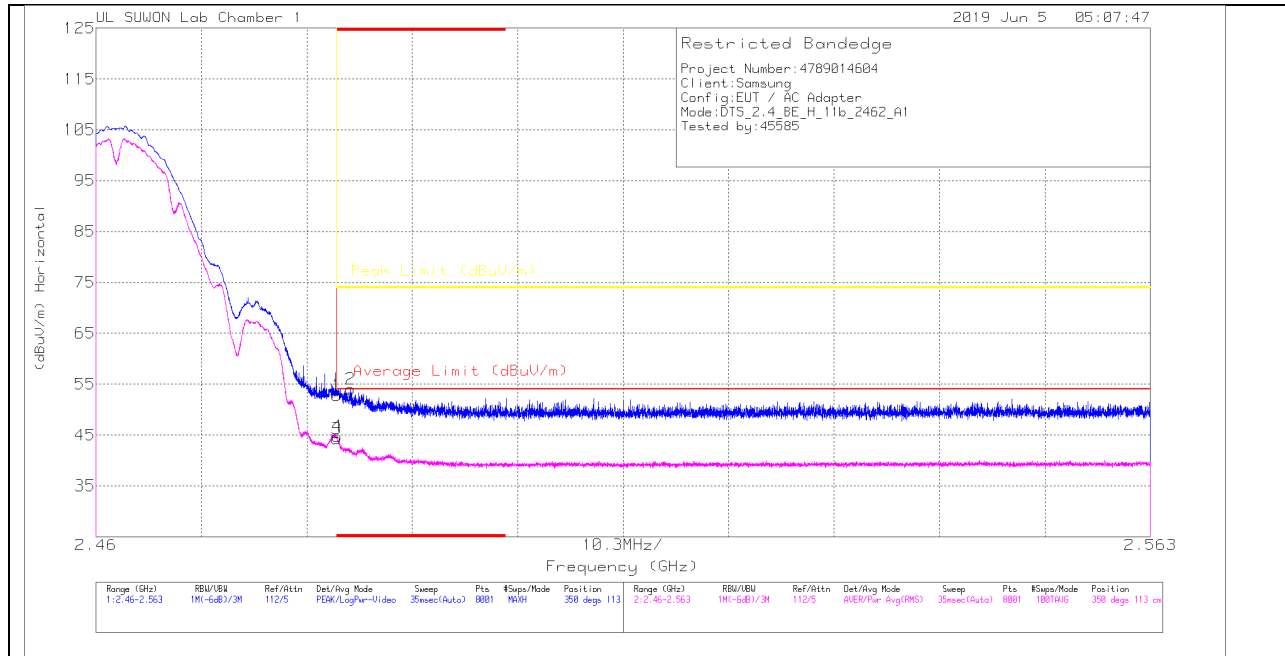
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

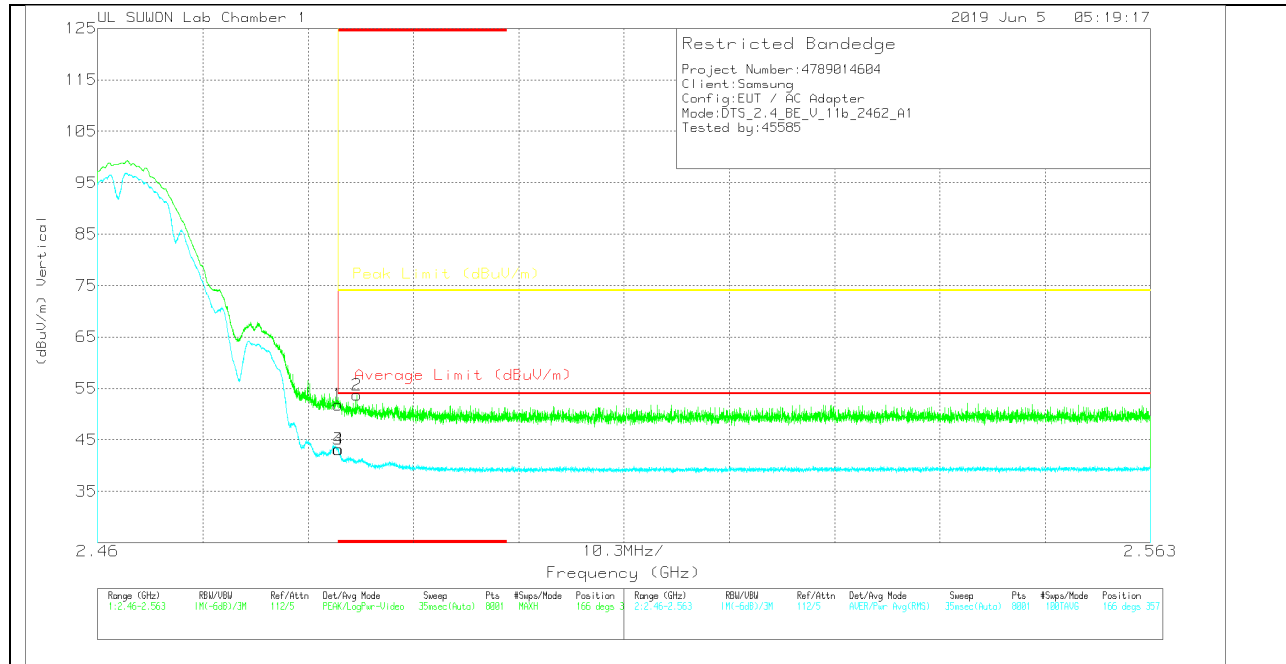
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.48351	46.18	Pk	31.9	-25.3	0	52.78	-	-	74	-21.22	350	113	H
2	* 2.48489	47.48	Pk	31.9	-25.3	0	54.08	-	-	74	-19.92	350	113	H
3	* 2.48351	37.69	RMS	31.9	-25.3	0	44.29	54	-9.71	-	-	350	113	H
4	* 2.48355	38.14	RMS	31.9	-25.3	0	44.74	54	-9.26	-	-	350	113	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_00168717	10dB(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	* 2.48351	45.23	PK	31.9	-25.3	0	51.83	-	-	74	-22.17	166	357	V
2	* 2.48535	47.08	PK	31.9	-25.3	0	53.68	-	-	74	-20.32	166	357	V
3	* 2.48351	36.56	RMS	31.9	-25.3	0	43.16	54	-10.84	-	-	166	357	V
4	* 2.48359	36.56	RMS	31.9	-25.3	0	43.16	54	-10.84	-	-	166	357	V

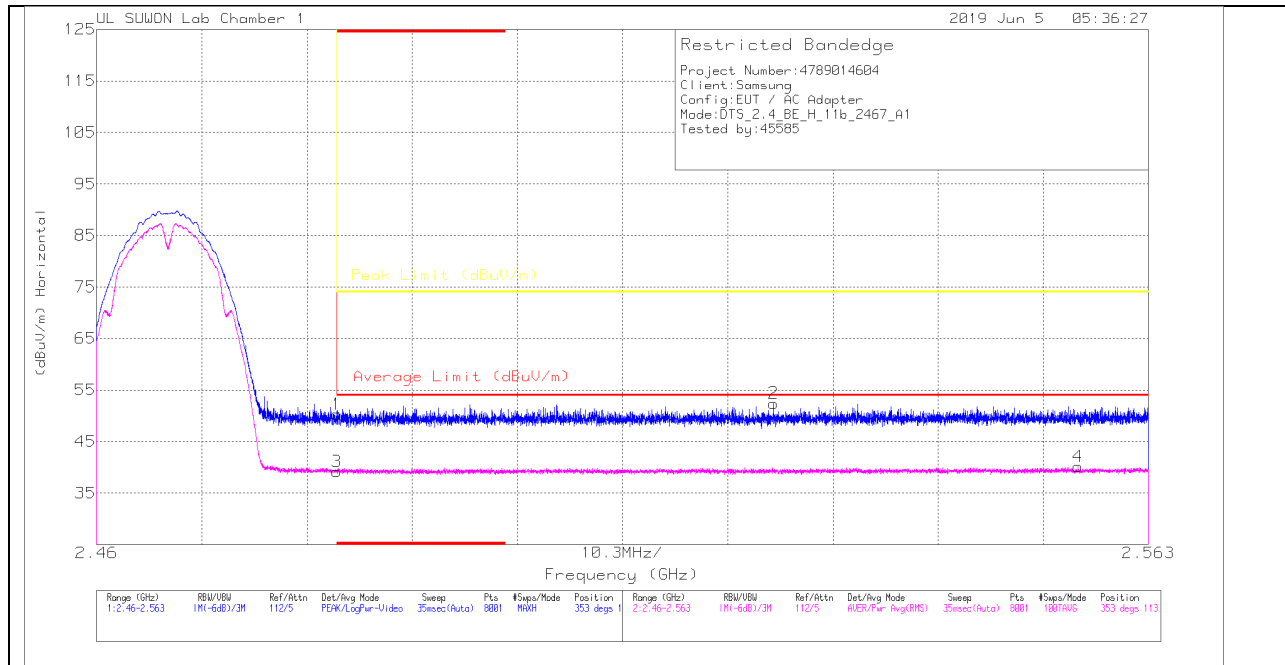
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

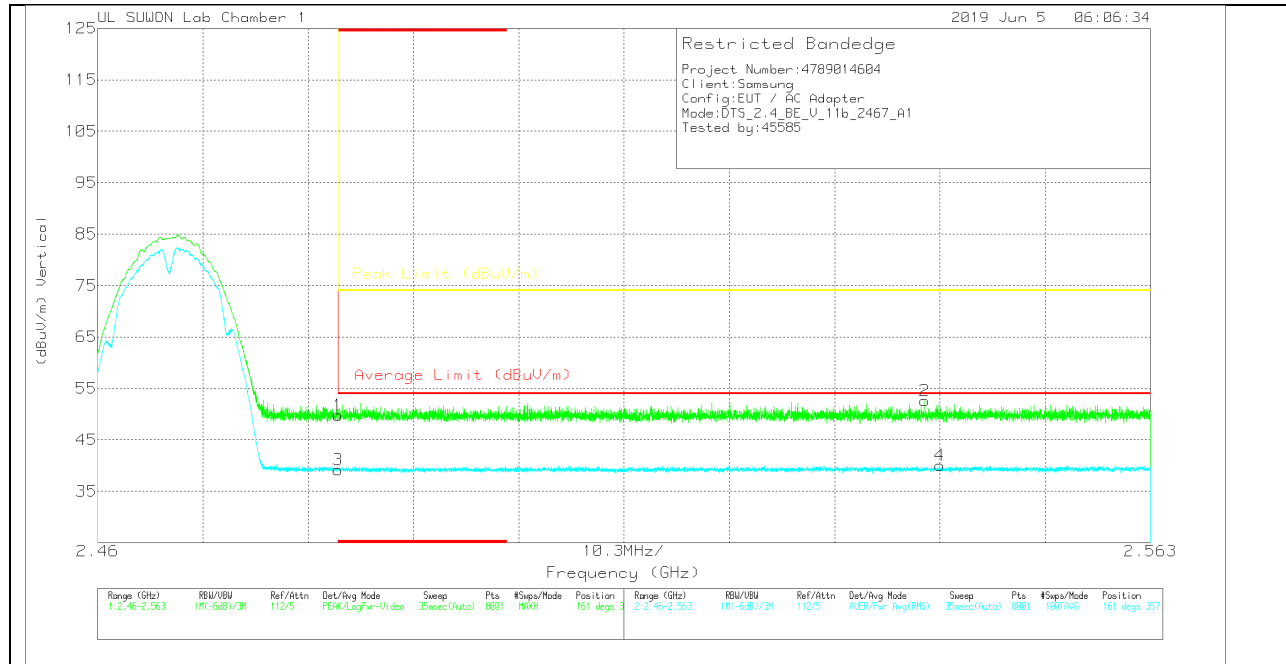
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	43.7	PK	31.9	-25.3	0	50.3	-	-	74	-23.7	353	113	H
2	2.52629	45.61	PK	32	-25.2	0	52.41	-	-	74	-21.59	353	113	H
3	* 2.48351	32.54	RMS	31.9	-25.3	0	39.14	54	-14.86	-	-	353	113	H
4	2.55609	33.34	RMS	32	-25.2	0	40.14	54	-13.86	-	-	353	113	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_00168717	10dB(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	* 2.48351	43.17	PK	31.9	-25.3	0	49.77	-	-	74	-24.23	161	357	V
2	2.54092	45.8	PK	32	-25.2	0	52.6	-	-	74	-21.4	161	357	V
3	* 2.48351	32.58	RMS	31.9	-25.3	0	39.18	54	-14.82	-	-	161	357	V
4	2.54239	33.23	RMS	32	-25.2	0	40.03	54	-13.97	-	-	161	357	V

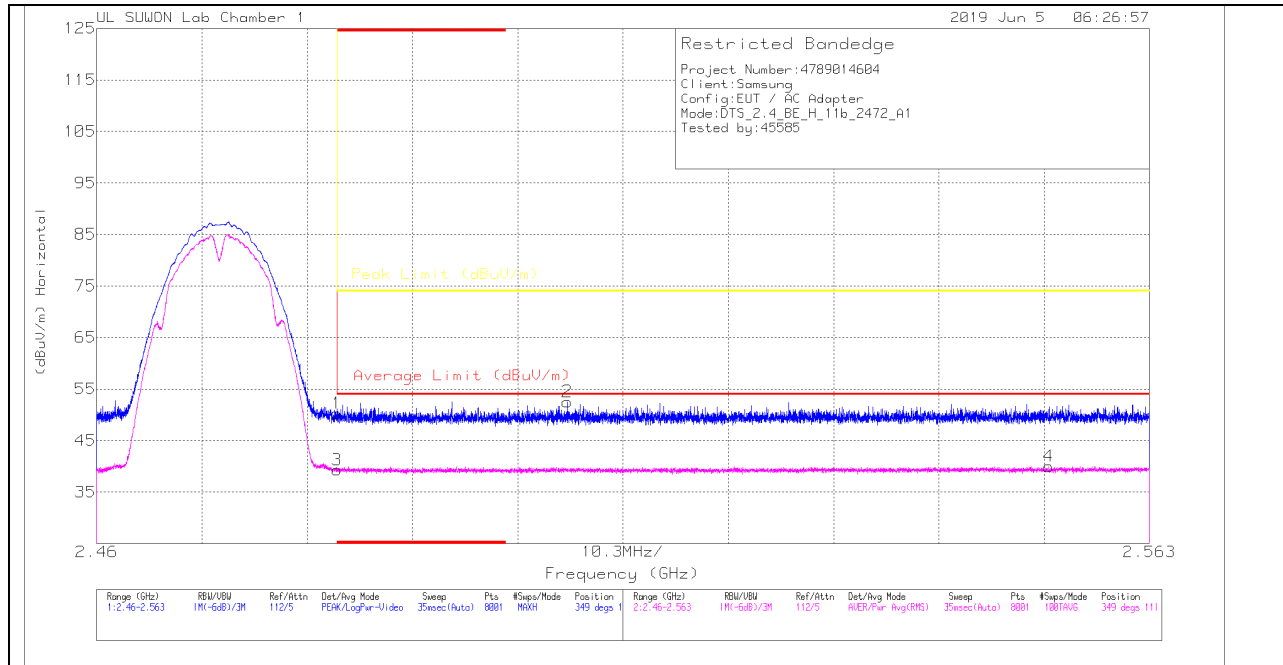
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

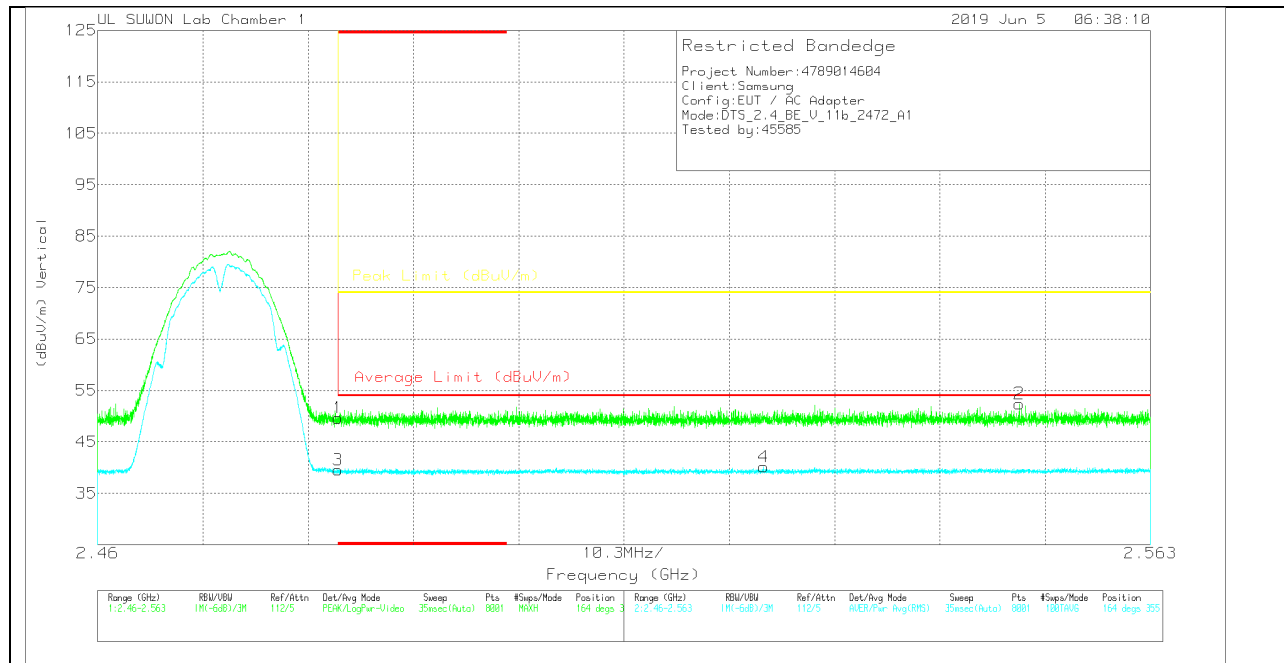
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	43.67	Pk	31.9	-25.3	0	50.27	-	-	74	-23.73	349	111	H
2	2.50604	45.73	Pk	32	-25.2	0	52.53	-	-	74	-21.47	349	111	H
3	* 2.48351	32.69	RMS	31.9	-25.3	0	39.29	54	-14.71	-	-	349	111	H
4	2.55313	33.17	RMS	32	-25.2	0	39.97	54	-14.03	-	-	349	111	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_00168717	10dB(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	* 2.48351	43.04	Pk	31.9	-25.3	0	49.64	-	-	74	-24.36	164	355	V
2	2.55016	45.6	Pk	32	-25.2	0	52.4	-	-	74	-21.6	164	355	V
3	* 2.48351	32.93	RMS	31.9	-25.3	0	39.53	54	-14.47	-	-	164	355	V
4	2.52515	33.37	RMS	32	-25.2	0	40.17	54	-13.83	-	-	164	355	V

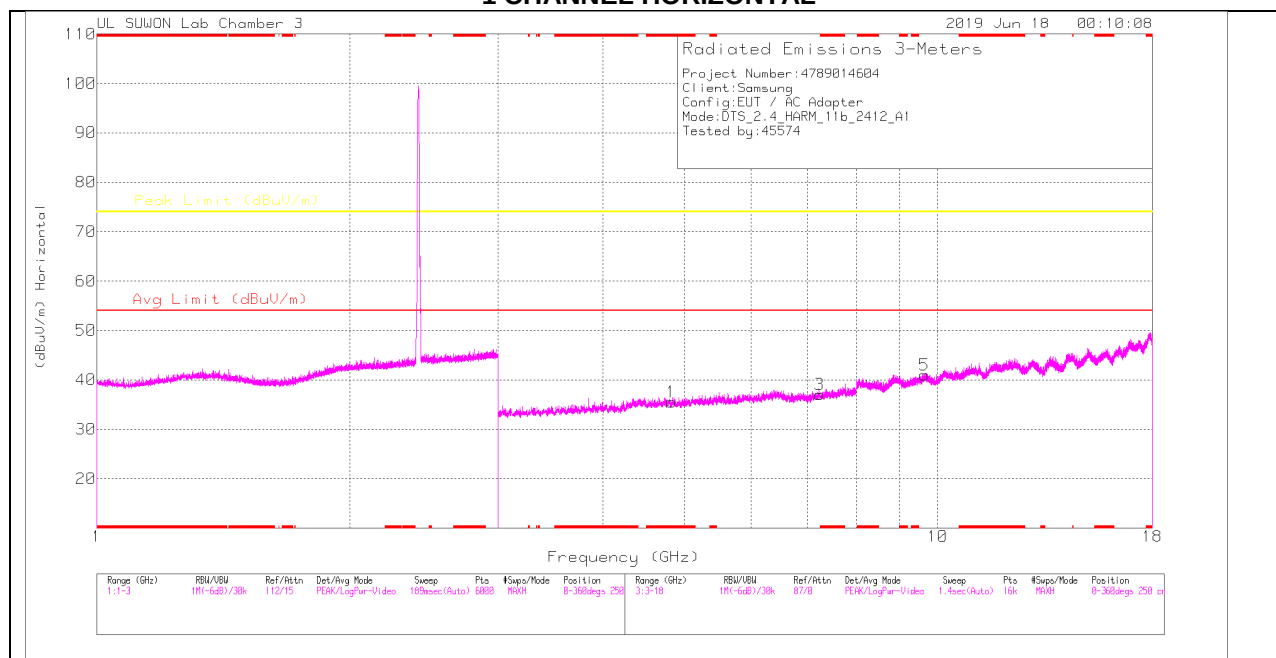
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

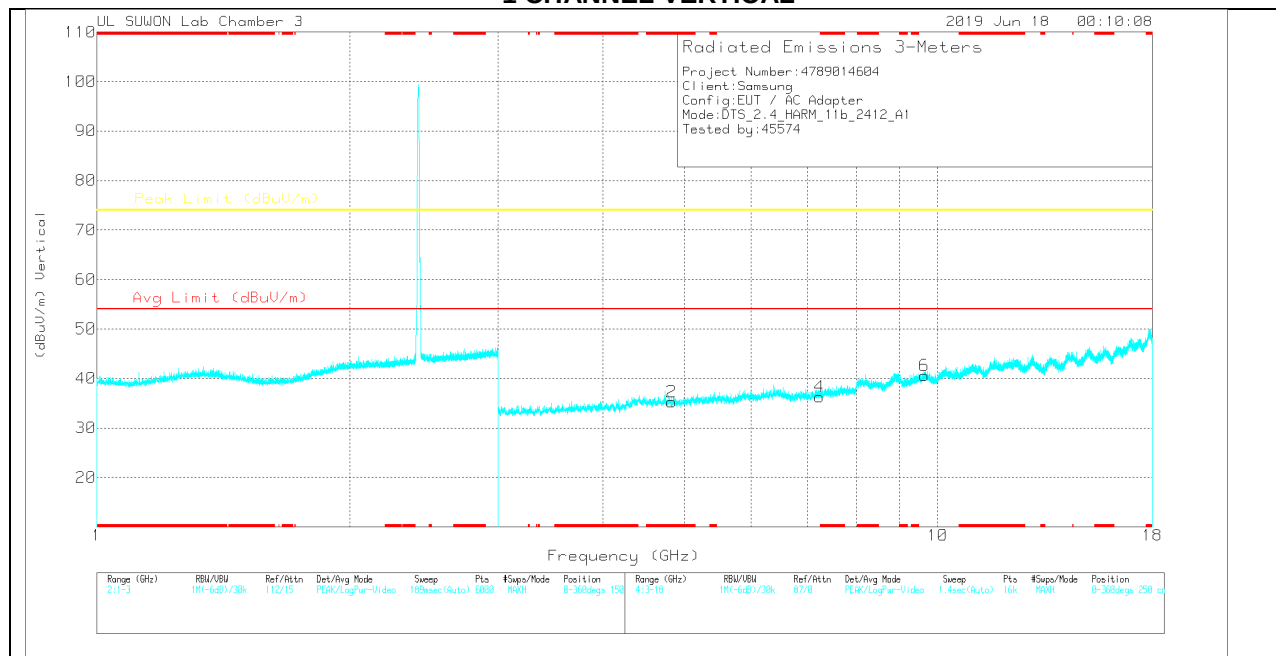
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

1 CHANNEL HORIZONTAL



1 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

1 CHANNEL DATA

Trace Markers

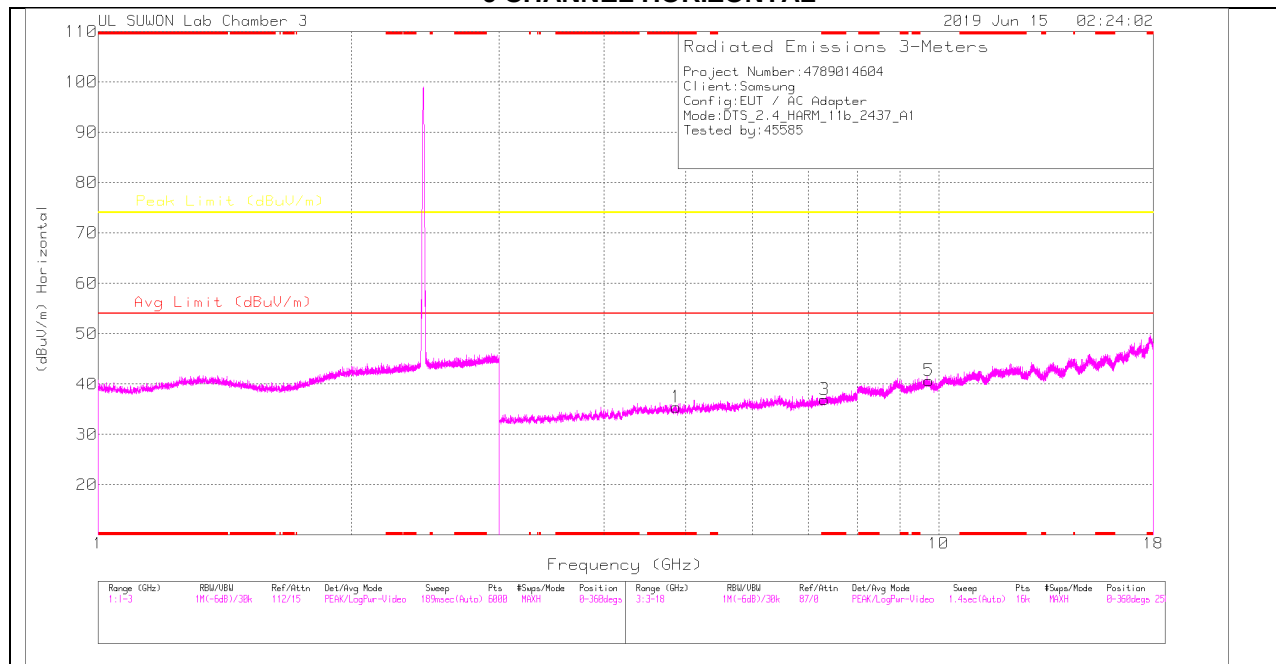
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.825	29.98	PK	34.2	-28.6	0	35.58	-	-	74	-38.42	0-360	250	H
3	7.237	25.3	PK	35.8	-24.1	0	37	-	-	74	-37	0-360	250	H
5	9.647	23.61	PK	37.1	-19.7	0	41.01	-	-	74	-32.99	0-360	150	H
2	* 4.825	29.7	PK	34.2	-28.6	0	35.3	-	-	74	-38.7	0-360	150	V
4	7.236	24.53	PK	35.8	-24.1	0	36.23	-	-	74	-37.77	0-360	150	V
6	9.648	23.25	PK	37.1	-19.7	0	40.65	-	-	74	-33.35	0-360	250	V

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

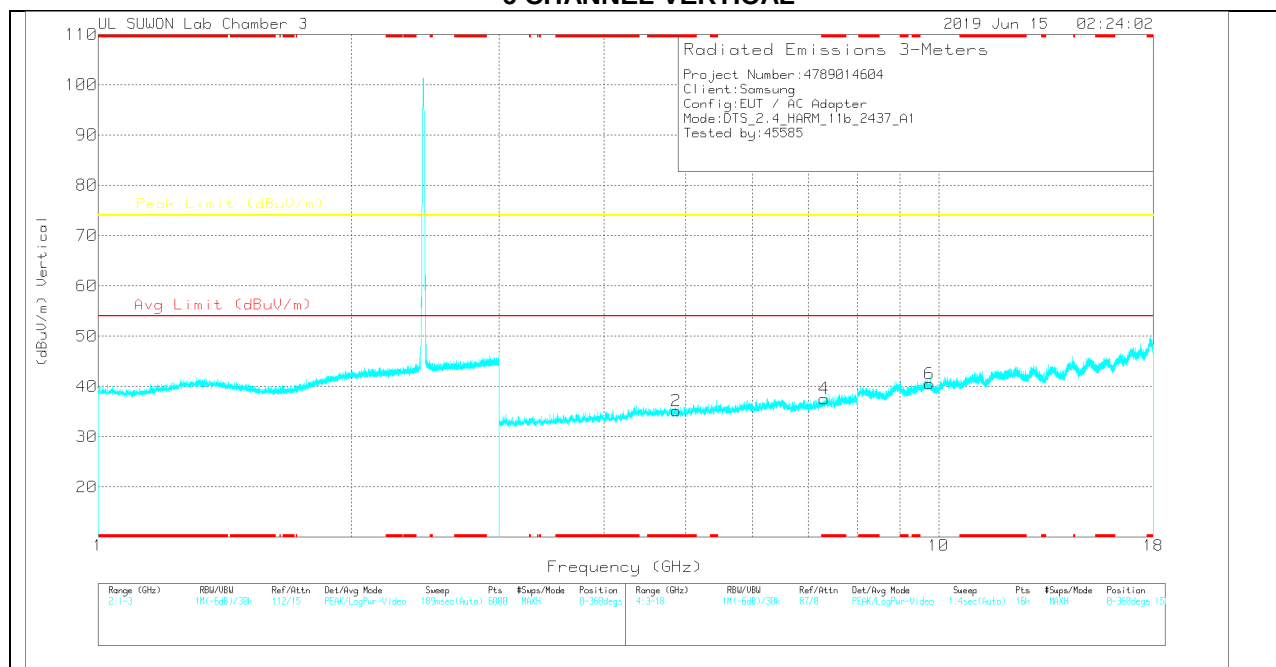
PK – Peak Detector

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

6 CHANNEL HORIZONTAL



6 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

6 CHANNEL DATA

Trace Markers

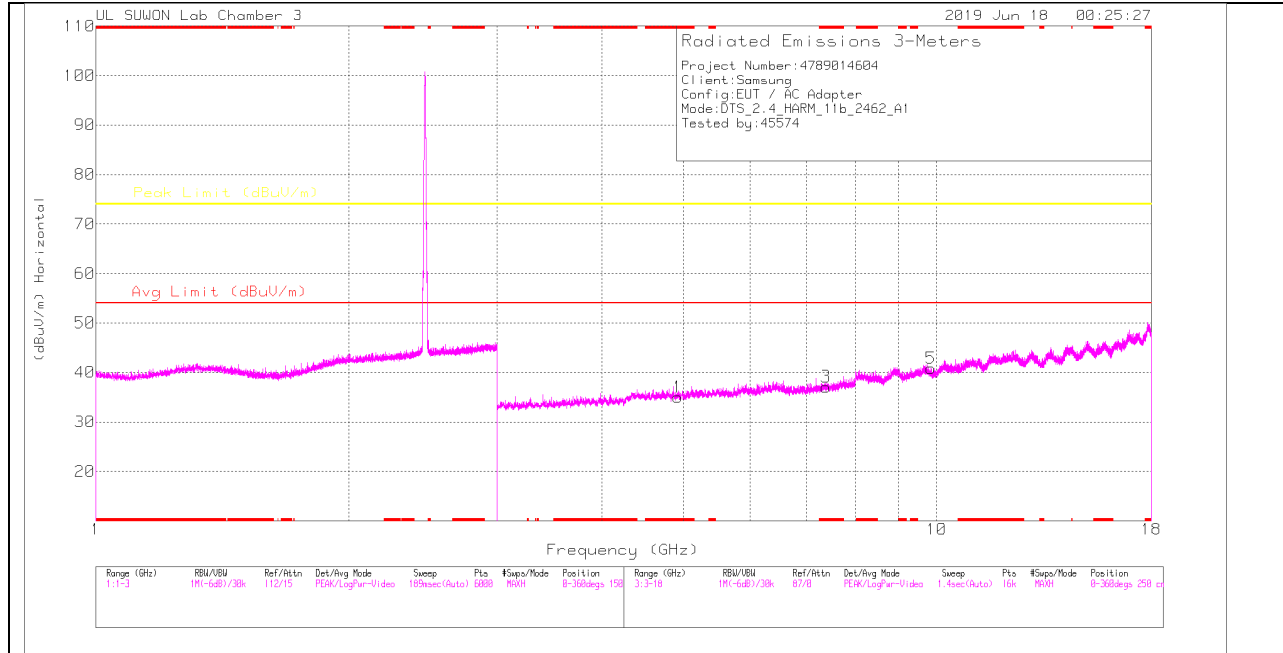
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.873	30.34	PK	34.2	-29.1	0	35.44	-	-	74	-38.56	0-360	150	H
3	* 7.318	24.72	PK	35.8	-23.6	0	36.92	-	-	74	-37.08	0-360	250	H
5	9.74	23.1	PK	37.2	-19.6	0	40.7	-	-	74	-33.3	0-360	150	H
2	* 4.874	29.96	PK	34.2	-29	0	35.16	-	-	74	-38.84	0-360	250	V
4	* 7.308	25.66	PK	35.8	-23.9	0	37.56	-	-	74	-36.44	0-360	250	V
6	9.75	22.92	PK	37.2	-19.6	0	40.52	-	-	74	-33.48	0-360	150	V

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

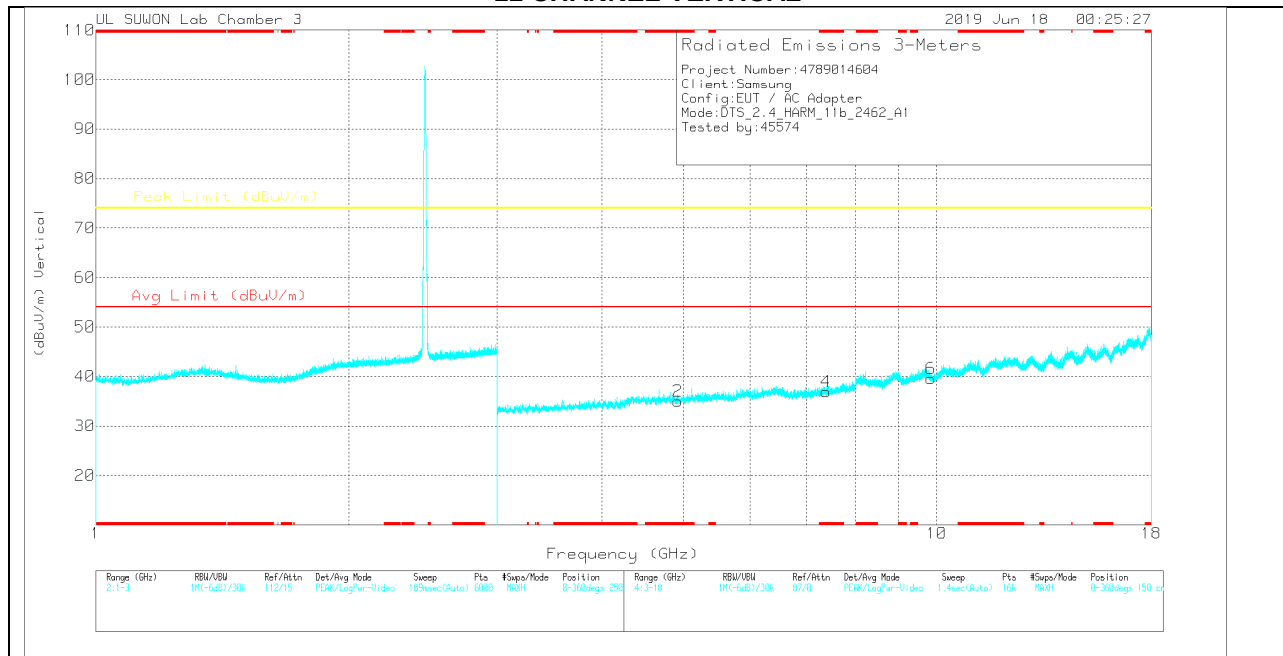
PK – Peak Detector

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

11 CHANNEL HORIZONTAL



11 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.925	30.04	PK	34.2	-29.2	0	35.04	-	-	74	-38.96	0-360	150	H
3	* 7.387	24.61	PK	35.8	-23.3	0	37.11	-	-	74	-36.89	0-360	250	H
5	9.849	23.11	PK	37.4	-19.7	0	40.81	-	-	74	-33.19	0-360	150	H
2	* 4.925	30.03	PK	34.2	-29.2	0	35.03	-	-	74	-38.97	0-360	150	V
4	* 7.387	24.38	PK	35.8	-23.3	0	36.88	-	-	74	-37.12	0-360	250	V
6	9.848	21.85	PK	37.4	-19.7	0	39.55	-	-	74	-34.45	0-360	150	V

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

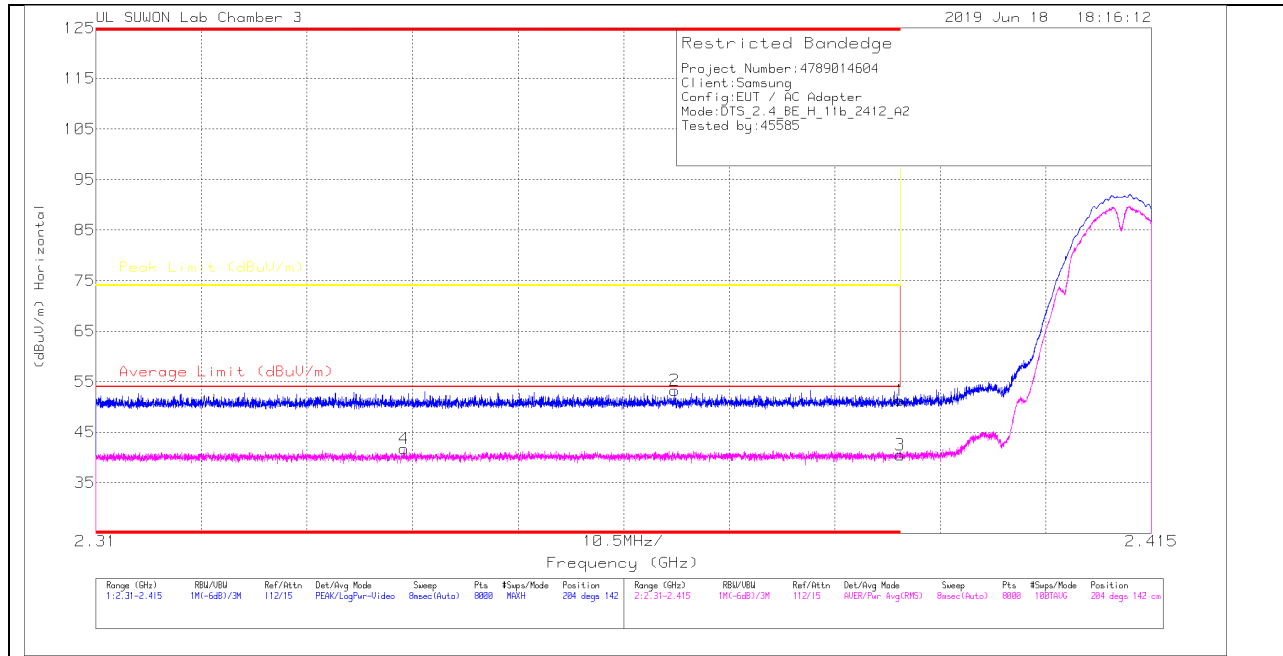
PK – Peak Detector

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

11.2.2. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANT2

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

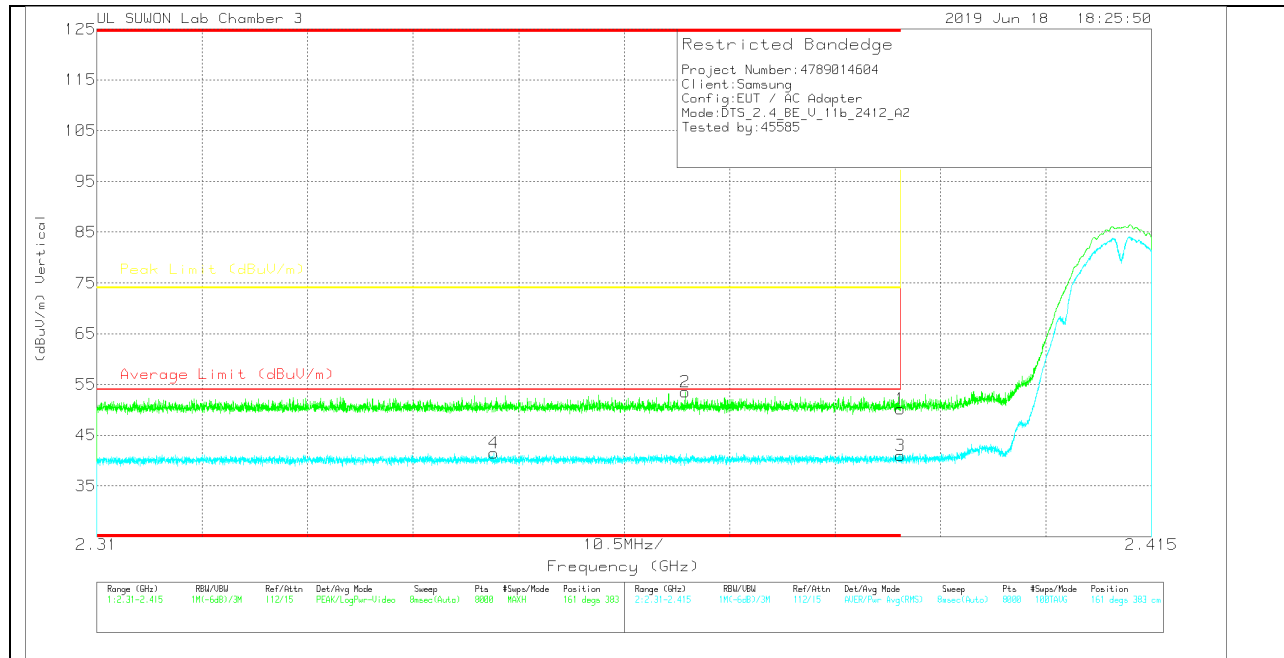
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.97	PK	31.7	-23.4	0	51.27	-	-	74	-22.73	204	142	H
2	* 2.368	45.04	PK	31.6	-23.4	0	53.24	-	-	74	-20.76	204	142	H
3	* 2.39	32.21	RMS	31.7	-23.4	0	40.51	54	-13.49	-	-	204	142	H
4	* 2.341	33.64	RMS	31.5	-23.4	0	41.74	54	-12.26	-	-	204	142	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(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	* 2.39	41.87	Pk	31.7	-23.4	0	50.17	-	-	74	-23.83	161	383	V
2	* 2.369	45.33	Pk	31.6	-23.4	0	53.53	-	-	74	-20.47	161	383	V
3	* 2.39	32.71	RMS	31.7	-23.4	0	41.01	54	-12.99	-	-	161	383	V
4	* 2.35	33.29	RMS	31.6	-23.4	0	41.49	54	-12.51	-	-	161	383	V

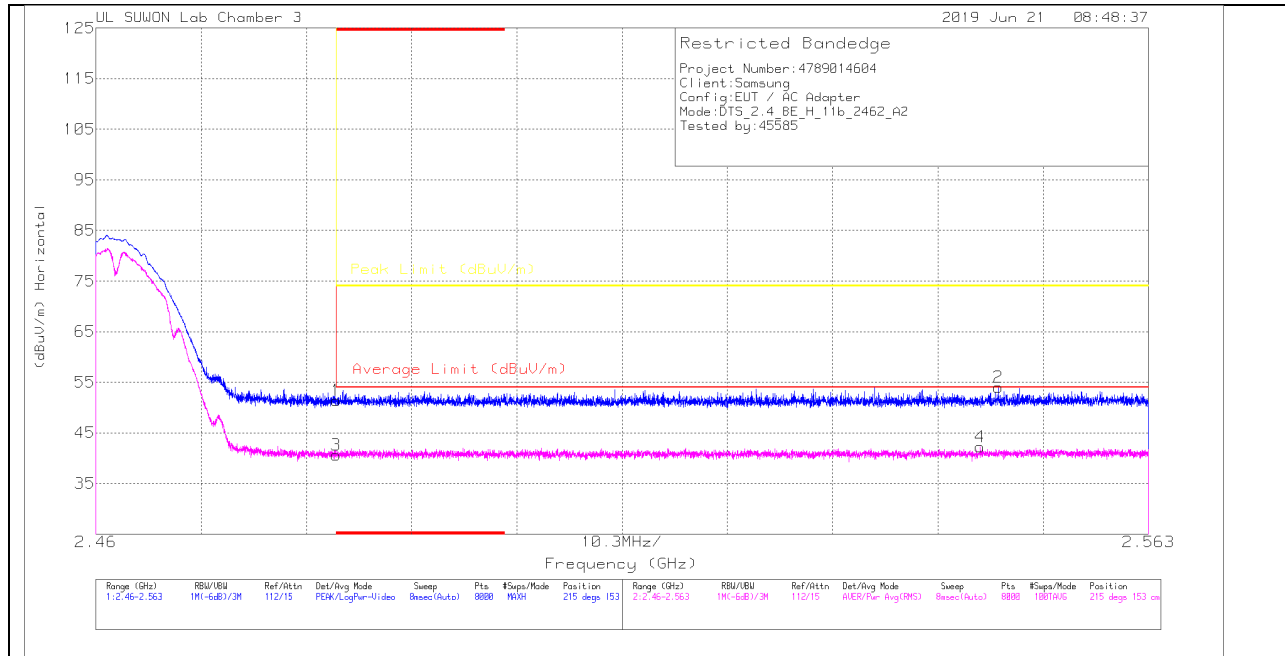
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

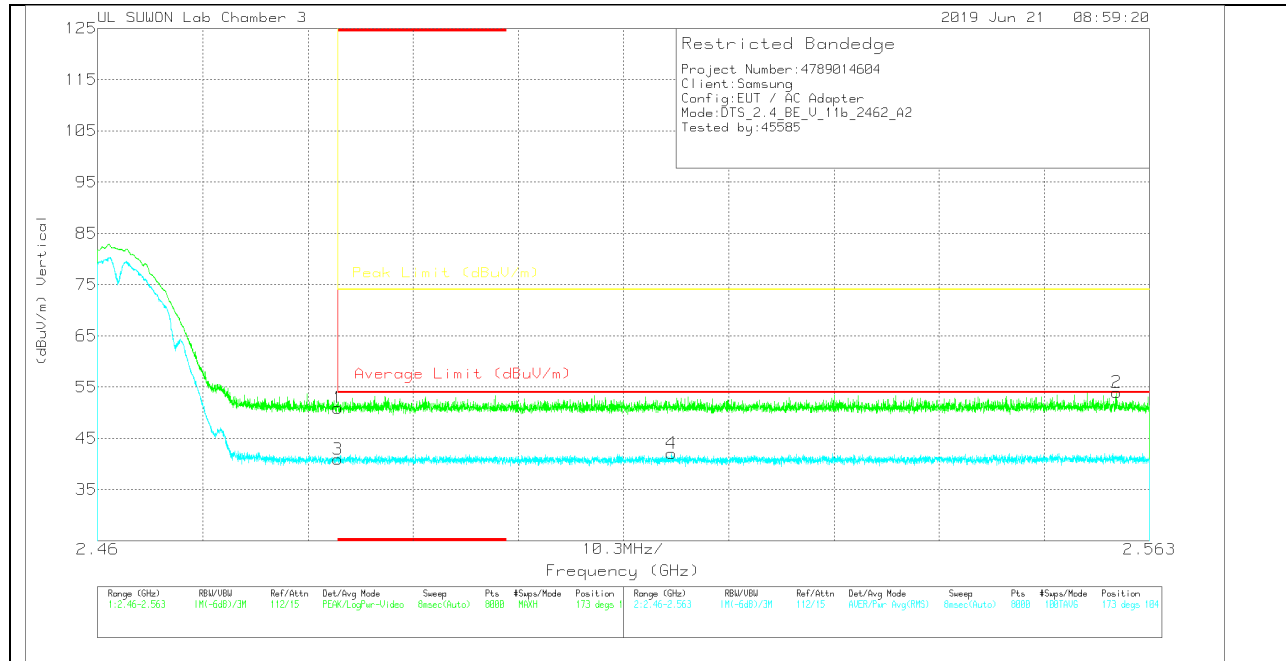
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.66	Pk	31.9	-23.2	0	51.36	-	-	74	-22.64	215	153	H
2	2.548	45.13	Pk	32	-23.1	0	54.03	-	-	74	-19.97	215	153	H
3	* 2.484	31.88	RMS	31.9	-23.2	0	40.58	54	-13.42	-	-	215	153	H
4	2.547	33.39	RMS	32	-23.2	0	42.19	54	-11.81	-	-	215	153	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(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	* 2.484	42.24	Pk	31.9	-23.2	0	50.94	-	-	74	-23.06	173	104	V
2	2.56	45.09	Pk	32	-23.1	0	53.99	-	-	74	-20.01	173	104	V
3	* 2.484	32.23	RMS	31.9	-23.2	0	40.93	54	-13.07	-	-	173	104	V
4	2.516	33.18	RMS	32	-23.1	0	42.08	54	-11.92	-	-	173	104	V

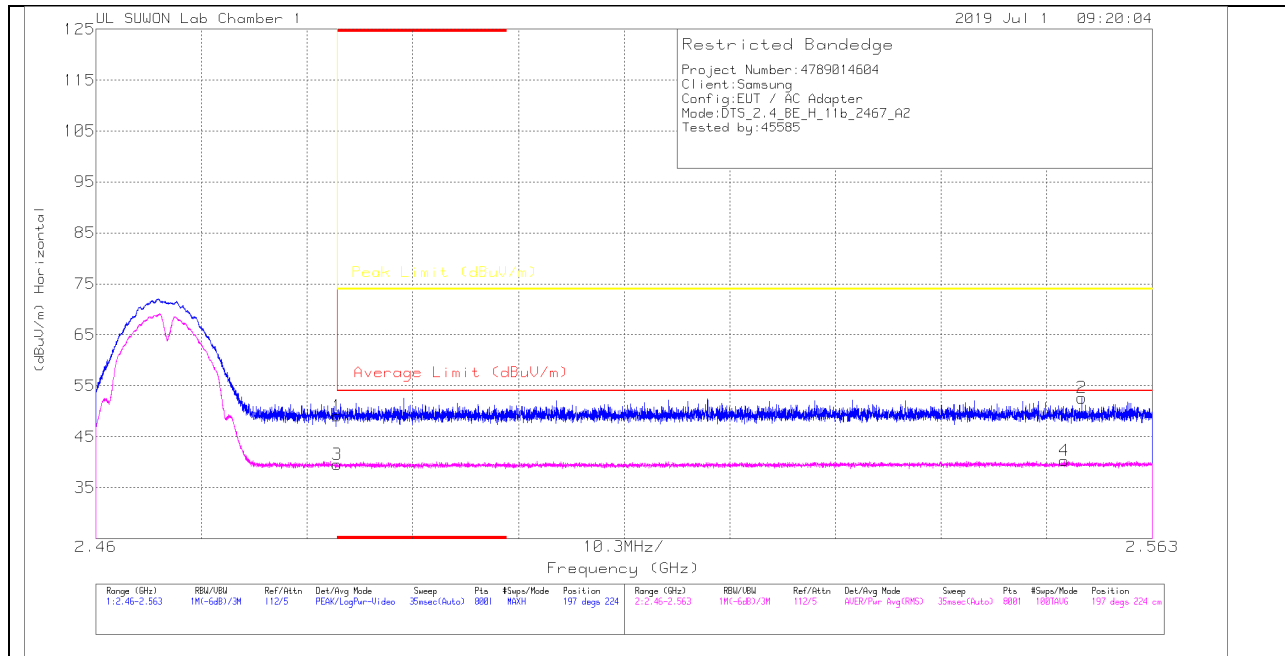
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

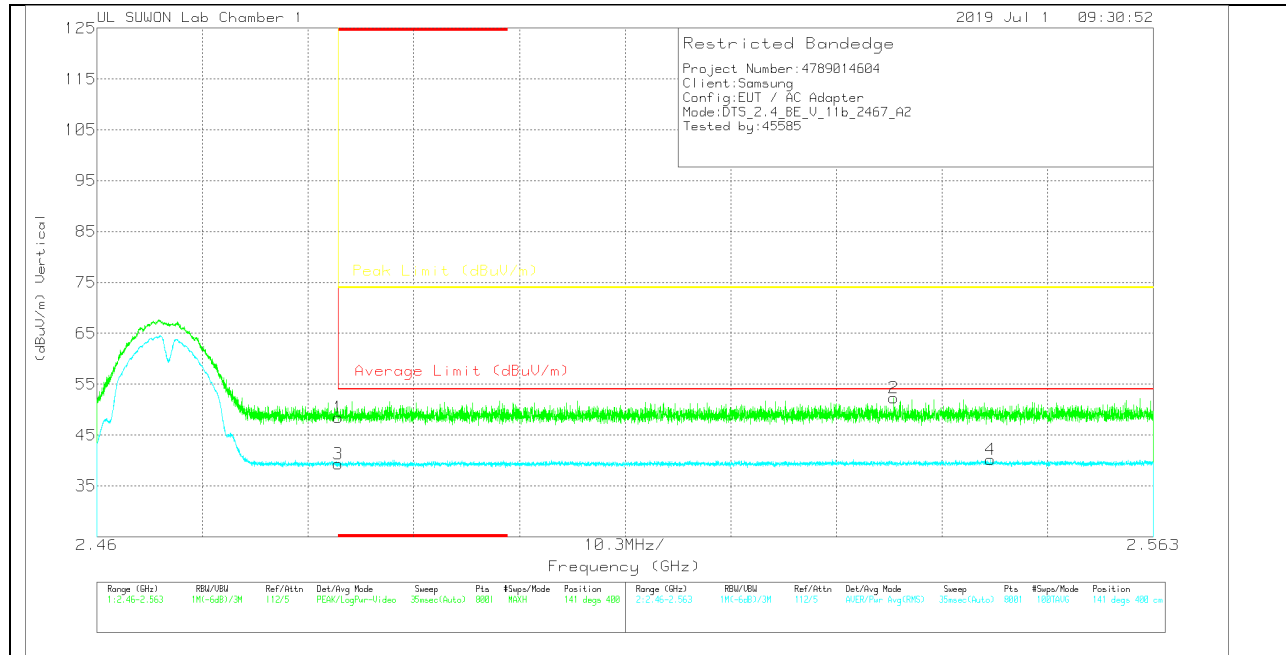
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	42.51	Pk	31.9	-25.3	0	49.11	-	-	74	-24.89	197	224	H
2	2.55611	45.82	PK	32	-25.2	0	52.62	-	-	74	-21.38	197	224	H
3	* 2.48351	32.93	RMS	31.9	-25.3	0	39.53	54	-14.47	-	-	197	224	H
4	2.55439	33.38	RMS	32	-25.1	0	40.28	54	-13.72	-	-	197	224	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_00168717	10dB(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	* 2.48351	41.87	Pk	31.9	-25.3	0	48.47	-	-	74	-25.53	141	400	V
2	2.53769	45.51	Pk	32	-25.2	0	52.31	-	-	74	-21.69	141	400	V
3	* 2.48351	32.74	RMS	31.9	-25.3	0	39.34	54	-14.66	-	-	141	400	V
4	2.54711	33.3	RMS	32	-25.1	0	40.2	54	-13.8	-	-	141	400	V

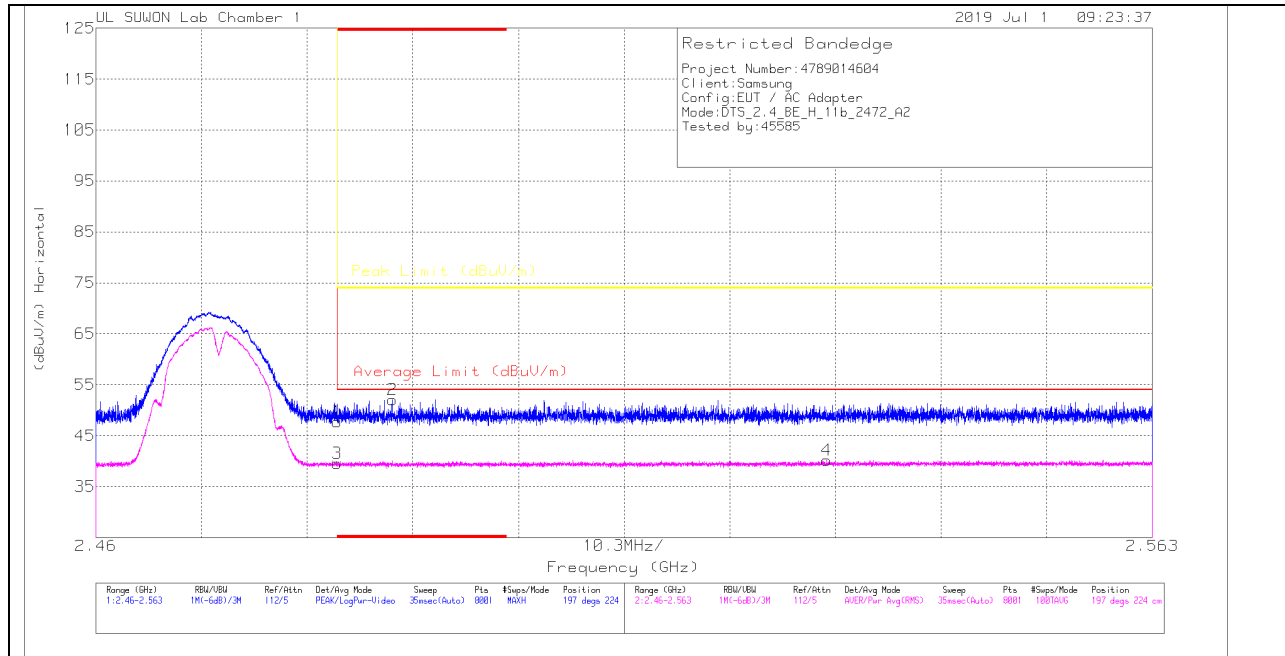
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

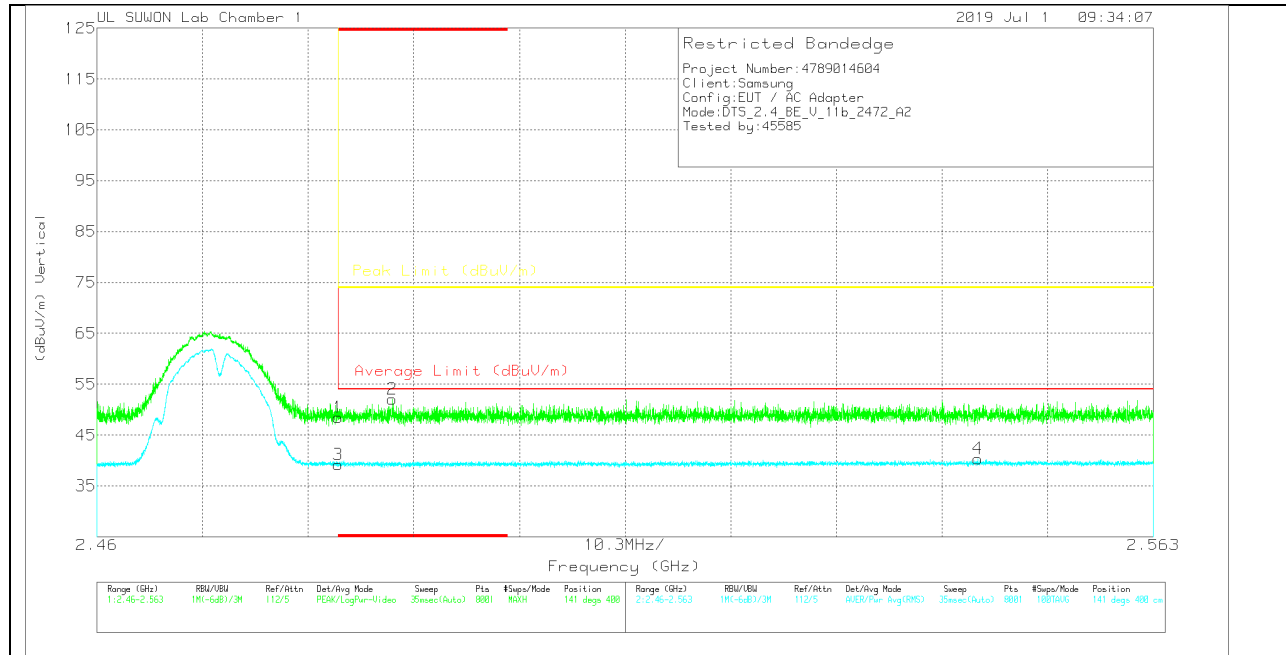
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.17	Pk	31.9	-25.3	0	47.77	-	-	74	-26.23	197	224	H
2	* 2.48893	45.34	Pk	31.9	-25.2	0	52.04	-	-	74	-21.96	197	224	H
3	* 2.48351	33.01	RMS	31.9	-25.3	0	39.61	54	-14.39	-	-	197	224	H
4	2.53124	33.31	RMS	32	-25.1	0	40.21	54	-13.79	-	-	197	224	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_00168717	10dB(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	* 2.48351	41.82	Pk	31.9	-25.3	0	48.42	-	-	74	-25.58	141	400	V
2	* 2.48881	45.41	Pk	31.9	-25.2	0	52.11	-	-	74	-21.89	141	400	V
3	* 2.48351	32.64	RMS	31.9	-25.3	0	39.24	54	-14.76	-	-	141	400	V
4	2.54588	33.47	RMS	32	-25.1	0	40.37	54	-13.63	-	-	141	400	V

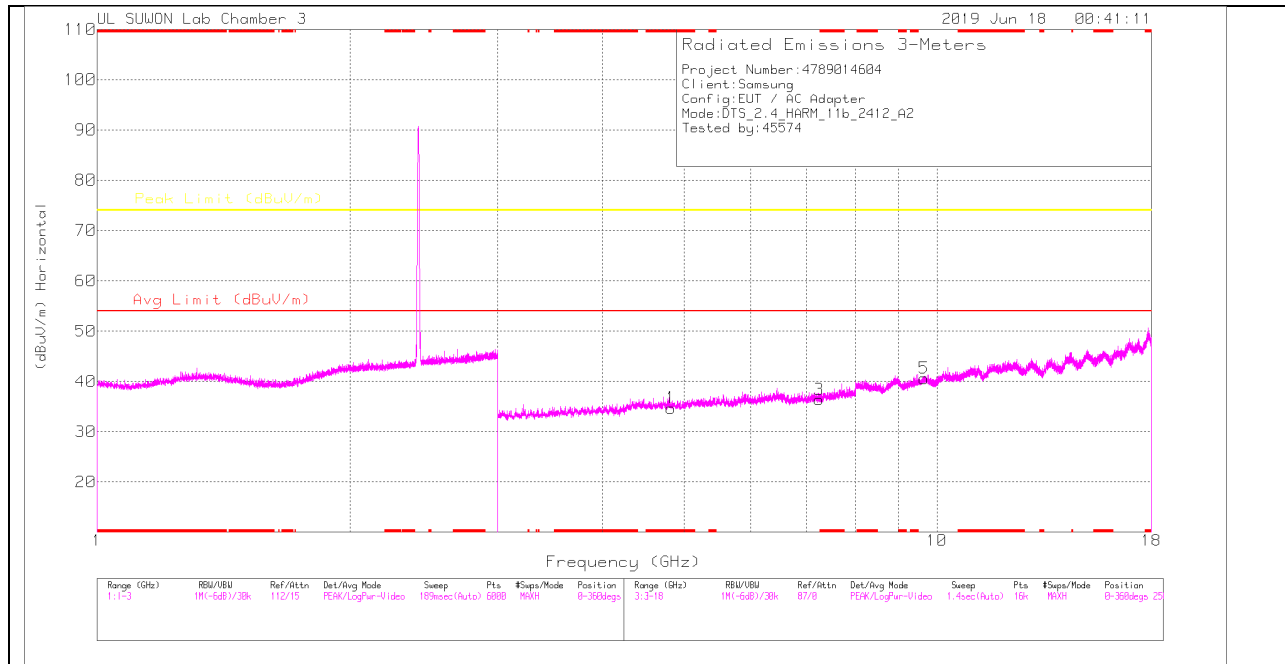
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

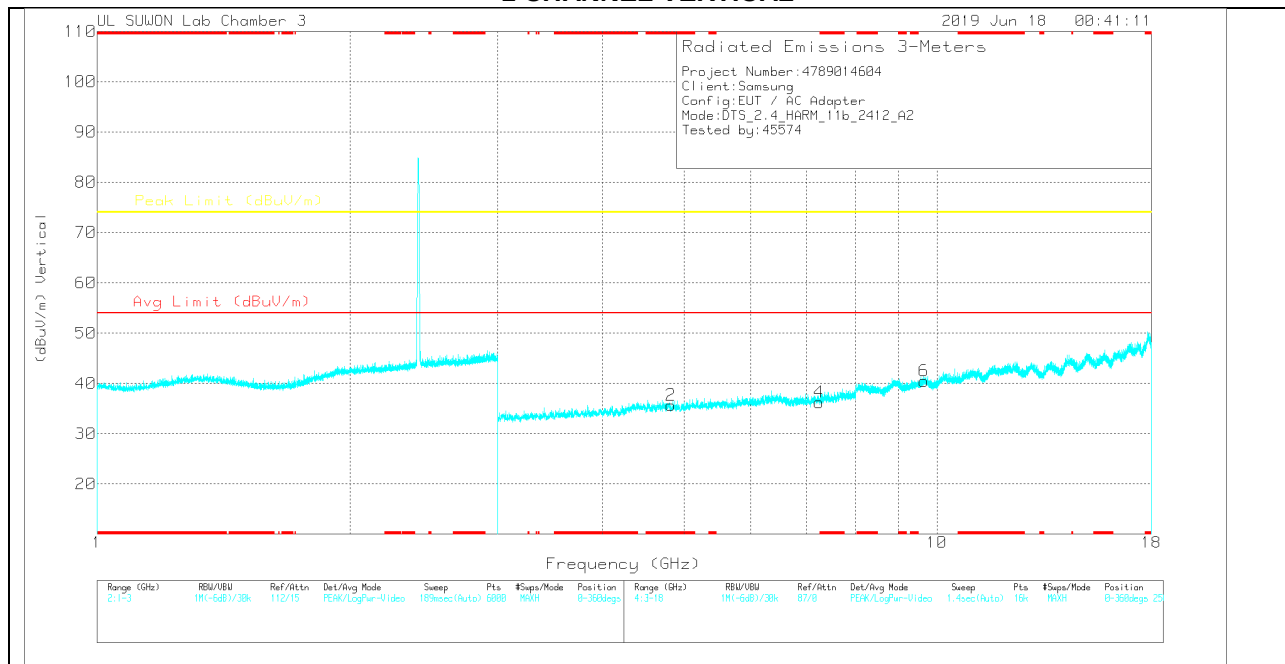
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

1 CHANNEL HORIZONTAL



1 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

1 CHANNEL DATA

Trace Markers

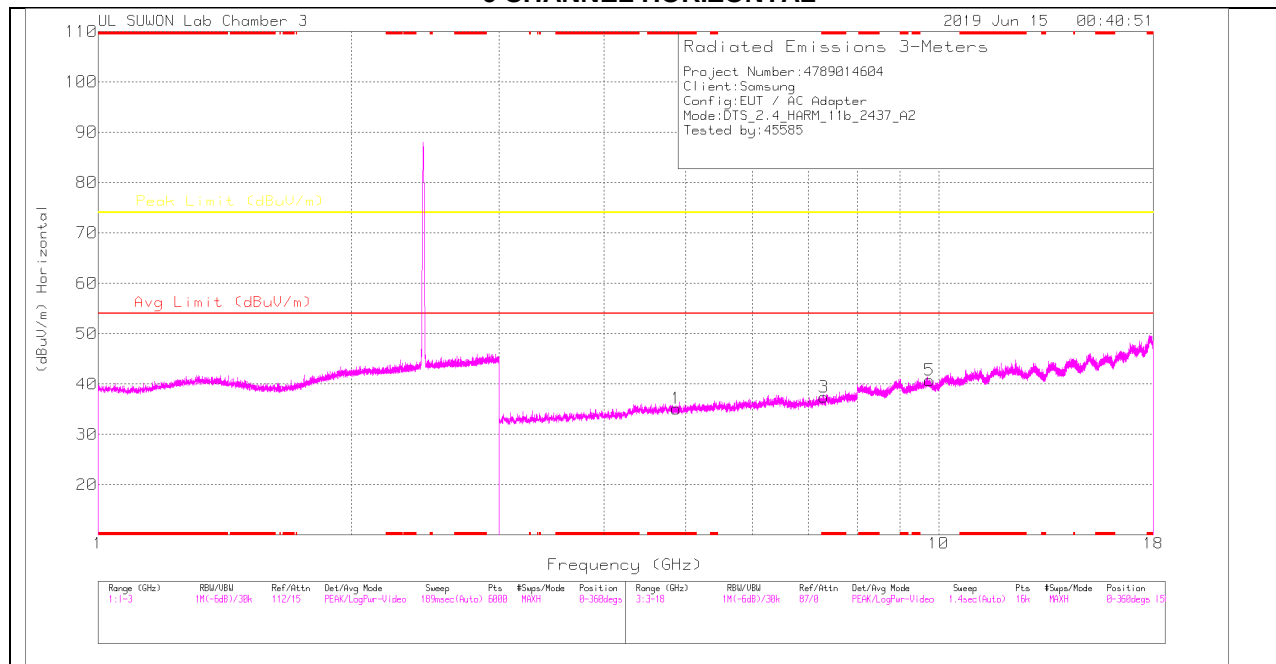
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.824	29.22	PK	34.2	-28.7	0	34.72	-	-	74	-39.28	0-360	250	H
3	7.236	24.69	PK	35.8	-24.1	0	36.39	-	-	74	-37.61	0-360	250	H
5	9.65	23.3	PK	37.1	-19.8	0	40.6	-	-	74	-33.4	0-360	250	H
2	* 4.824	30.17	PK	34.2	-28.7	0	35.67	-	-	74	-38.33	0-360	150	V
4	7.236	24.53	PK	35.8	-24.1	0	36.23	-	-	74	-37.77	0-360	250	V
6	9.649	23.08	PK	37.1	-19.7	0	40.48	-	-	74	-33.52	0-360	250	V

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

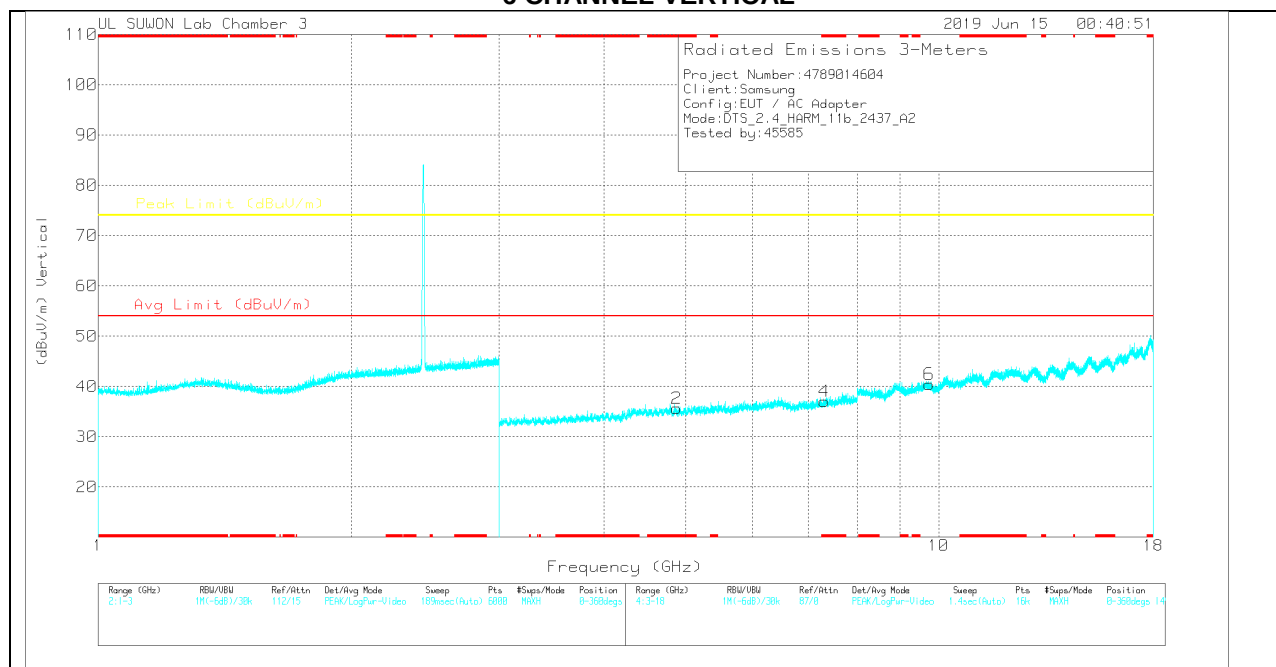
PK – Peak Detector

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

6 CHANNEL HORIZONTAL



6 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

6 CHANNEL DATA

Trace Markers

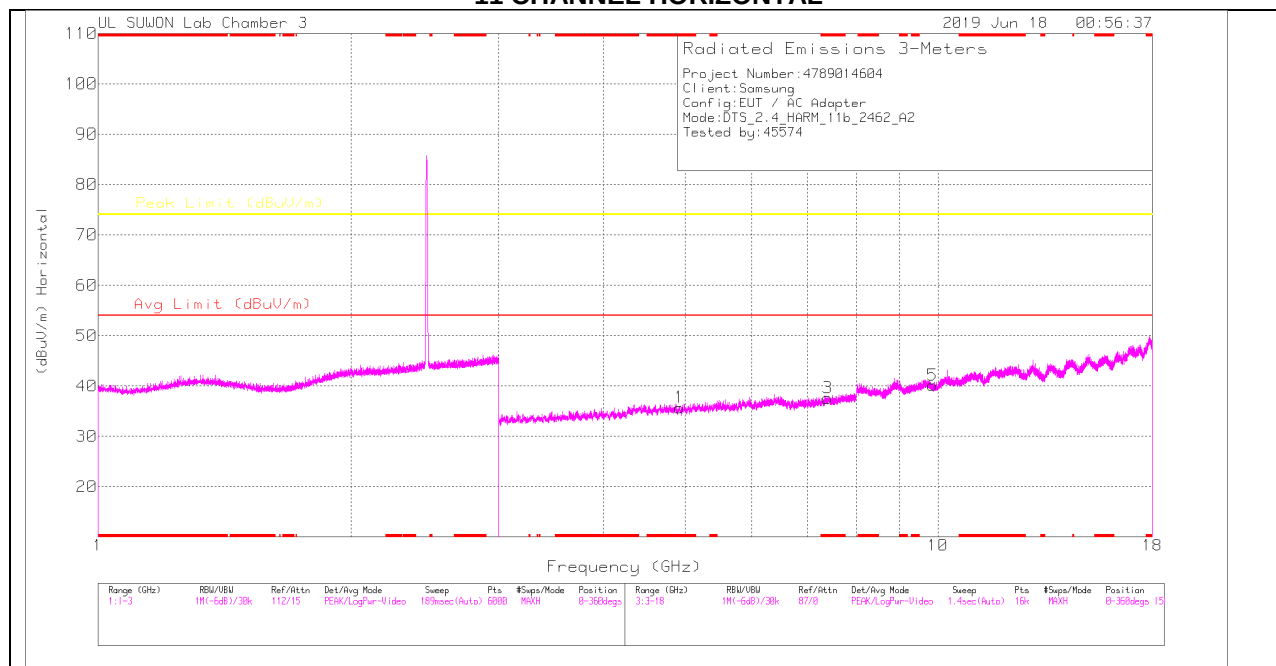
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.876	30.02	PK	34.2	-29.1	0	35.12	-	-	74	-38.88	0-360	250	H
3	* 7.305	25.38	PK	35.8	-23.8	0	37.38	-	-	74	-36.62	0-360	250	H
5	9.75	23.13	PK	37.2	-19.6	0	40.73	-	-	74	-33.27	0-360	150	H
2	* 4.878	30.56	PK	34.2	-29.1	0	35.66	-	-	74	-38.34	0-360	149	V
4	* 7.309	25.02	PK	35.8	-23.8	0	37.02	-	-	74	-36.98	0-360	250	V
6	9.744	22.83	PK	37.2	-19.6	0	40.43	-	-	74	-33.57	0-360	149	V

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

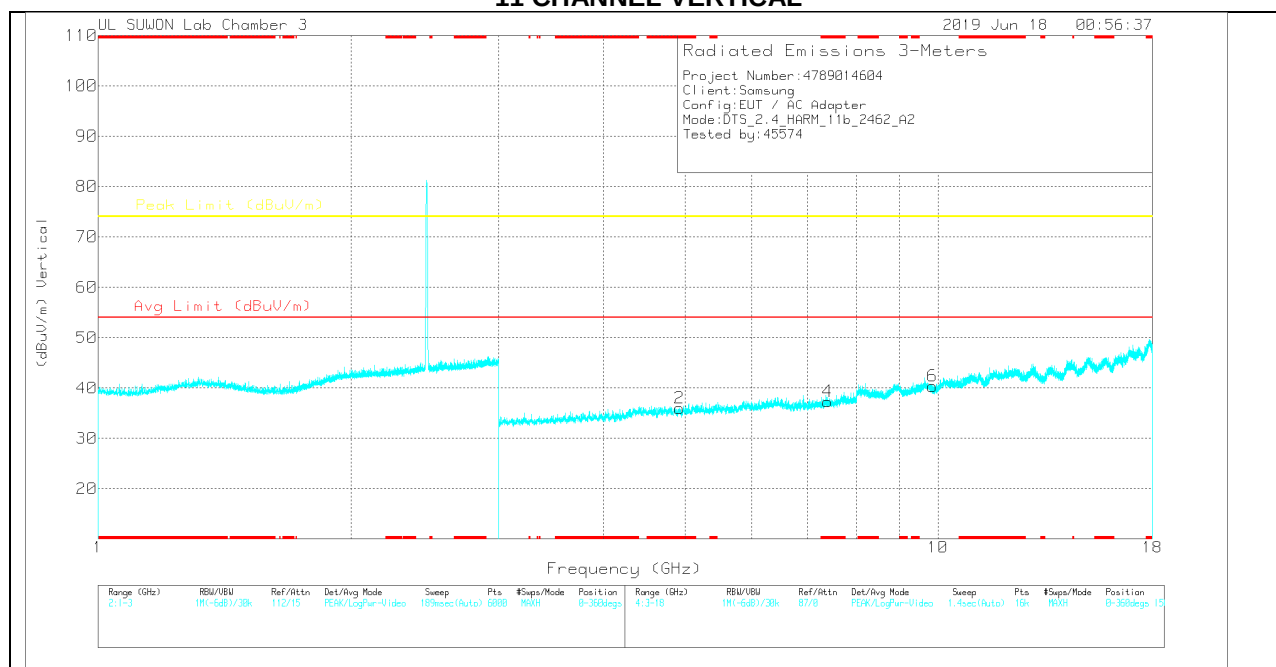
PK – Peak Detector

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

11 CHANNEL HORIZONTAL



11 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

11 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.926	30.71	PK	34.2	-29.2	0	35.71	-	-	74	-38.29	0-360	150	H
3	* 7.388	25.11	PK	35.8	-23.3	0	37.61	-	-	74	-36.39	0-360	250	H
5	9.849	22.46	PK	37.4	-19.7	0	40.16	-	-	74	-33.64	0-360	150	H
2	* 4.927	30.99	PK	34.2	-29.2	0	35.99	-	-	74	-38.01	0-360	150	V
4	* 7.388	24.8	PK	35.8	-23.3	0	37.3	-	-	74	-36.7	0-360	150	V
6	9.849	22.66	PK	37.4	-19.7	0	40.36	-	-	74	-33.64	0-360	150	V

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

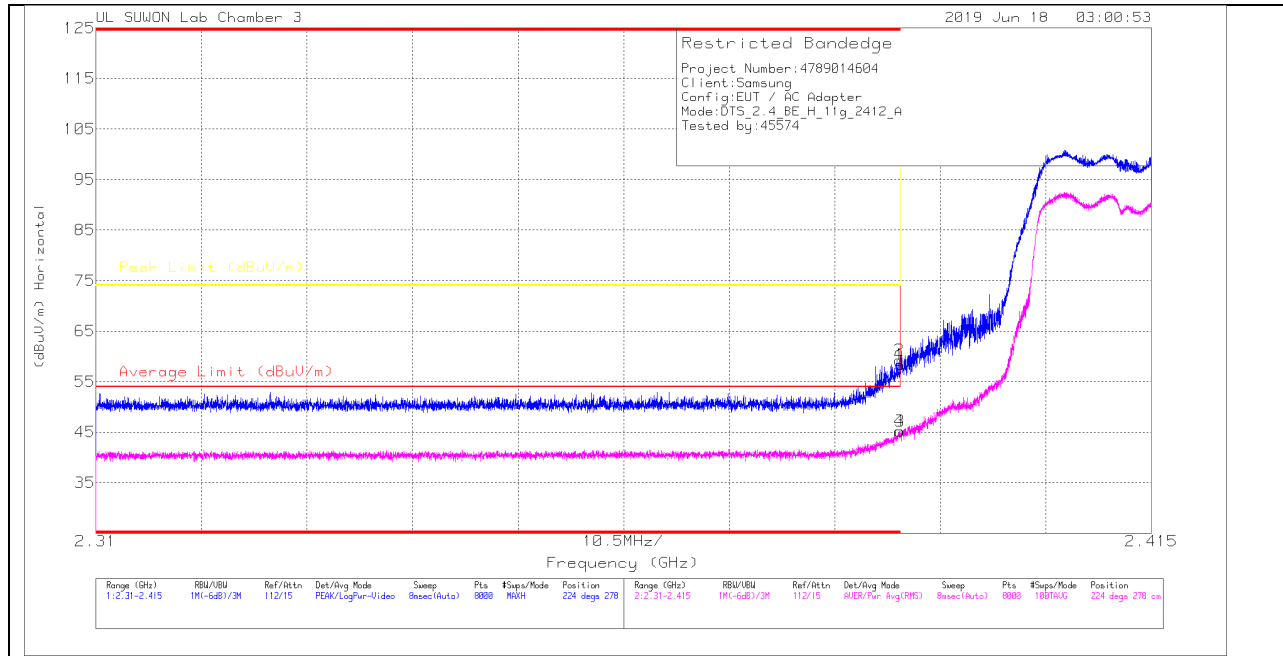
PK – Peak Detector

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

11.2.3. TX ABOVE 1 GHz 802.11g 2TX CDD MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

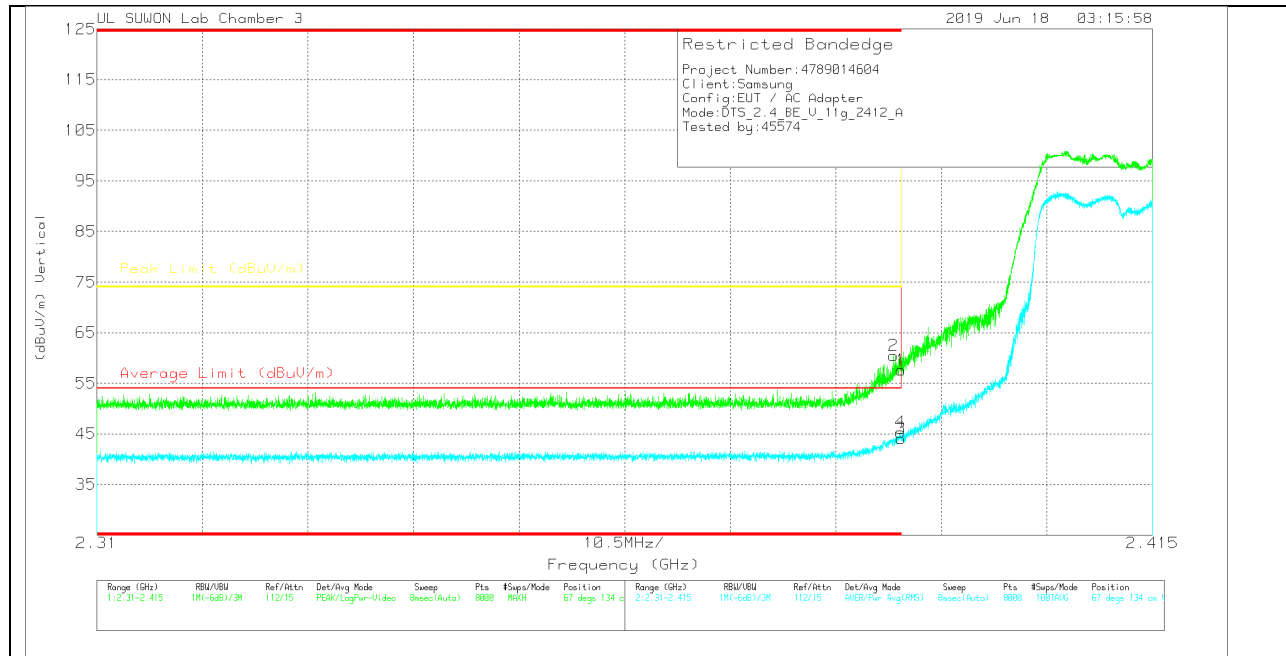
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	50.03	Pk	31.7	-23.4	0	58.33	-	-	74	-15.67	224	278	H
2	* 2.39	50.97	Pk	31.7	-23.4	0	59.27	-	-	74	-14.73	224	278	H
3	* 2.39	36.91	RMS	31.7	-23.4	0	45.21	54	-8.79	-	-	224	278	H
4	* 2.39	36.87	RMS	31.7	-23.4	0	45.17	54	-8.83	-	-	224	278	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(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	49.35	Pk	31.7	-23.4	0	57.65	-	-	74	-16.35	67	134	V
2	* 2.389	52.18	Pk	31.7	-23.4	0	60.48	-	-	74	-13.52	67	134	V
3	* 2.39	35.79	RMS	31.7	-23.4	0	44.09	54	-9.91	-	-	67	134	V
4	* 2.39	36.98	RMS	31.7	-23.4	0	45.28	54	-8.72	-	-	67	134	V

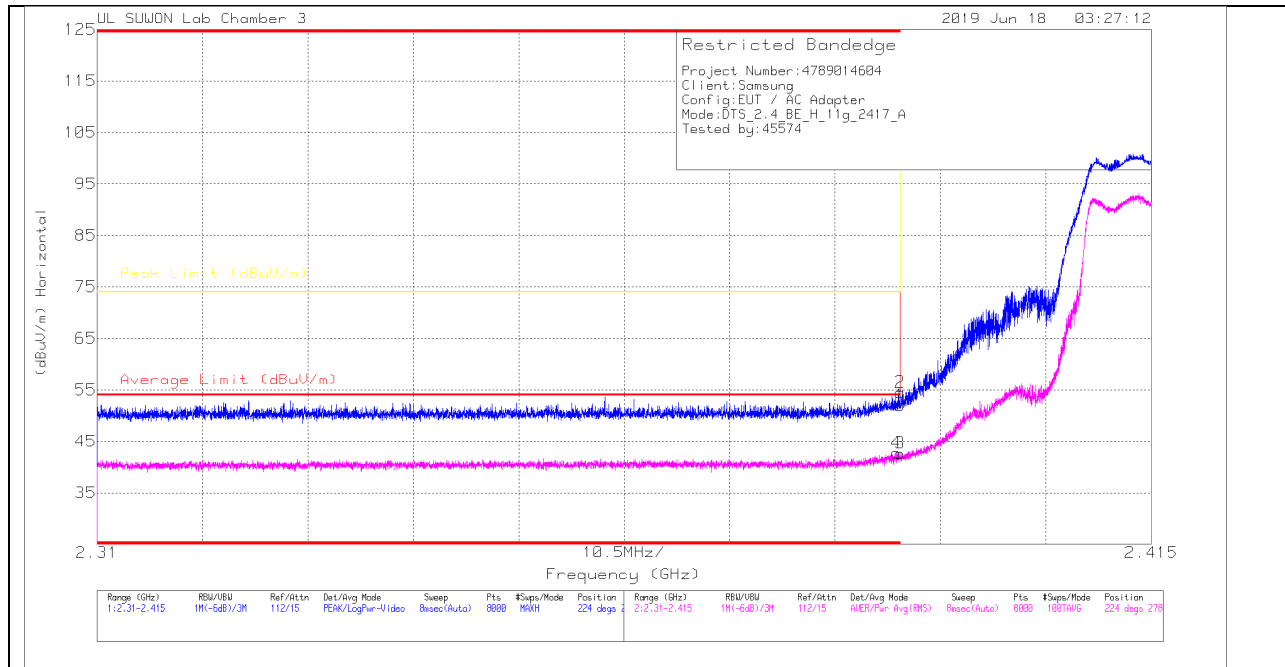
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (2 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

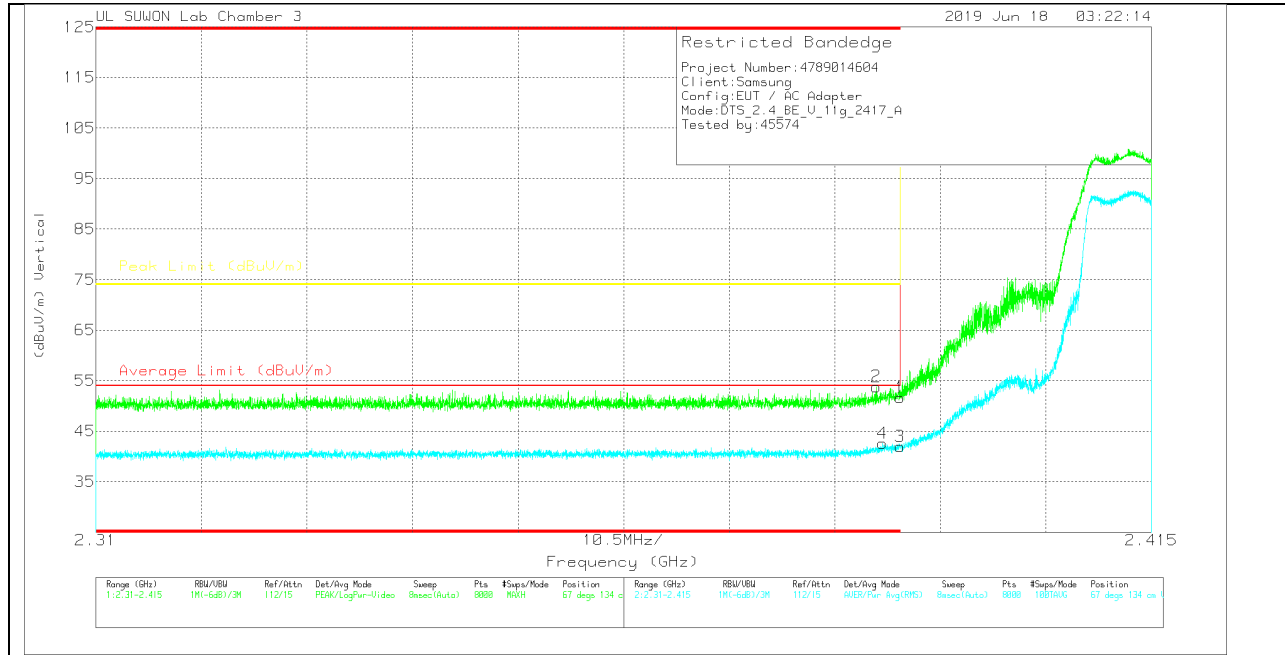
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.7	Pk	31.7	-23.4	0	52	-	-	74	-22	224	278	H
2	* 2.39	46.2	Pk	31.7	-23.4	0	54.5	-	-	74	-19.5	224	278	H
3	* 2.39	34.39	RMS	31.7	-23.4	0	42.69	54	-11.31	-	-	224	278	H
4	* 2.39	34.42	RMS	31.7	-23.4	0	42.72	54	-11.28	-	-	224	278	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(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	* 2.39	43.36	Pk	31.7	-23.4	0	51.66	-	-	74	-22.34	67	134	V
2	* 2.388	45.53	Pk	31.7	-23.4	0	53.83	-	-	74	-20.17	67	134	V
3	* 2.39	33.68	RMS	31.7	-23.4	0	41.98	54	-12.02	-	-	67	134	V
4	* 2.388	34.24	RMS	31.7	-23.4	0	42.54	54	-11.46	-	-	67	134	V

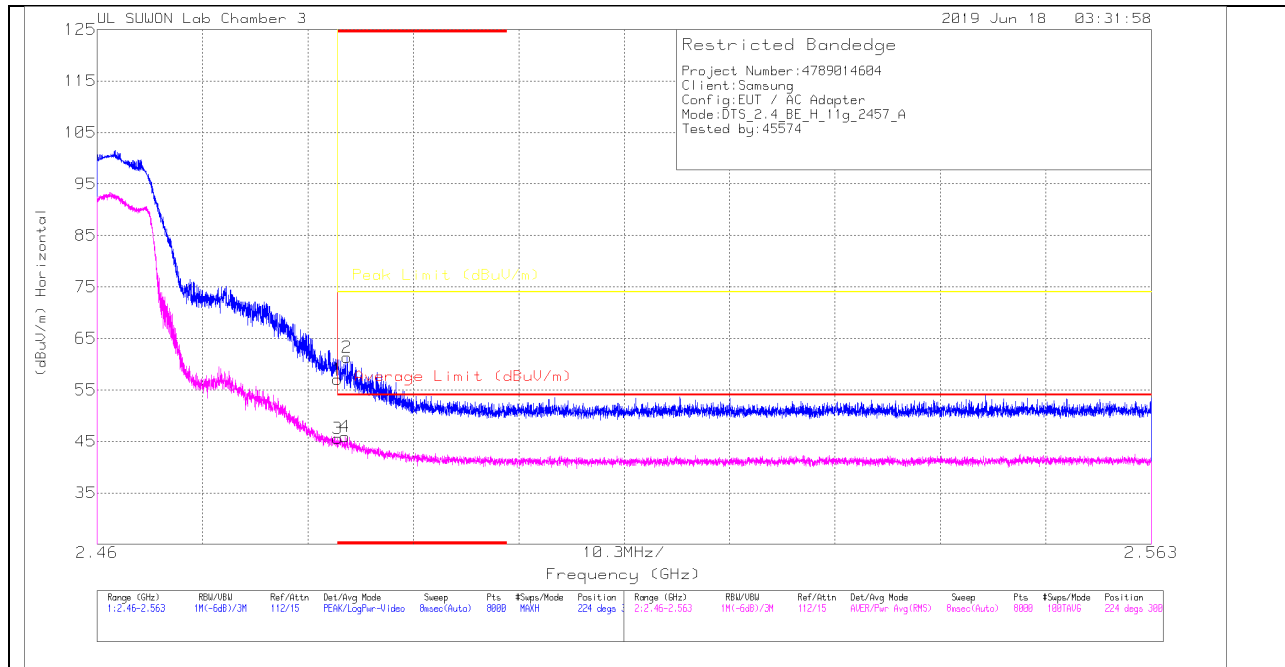
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (10 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

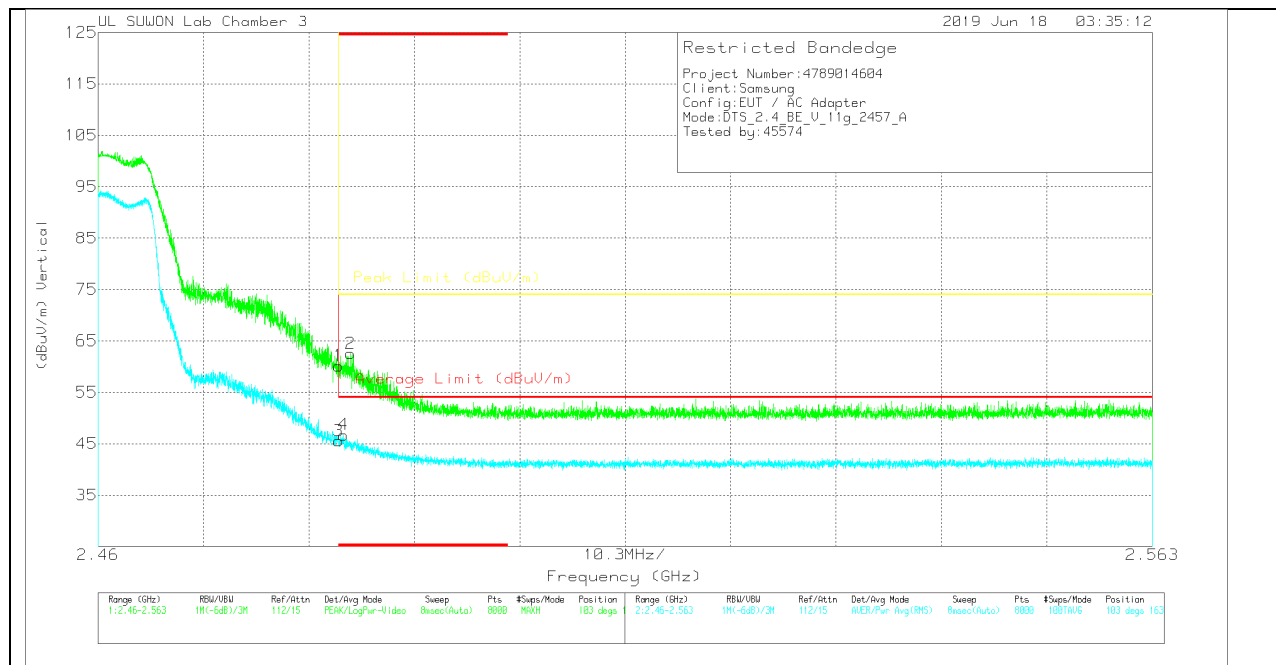
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.34	Pk	31.9	-23.2	0	57.04	-	-	74	-16.96	224	300	H
2	* 2.484	52.6	Pk	31.9	-23.2	0	61.3	-	-	74	-12.7	224	300	H
3	* 2.484	36.83	RMS	31.9	-23.2	0	45.53	54	-8.47	-	-	224	300	H
4	* 2.484	37.32	RMS	31.9	-23.3	0	45.92	54	-8.08	-	-	224	300	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(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	51.45	Pk	31.9	-23.2	0	60.15	-	-	74	-13.85	103	163	V
2	* 2.485	53.84	Pk	31.9	-23.2	0	62.54	-	-	74	-11.46	103	163	V
3	* 2.484	36.84	RMS	31.9	-23.2	0	45.54	54	-8.46	-	-	103	163	V
4	* 2.484	38.12	RMS	31.9	-23.3	0	46.72	54	-7.28	-	-	103	163	V

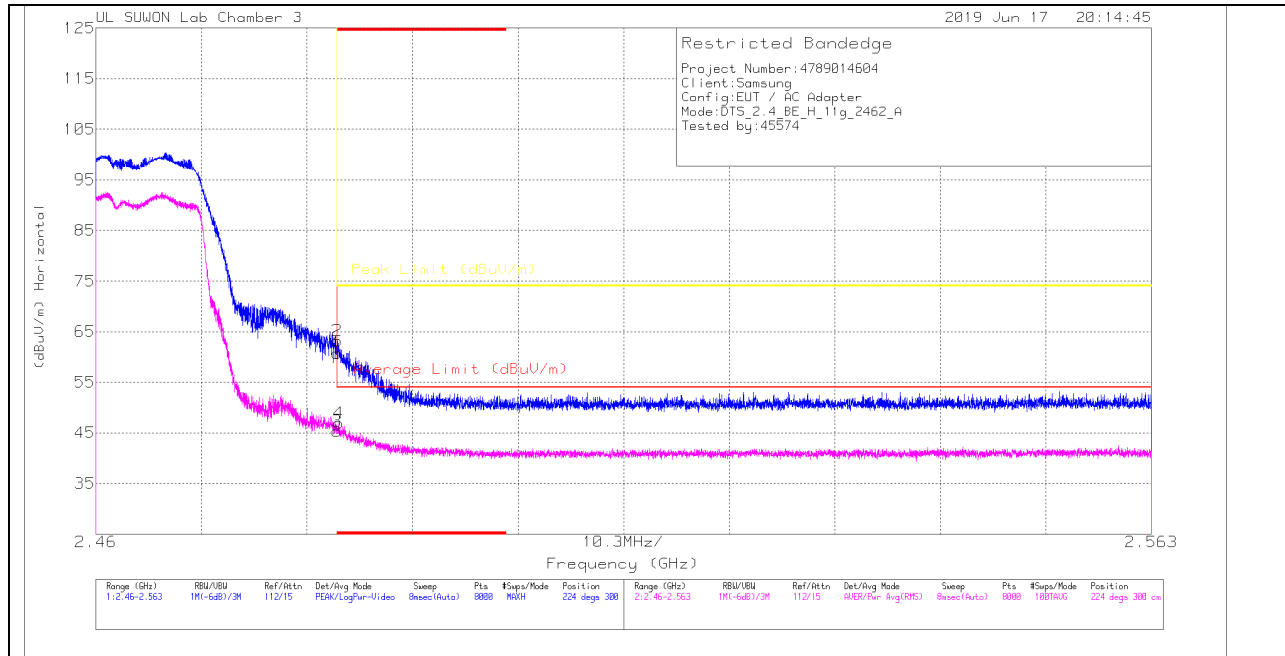
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

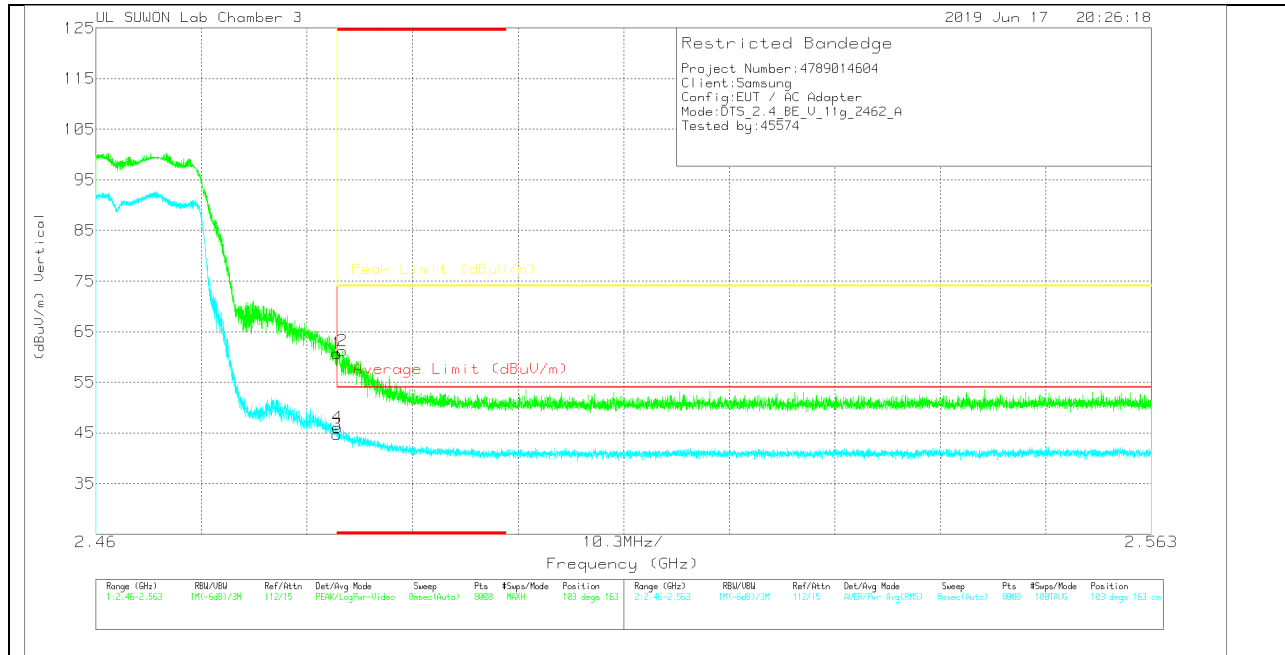
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.08	Pk	31.9	-23.2	0	60.78	-	-	74	-13.22	224	300	H
2	* 2.484	54.5	Pk	31.9	-23.2	0	63.2	-	-	74	-10.8	224	300	H
3	* 2.484	36.67	RMS	31.9	-23.2	0	45.37	54	-8.63	-	-	224	300	H
4	* 2.484	38.37	RMS	31.9	-23.3	0	46.97	54	-7.03	-	-	224	300	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(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	* 2.484	52	Pk	31.9	-23.2	0	60.7	-	-	74	-13.3	103	163	V
2	* 2.484	52.65	Pk	31.9	-23.3	0	61.25	-	-	74	-12.75	103	163	V
3	* 2.484	35.99	RMS	31.9	-23.2	0	44.69	54	-9.31	-	-	103	163	V
4	* 2.484	37.34	RMS	31.9	-23.2	0	46.04	54	-7.96	-	-	103	163	V

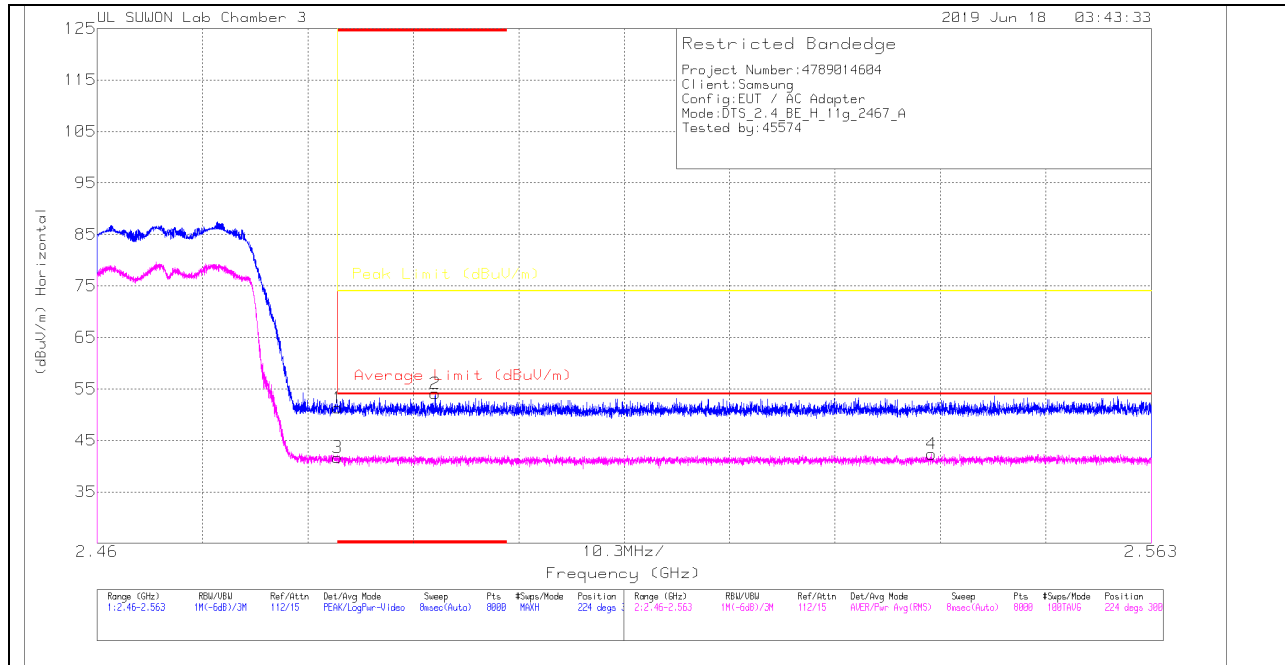
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

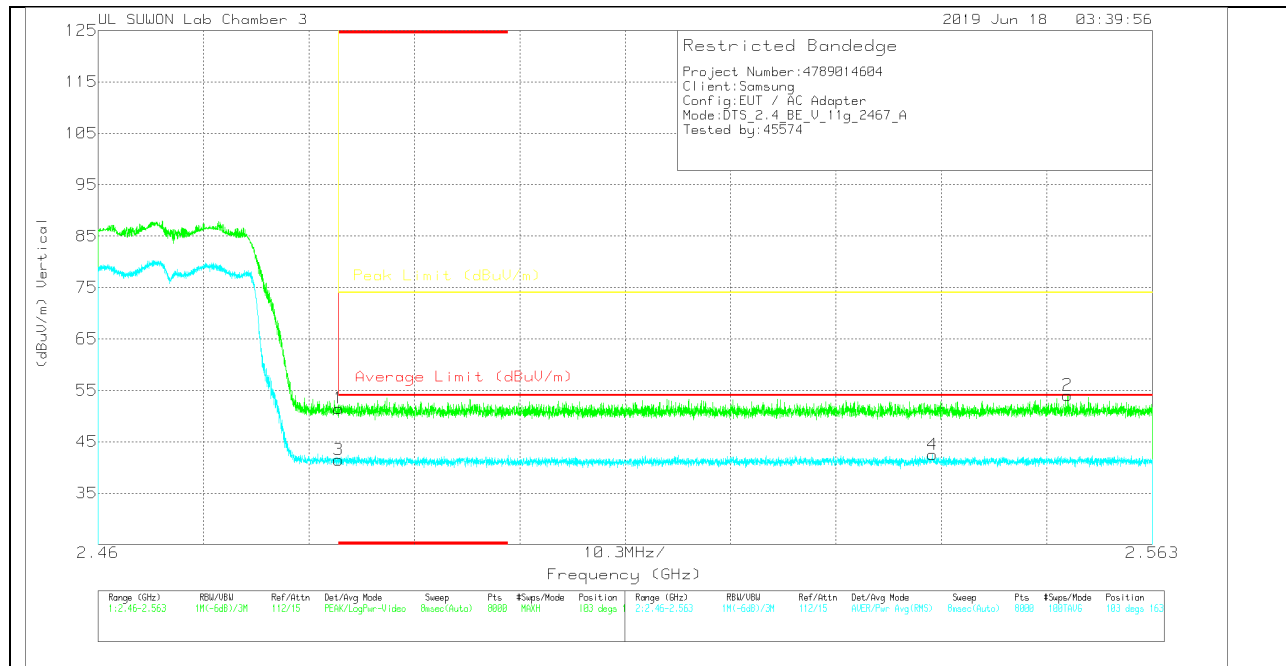
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.6	Pk	31.9	-23.2	0	51.3	-	-	74	-22.7	224	300	H
2	* 2.493	45.38	Pk	31.9	-23.2	0	54.08	-	-	74	-19.92	224	300	H
3	* 2.484	32.97	RMS	31.9	-23.2	0	41.67	54	-12.33	-	-	224	300	H
4	2.542	33.45	RMS	32	-23.1	0	42.35	54	-11.65	-	-	224	300	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(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	42.78	Pk	31.9	-23.2	0	51.48	-	-	74	-22.52	103	163	V
2	2.555	45.14	Pk	32	-23.1	0	54.04	-	-	74	-19.96	103	163	V
3	* 2.484	32.79	RMS	31.9	-23.2	0	41.49	54	-12.51	-	-	103	163	V
4	2.542	33.62	RMS	32	-23.1	0	42.52	54	-11.48	-	-	103	163	V

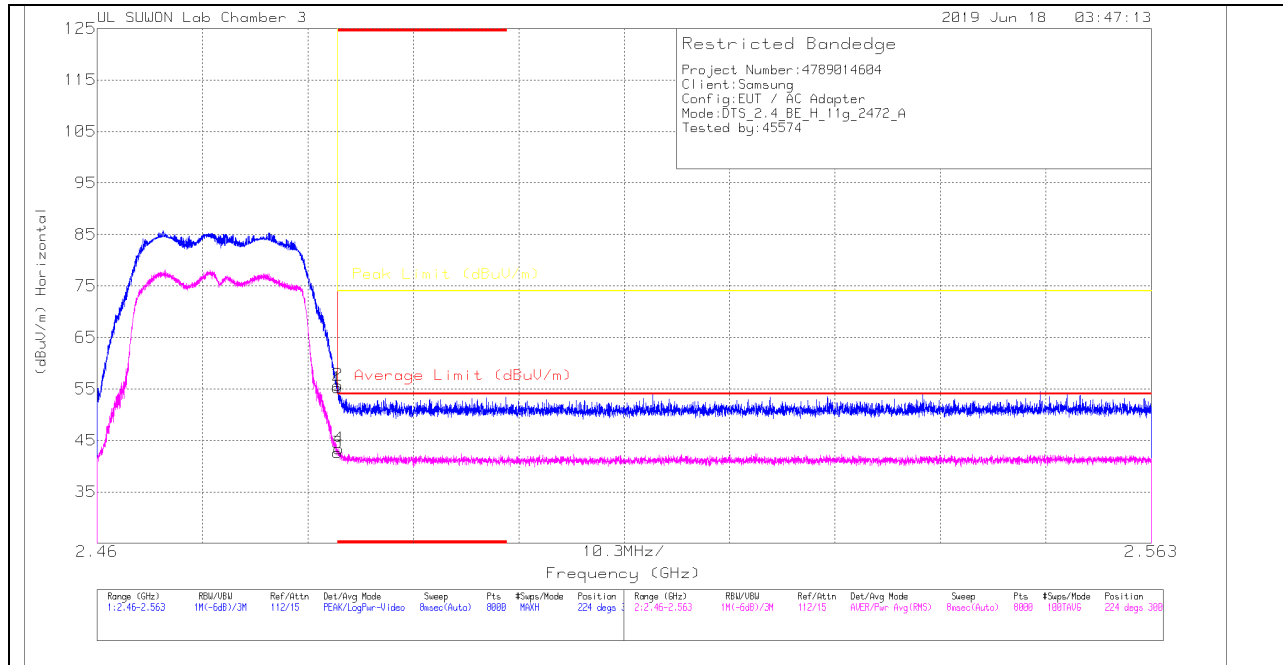
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

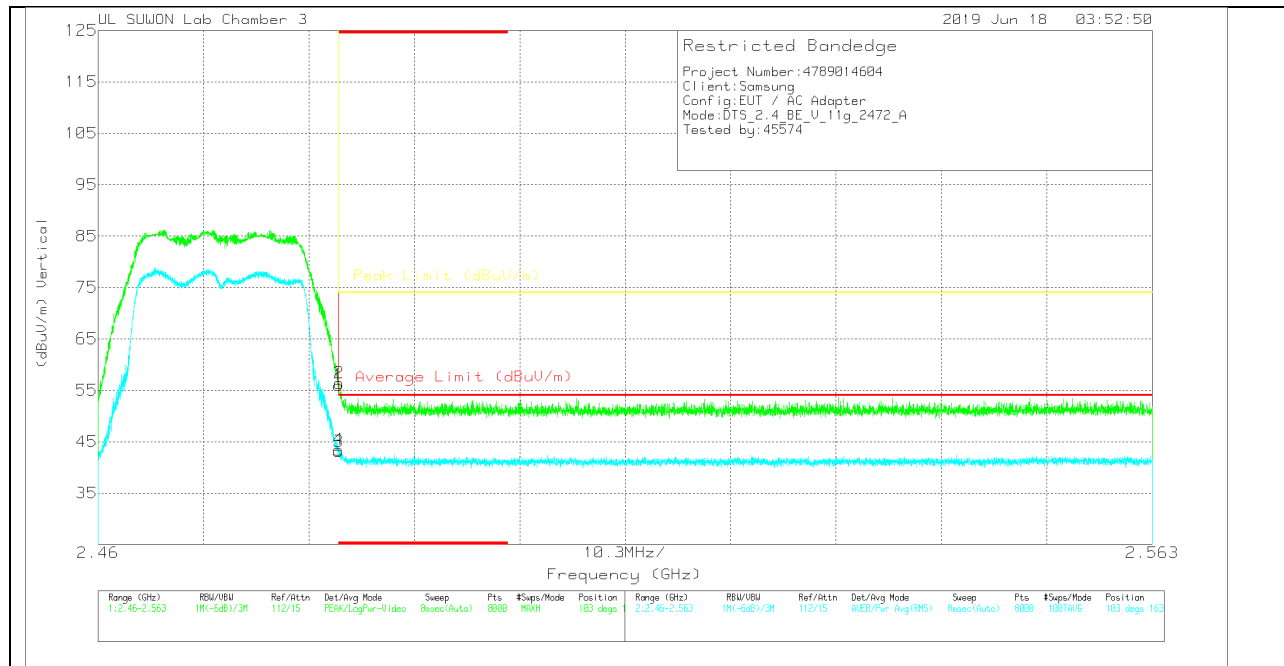
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.52	Pk	31.9	-23.2	0	55.22	-	-	74	-18.78	224	300	H
2	* 2.484	47.04	Pk	31.9	-23.2	0	55.74	-	-	74	-18.26	224	300	H
3	* 2.484	33.92	RMS	31.9	-23.2	0	42.62	54	-11.38	-	-	224	300	H
4	* 2.484	34.79	RMS	31.9	-23.3	0	43.39	54	-10.61	-	-	224	300	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(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	47.3	Pk	31.9	-23.2	0	56	-	-	74	-18	103	163	V
2	* 2.484	47.68	Pk	31.9	-23.2	0	56.38	-	-	74	-17.62	103	163	V
3	* 2.484	34.4	RMS	31.9	-23.2	0	43.1	54	-10.9	-	-	103	163	V
4	* 2.484	34.74	RMS	31.9	-23.2	0	43.44	54	-10.56	-	-	103	163	V

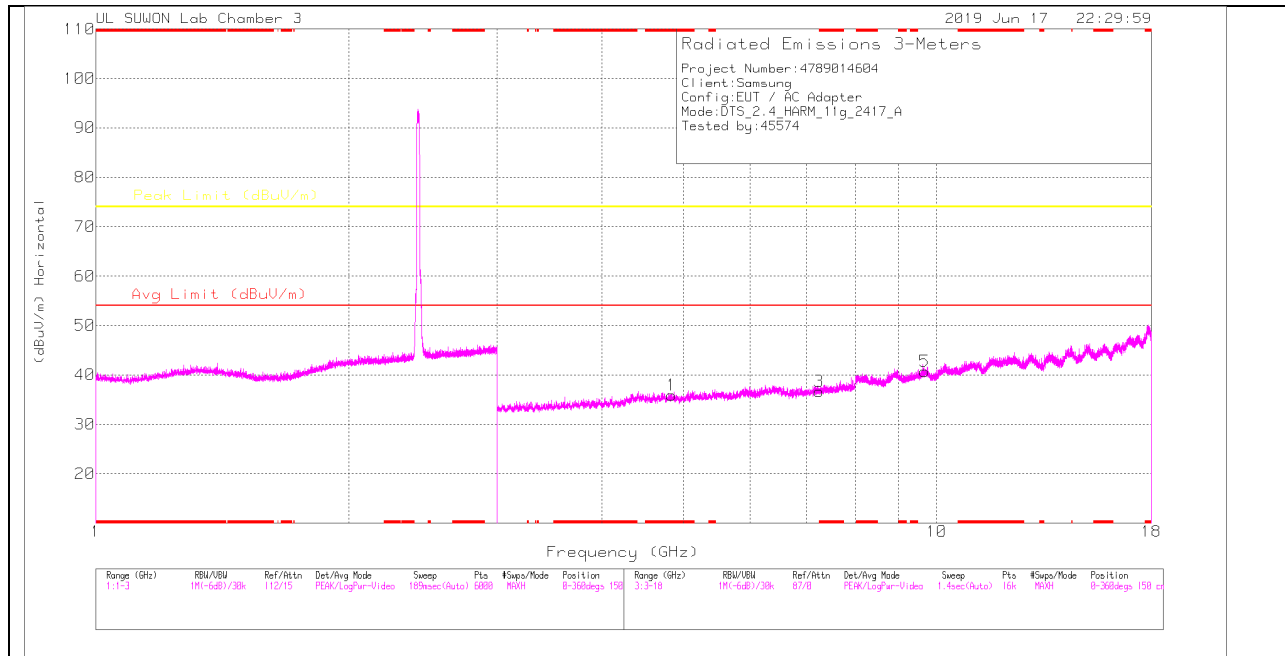
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

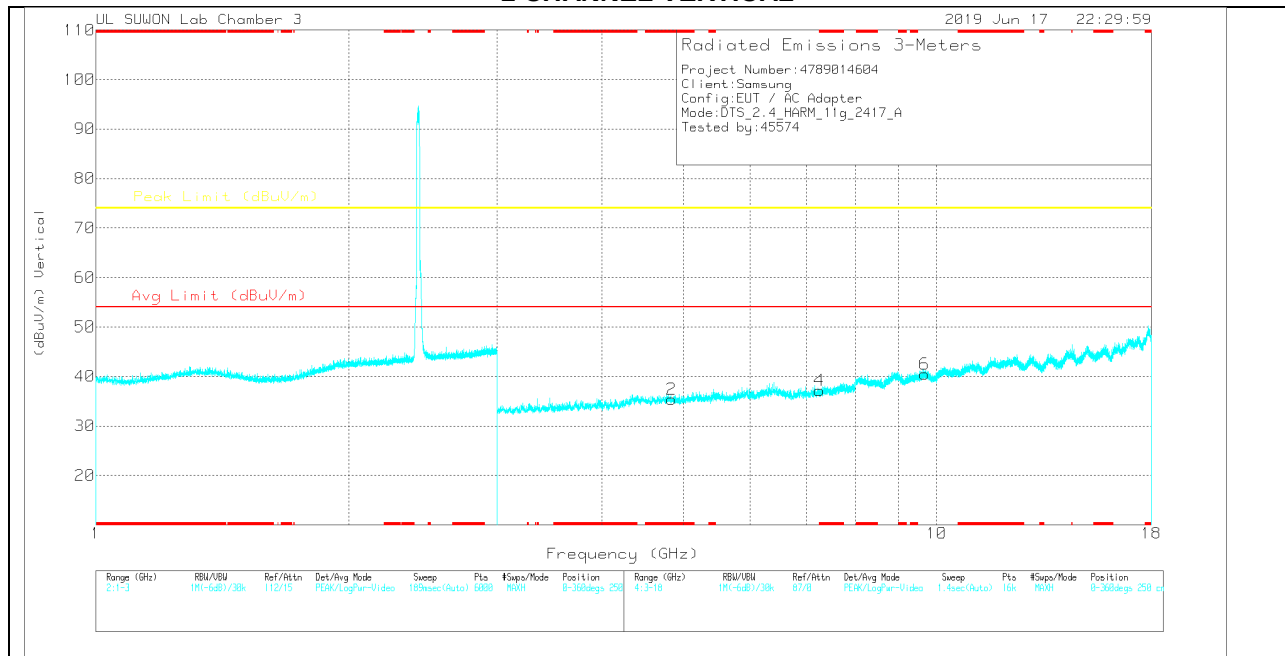
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

2 CHANNEL HORIZONTAL



2 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

2 CHANNEL DATA

Trace Markers

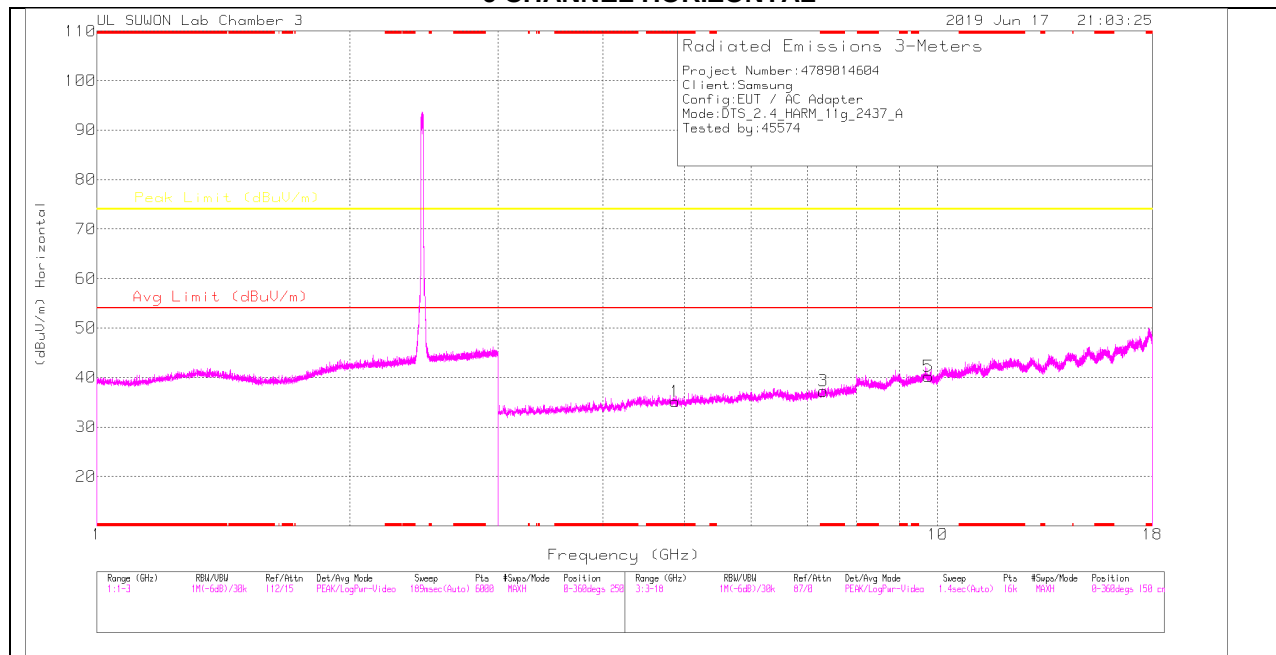
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.836	30.43	PK	34.2	-28.7	0	35.93	-	-	74	-38.07	0-360	150	H
3	* 7.252	24.88	PK	35.8	-24	0	36.68	-	-	74	-37.32	0-360	250	H
5	9.67	23.3	PK	37.1	-19.7	0	40.7	-	-	74	-33.3	0-360	150	H
2	* 4.835	29.78	PK	34.2	-28.6	0	35.38	-	-	74	-38.62	0-360	150	V
4	* 7.253	25.45	PK	35.8	-24.1	0	37.15	-	-	74	-36.85	0-360	250	V
6	9.669	23.06	PK	37.1	-19.7	0	40.46	-	-	74	-33.54	0-360	150	V

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

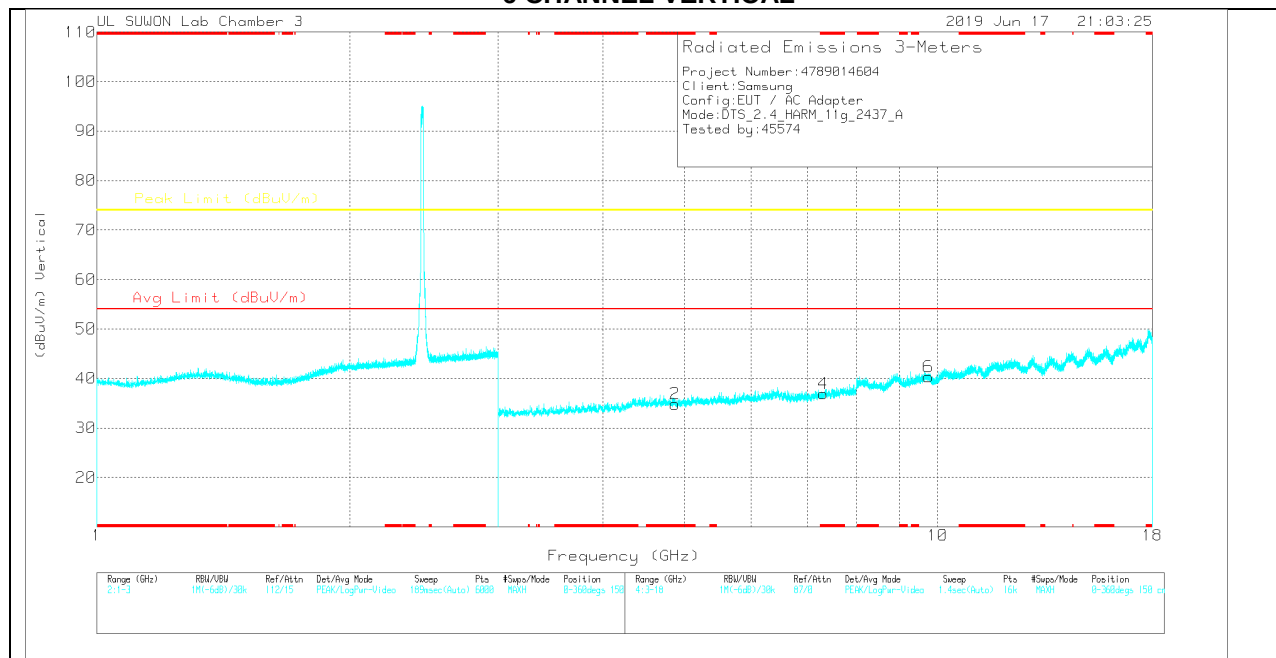
PK – Peak Detector

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

6 CHANNEL HORIZONTAL



6 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

6 CHANNEL DATA

Trace Markers

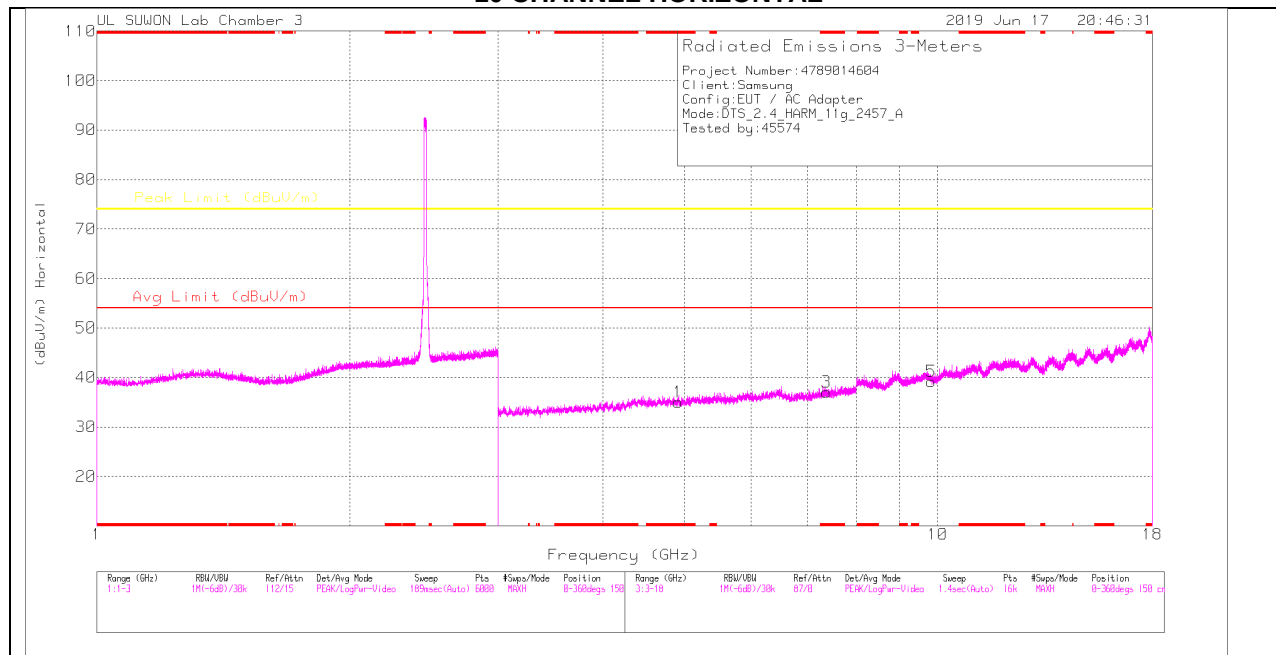
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.874	29.93	PK	34.2	-29	0	35.13	-	-	74	-38.87	0-360	250	H
3	* 7.311	25.34	PK	35.8	-23.9	0	37.24	-	-	74	-36.76	0-360	150	H
5	9.749	22.63	PK	37.2	-19.6	0	40.23	-	-	74	-33.77	0-360	250	H
2	* 4.874	29.63	PK	34.2	-29	0	34.83	-	-	74	-39.17	0-360	250	V
4	* 7.311	24.99	PK	35.8	-23.9	0	36.89	-	-	74	-37.11	0-360	150	V
6	9.749	22.74	PK	37.2	-19.6	0	40.34	-	-	74	-33.66	0-360	150	V

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

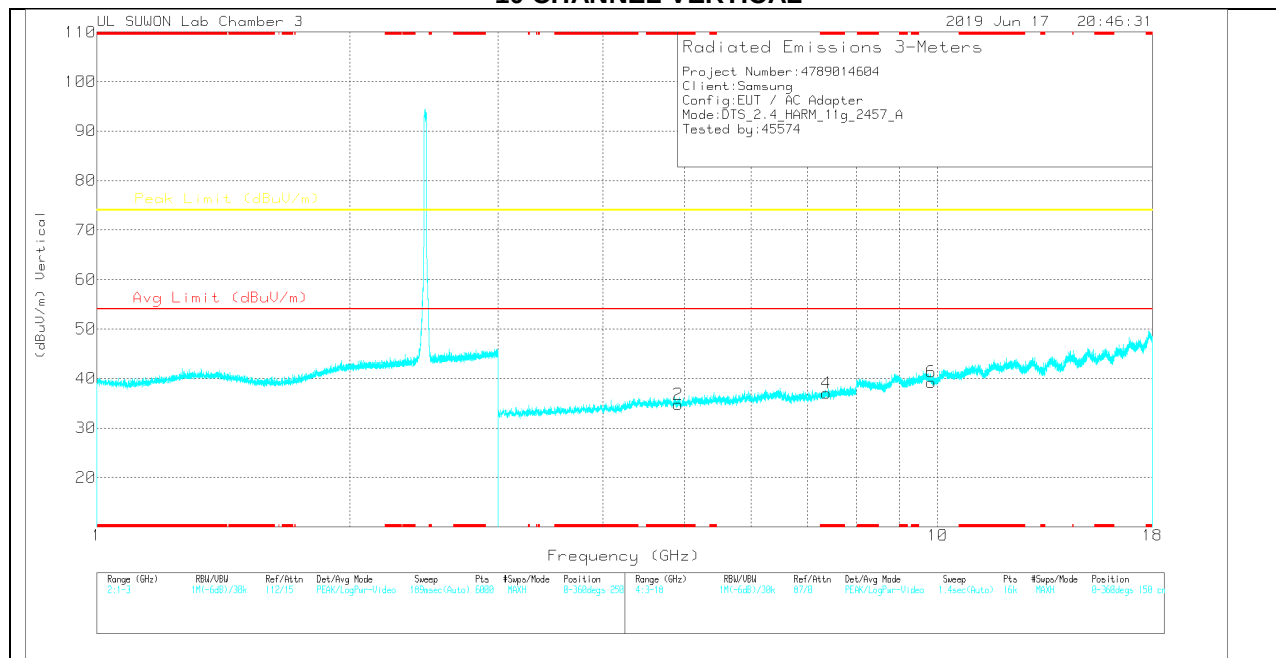
PK – Peak Detector

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

10 CHANNEL HORIZONTAL



10 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

10 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.914	29.97	PK	34.2	-29.2	0	34.97	-	-	74	-39.03	0-360	250	H
3	* 7.372	24.49	PK	35.8	-23.3	0	36.99	-	-	74	-37.01	0-360	250	H
5	9.828	21.46	PK	37.4	-19.7	0	39.16	-	-	74	-34.84	0-360	150	H
2	* 4.914	29.71	PK	34.2	-29.2	0	34.71	-	-	74	-39.29	0-360	250	V
4	* 7.372	24.56	PK	35.8	-23.3	0	37.06	-	-	74	-36.94	0-360	250	V
6	9.828	21.57	PK	37.4	-19.7	0	39.27	-	-	74	-34.73	0-360	250	V

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

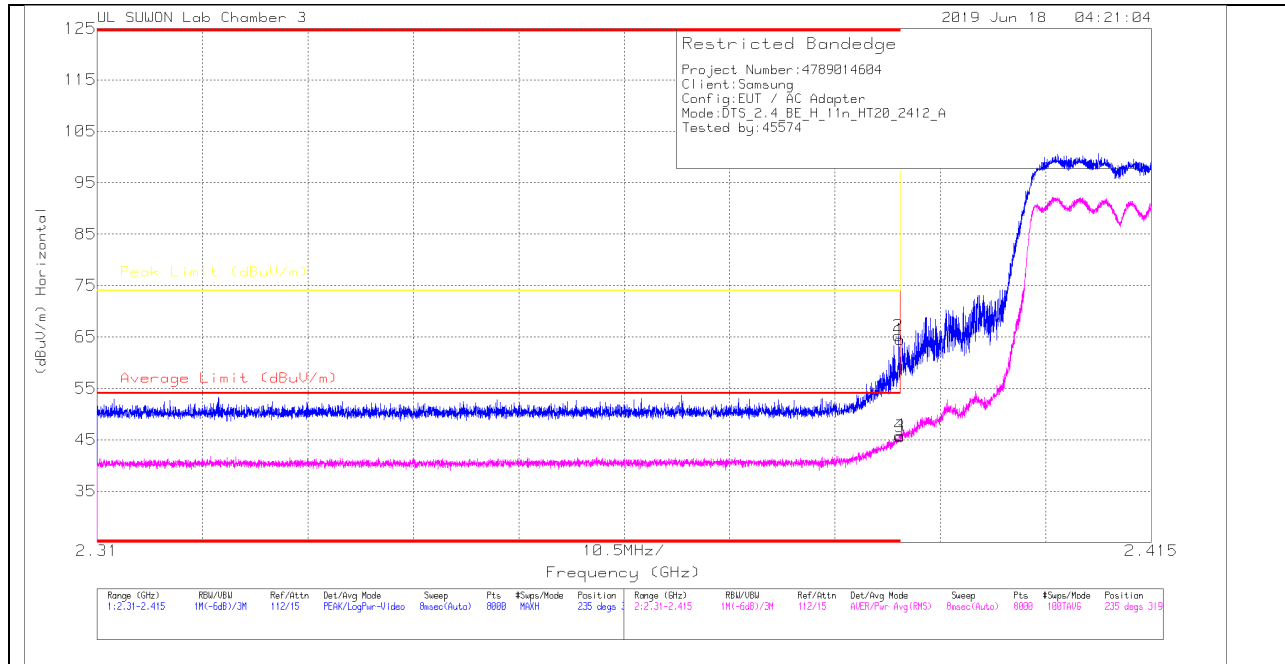
PK – Peak Detector

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

11.2.4. TX ABOVE 1GHz 802.11n HT20 2TX CDD MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

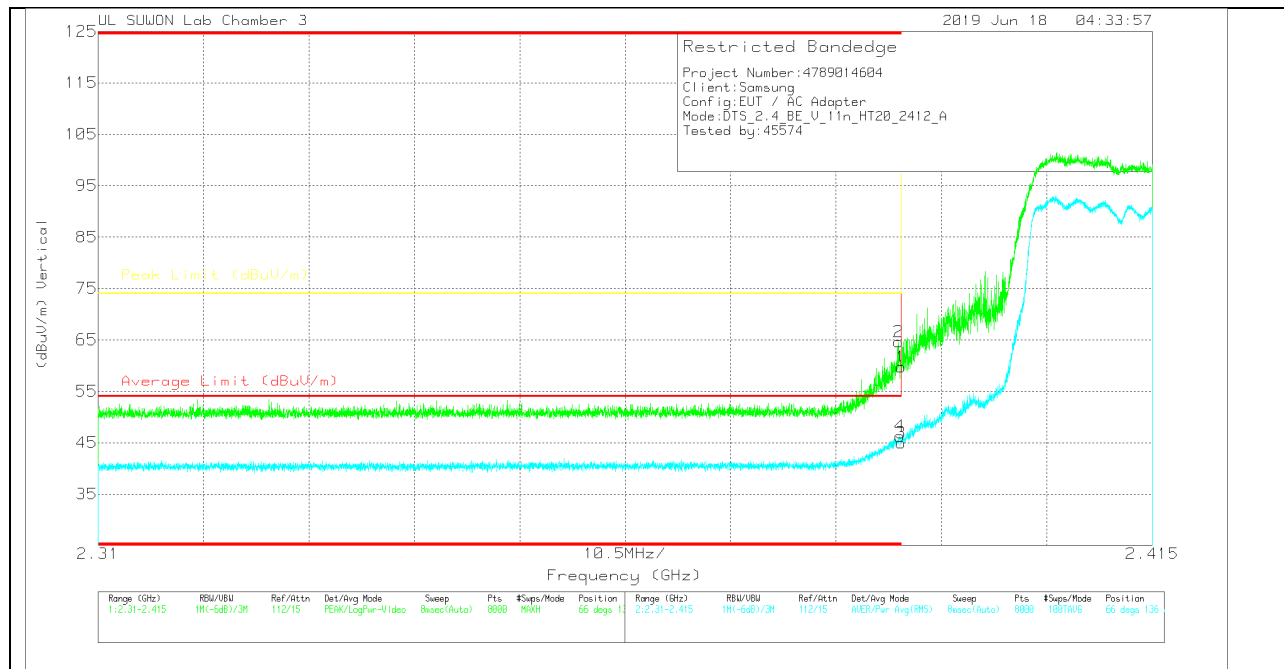
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	56.19	Pk	31.7	-23.4	0	64.49	-	-	74	-9.51	235	319	H
2	* 2.39	56.94	Pk	31.7	-23.4	0	65.24	-	-	74	-8.76	235	319	H
3	* 2.39	37.3	RMS	31.7	-23.4	0	45.6	54	-8.4	-	-	235	319	H
4	* 2.39	37.54	RMS	31.7	-23.4	0	45.84	54	-8.16	-	-	235	319	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(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	* 2.39	51.43	PK		31.7	-23.4	0	59.73	-	74	-14.27	66	136	V
2	* 2.39	56.31	PK		31.7	-23.4	0	64.61	-	74	-9.39	66	136	V
3	* 2.39	36.63	RMS		31.7	-23.4	0	44.93	-	54	-9.07	66	136	V
4	* 2.39	37.96	RMS		31.7	-23.4	0	46.26	-	54	-7.74	66	136	V

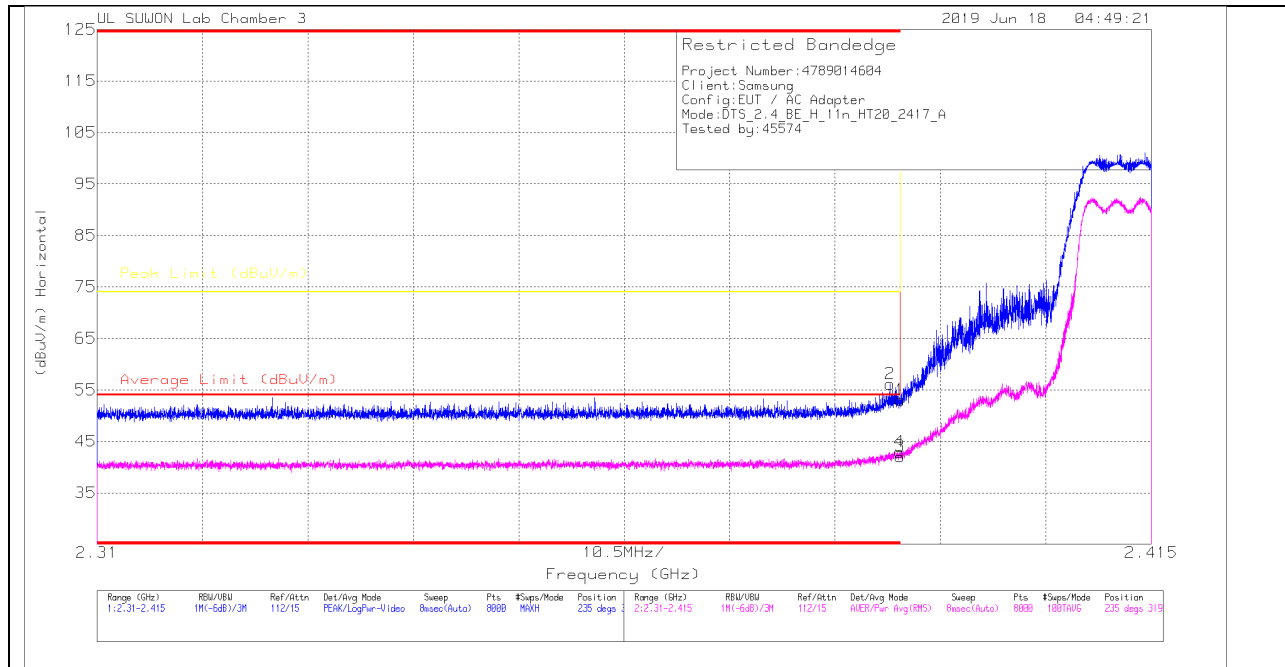
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (2 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

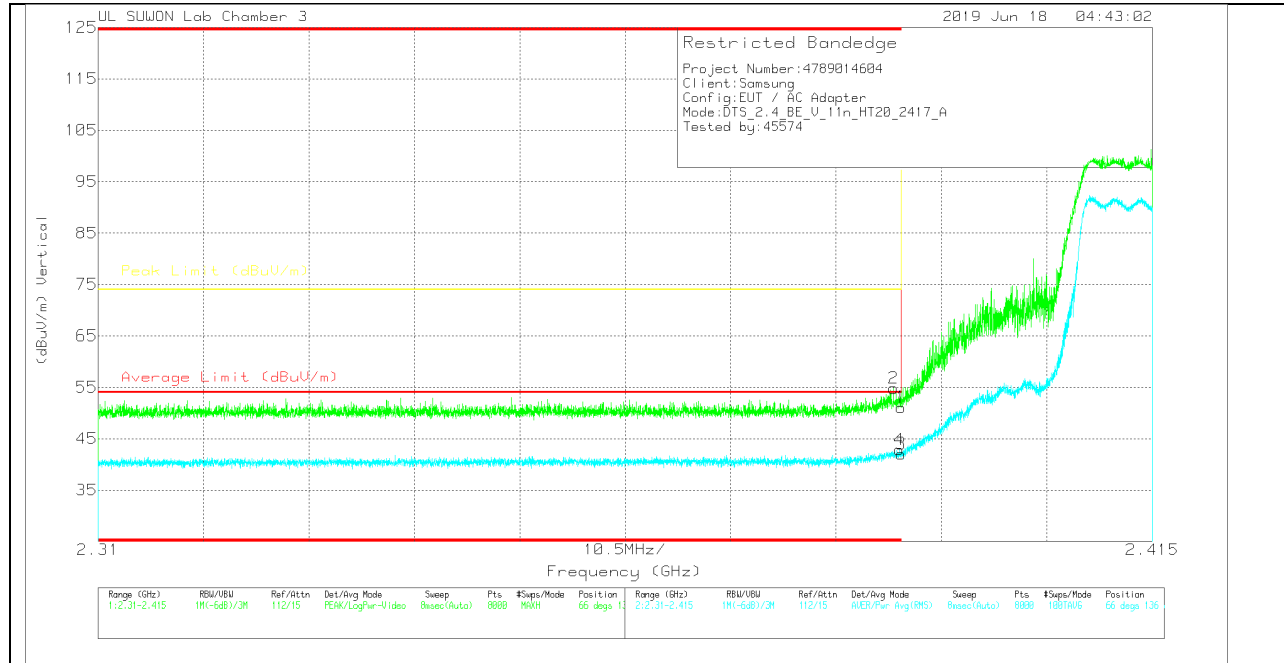
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.73	Pk	31.7	-23.4	0	53.03	-	-	74	-20.97	235	319	H
2	* 2.389	47.84	Pk	31.7	-23.4	0	56.14	-	-	74	-17.86	235	319	H
3	* 2.39	33.77	RMS	31.7	-23.4	0	42.07	54	-11.93	-	-	235	319	H
4	* 2.39	34.66	RMS	31.7	-23.4	0	42.96	54	-11.04	-	-	235	319	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(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	* 2.39	42.8	PK	31.7	-23.4	0	51.1	-	-	74	-22.9	66	136	V
2	* 2.389	46.51	PK	31.7	-23.4	0	54.81	-	-	74	-19.19	66	136	V
3	* 2.39	33.75	RMS	31.7	-23.4	0	42.05	54	-11.95	-	-	66	136	V
4	* 2.39	34.56	RMS	31.7	-23.4	0	42.86	54	-11.14	-	-	66	136	V

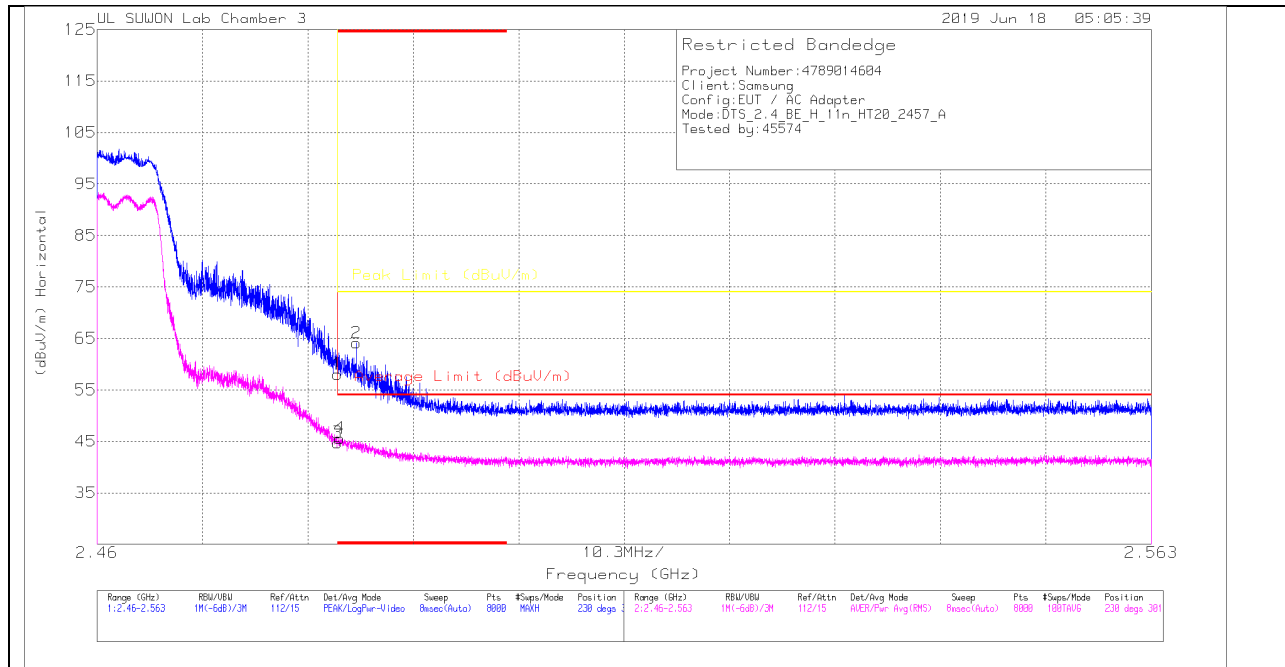
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (10 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

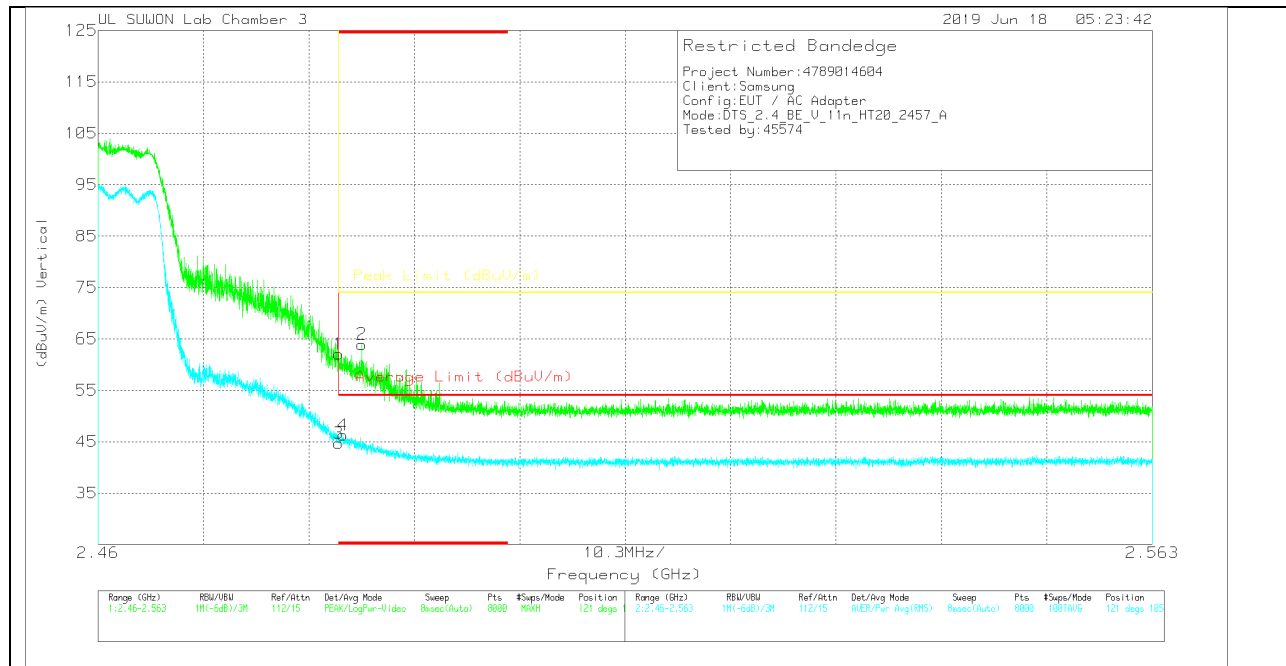
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.37	Pk	31.9	-23.2	0	58.07	-	-	74	-15.93	230	301	H
2	* 2.485	55.43	Pk	31.9	-23.2	0	64.13	-	-	74	-9.87	230	301	H
3	* 2.484	36.03	RMS	31.9	-23.2	0	44.73	54	-9.27	-	-	230	301	H
4	* 2.484	37.01	RMS	31.9	-23.3	0	45.61	54	-8.39	-	-	230	301	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(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	* 2.484	53.33	Pk		31.9	-23.2	0	62.03	-	74	-11.97	121	105	V
2	* 2.486	55.22	Pk		31.9	-23.2	0	63.92	-	74	-10.08	121	105	V
3	* 2.484	35.98	RMS		31.9	-23.2	0	44.68	54	-9.32	-	121	105	V
4	* 2.484	37.69	RMS		31.9	-23.3	0	46.29	54	-7.71	-	121	105	V

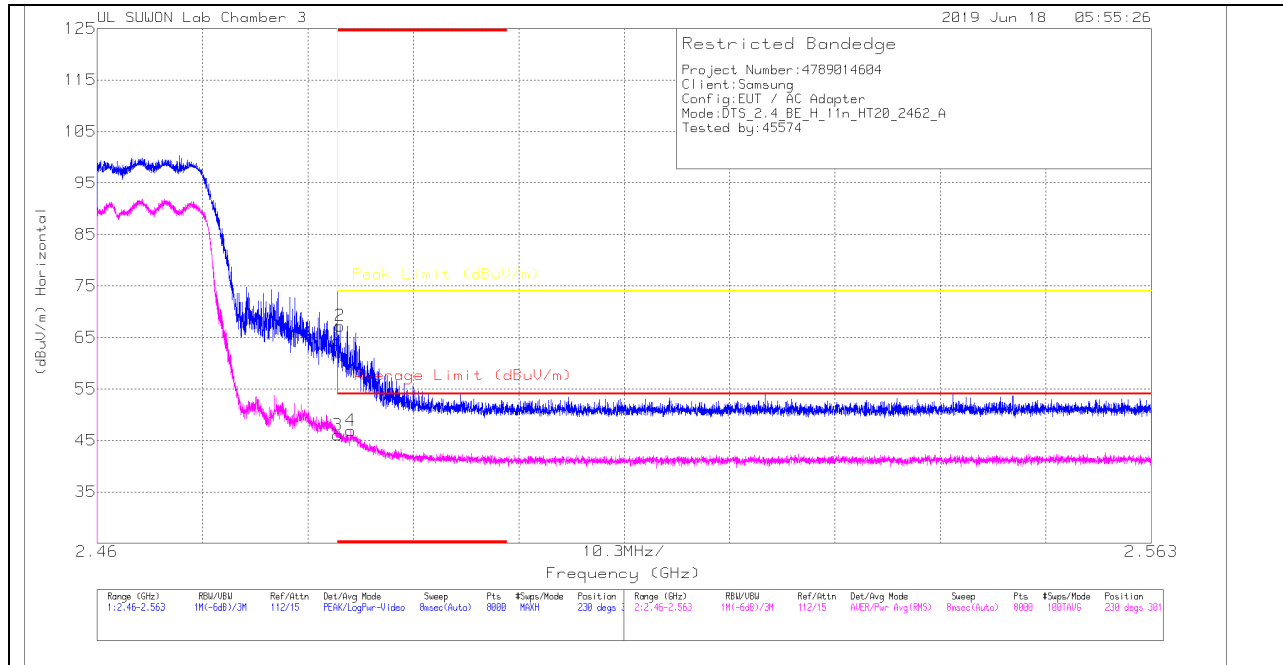
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

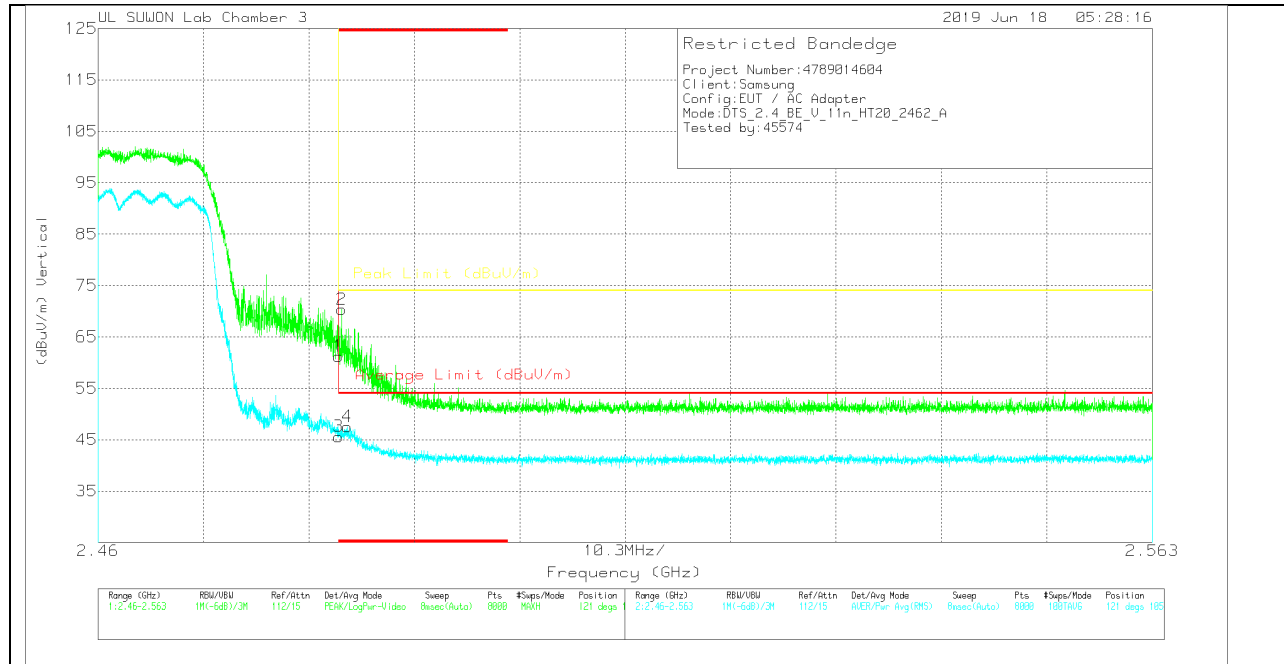
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.72	Pk	31.9	-23.2	0	64.42	-	-	74	-9.58	230	301	H
2	* 2.484	58.65	Pk	31.9	-23.3	0	67.25	-	-	74	-6.75	230	301	H
3	* 2.484	37.35	RMS	31.9	-23.2	0	46.05	54	-7.95	-	-	230	301	H
4	* 2.485	38.24	RMS	31.9	-23.2	0	46.94	54	-7.06	-	-	230	301	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(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	* 2.484	52.53	Pk	31.9	-23.2	0	61.23	-	-	74	-12.77	121	105	V
2	* 2.484	61.77	Pk	31.9	-23.3	0	70.37	-	-	74	-3.63	121	105	V
3	* 2.484	36.92	RMS	31.9	-23.2	0	45.62	54	-8.38	-	-	121	105	V
4	* 2.484	38.93	RMS	31.9	-23.3	0	47.53	54	-6.47	-	-	121	105	V

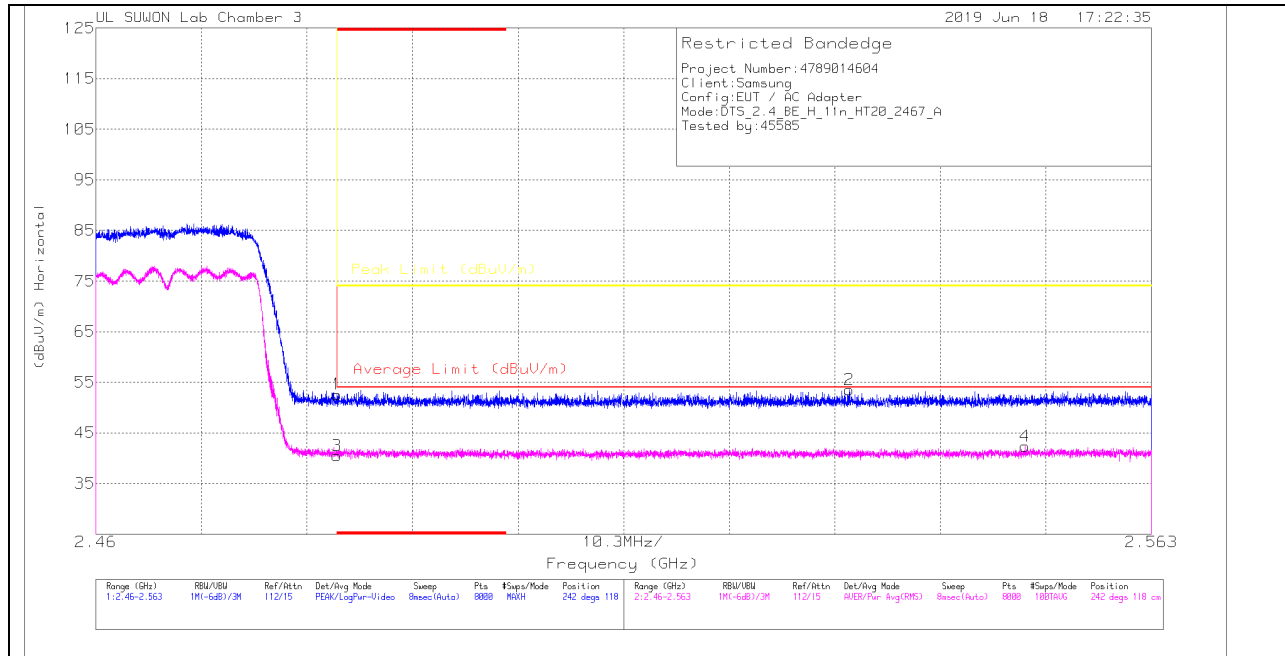
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

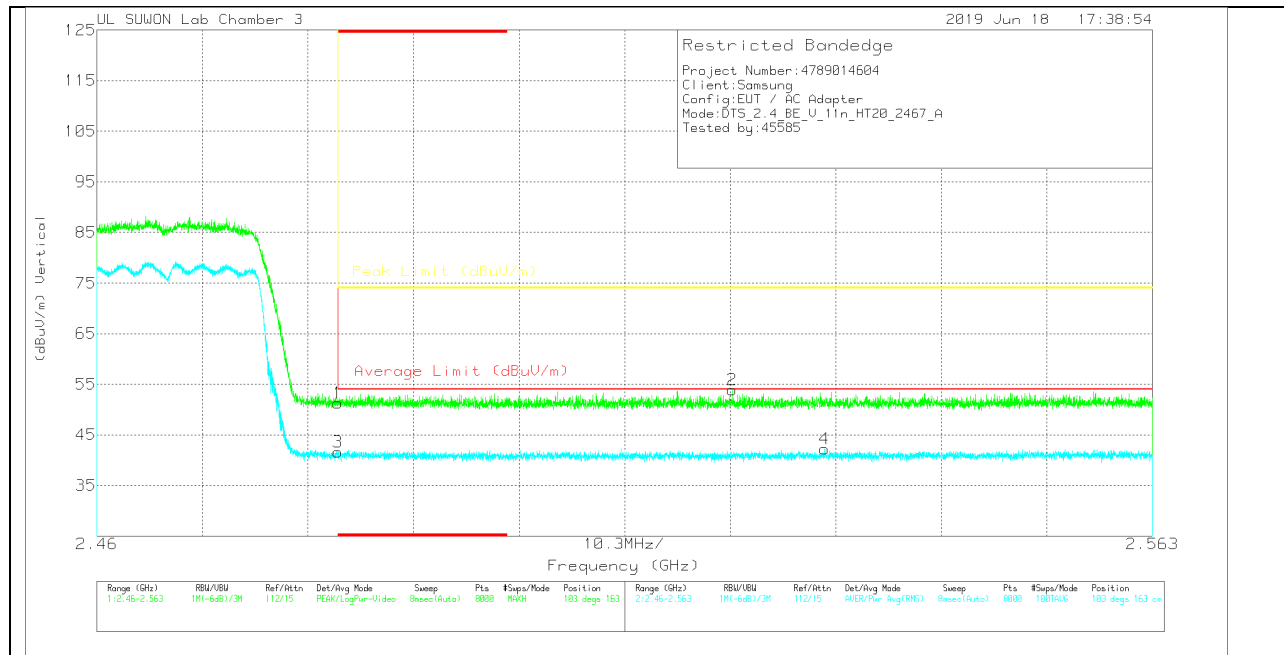
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	43.89	Pk	31.9	-23.2	0	52.59	-	-	74	-21.41	242	118	H
2	2.534	44.71	Pk	32	-23.2	0	53.51	-	-	74	-20.49	242	118	H
3	* 2.484	31.79	RMS	31.9	-23.2	0	40.49	54	-13.51	-	-	242	118	H
4	2.551	33.47	RMS	32	-23.1	0	42.37	54	-11.63	-	-	242	118	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(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	* 2.484	42.59	Pk	31.9	-23.2	0	51.29	-	-	74	-22.71	103	163	V
2	2.522	45.03	Pk	32	-23.1	0	53.93	-	-	74	-20.07	103	163	V
3	* 2.484	32.86	RMS	31.9	-23.2	0	41.56	54	-12.44	-	-	103	163	V
4	2.531	33.3	RMS	32	-23.1	0	42.2	54	-11.8	-	-	103	163	V

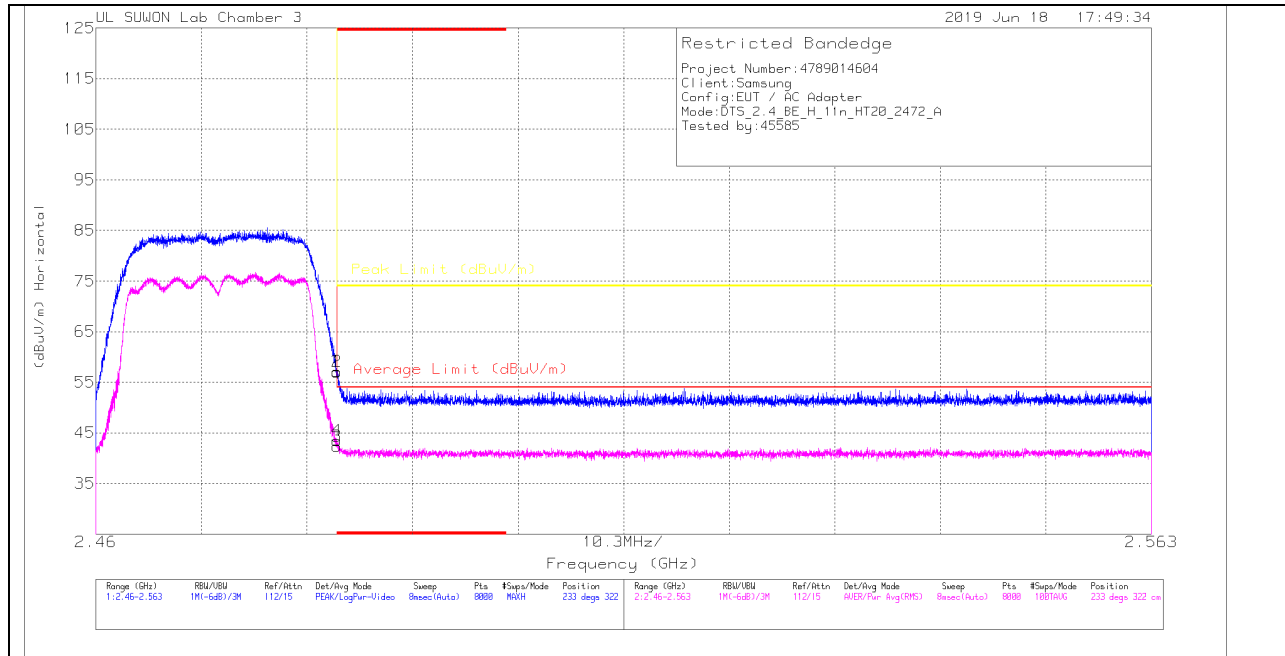
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

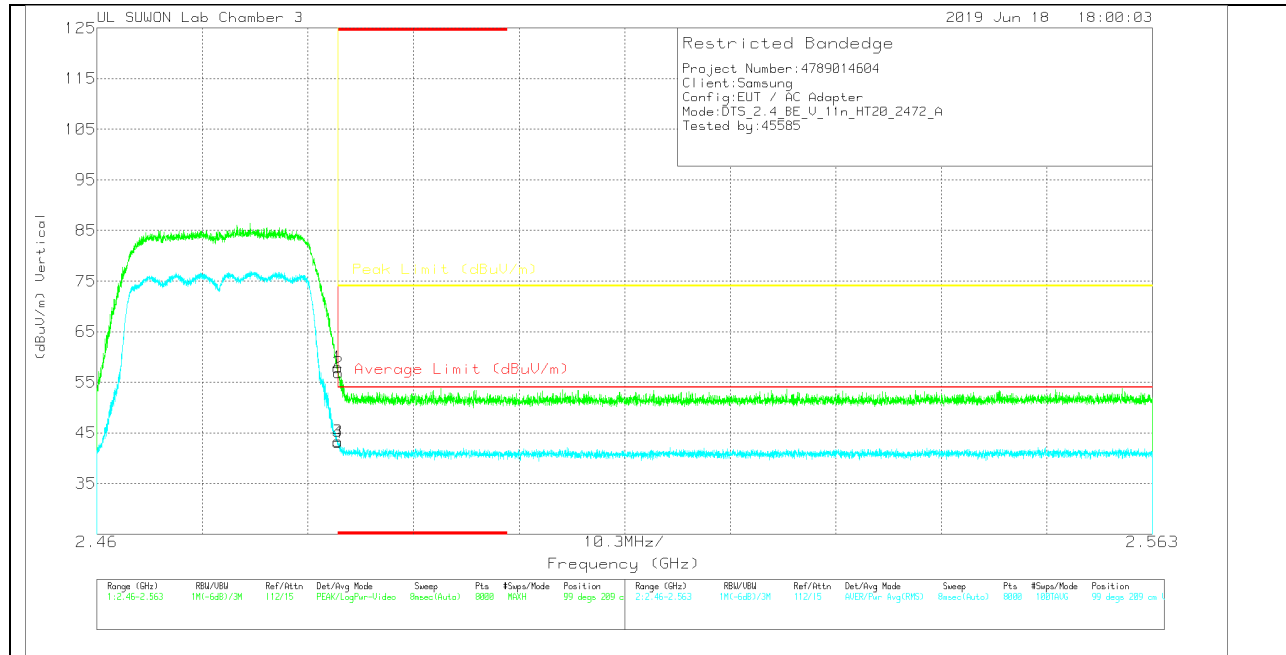
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.36	Pk	31.9	-23.2	0	57.06	-	-	74	-16.94	233	322	H
2	* 2.484	48.43	Pk	31.9	-23.2	0	57.13	-	-	74	-16.87	233	322	H
3	* 2.484	33.66	RMS	31.9	-23.2	0	42.36	54	-11.64	-	-	233	322	H
4	* 2.484	34.74	RMS	31.9	-23.2	0	43.44	54	-10.56	-	-	233	322	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(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	* 2.484	49.23	Pk	31.9	-23.2	0	57.93	-	-	74	-16.07	99	209	V
2	* 2.484	48.24	Pk	31.9	-23.3	0	56.84	-	-	74	-17.16	99	209	V
3	* 2.484	34.59	RMS	31.9	-23.2	0	43.29	54	-10.71	-	-	99	209	V
4	* 2.484	34.41	RMS	31.9	-23.2	0	43.11	54	-10.89	-	-	99	209	V

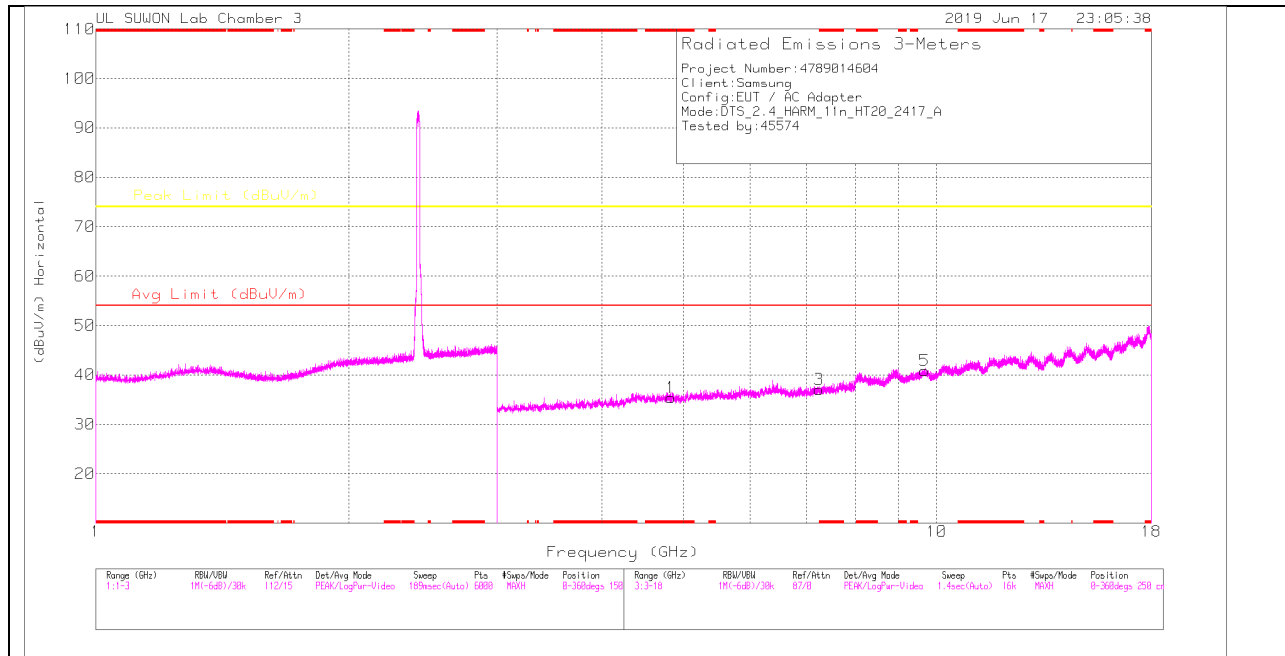
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

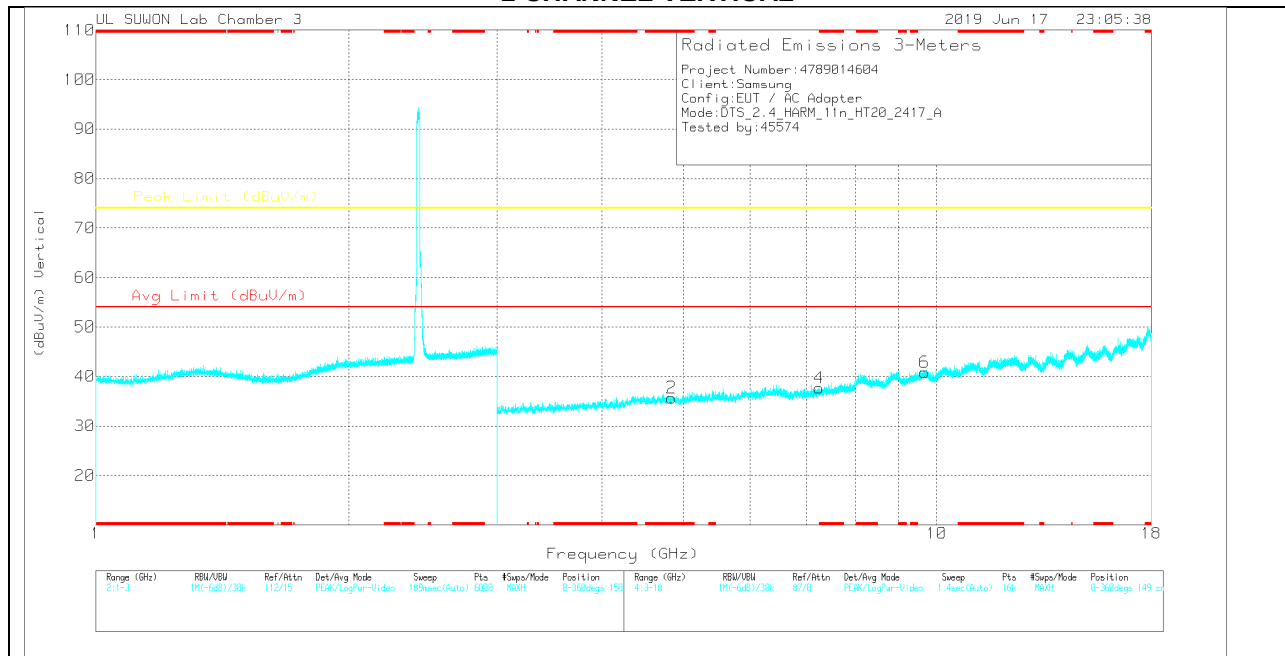
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

2 CHANNEL HORIZONTAL



2 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

2 CHANNEL DATA

Trace Markers

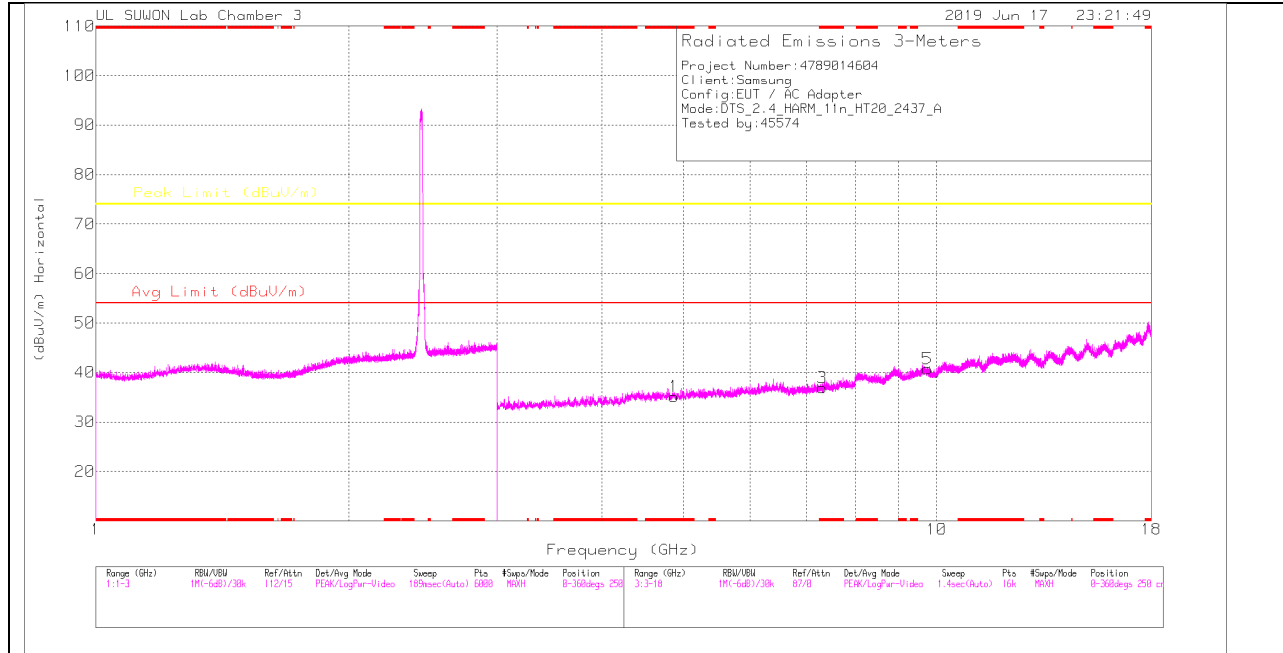
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.833	29.82	PK	34.2	-28.6	0	35.42	-	-	74	-38.58	0-360	250	H
3	* 7.252	25.22	PK	35.8	-24	0	37.02	-	-	74	-36.98	0-360	250	H
5	9.671	23.4	PK	37.1	-19.7	0	40.8	-	-	74	-33.2	0-360	250	H
2	* 4.835	30.11	PK	34.2	-28.6	0	35.71	-	-	74	-38.29	0-360	149	V
4	* 7.252	25.9	PK	35.8	-24	0	37.7	-	-	74	-36.3	0-360	250	V
6	9.669	23.42	PK	37.1	-19.7	0	40.82	-	-	74	-33.18	0-360	250	V

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

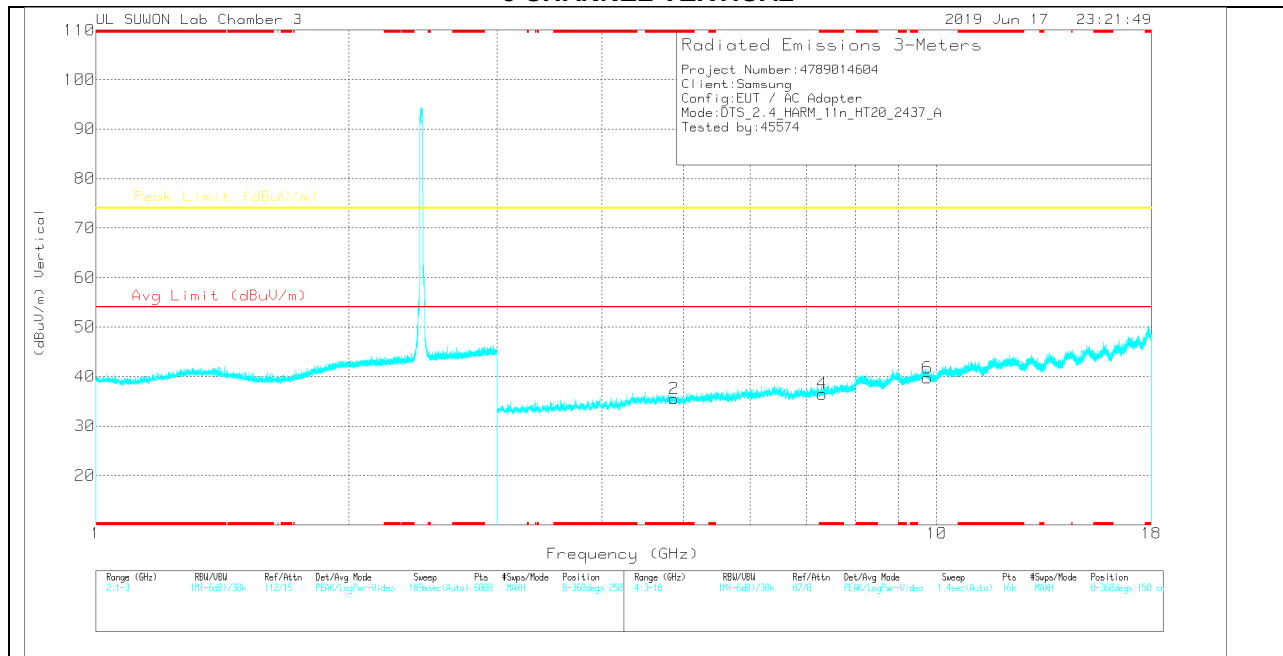
PK – Peak Detector

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

6 CHANNEL HORIZONTAL



6 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

6 CHANNEL DATA

Trace Markers

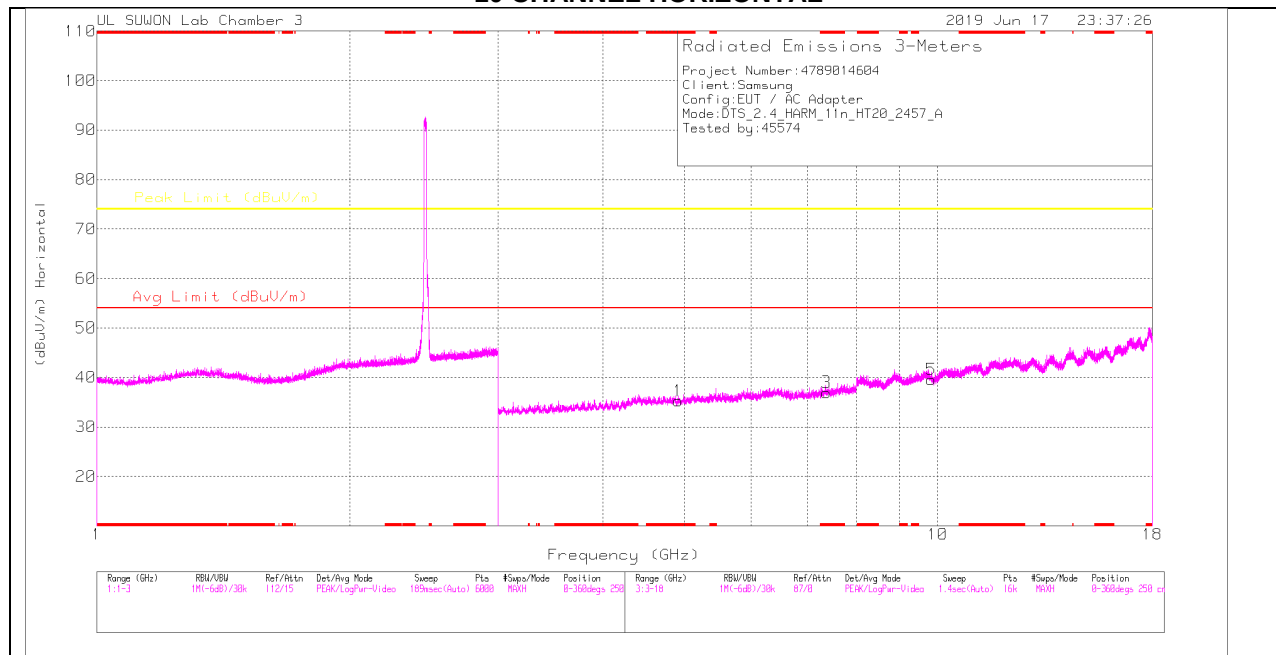
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.874	30	PK	34.2	-29	0	35.2	-	-	74	-38.8	0-360	150	H
3	* 7.312	24.89	PK	35.8	-23.8	0	36.89	-	-	74	-37.11	0-360	150	H
5	9.749	23.14	PK	37.2	-19.6	0	40.74	-	-	74	-33.26	0-360	250	H
2	* 4.874	30.29	PK	34.2	-29	0	35.49	-	-	74	-38.51	0-360	150	V
4	* 7.312	24.48	PK	35.8	-23.8	0	36.48	-	-	74	-37.52	0-360	250	V
6	9.749	22.16	PK	37.2	-19.6	0	39.76	-	-	74	-34.24	0-360	250	V

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

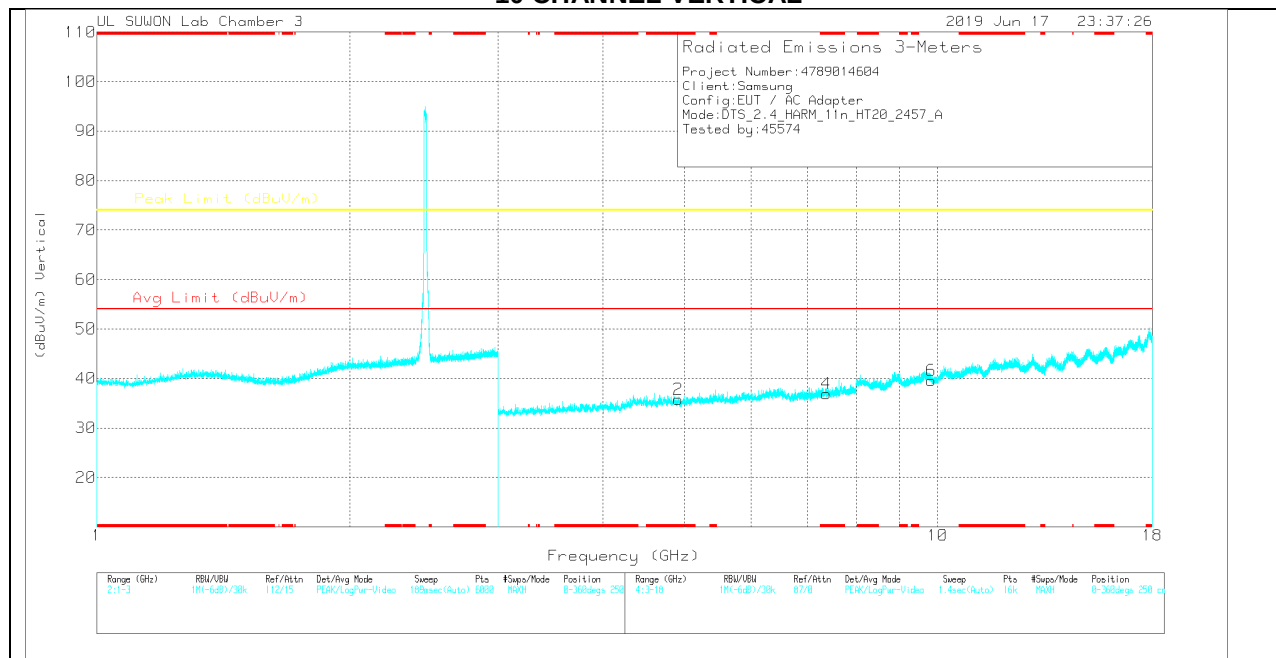
PK – Peak Detector

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

10 CHANNEL HORIZONTAL



10 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

10 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.914	30.29	PK	34.2	-29.2	0	35.29	-	-	74	-38.71	0-360	250	H
3	* 7.371	24.48	PK	35.8	-23.3	0	36.98	-	-	74	-37.02	0-360	250	H
5	9.828	21.83	PK	37.4	-19.7	0	39.53	-	-	74	-34.47	0-360	250	H
2	* 4.914	30.79	PK	34.2	-29.2	0	35.79	-	-	74	-38.21	0-360	250	V
4	* 7.372	24.37	PK	35.8	-23.3	0	36.87	-	-	74	-37.13	0-360	250	V
6	9.828	21.93	PK	37.4	-19.7	0	39.63	-	-	74	-34.37	0-360	149	V

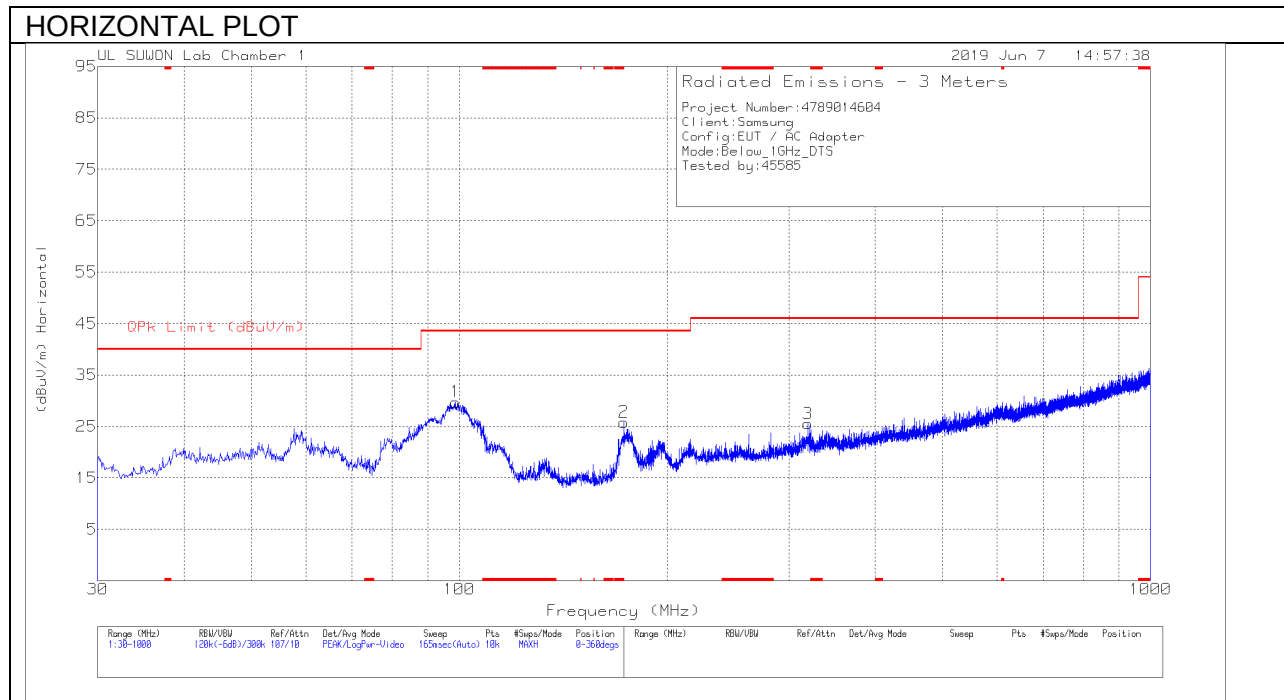
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK – Peak Detector

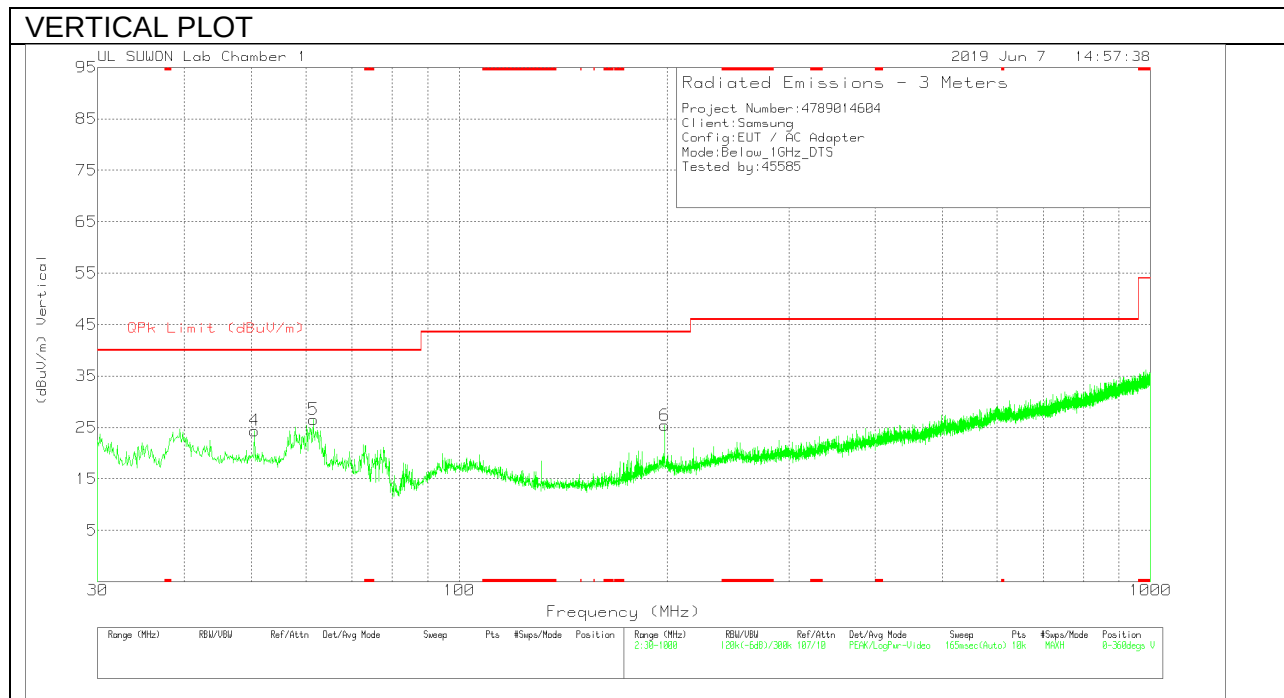
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.3. 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	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	98.773	41.66	Pk	17.8	-29.7	29.76	43.52	-13.76	0-360	300	H
2	* 173.172	39.64	Pk	15	-28.8	25.84	43.52	-17.68	0-360	200	H
3	319.545	33.12	Pk	19.9	-27.5	25.52	46.02	-20.5	0-360	100	H
4	50.564	35.18	Pk	19.7	-30.5	24.38	40	-15.62	0-360	100	V
5	61.525	38.66	Pk	18.2	-30.3	26.56	40	-13.44	0-360	100	V
6	198.198	36.03	Pk	18	-28.6	25.43	43.52	-18.09	0-360	100	V

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

Pk - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
IC RSS-GEN Clause 8.8

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

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

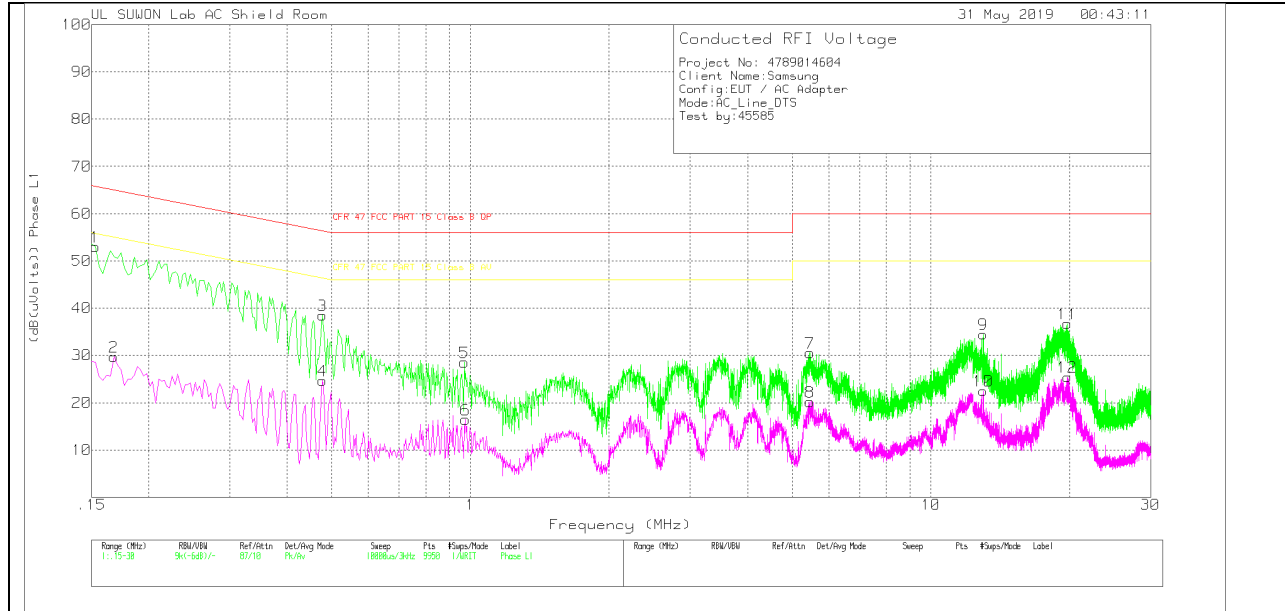
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

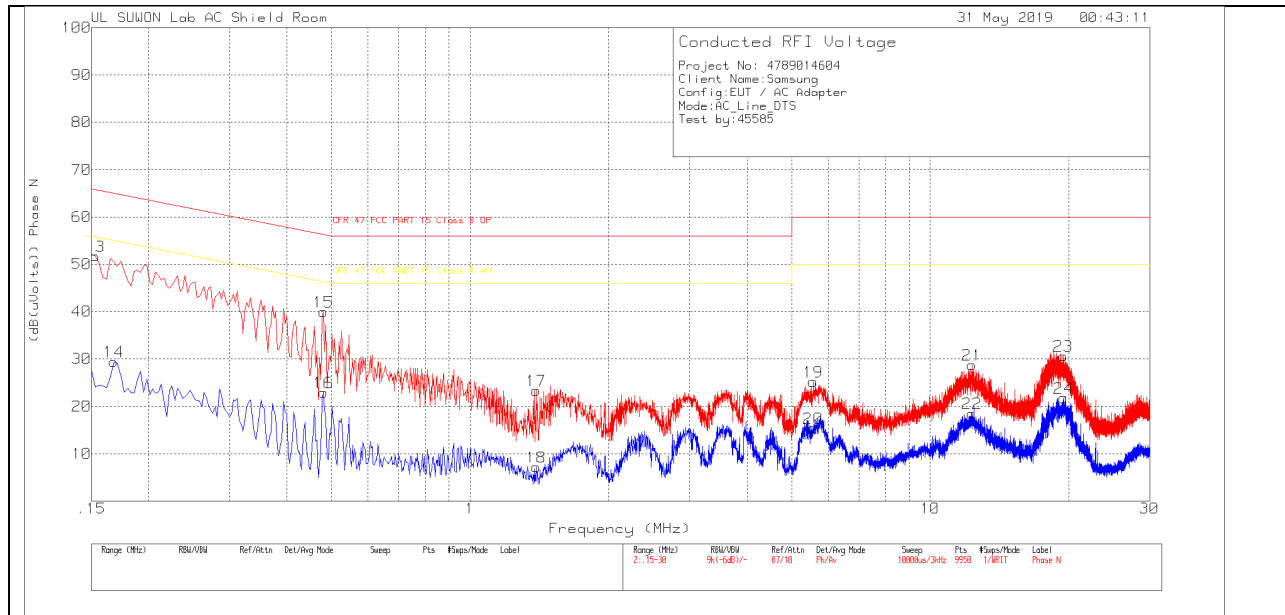
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_10183 6_With ex-cord_L1	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	.153	43.1	Pk	9.8	.1	53	65.84	-12.84	-	-
2	.168	19.61	Av	10	.1	29.71	-	-	55.06	-25.35
3	.477	28.39	Pk	9.9	.2	38.49	56.39	-17.9	-	-
4	.477	14.56	Av	9.9	.2	24.66	-	-	46.39	-21.73
5	.969	18.44	Pk	9.8	.3	28.54	56	-27.46	-	-
6	.975	6.34	Av	9.8	.3	16.44	-	-	46	-29.56
7	5.463	20.46	Pk	9.8	.3	30.56	60	-29.44	-	-
8	5.463	10.09	Av	9.8	.3	20.19	-	-	50	-29.81
9	12.999	23.98	Pk	10.1	.4	34.48	60	-25.52	-	-
10	12.999	12.02	Av	10.1	.4	22.52	-	-	50	-27.48
11	19.782	25.91	Pk	10.4	.4	36.71	60	-23.29	-	-
12	19.785	14.65	Av	10.4	.4	25.45	-	-	50	-24.55

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	ENV216_10183 6_With ex-cord_N	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	.153	41.82	Pk	9.8	.1	51.72	65.84	-14.12	-	-
14	.168	19.32	Av	10	.1	29.42	-	-	55.06	-25.64
15	.48	30.07	Pk	9.7	.2	39.97	56.34	-16.37	-	-
16	.48	13.04	Av	9.7	.2	22.94	-	-	46.34	-23.4
17	1.392	13.34	Pk	9.7	.3	23.34	56	-32.66	-	-
18	1.392	-2.82	Av	9.7	.3	7.18	-	-	46	-38.82
19	5.568	15.14	Pk	9.8	.3	25.24	60	-34.76	-	-
20	5.565	5.29	Av	9.8	.3	15.39	-	-	50	-34.61
21	12.336	18.37	Pk	10.1	.3	28.77	60	-31.23	-	-
22	12.321	8.1	Av	10.1	.3	18.5	-	-	50	-31.5
23	19.479	19.74	Pk	10.5	.4	30.64	60	-29.36	-	-
24	19.509	10.85	Av	10.5	.4	21.75	-	-	50	-28.25

Pk - Peak detector

Av - Average detection