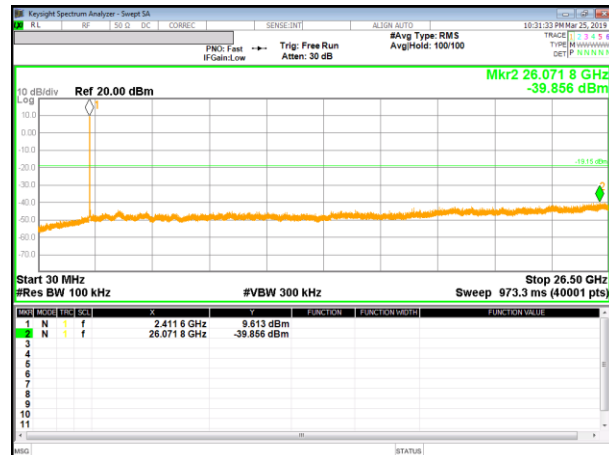
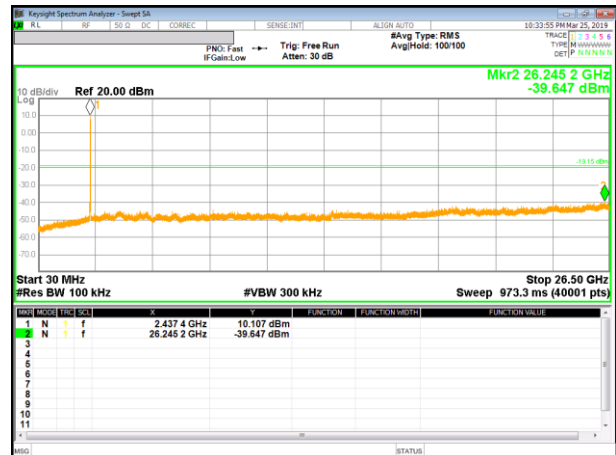


ANTENNA 2

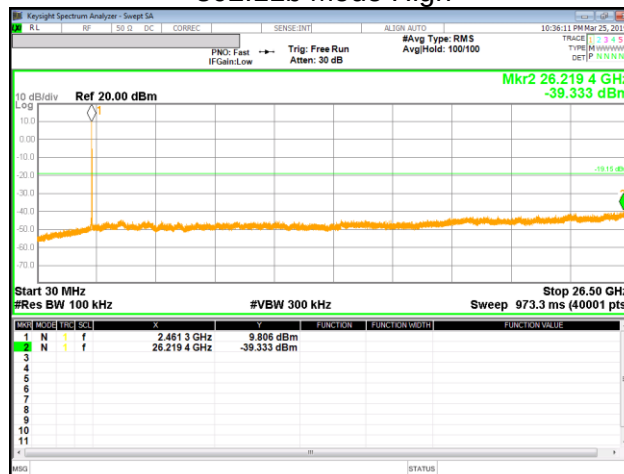
802.11b Mode Low



802.11b Mode Mid



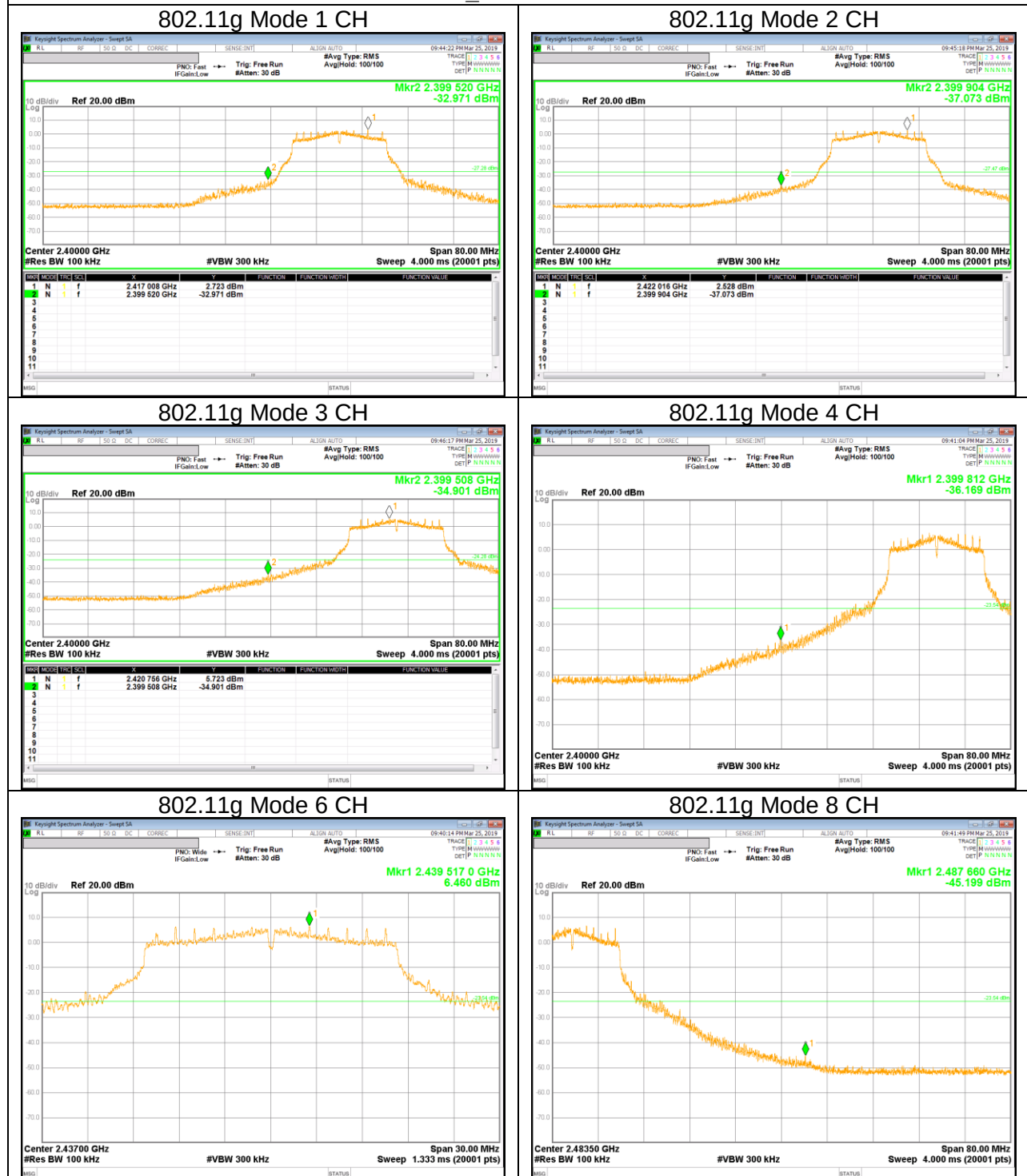
802.11b Mode High

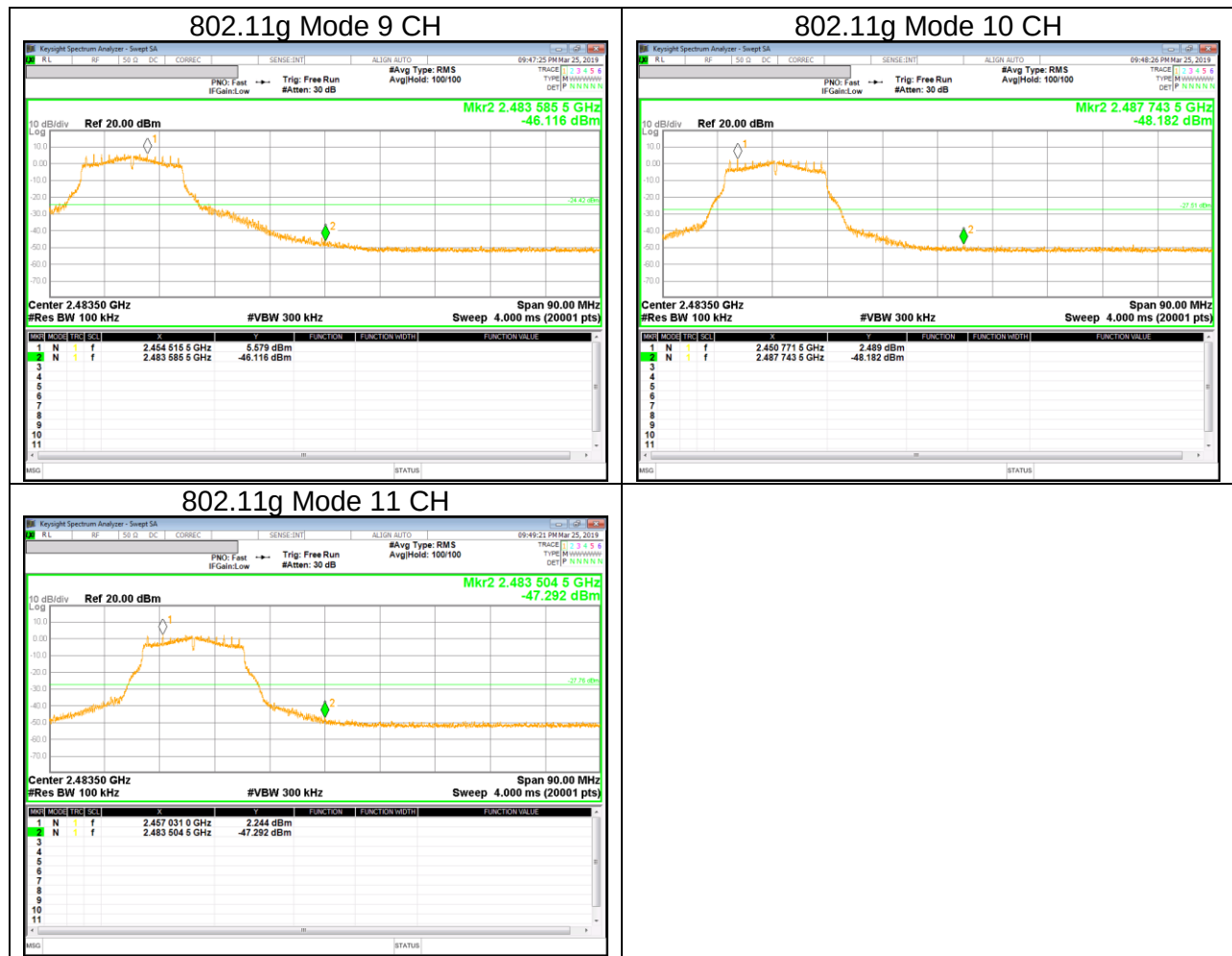


10.4.2. 802.11g MODE IN THE 2.4 GHz BAND

Band Edge

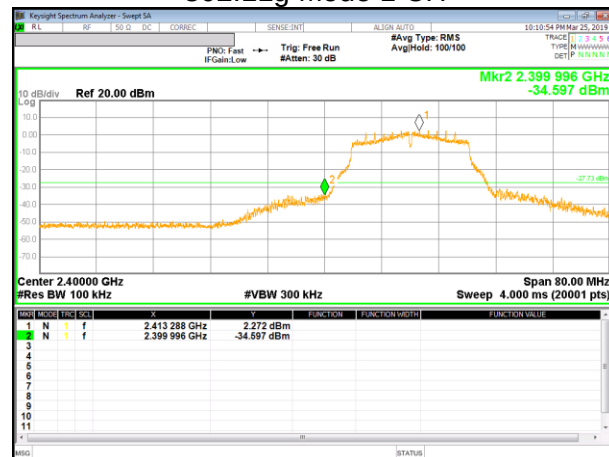
1TX_ANTENNA 1



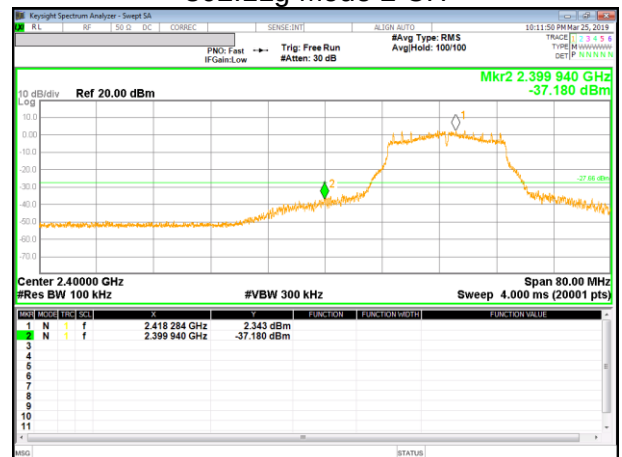


1TX_ANTENNA 2

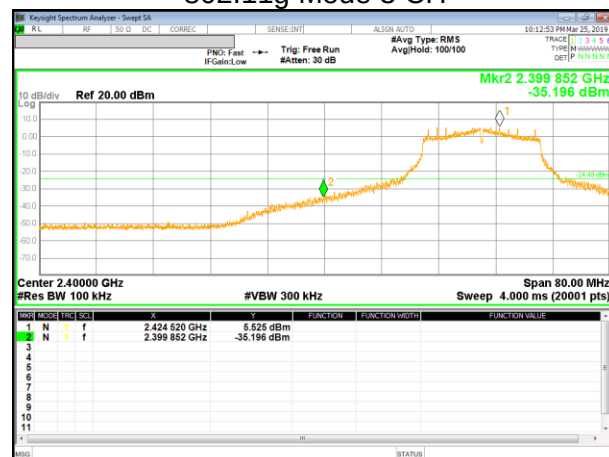
802.11g Mode 1 CH



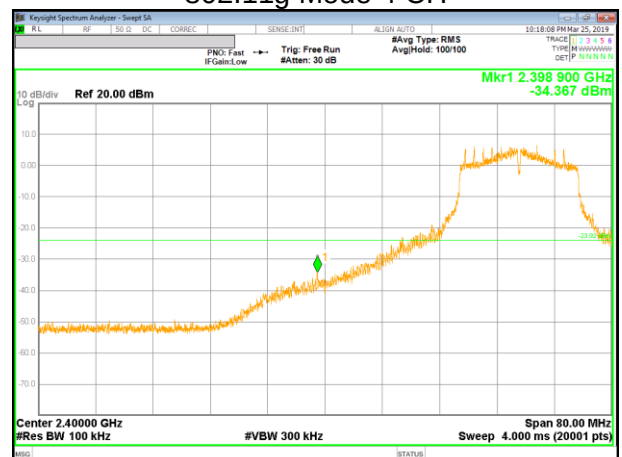
802.11g Mode 2 CH



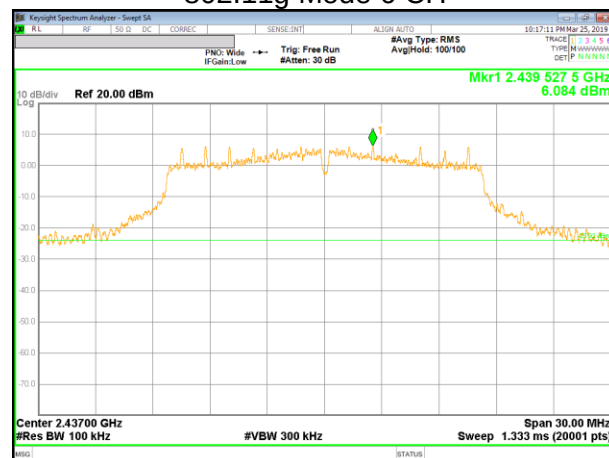
802.11g Mode 3 CH



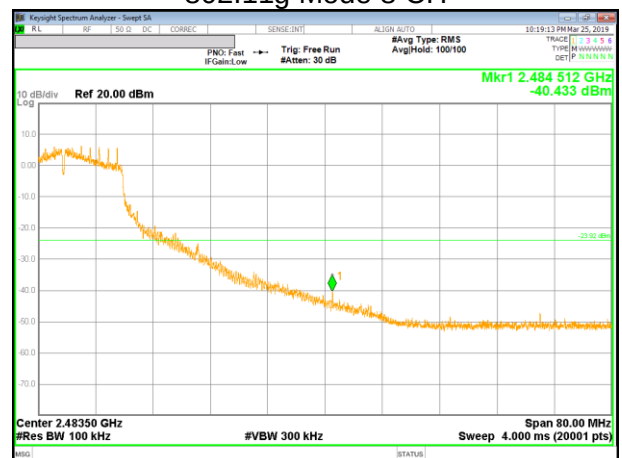
802.11g Mode 4 CH

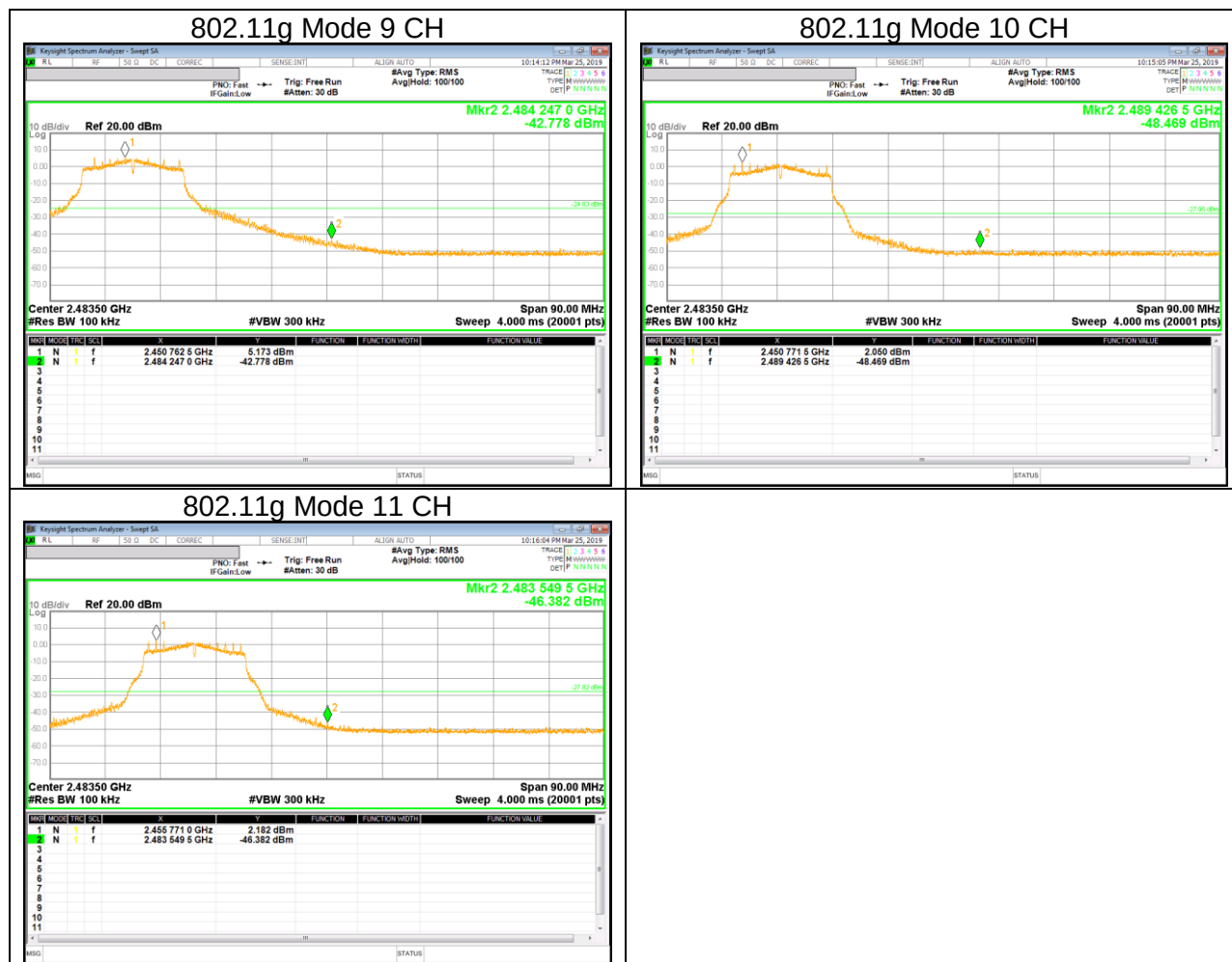


802.11g Mode 6 CH



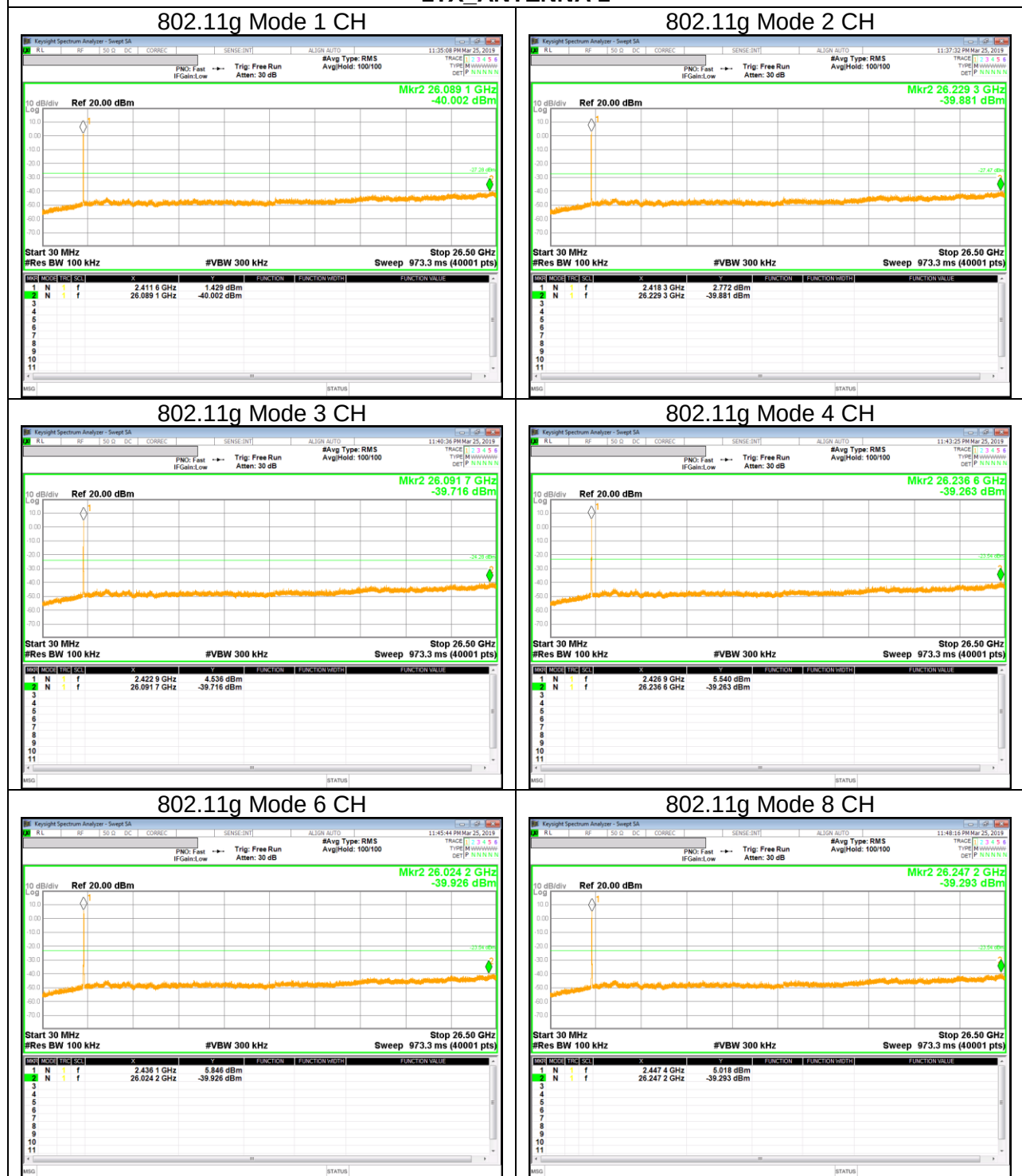
802.11g Mode 8 CH





Conducted Spurious Emission

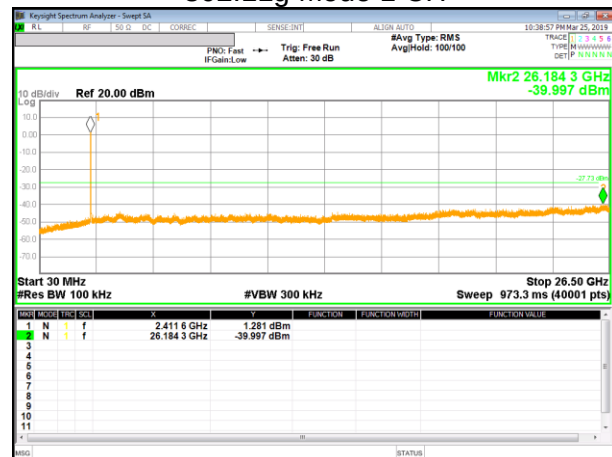
1TX_ANTENNA 1



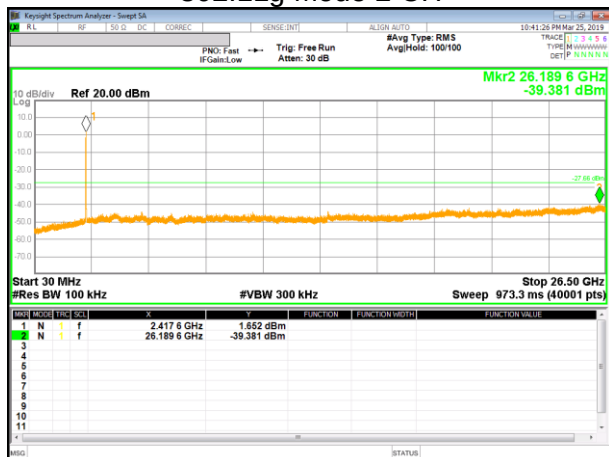


1TX_ANTENNA 2

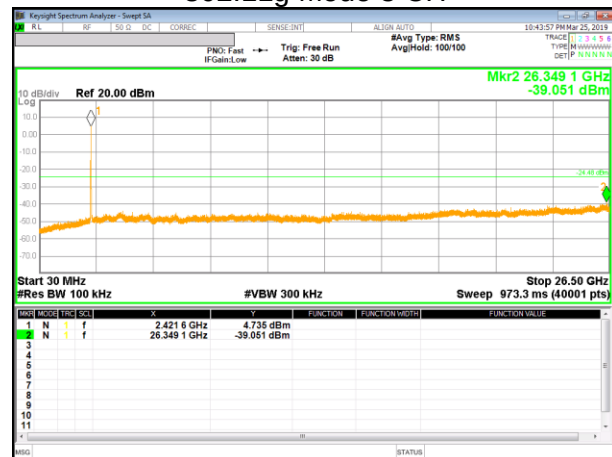
802.11g Mode 1 CH



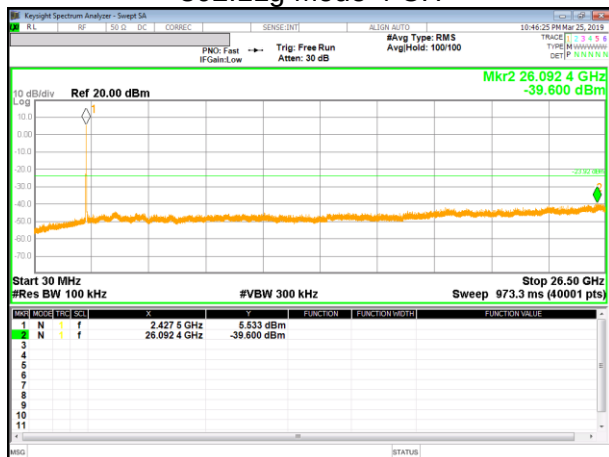
802.11g Mode 2 CH



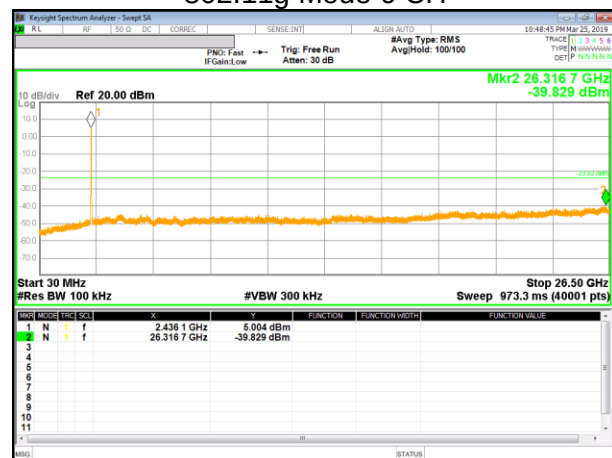
802.11g Mode 3 CH



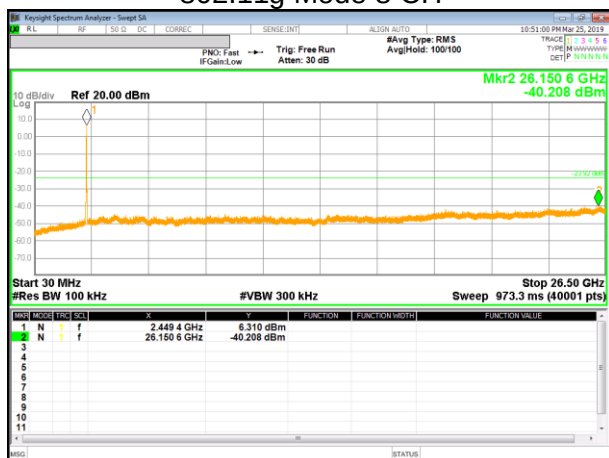
802.11g Mode 4 CH



802.11g Mode 6 CH



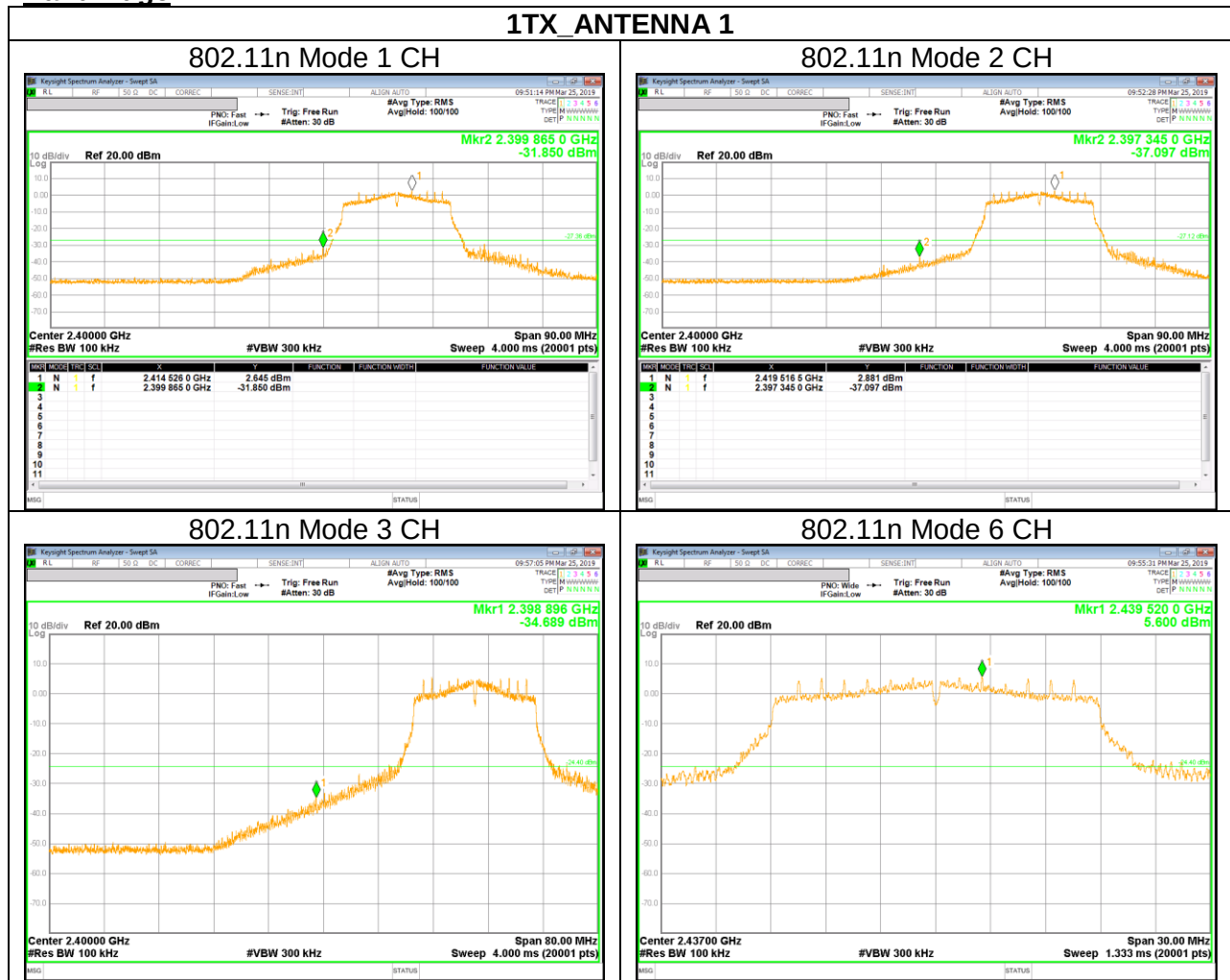
802.11g Mode 8 CH

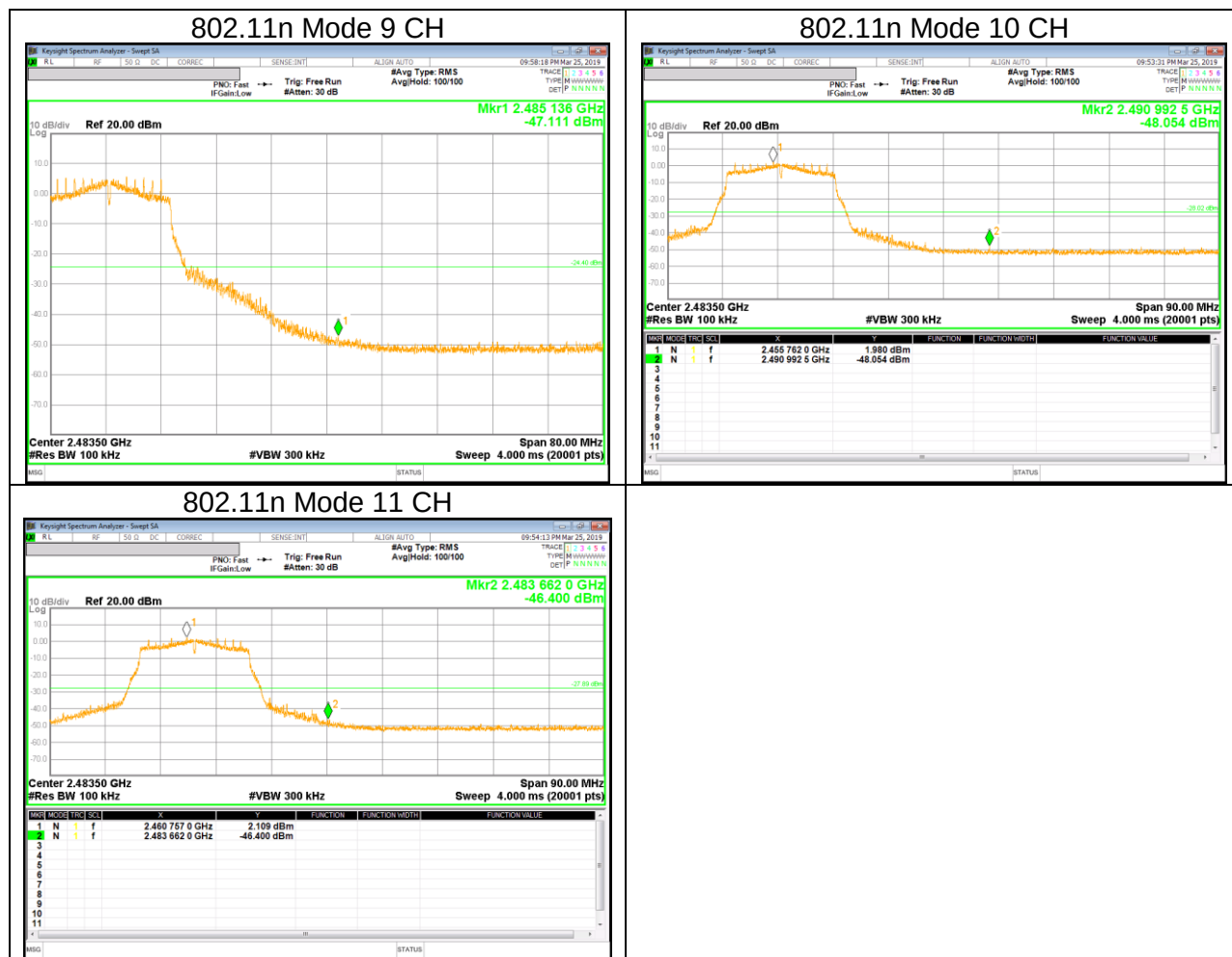




10.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

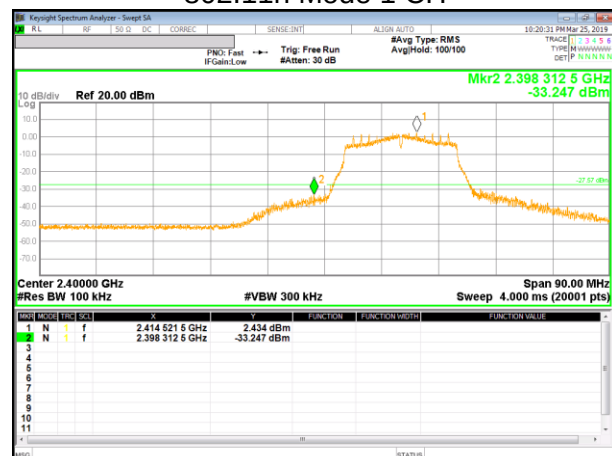
Band Edge



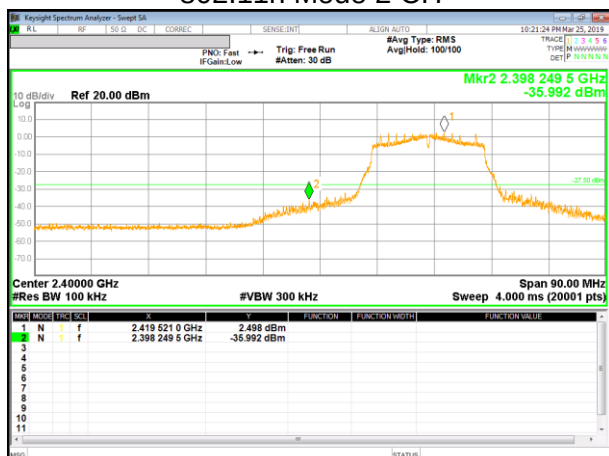


1TX_ANTENNA 2

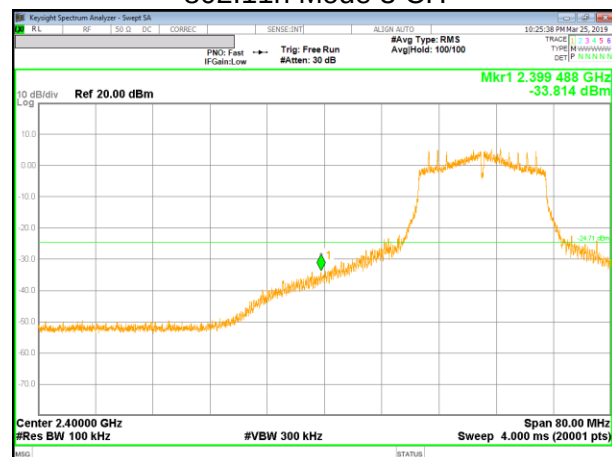
802.11n Mode 1 CH



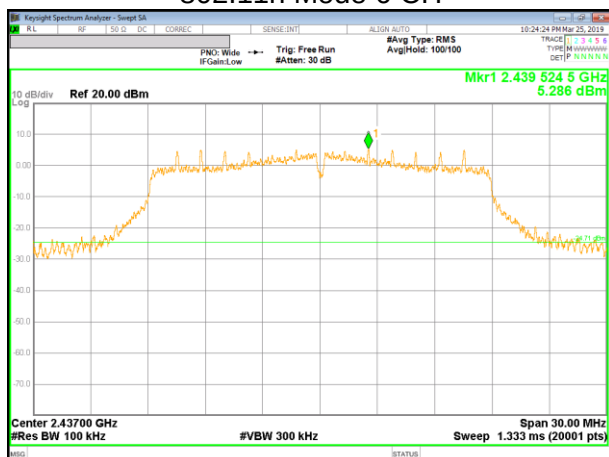
802.11n Mode 2 CH

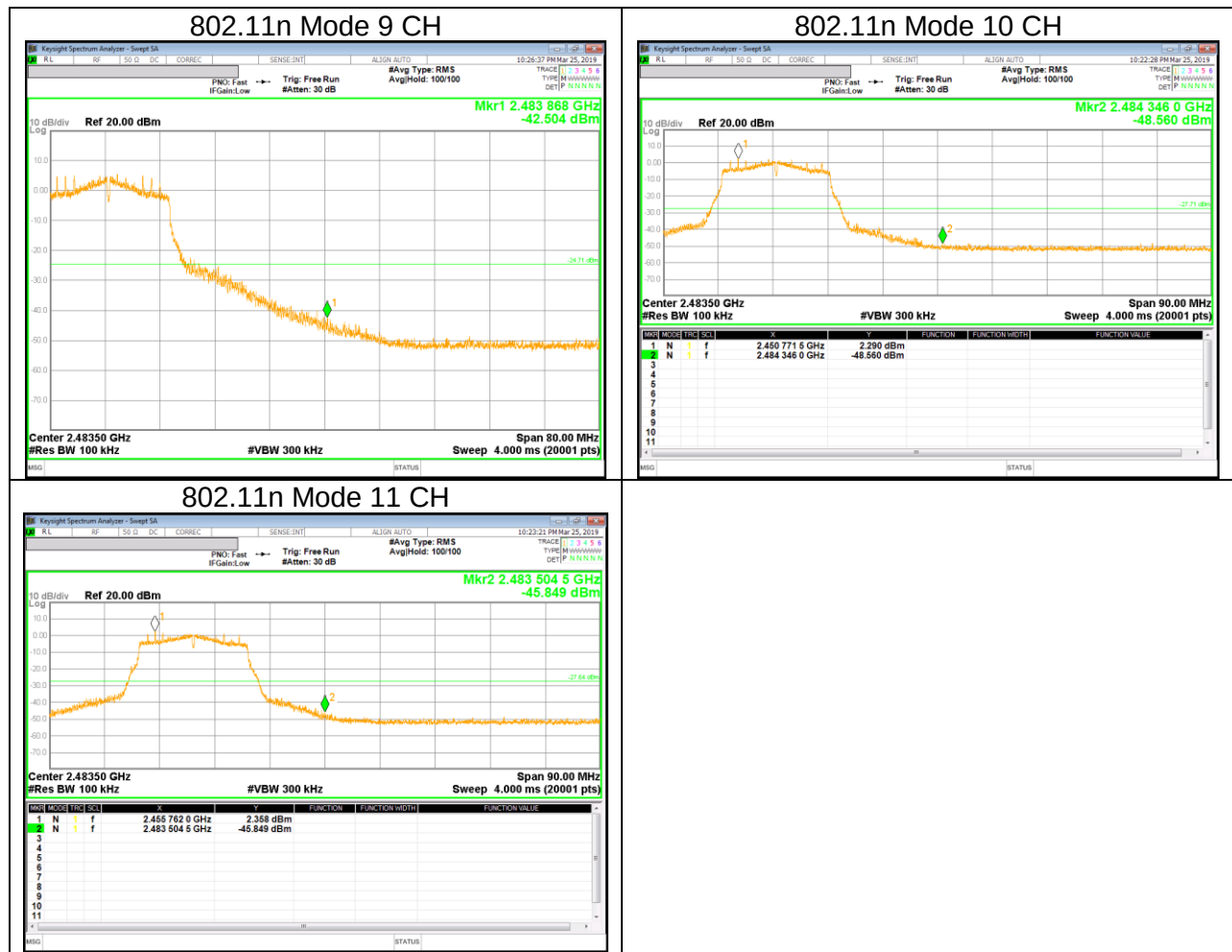


802.11n Mode 3 CH



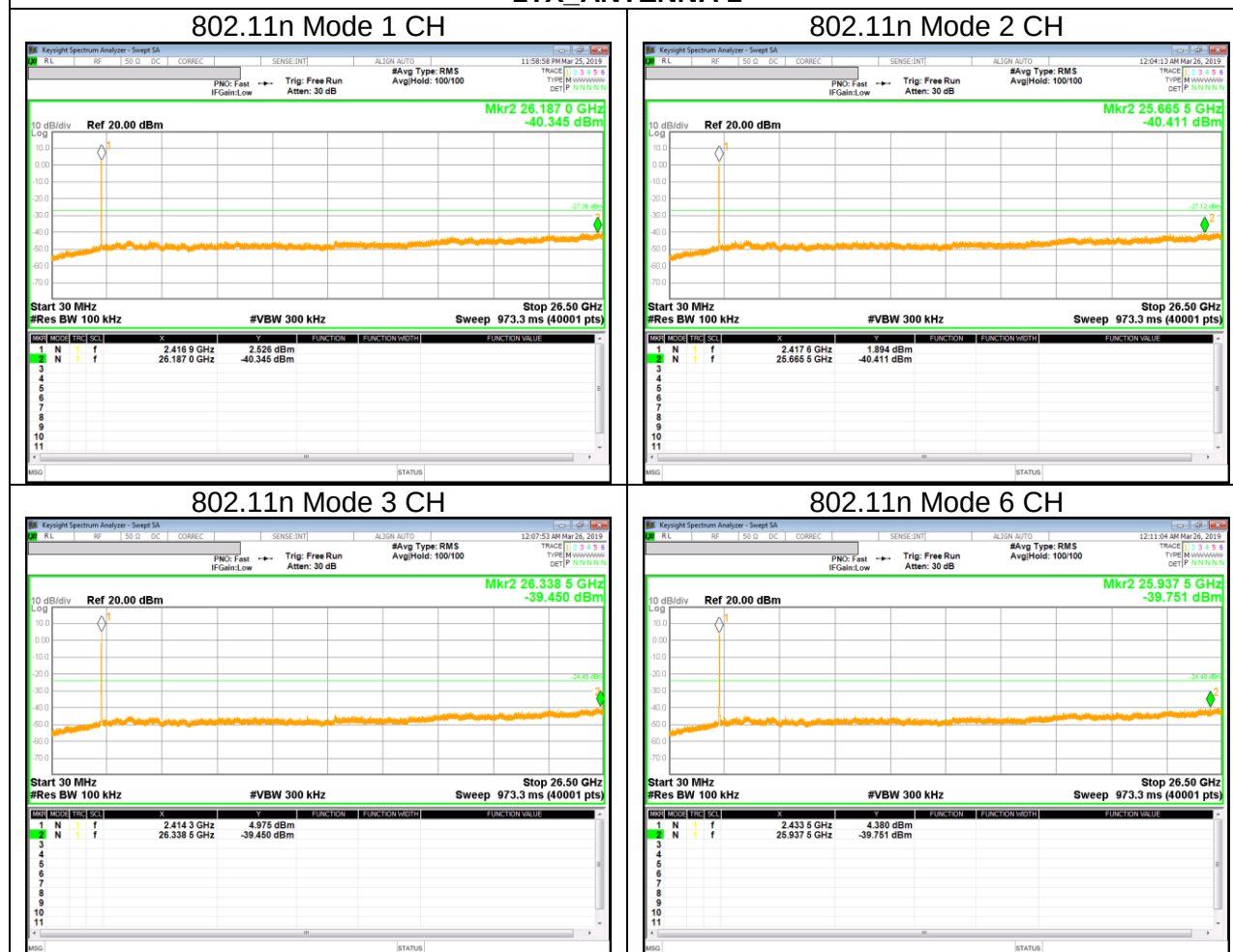
802.11n Mode 6 CH

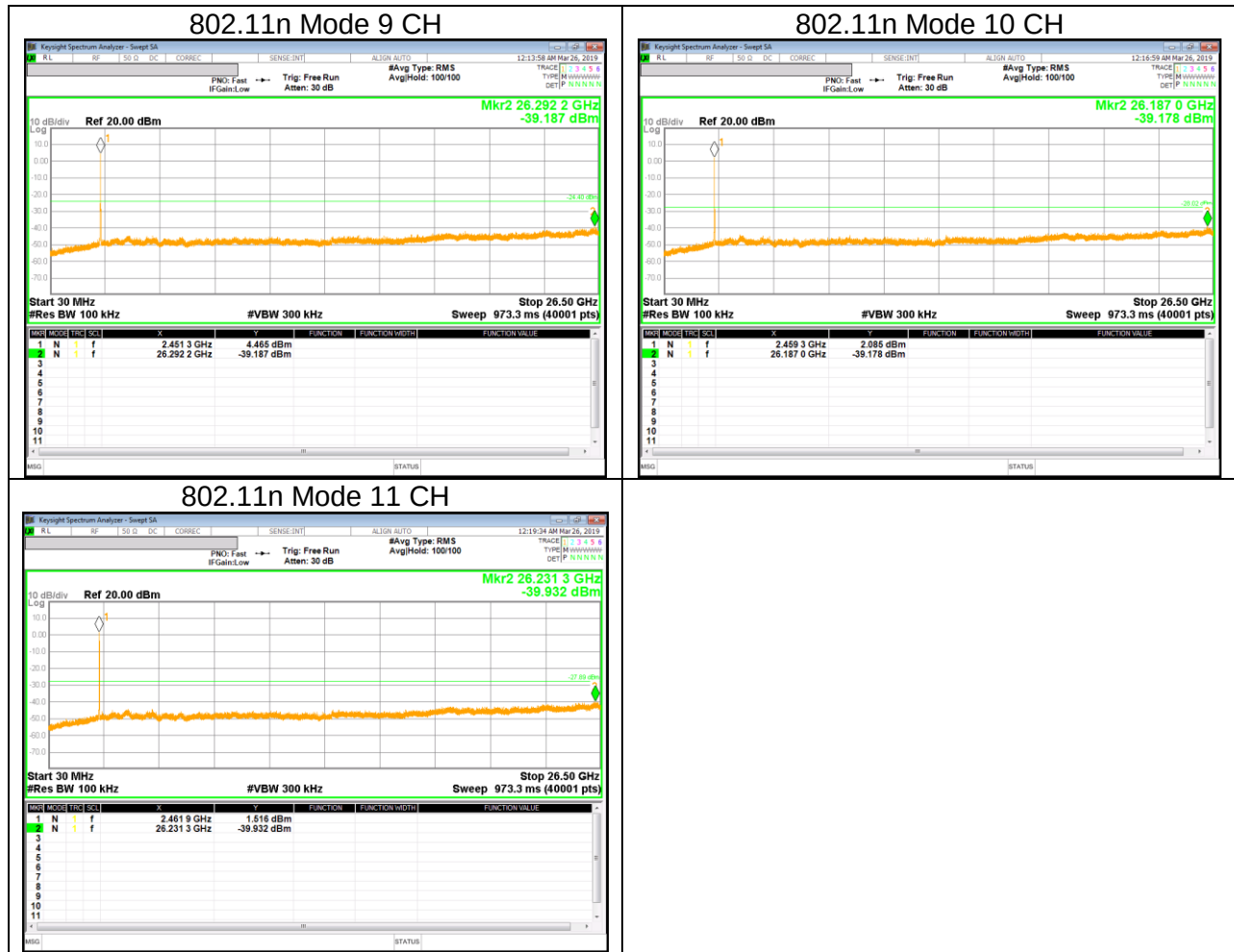




Conducted Spurious Emission

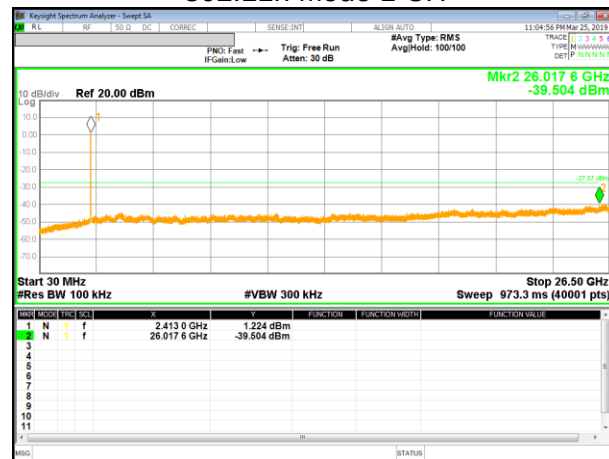
1TX_ANTENNA 1



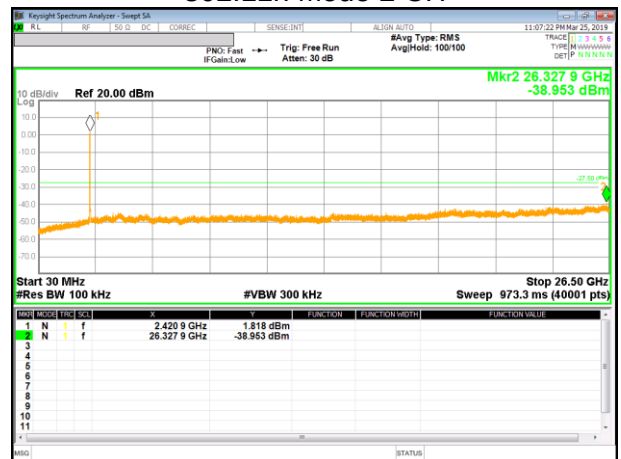


1TX_ANTENNA 2

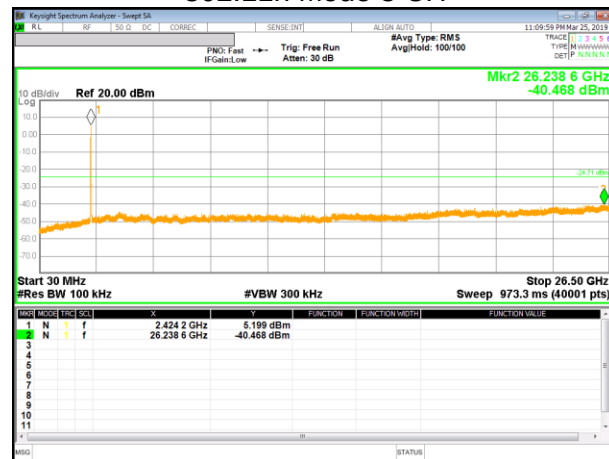
802.11n Mode 1 CH



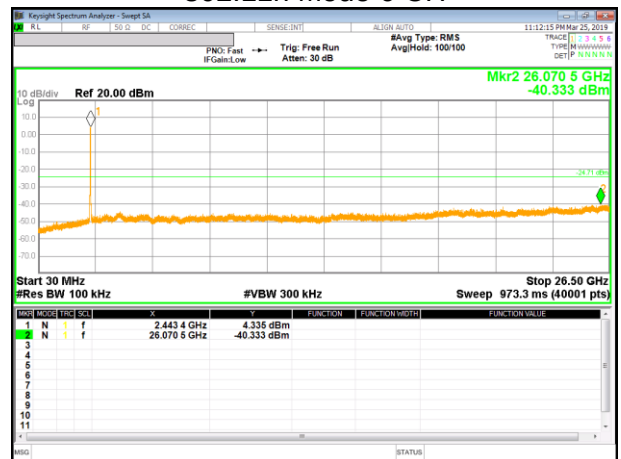
802.11n Mode 2 CH

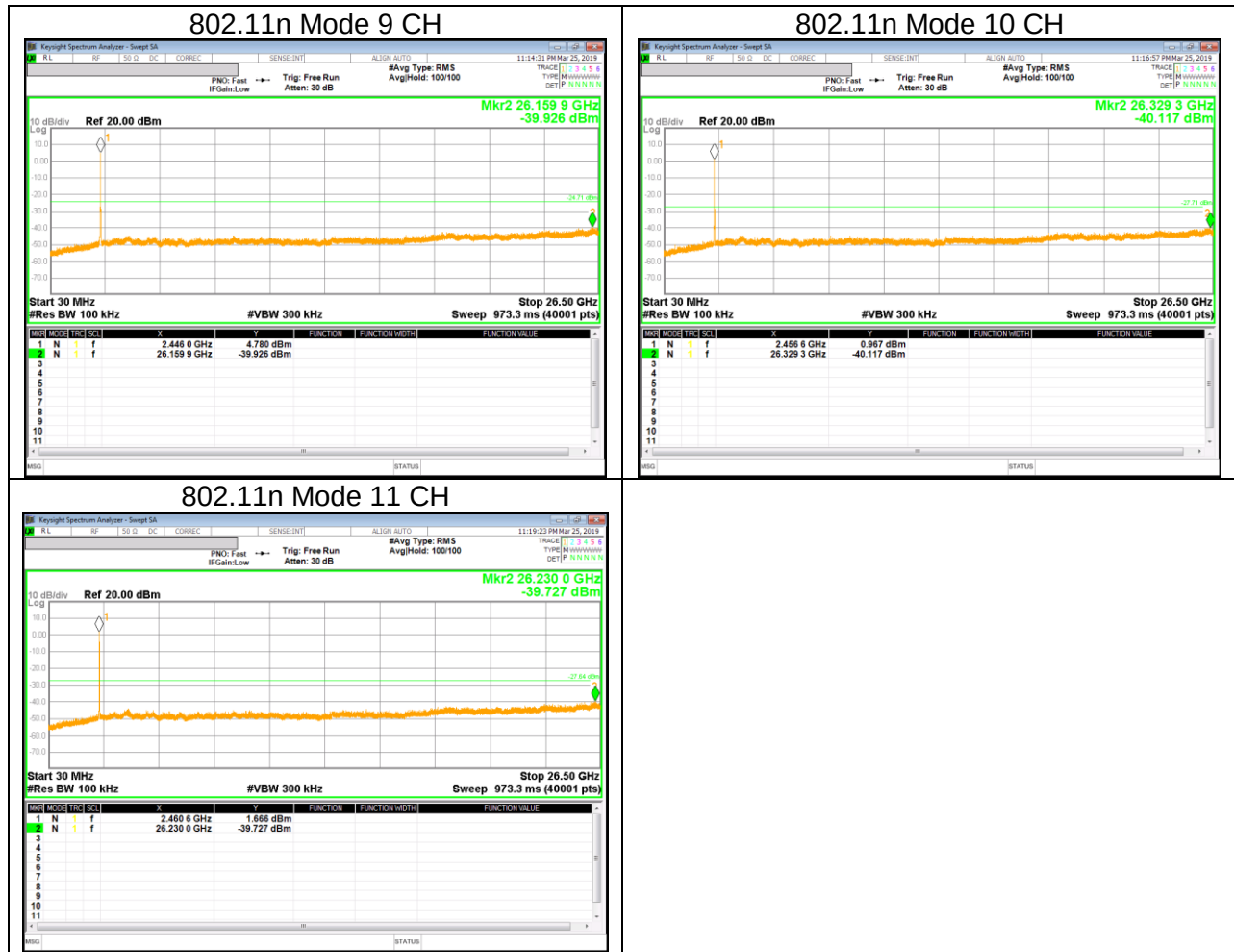


802.11n Mode 3 CH



802.11n Mode 6 CH





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 = 0.09dB.

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.

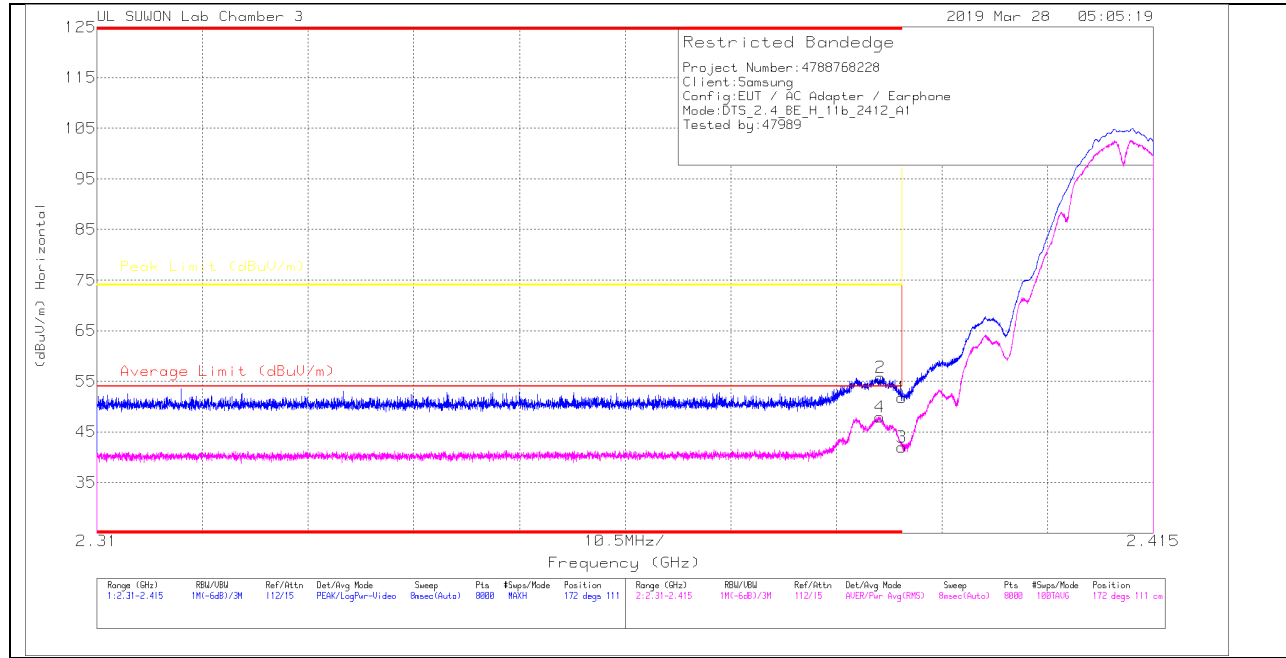
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

11.2. TRANSMITTER ABOVE 1 GHz

11.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANTENNA1

RESTRICTED BANDEDGE (1Ch CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

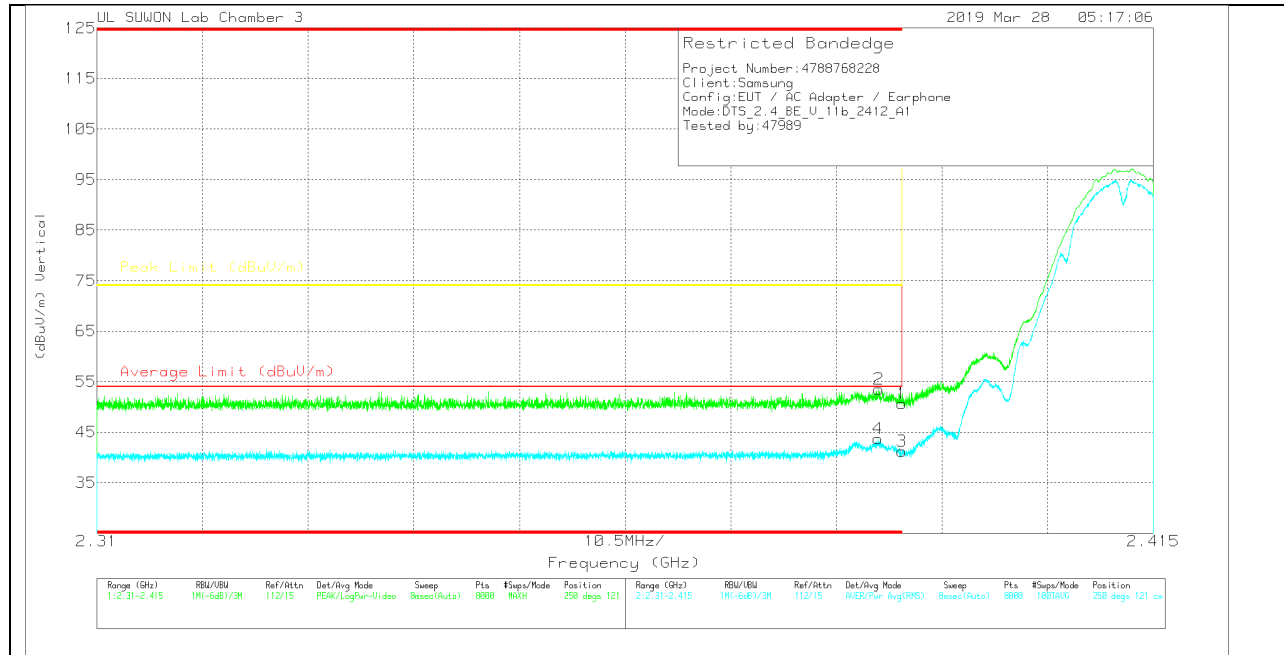
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.45	Pk	31.7	-23.4	0	51.75	-	-	74	-22.25	172	111	H
2	* 2.388	47.44	Pk	31.7	-23.4	0	55.74	-	-	74	-18.26	172	111	H
3	* 2.39	33.66	RMS	31.7	-23.4	0	41.96	54	-12.04	-	-	172	111	H
4	* 2.388	39.59	RMS	31.7	-23.4	0	47.89	54	-6.11	-	-	172	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_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	42.32	PK	31.7	-23.4	0	50.62	-	-	74	-23.38	250	121	V
2	* 2.388	45.21	PK	31.7	-23.4	0	53.51	-	-	74	-20.49	250	121	V
3	* 2.39	32.96	RMS	31.7	-23.4	0	41.26	54	-12.74	-	-	250	121	V
4	* 2.388	35.36	RMS	31.7	-23.4	0	43.66	54	-10.34	-	-	250	121	V

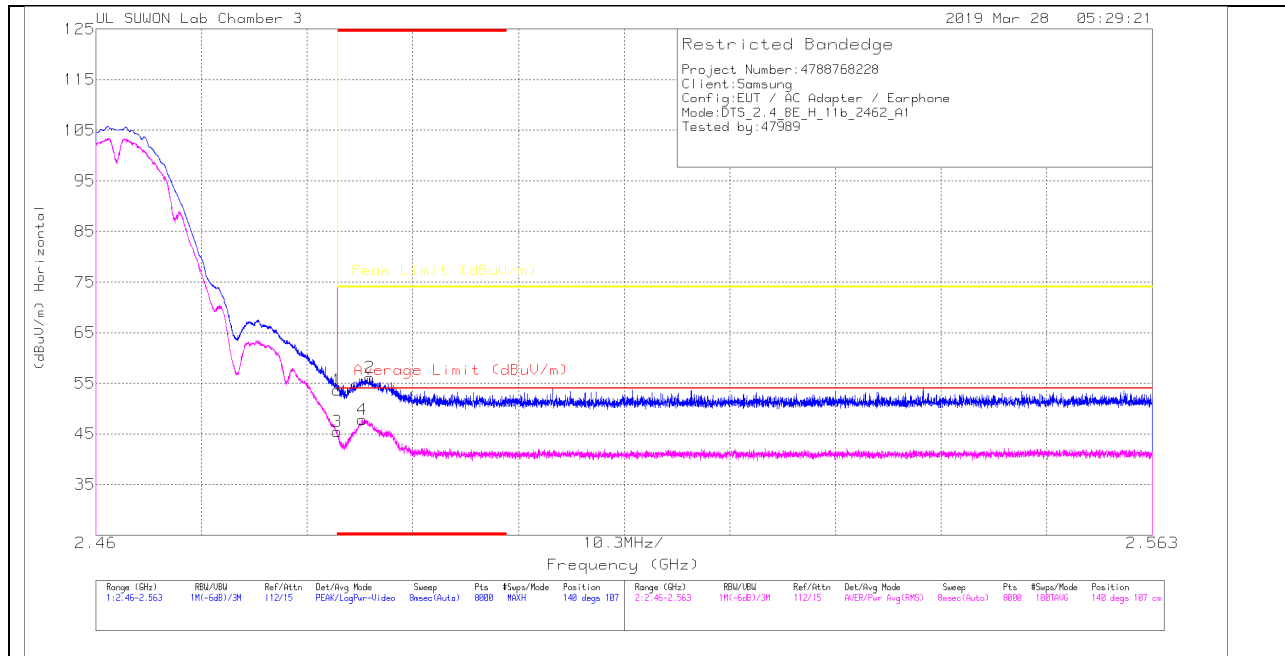
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

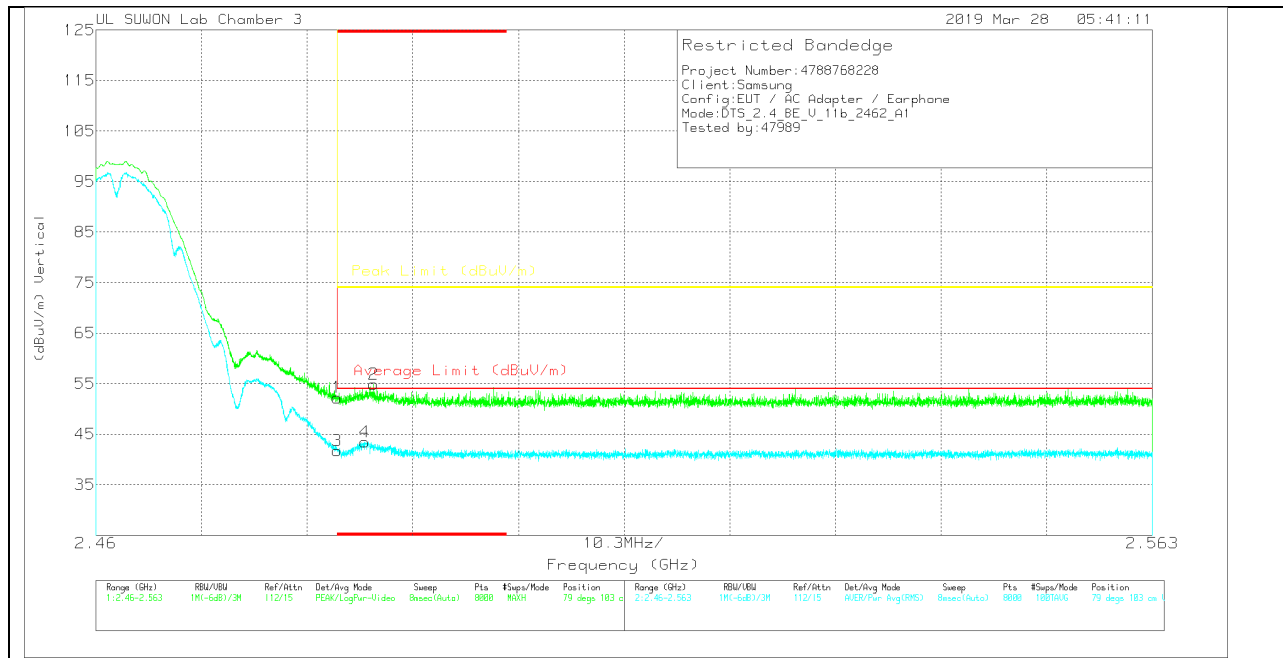
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.95	Pk	31.9	-23.2	0	53.65	-	-	74	-20.35	140	107	H
2	* 2.487	47.47	Pk	31.9	-23.2	0	56.17	-	-	74	-17.83	140	107	H
3	* 2.484	36.79	RMS	31.9	-23.2	0	45.49	54	-8.51	-	-	140	107	H
4	* 2.486	39.13	RMS	31.9	-23.2	0	47.83	54	-6.17	-	-	140	107	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	43.52	Pk	31.9	-23.2	0	52.22	-	-	74	-21.78	79	103	V
2	* 2.487	46.15	Pk	31.9	-23.2	0	54.85	-	-	74	-19.15	79	103	V
3	* 2.484	33.08	RMS	31.9	-23.2	0	41.78	54	-12.22	-	-	79	103	V
4	* 2.486	34.79	RMS	31.9	-23.2	0	43.49	54	-10.51	-	-	79	103	V

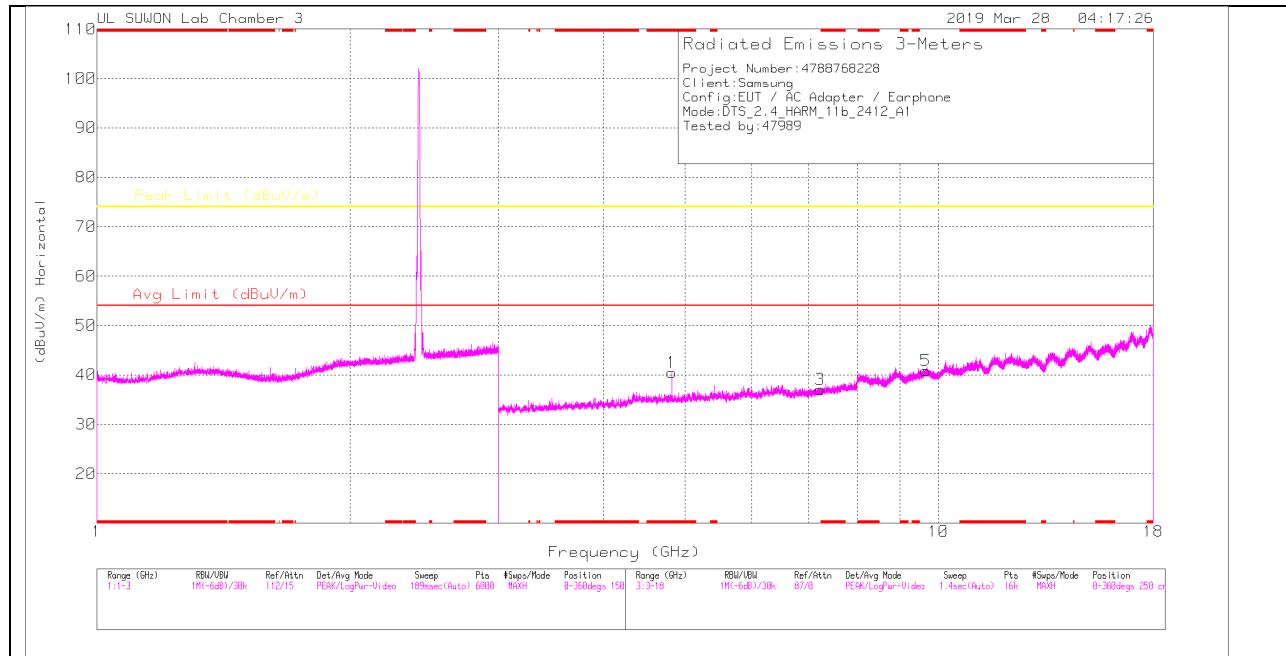
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

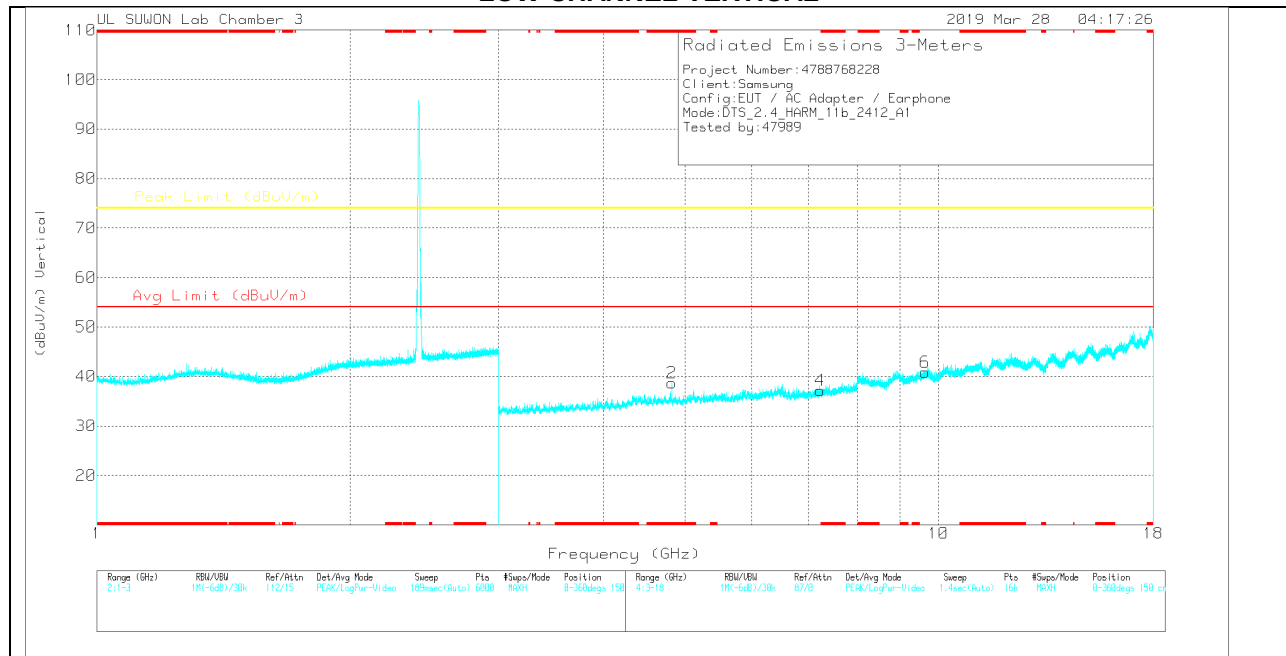
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_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	34.85	PK	34.2	-28.6	0	40.45	-	-	74	-33.55	0-360	250	H
3	7.24	25.31	PK	35.8	-24.1	0	37.01	-	-	74	-36.99	0-360	250	H
5	9.651	23.51	PK	37.1	-19.8	0	40.81	-	-	74	-33.19	0-360	250	H
2	* 4.824	33.06	PK	34.2	-28.6	0	38.66	-	-	74	-35.34	0-360	150	V
4	7.231	25.46	PK	35.8	-24.1	0	37.16	-	-	74	-36.84	0-360	250	V
6	9.648	23.43	PK	37.1	-19.7	0	40.83	-	-	74	-33.17	0-360	250	V

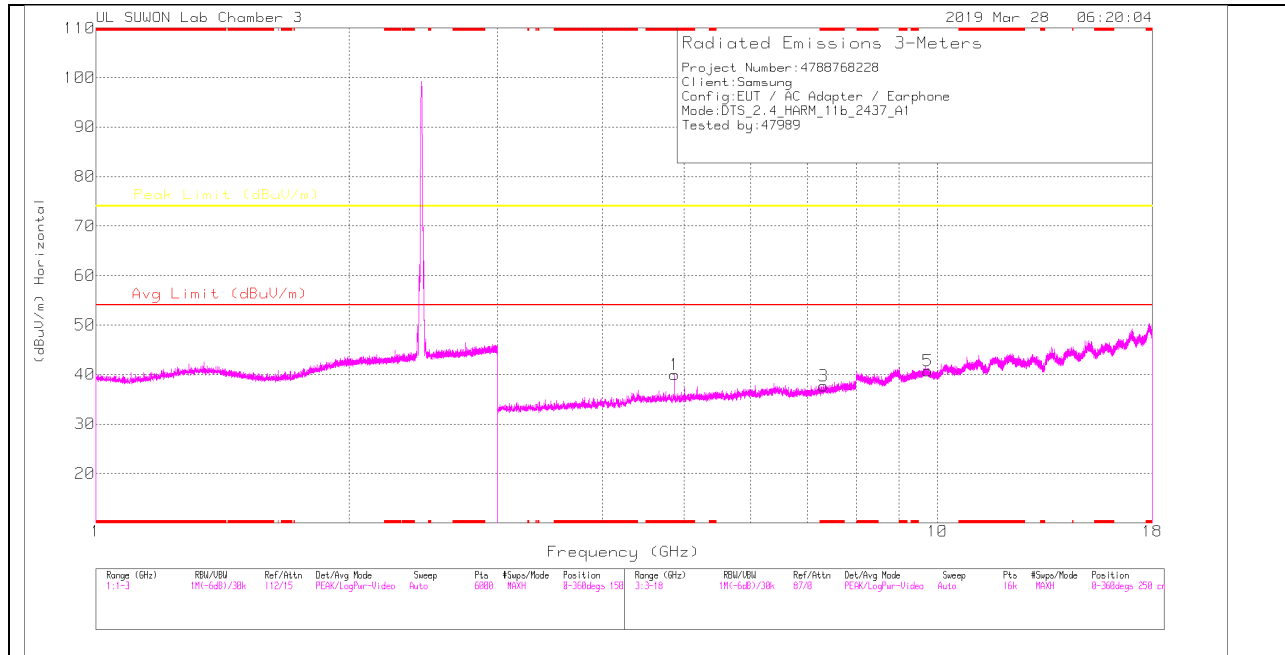
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

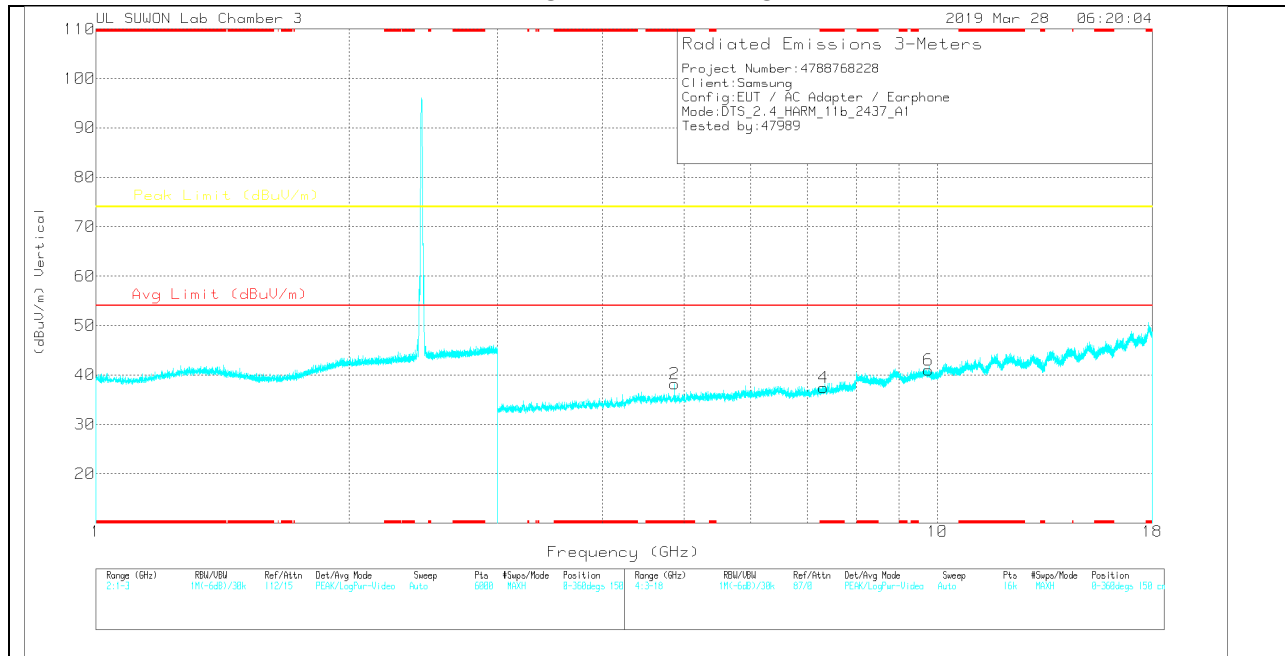
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.824	42.02	PK2	34.2	-28.7	0	47.52	-	-	74	-26.48	108	310	H
* 4.824	34.74	MAV1	34.2	-28.7	0	40.24	54	-13.76	-	-	108	310	H
* 4.824	39.33	PK2	34.2	-28.6	0	44.93	-	-	74	-29.07	283	388	V
* 4.824	30.55	MAV1	34.2	-28.7	0	36.05	54	-17.95	-	-	283	388	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



MID 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.

MID 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	34.83	PK	34.2	-29.1	0	39.93	-	-	74	-34.07	0-360	250	H
3	* 7.317	25.6	PK	35.8	-23.7	0	37.7	-	-	74	-36.3	0-360	150	H
5	9.74	23.09	PK	37.2	-19.6	0	40.69	-	-	74	-33.31	0-360	150	H
2	* 4.873	33.14	PK	34.2	-29.1	0	38.24	-	-	74	-35.76	0-360	150	V
4	* 7.317	25.34	PK	35.8	-23.7	0	37.44	-	-	74	-36.56	0-360	150	V
6	9.75	23.43	PK	37.2	-19.6	0	41.03	-	-	74	-32.97	0-360	250	V

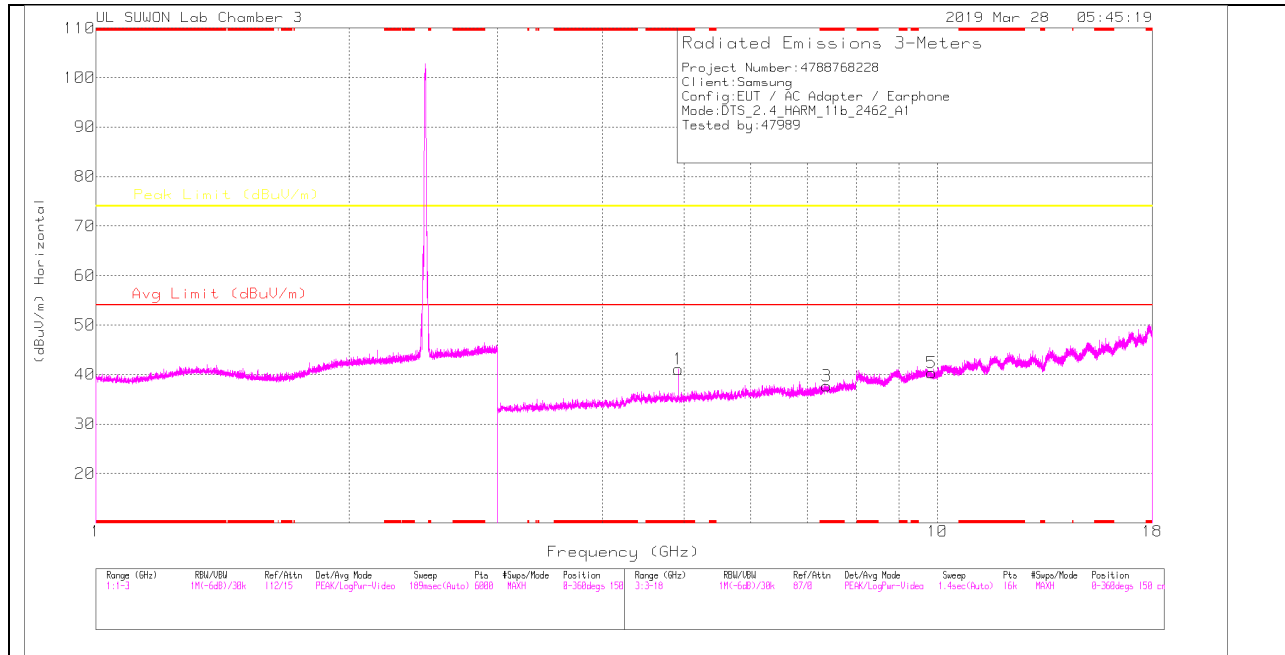
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

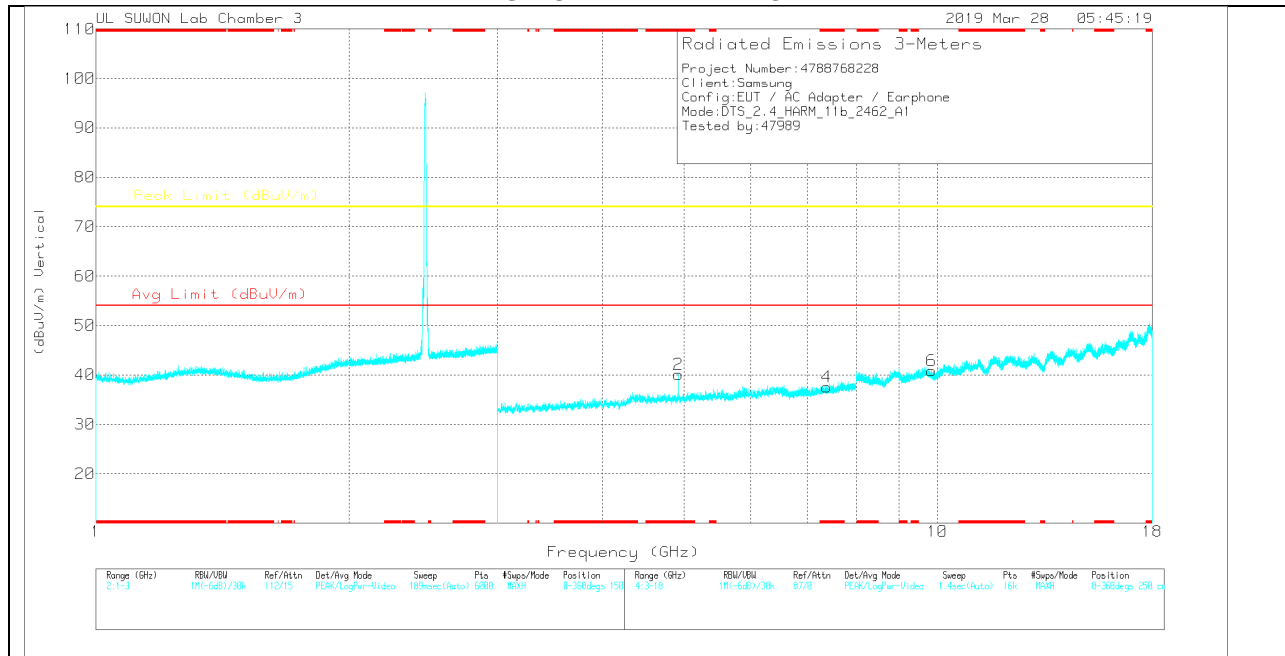
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.874	42.83	PK2	34.2	-29.1	0	47.93	-	-	74	-26.07	117	368	H
* 4.874	36.49	MAv1	34.2	-29	0	41.69	54	-12.31	-	-	117	368	H
* 4.874	40.98	PK2	34.2	-29	0	46.18	-	-	74	-27.82	200	348	V
* 4.874	32.31	MAv1	34.2	-29	0	37.51	54	-16.49	-	-	200	348	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



HIGH 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.

HIGH 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	* 4.924	36.05	PK	34.2	-29.2	0	41.05	-	-	74	-32.95	0-360	250	H
3	* 7.38	25.12	PK	35.8	-23.2	0	37.72	-	-	74	-36.28	0-360	150	H
5	9.84	22.6	PK	37.4	-19.7	0	40.3	-	-	74	-33.7	0-360	250	H
2	* 4.924	35.05	PK	34.2	-29.2	0	40.05	-	-	74	-33.95	0-360	150	V
4	* 7.386	25.06	PK	35.8	-23.3	0	37.56	-	-	74	-36.44	0-360	150	V
6	9.845	23.18	PK	37.4	-19.7	0	40.88	-	-	74	-33.12	0-360	250	V

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

Radiated Emissions

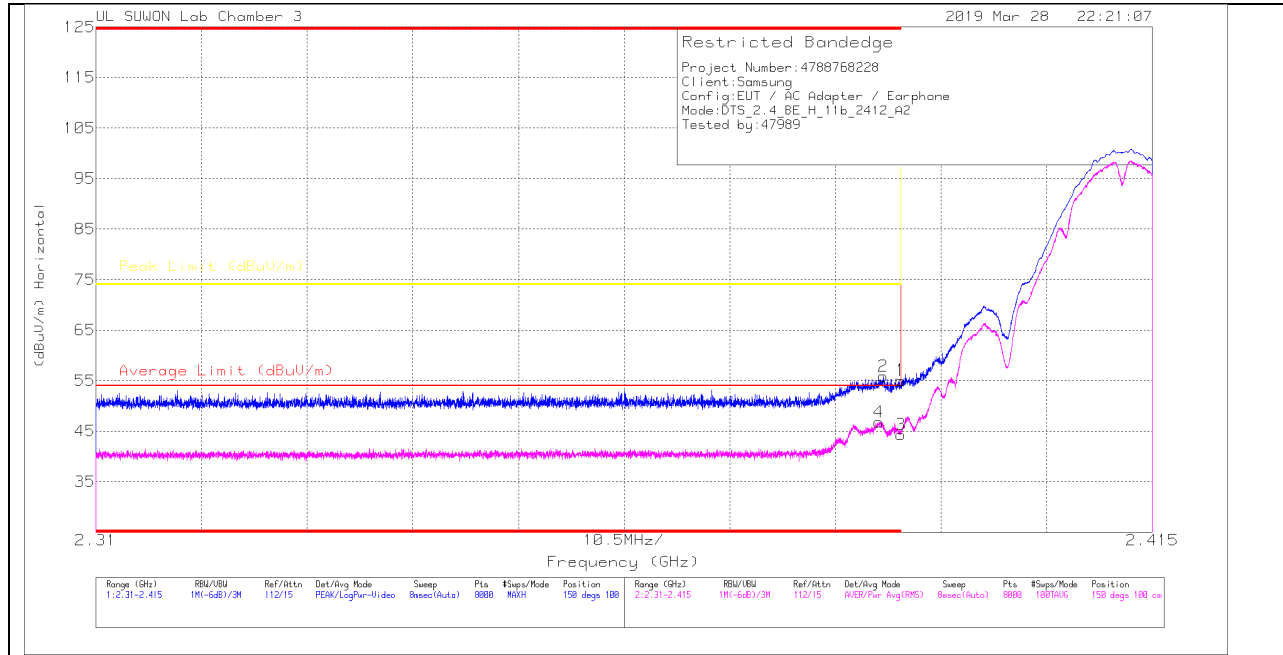
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	42.76	PK2	34.2	-29.2	0	47.76	-	-	74	-26.24	311	101	H
* 4.924	34.73	MAv1	34.2	-29.2	0	39.73	54	-14.27	-	-	311	101	H
* 4.924	42.59	PK2	34.2	-29.2	0	47.59	-	-	74	-26.41	278	102	V
* 4.924	35.25	MAv1	34.2	-29.2	0	40.25	54	-13.75	-	-	278	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

11.2.2. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANTENNA2

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

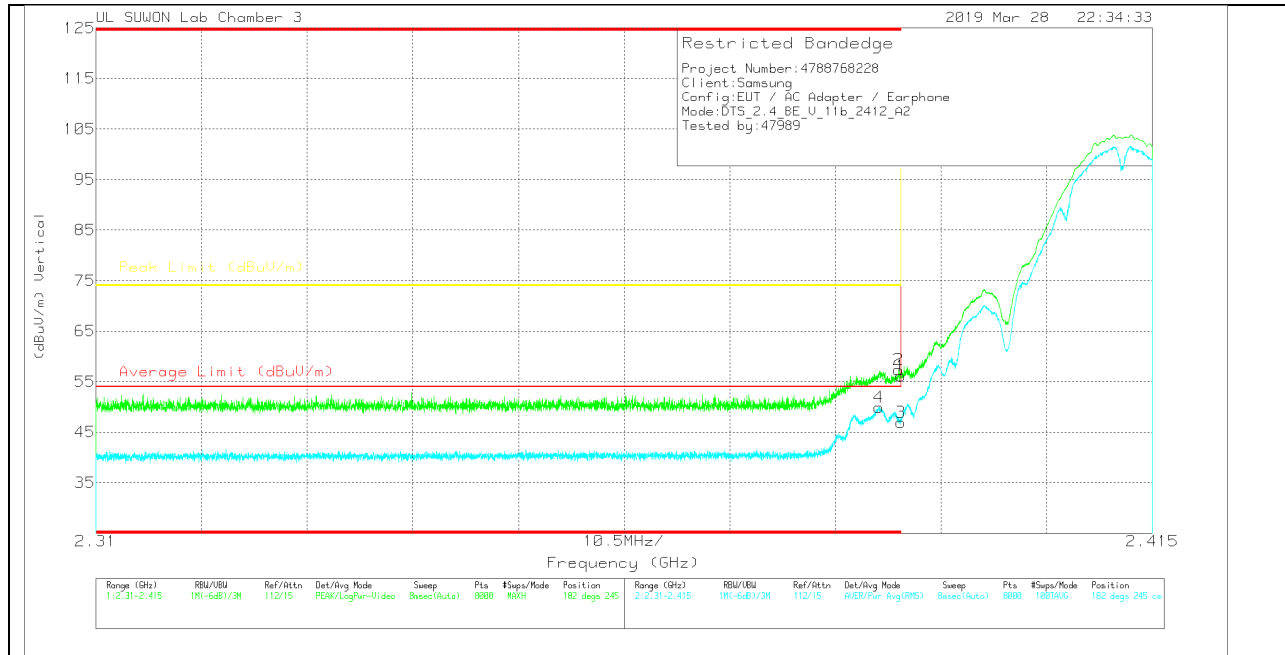
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.77	PK	31.7	-23.4	0	55.07	-	-	74	-18.93	150	100	H
2	* 2.388	47.61	PK	31.7	-23.4	0	55.91	-	-	74	-18.09	150	100	H
3	* 2.39	36.02	RMS	31.7	-23.4	0	44.32	54	-9.68	-	-	150	100	H
4	* 2.388	38.51	RMS	31.7	-23.4	0	46.81	54	-7.19	-	-	150	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(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	47.77	Pk	31.7	-23.4	0	56.07	-	-	74	-17.93	182	245	V
2	* 2.39	49.03	Pk	31.7	-23.4	0	57.33	-	-	74	-16.67	182	245	V
3	* 2.39	38.61	RMS	31.7	-23.4	0	46.91	54	-7.09	-	-	182	245	V
4	* 2.388	41.66	RMS	31.7	-23.4	0	49.96	54	-4.04	-	-	182	245	V

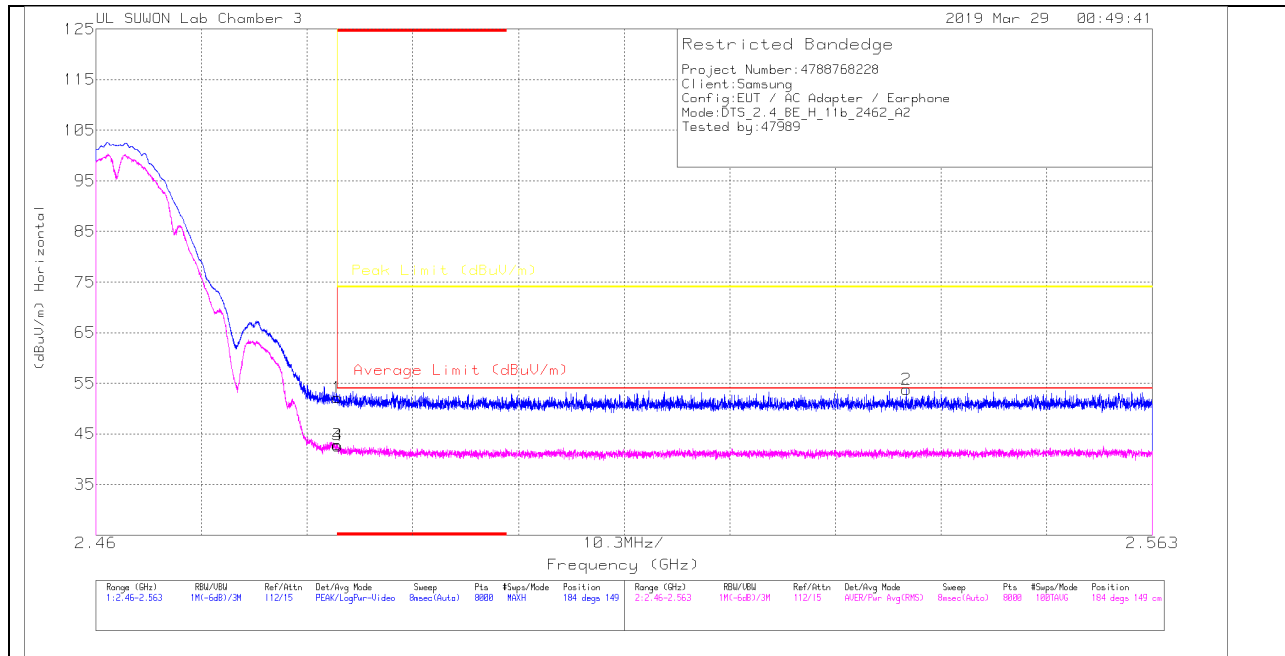
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

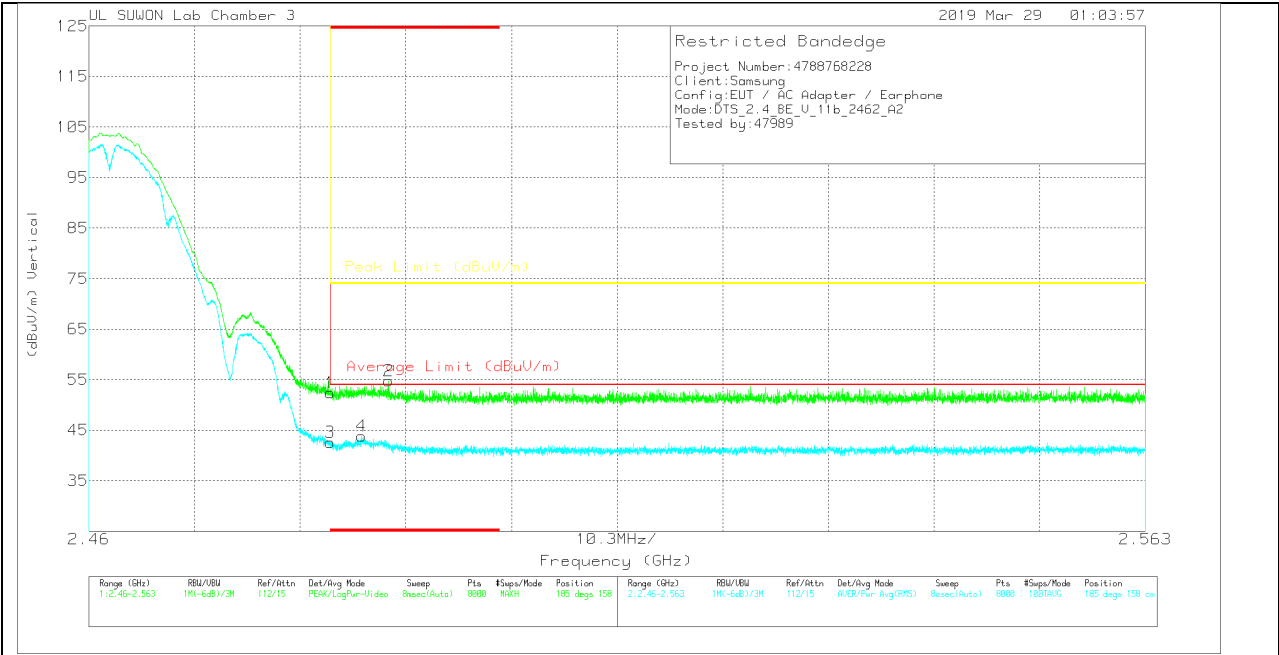
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.47	Pk	31.9	-23.2	0	52.17	-	-	74	-21.83	184	149	H
2	2.539	45.05	Pk	32	-23.3	0	53.75	-	-	74	-20.25	184	149	H
3	* 2.484	34.15	RMS	31.9	-23.2	0	42.85	54	-11.15	-	-	184	149	H
4	* 2.484	34.06	RMS	31.9	-23.3	0	42.66	54	-11.34	-	-	184	149	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

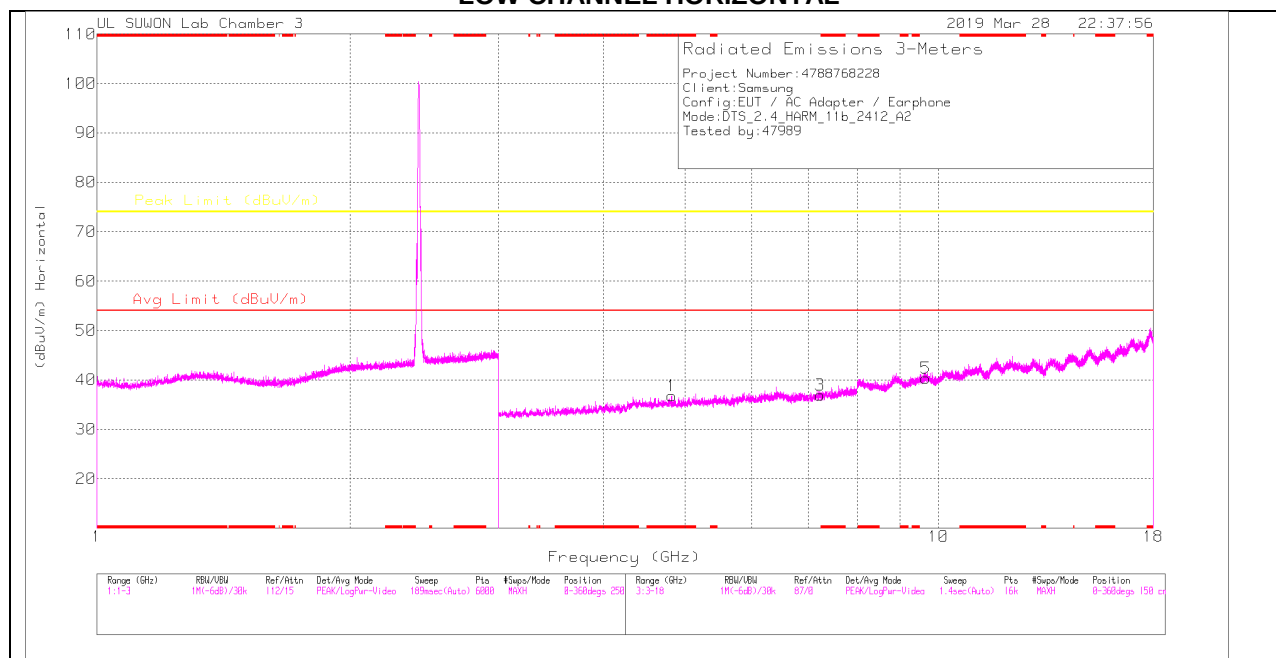
Trace Markers

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	43.67	Pk	31.9	-23.2	0	52.37	-	-	74	-21.63	185	158	V
2	* 2.489	46.08	Pk	31.9	-23.2	0	54.78	-	-	74	-19.22	185	158	V
3	* 2.484	33.91	RMS	31.9	-23.2	0	42.61	54	-11.39	-	-	185	158	V
4	* 2.487	35.13	RMS	31.9	-23.2	0	43.83	54	-10.17	-	-	185	158	V

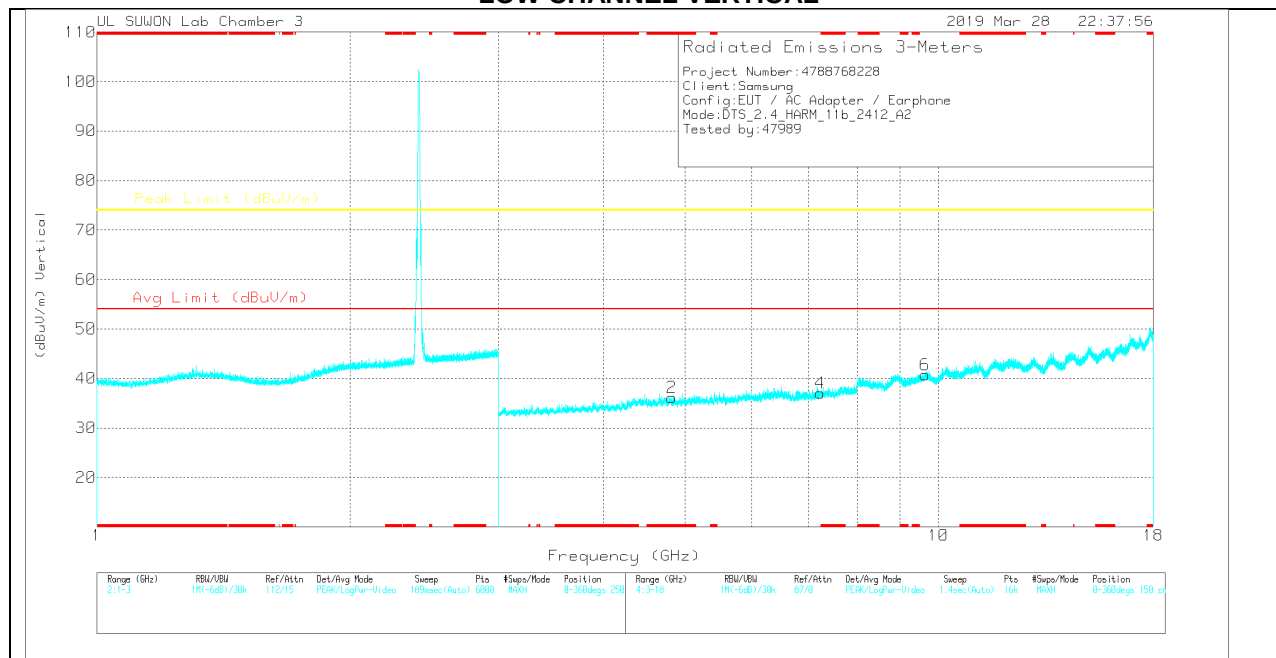
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



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

LOW CHANNEL DATA

Trace Markers

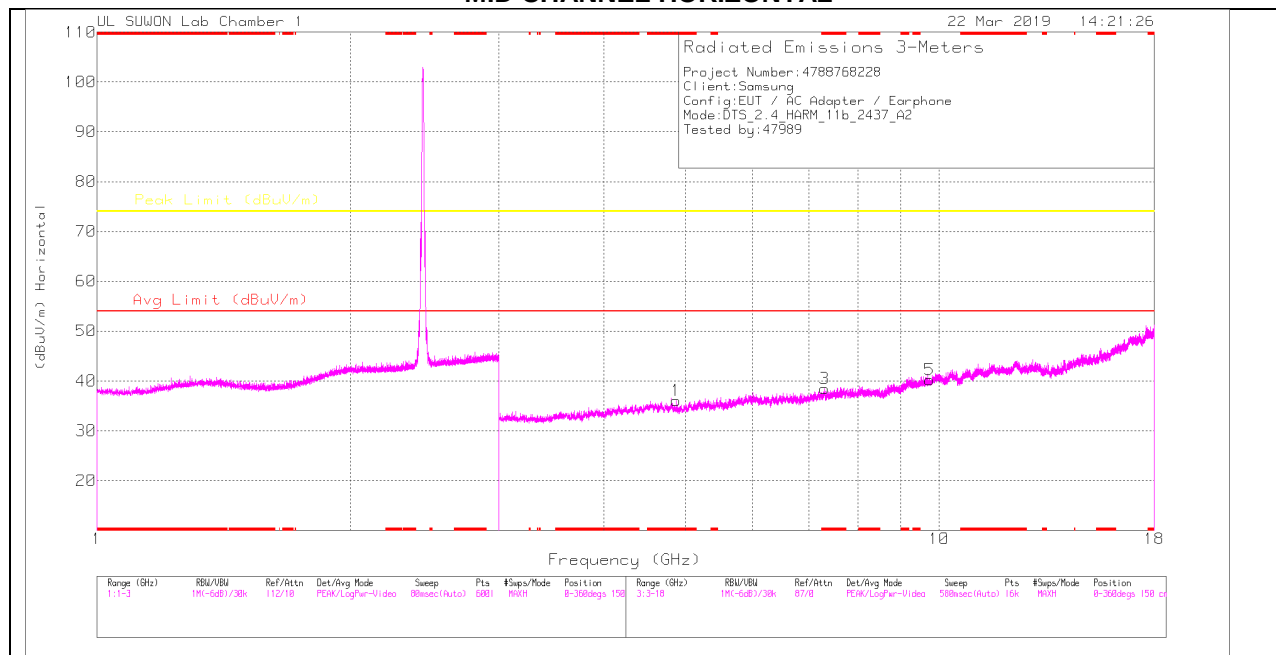
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.824	31.18	PK	34.2	-28.6	0	36.78	-	-	74	-37.22	0-360	150	H
3	7.236	25.19	PK	35.8	-24.1	0	36.89	-	-	74	-37.11	0-360	150	H
5	9.649	22.98	PK	37.1	-19.7	0	40.38	-	-	74	-33.62	0-360	150	H
2	* 4.824	30.56	PK	34.2	-28.6	0	36.16	-	-	74	-37.84	0-360	150	V
4	7.235	25.5	PK	35.8	-24.2	0	37.1	-	-	74	-36.9	0-360	150	V
6	9.648	23.33	PK	37.1	-19.7	0	40.73	-	-	74	-33.27	0-360	250	V

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

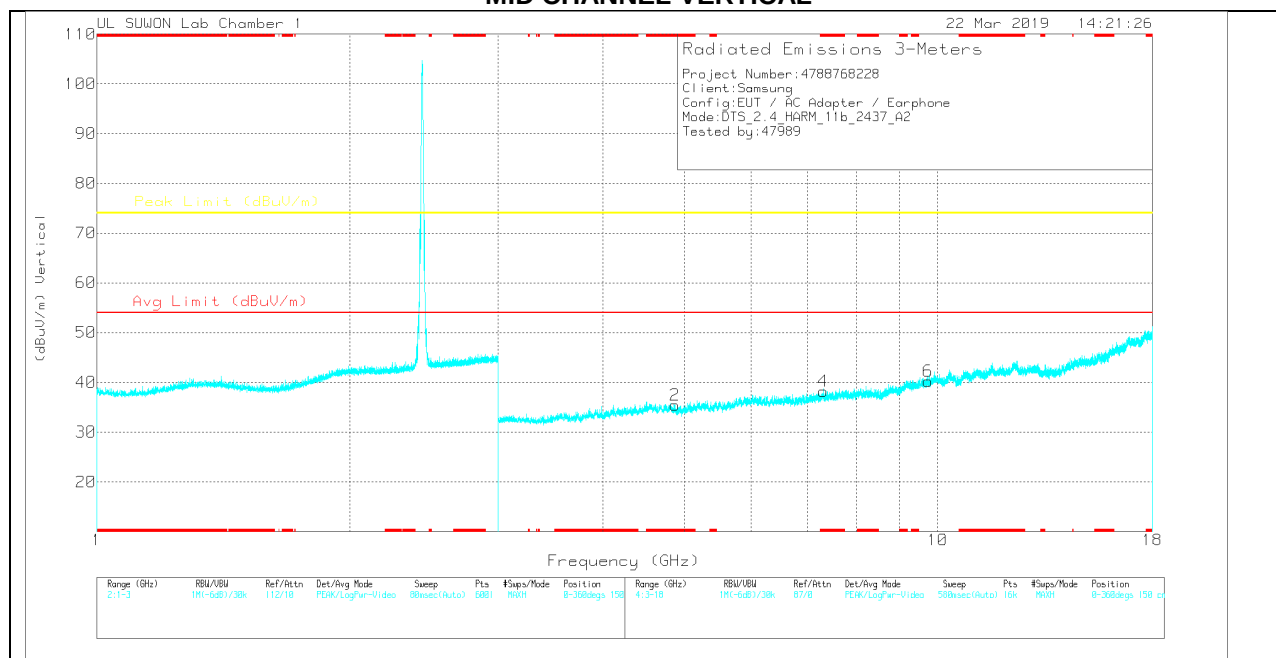
PK – Peak Detector

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

MID CHANNEL HORIZONTAL



MID 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.

MID CHANNEL DATA

Trace Markers

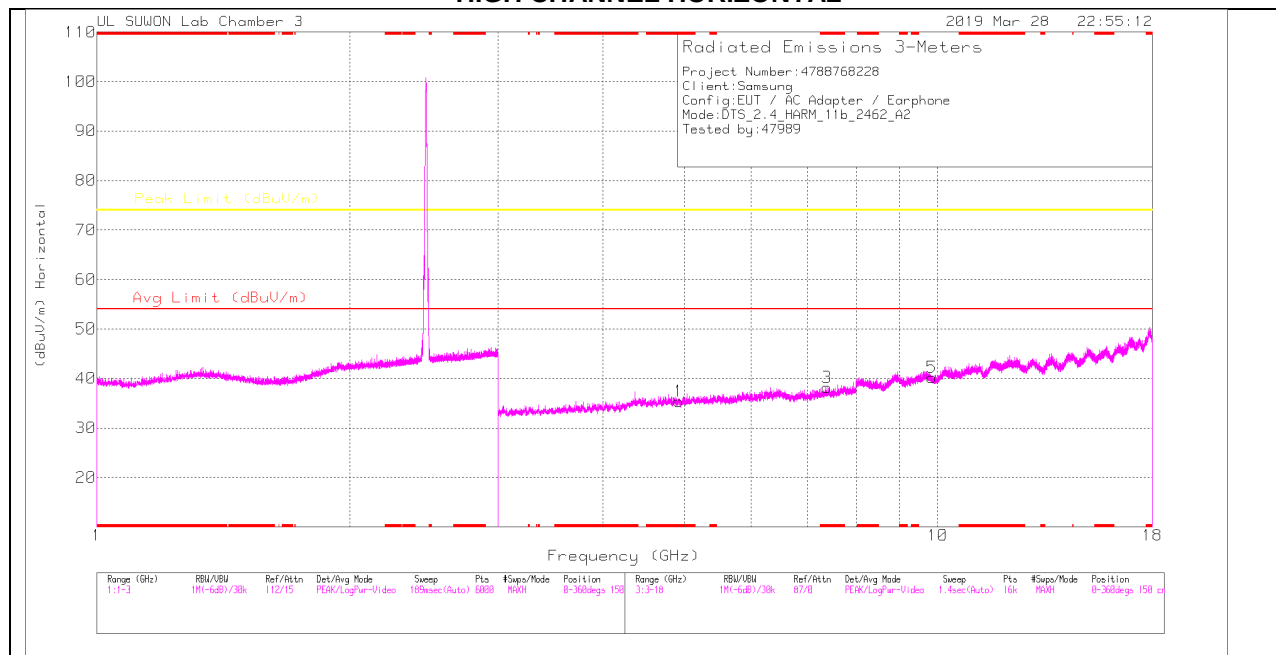
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.874	33.36	PK	34.2	-31.5	0	36.06	-	-	74	-37.94	0-360	150	H
3	* 7.31	30.15	PK	35.8	-27.5	0	38.45	-	-	74	-35.55	0-360	250	H
5	9.748	26.93	PK	37.2	-23.9	0	40.23	-	-	74	-33.77	0-360	150	H
2	* 4.874	32.76	PK	34.2	-31.5	0	35.46	-	-	74	-38.54	0-360	250	V
4	* 7.309	29.84	PK	35.8	-27.4	0	38.24	-	-	74	-35.76	0-360	150	V
6	9.748	26.97	PK	37.2	-23.9	0	40.27	-	-	74	-33.73	0-360	250	V

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

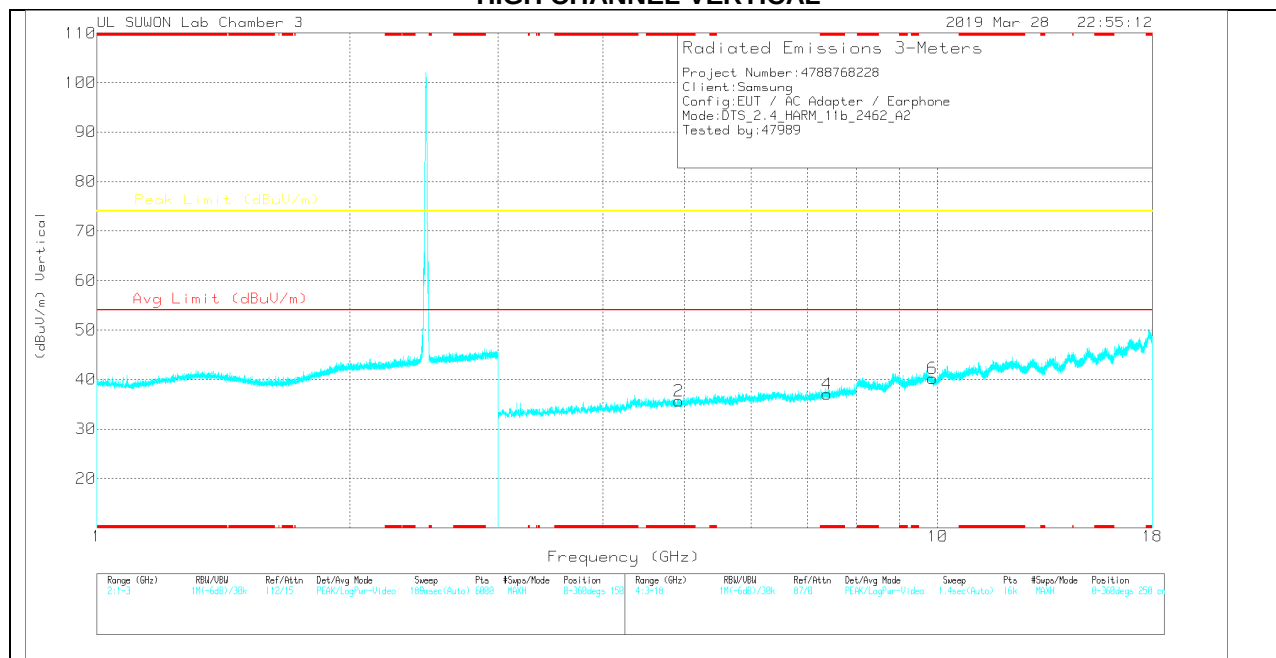
PK – Peak Detector

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

HIGH CHANNEL HORIZONTAL



HIGH 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.

HIGH 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	* 4.924	30.37	PK	34.2	-29.2	0	35.37	-	-	74	-38.63	0-360	150	H
3	* 7.384	25.64	PK	35.8	-23.2	0	38.24	-	-	74	-35.76	0-360	250	H
5	9.845	22.55	PK	37.4	-19.7	0	40.25	-	-	74	-33.75	0-360	150	H
2	* 4.922	30.6	PK	34.2	-29.2	0	35.6	-	-	74	-38.4	0-360	250	V
4	* 7.386	24.59	PK	35.8	-23.3	0	37.09	-	-	74	-36.91	0-360	250	V
6	9.852	22.5	PK	37.4	-19.7	0	40.2	-	-	74	-33.8	0-360	250	V

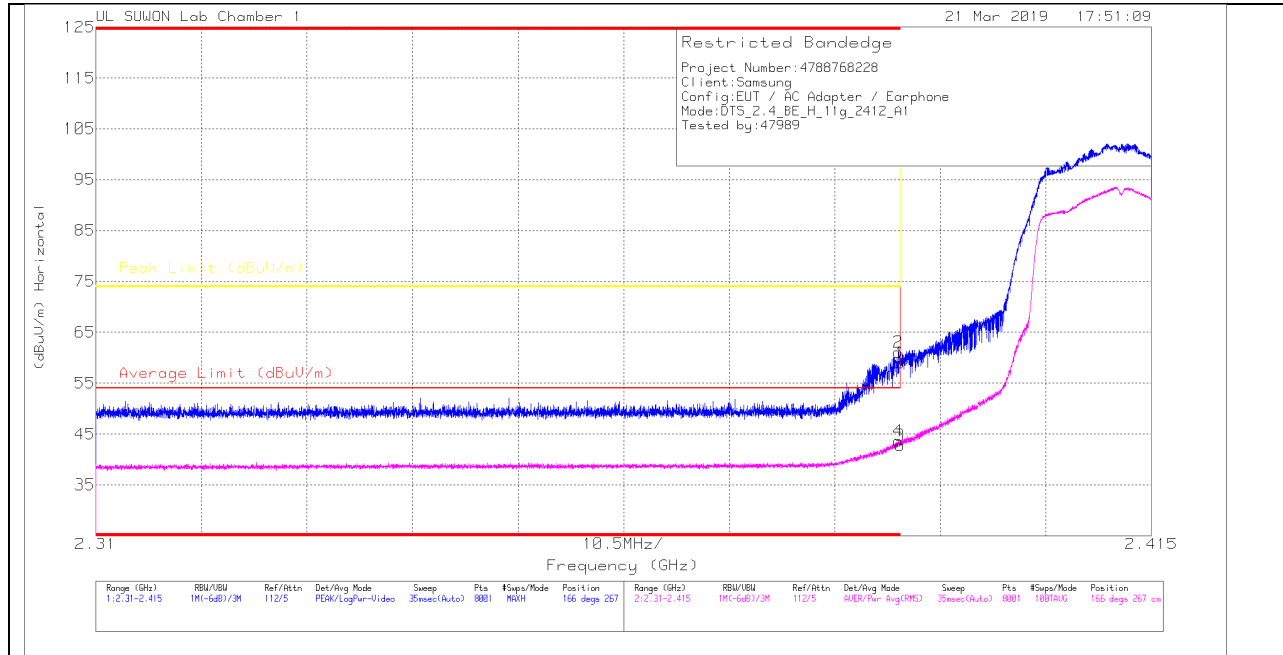
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

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

11.2.3. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND ANTENNA1

BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

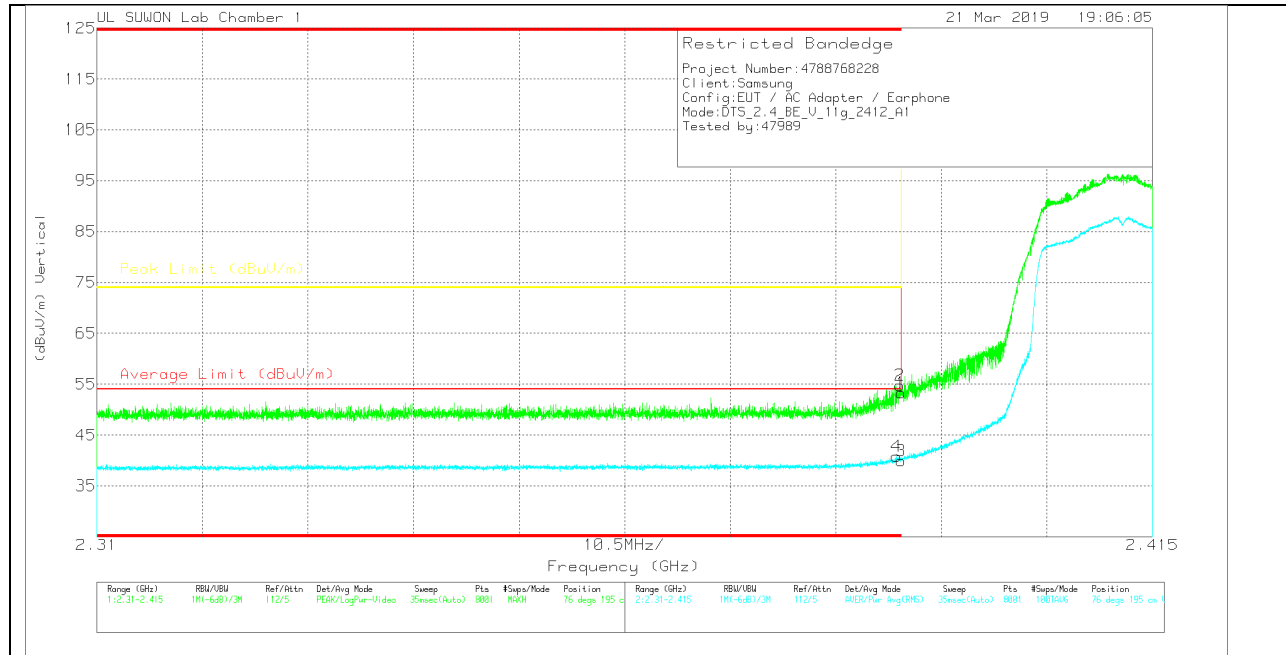
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 2.39	52.8	Pk	31.7	-25.5	0	59	-	-	74	-15	166	267	H
2	* 2.39	54.89	Pk	31.7	-25.5	0	61.09	-	-	74	-12.91	166	267	H
3	* 2.39	36.62	RMS	31.7	-25.5	0	42.82	54	-11.18	-	-	166	267	H
4	* 2.39	37.48	RMS	31.7	-25.5	0	43.68	54	-10.32	-	-	166	267	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	* 2.39	47.05	Pk	31.7	-25.5	0	53.25	-	-	74	-20.75	76	195	V
2	* 2.39	48.58	Pk	31.7	-25.5	0	54.78	-	-	74	-19.22	76	195	V
3	* 2.39	33.73	RMS	31.7	-25.5	0	39.93	54	-14.07	-	-	76	195	V
4	* 2.39	34.59	RMS	31.7	-25.5	0	40.79	54	-13.21	-	-	76	195	V

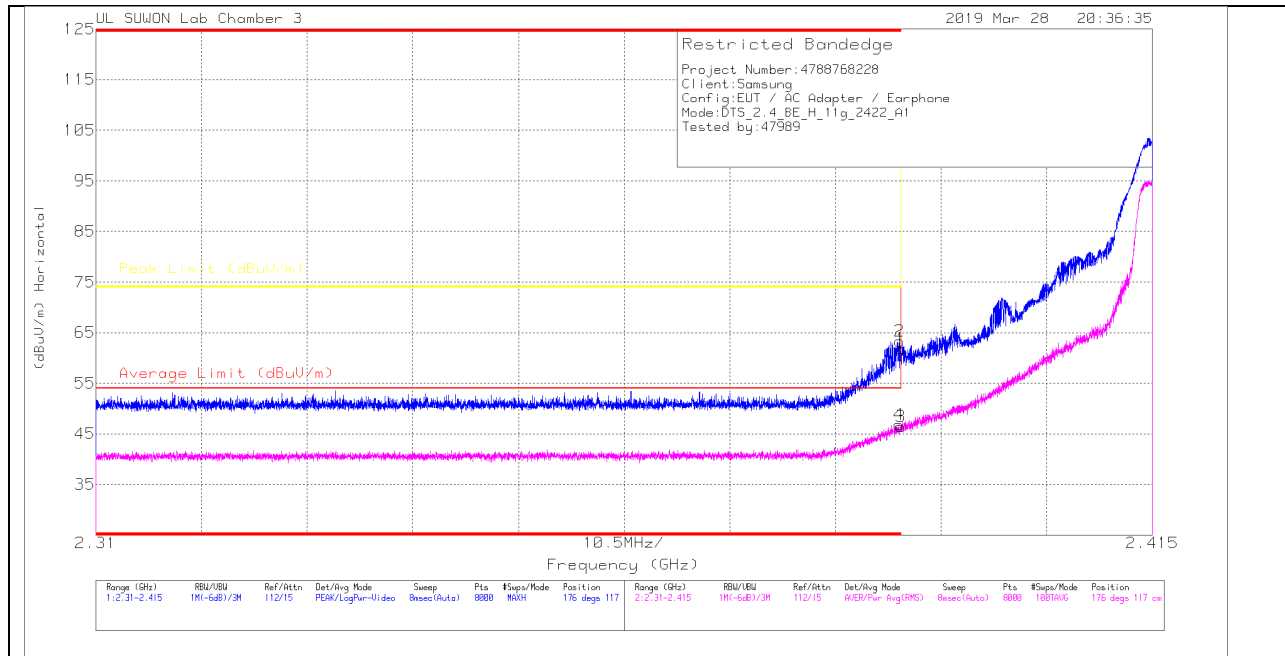
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (3 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

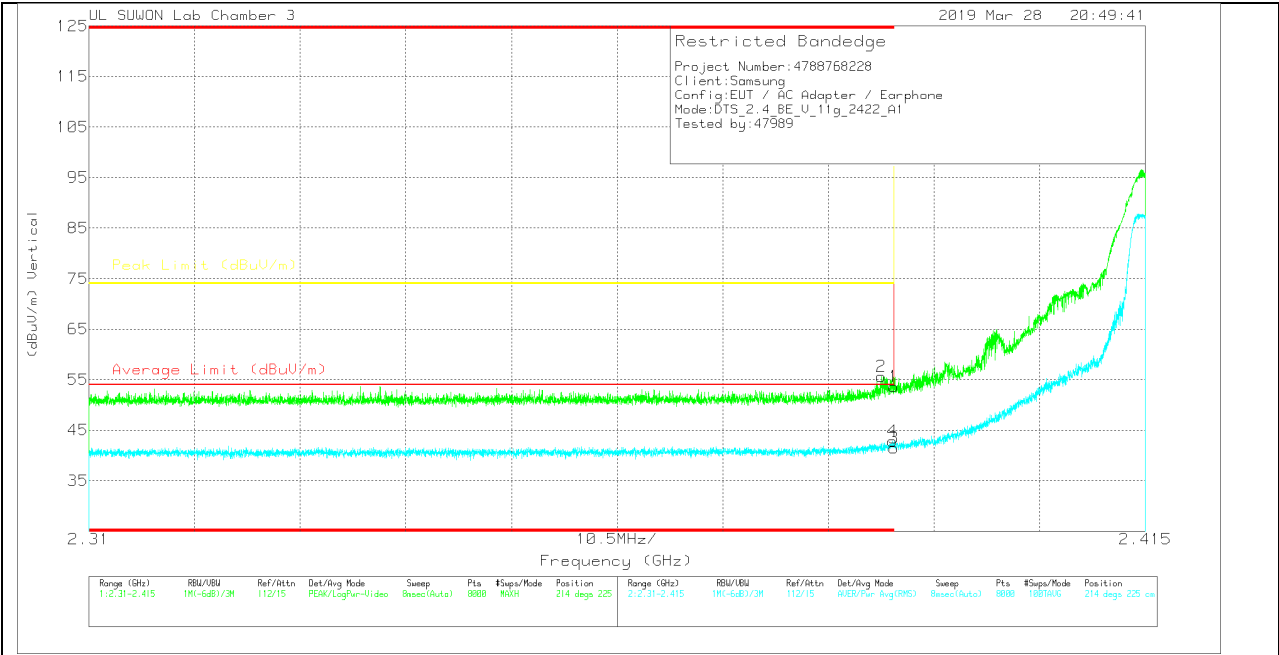
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	53.51	Pk	31.7	-23.4	0	61.81	-	-	74	-12.19	176	117	H
2	* 2.39	55	Pk	31.7	-23.4	0	63.3	-	-	74	-10.7	176	117	H
3	* 2.39	38.09	RMS	31.7	-23.4	0	46.39	54	-7.61	-	-	176	117	H
4	* 2.39	38.5	RMS	31.7	-23.4	0	46.8	54	-7.2	-	-	176	117	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

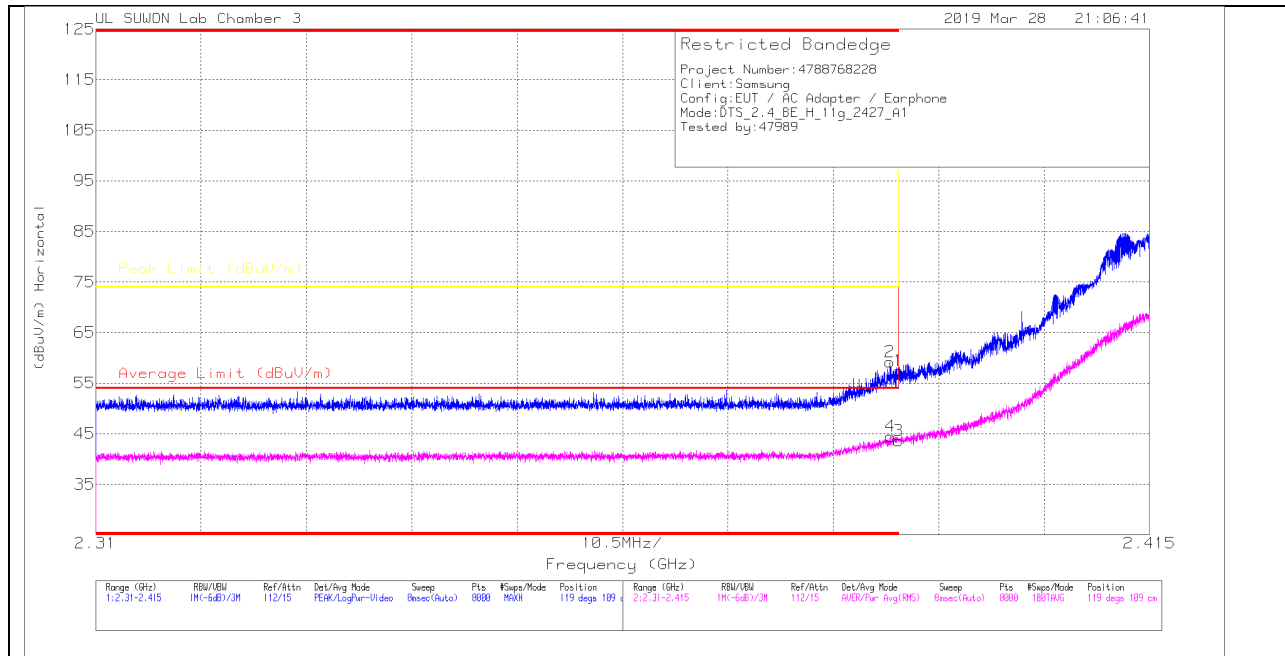
Trace Markers

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	45.32	Pk	31.7	-23.4	0	53.62	-	-	74	-20.38	214	225	V
2	* 2.389	47.31	Pk	31.7	-23.4	0	55.61	-	-	74	-18.39	214	225	V
3	* 2.39	33.23	RMS	31.7	-23.4	0	41.53	54	-12.47	-	-	214	225	V
4	* 2.39	34.55	RMS	31.7	-23.4	0	42.85	54	-11.15	-	-	214	225	V

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

BANDEDGE (4 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

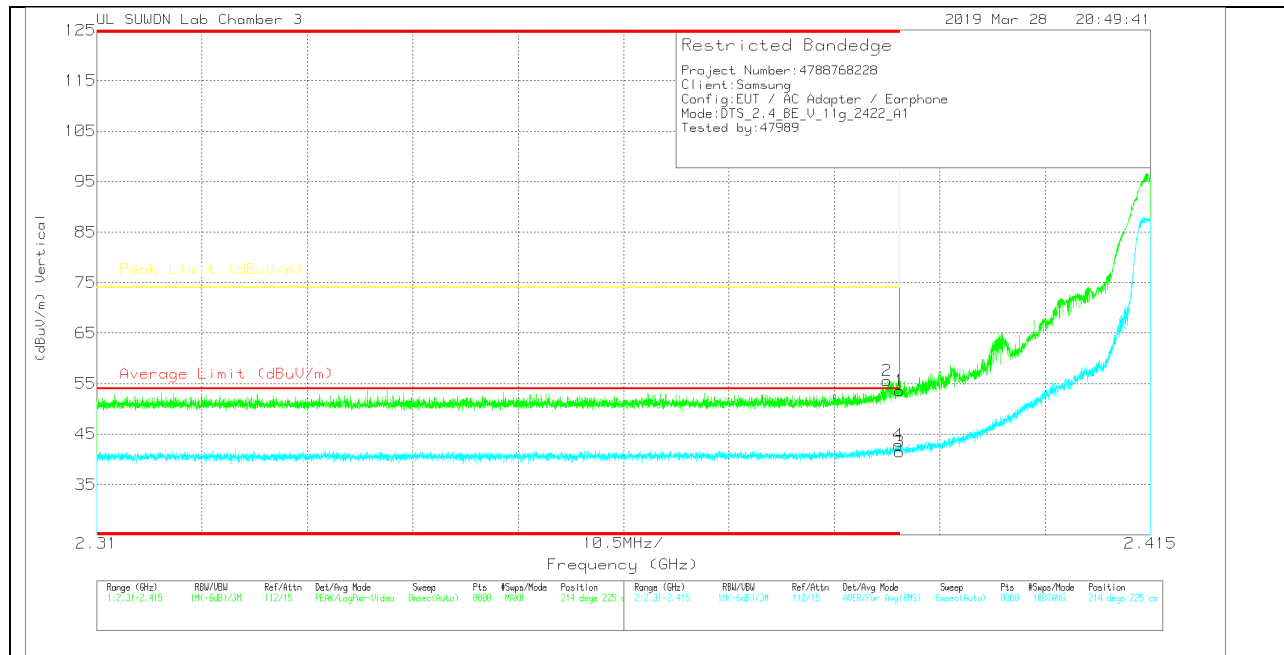
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	49.12	Pk	31.7	-23.4	0	57.42	-	-	74	-16.58	119	109	H
2	* 2.389	50.9	Pk	31.7	-23.4	0	59.2	-	-	74	-14.8	119	109	H
3	* 2.39	35.26	RMS	31.7	-23.4	0	43.56	54	-10.44	-	-	119	109	H
4	* 2.389	36.24	RMS	31.7	-23.4	0	44.54	54	-9.46	-	-	119	109	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB[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	45.32	PK	31.7	-23.4	0	53.62	-	-	74	-20.38	214	225	V
2	* 2.389	47.31	PK	31.7	-23.4	0	55.61	-	-	74	-18.39	214	225	V
3	* 2.39	33.23	RMS	31.7	-23.4	0	41.53	54	-12.47	-	-	214	225	V
4	* 2.39	34.55	RMS	31.7	-23.4	0	42.85	54	-11.15	-	-	214	225	V

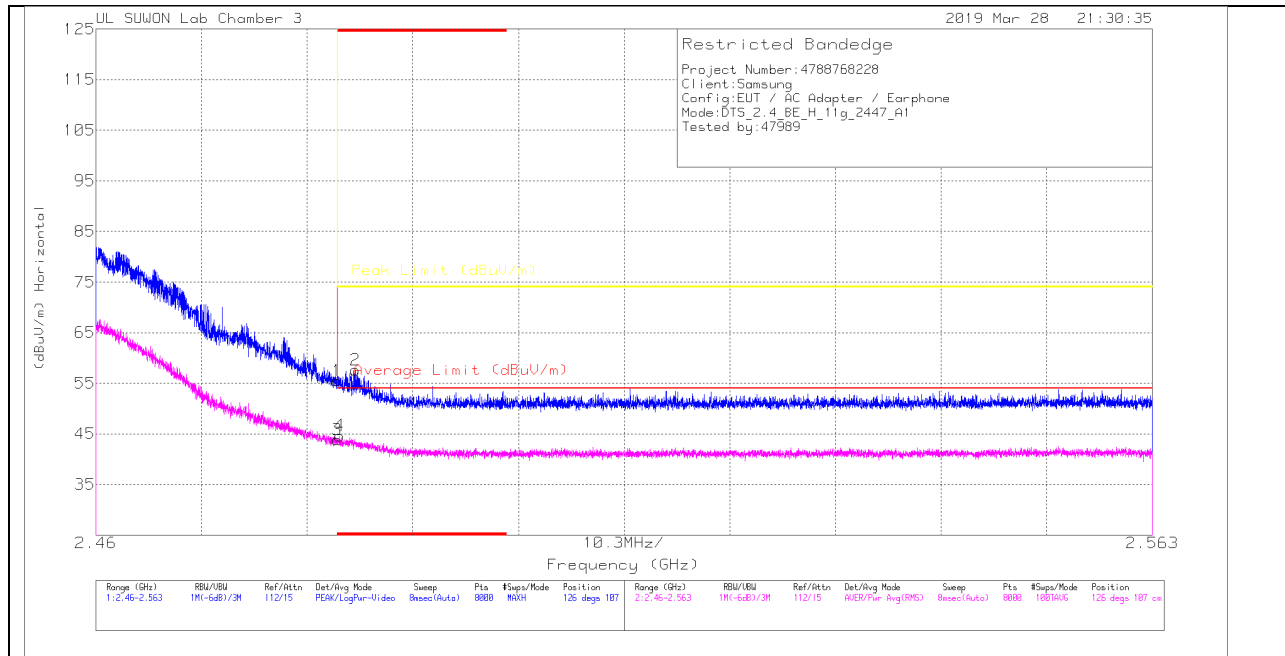
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANDEDGE (8 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

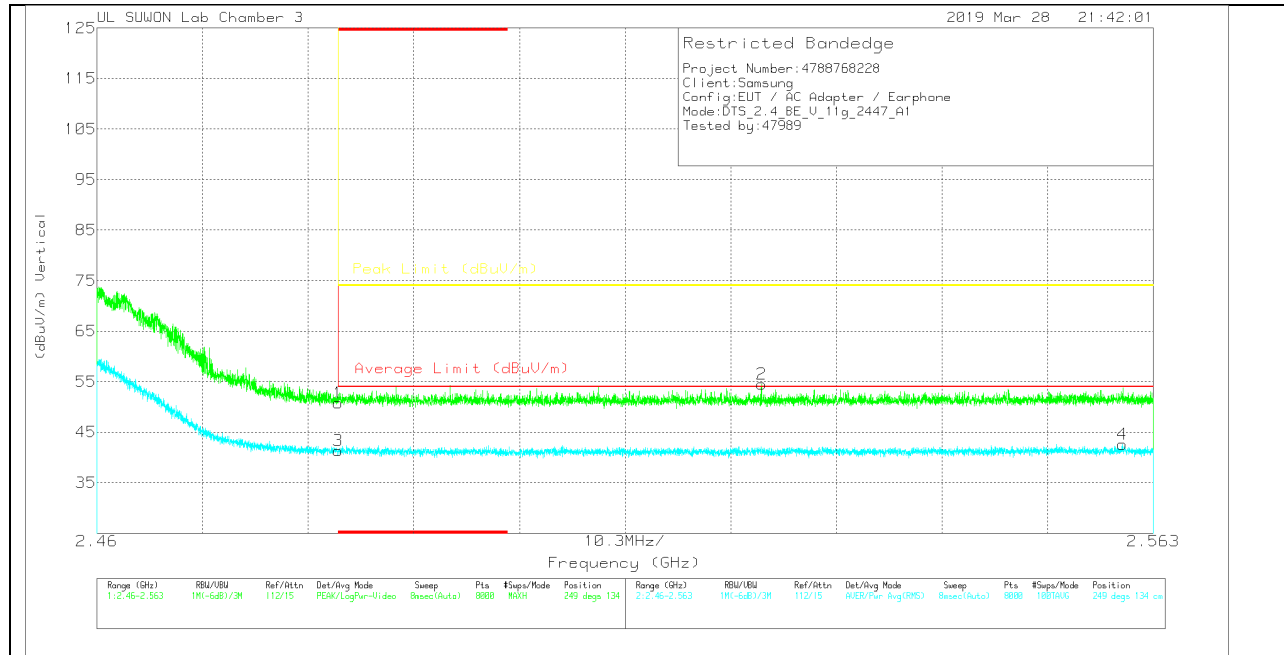
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.75	PK	31.9	-23.2	0	55.45	-	-	74	-18.55	126	107	H
2	* 2.485	48.97	PK	31.9	-23.2	0	57.67	-	-	74	-16.33	126	107	H
3	* 2.484	35.1	RMS	31.9	-23.2	0	43.8	54	-10.2	-	-	126	107	H
4	* 2.484	36.04	RMS	31.9	-23.3	0	44.64	54	-9.36	-	-	126	107	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	42.1	Pk	31.9	-23.2	0	50.8	-	-	74	-23.2	249	134	V
2	2.525	45.64	PK	32	-23.1	0	54.54	-	-	74	-19.46	249	134	V
3	* 2.484	32.6	RMS	31.9	-23.2	0	41.3	54	-12.7	-	-	249	134	V
4	2.56	33.68	RMS	32	-23.1	0	42.58	54	-11.42	-	-	249	134	V

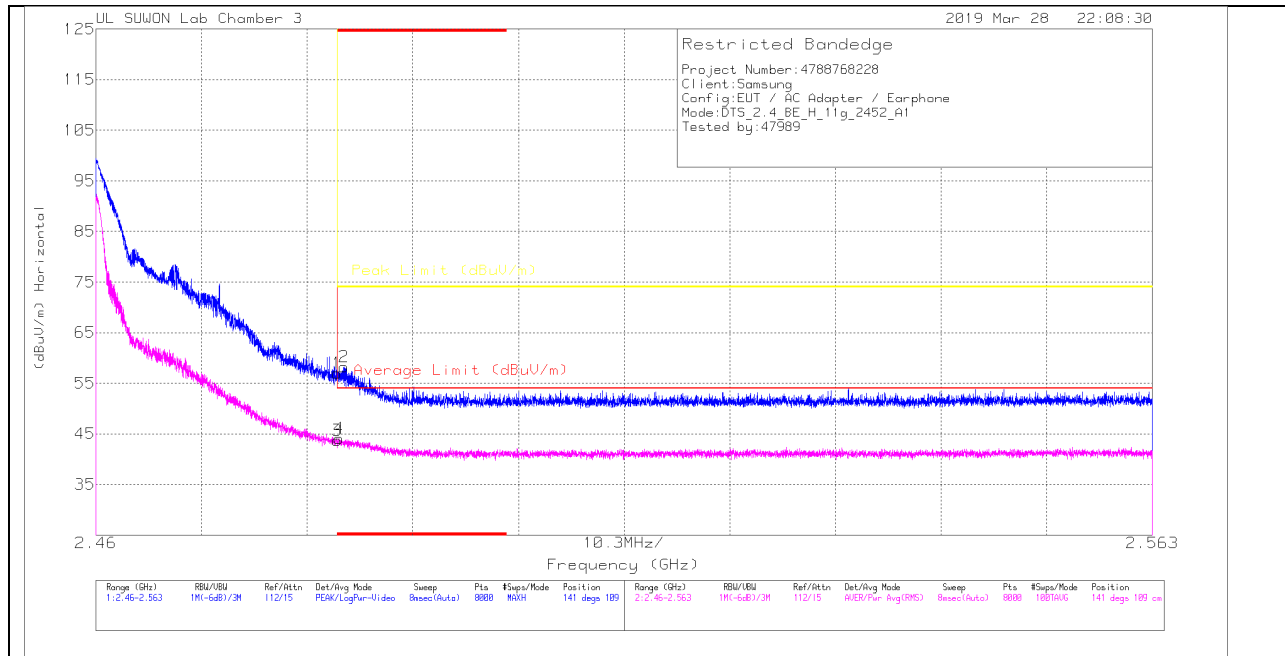
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANDEDGE (9 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	48.3	PK	31.9	-23.2	0	57	-	-	74	-17	141	109	H
2	* 2.484	49.66	PK	31.9	-23.3	0	58.26	-	-	74	-15.74	141	109	H
3	* 2.484	34.99	RMS	31.9	-23.2	0	43.69	54	-10.31	-	-	141	109	H
4	* 2.484	35.48	RMS	31.9	-23.3	0	44.08	54	-9.92	-	-	141	109	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(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	43.64	Pk	31.9	-23.2	0	52.34	-	-	74	-21.66	198	104	V
2	* 2.498	45.6	Pk	31.9	-23.3	0	54.2	-	-	74	-19.8	198	104	V
3	* 2.484	32.34	RMS	31.9	-23.2	0	41.04	54	-12.96	-	-	198	104	V
4	* 2.485	33.91	RMS	31.9	-23.2	0	42.61	54	-11.39	-	-	198	104	V

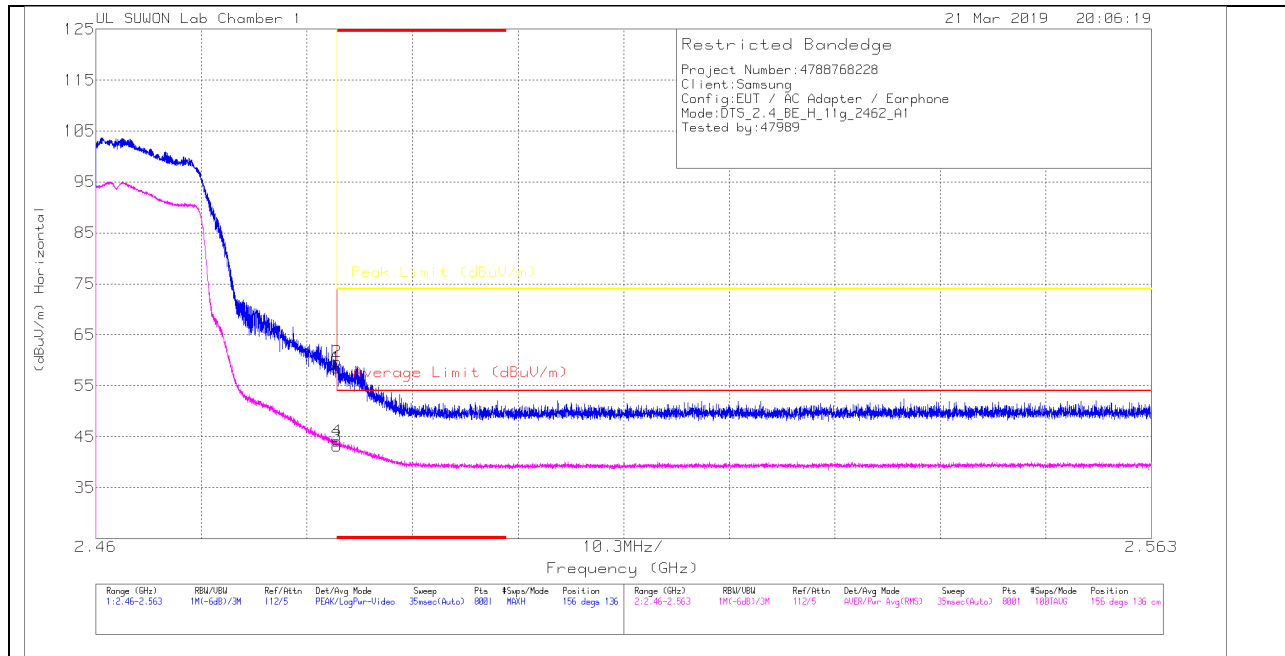
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

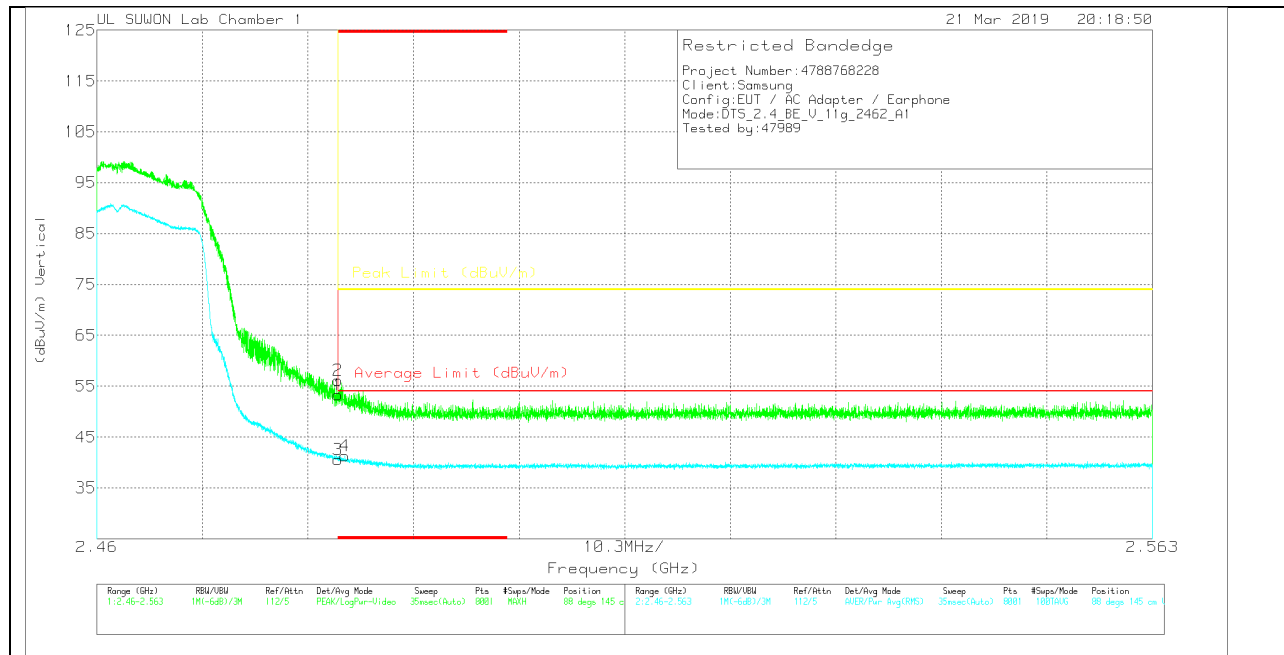
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	51.92	Pk	31.9	-25.3	0	58.52	-	-	74	-15.48	156	136	H
2	* 2.484	53.16	Pk	31.9	-25.3	0	59.76	-	-	74	-14.24	156	136	H
3	* 2.484	36.6	RMS	31.9	-25.3	0	43.2	54	-10.8	-	-	156	136	H
4	* 2.484	37.54	RMS	31.9	-25.3	0	44.14	54	-9.86	-	-	156	136	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	* 2.484	46.64	Pk	31.9	-25.3	0	53.24	-	-	74	-20.76	88	145	V
2	* 2.484	49.55	Pk	31.9	-25.3	0	56.15	-	-	74	-17.85	88	145	V
3	* 2.484	33.95	RMS	31.9	-25.3	0	40.55	54	-13.45	-	-	88	145	V
4	* 2.484	34.67	RMS	31.9	-25.3	0	41.27	54	-12.73	-	-	88	145	V

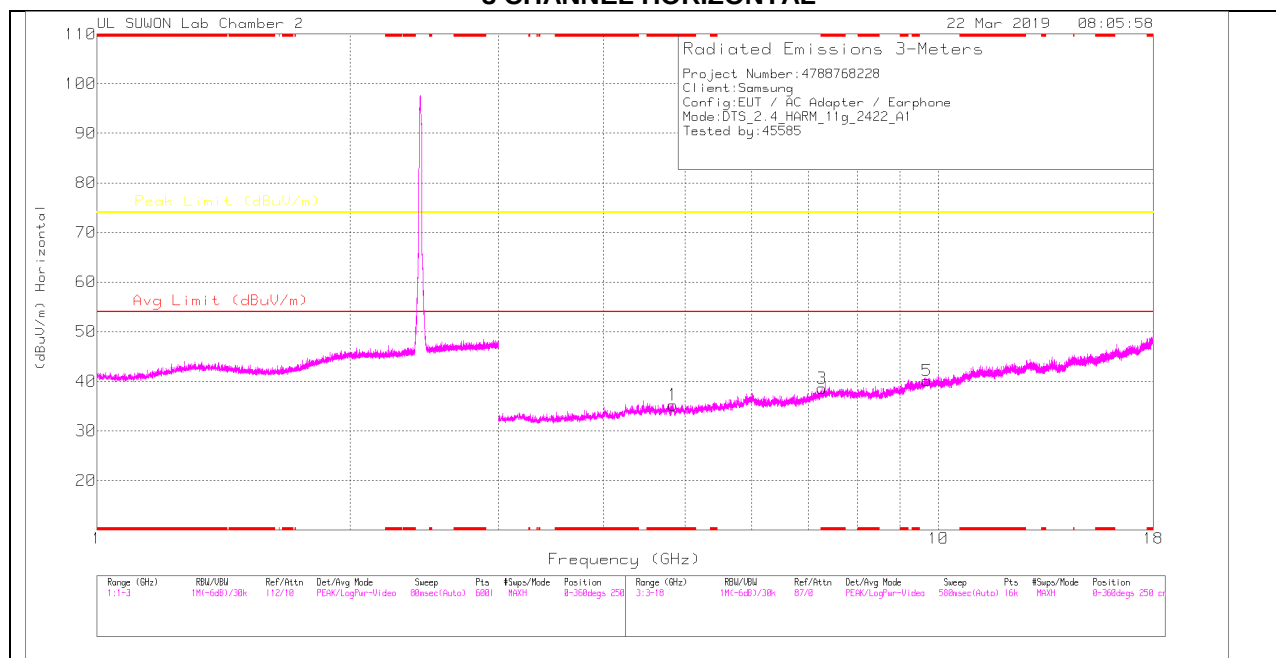
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

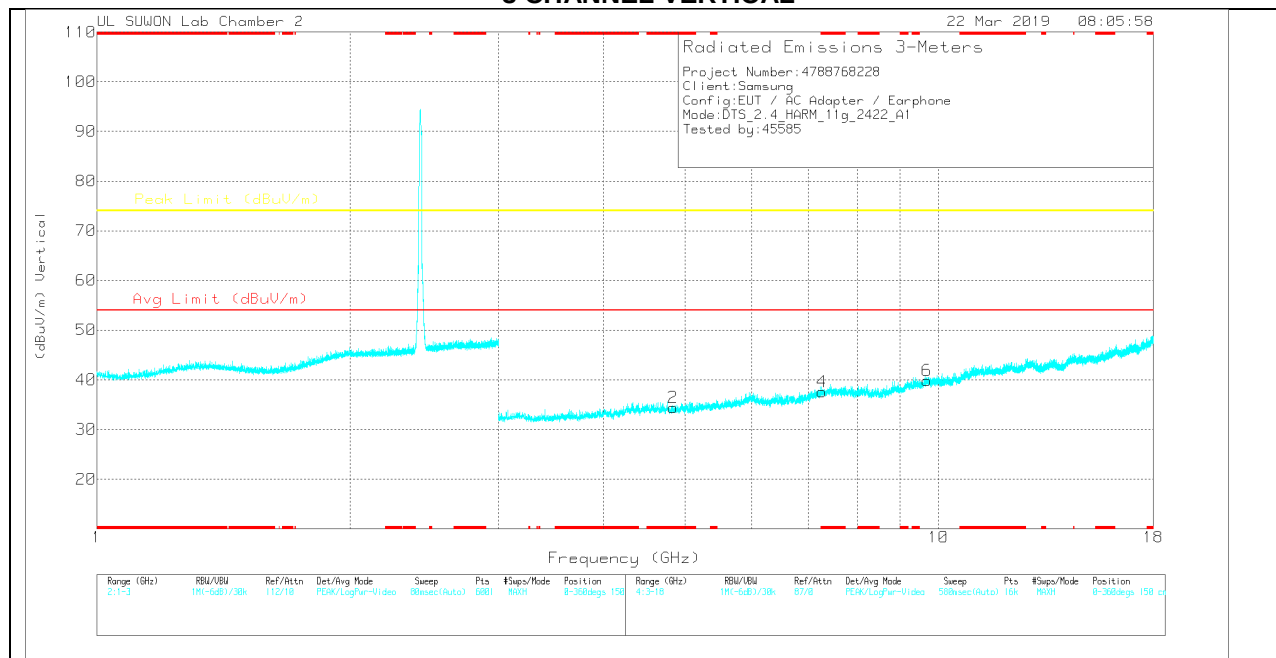
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

3 CHANNEL HORIZONTAL



3 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.

3 CHANNEL DATA

Trace Markers

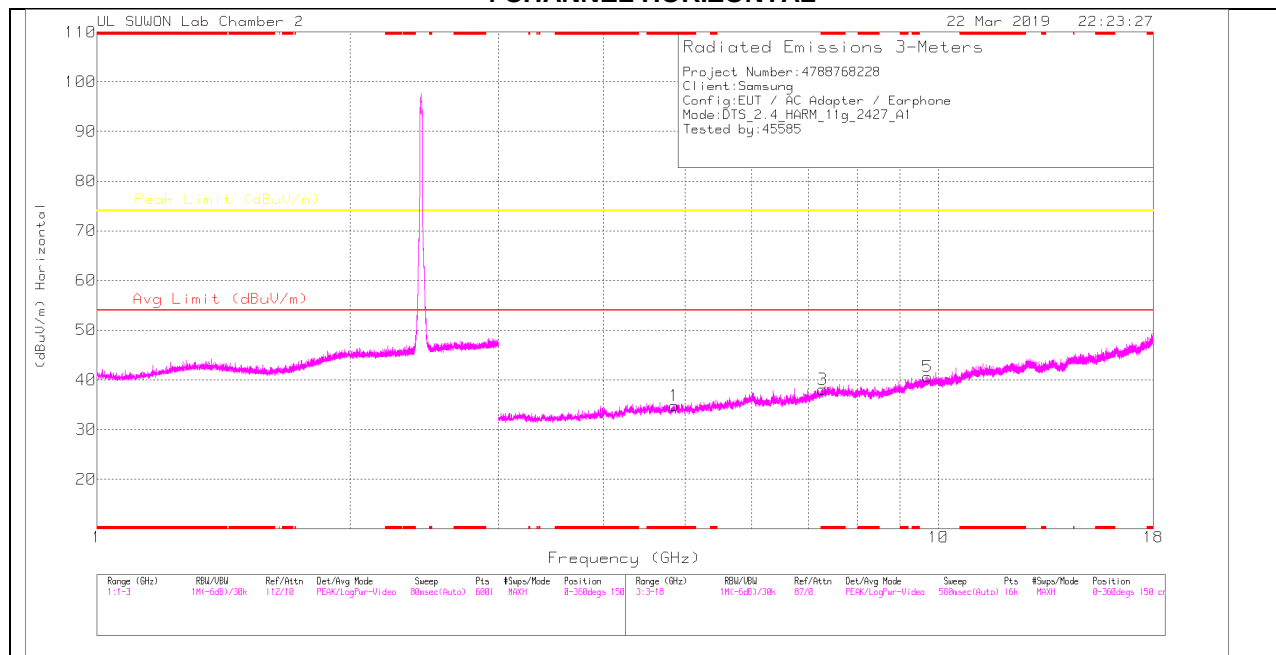
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.841	29.44	PK	34	-28.2	0	35.24	-	-	74	-38.76	0-360	250	H
3	* 7.273	27.83	PK	36.2	-25.4	0	38.63	-	-	74	-35.37	0-360	150	H
5	9.688	24.4	PK	37.1	-21.4	0	40.1	-	-	74	-33.9	0-360	250	H
2	* 4.835	28.47	PK	34	-28.1	0	34.37	-	-	74	-39.63	0-360	250	V
4	* 7.271	26.82	PK	36.2	-25.4	0	37.62	-	-	74	-36.38	0-360	150	V
6	9.689	24.11	PK	37.1	-21.3	0	39.91	-	-	74	-34.09	0-360	250	V

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

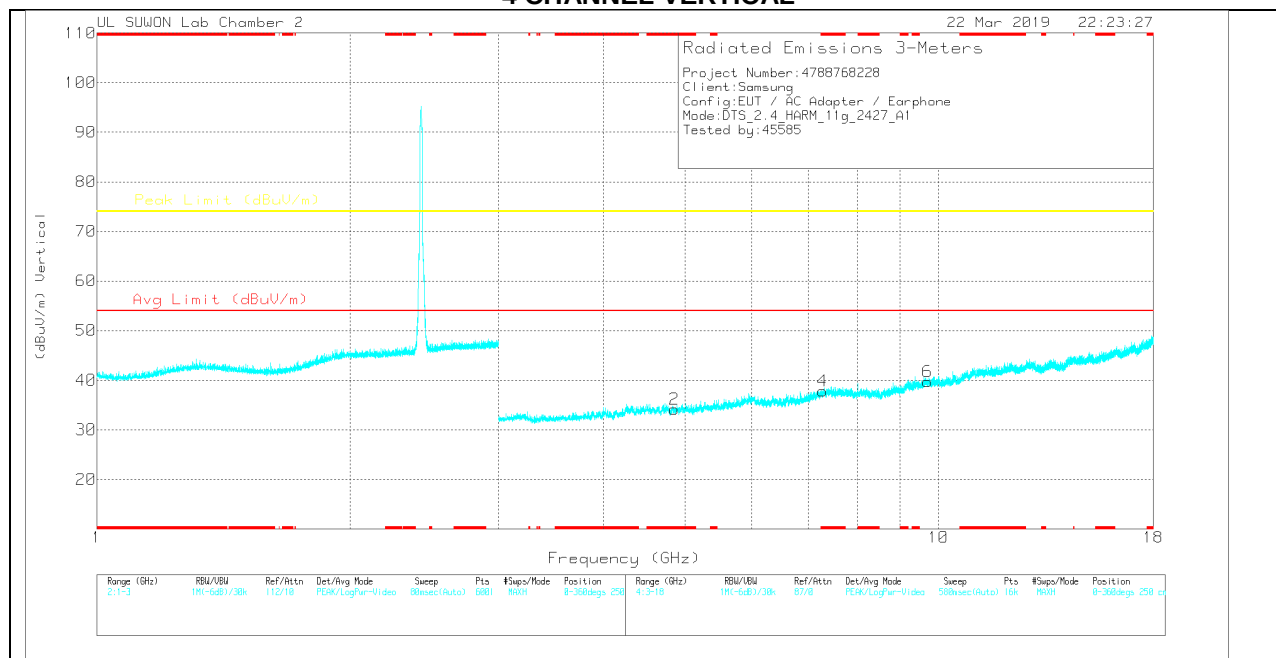
PK – Peak detector

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

4 CHANNEL HORIZONTAL



4 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.

4 CHANNEL DATA

Trace Markers

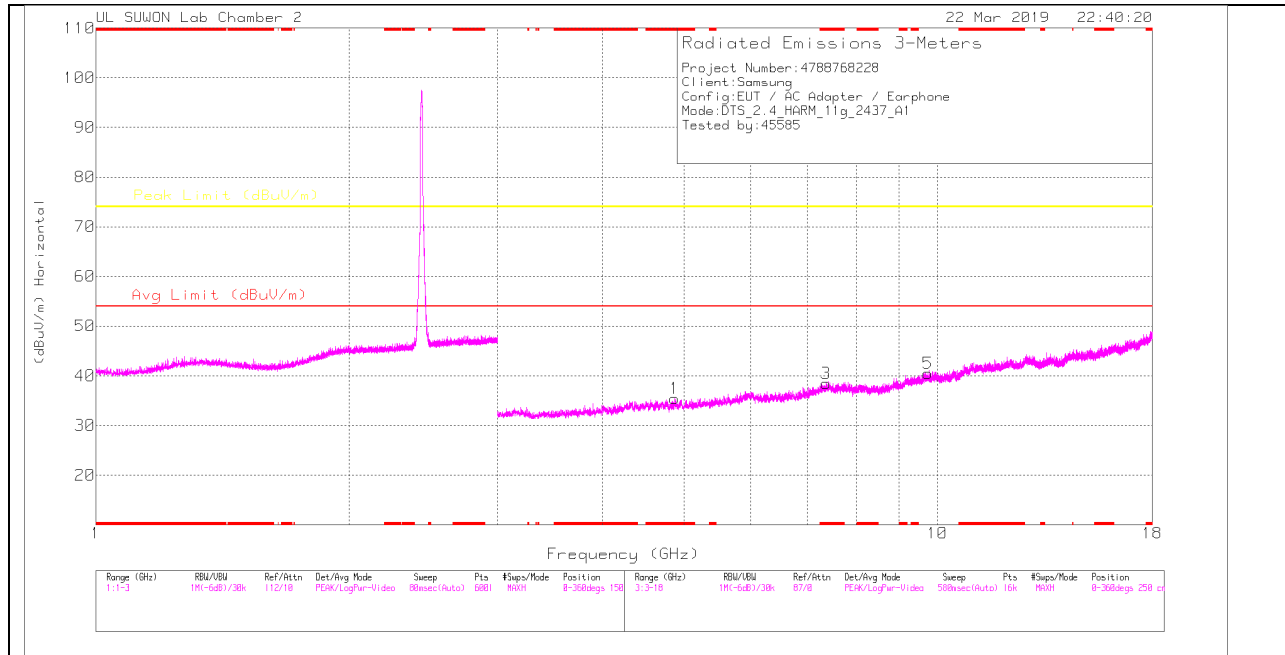
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.855	28.96	PK	34	-28.2	0	34.76	-	-	74	-39.24	0-360	250	H
3	* 7.288	27.24	PK	36.2	-25.3	0	38.14	-	-	74	-35.86	0-360	150	H
5	9.701	24.9	PK	37.1	-21.4	0	40.6	-	-	74	-33.4	0-360	150	H
2	* 4.854	28.26	PK	34	-28.1	0	34.16	-	-	74	-39.84	0-360	150	V
4	* 7.279	27	PK	36.2	-25.4	0	37.8	-	-	74	-36.2	0-360	150	V
6	9.701	24.01	PK	37.1	-21.4	0	39.71	-	-	74	-34.29	0-360	150	V

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

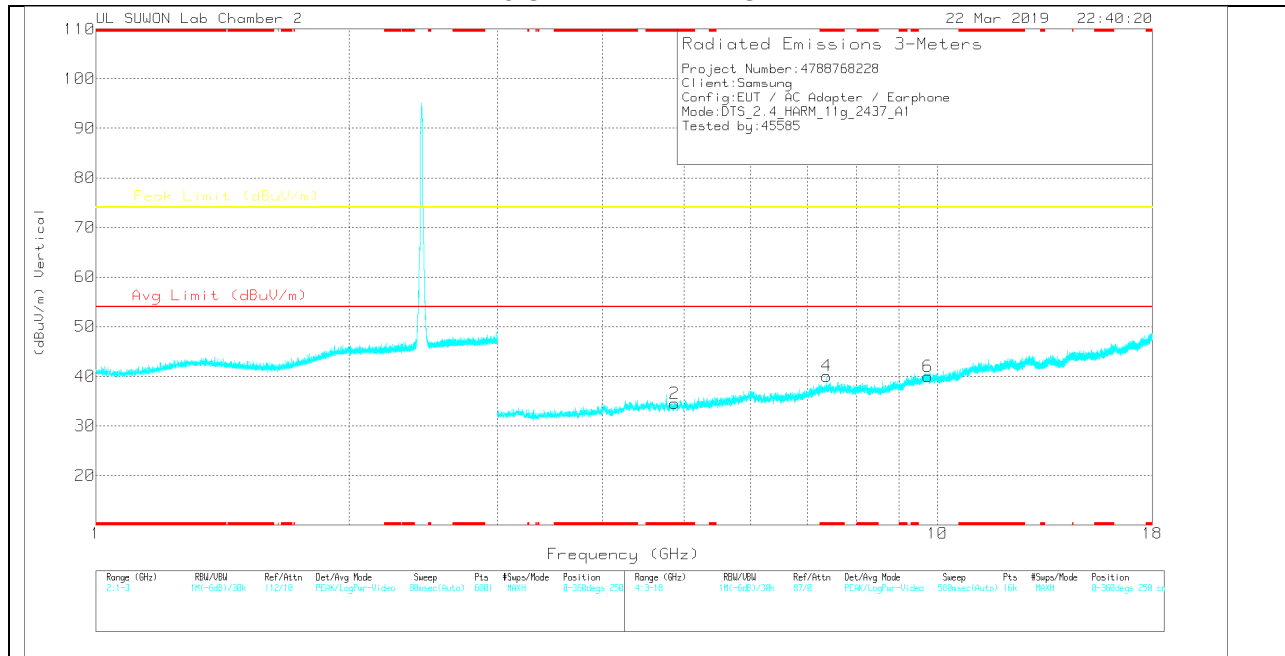
PK – Peak detector

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_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 4.871	29.49	PK	34	-28	0	35.49	-	-	74	-38.51	0-360	250	H
3	* 7.378	26.69	PK	36.2	-24.4	0	38.49	-	-	74	-35.51	0-360	250	H
5	9.74	24.68	PK	37.2	-21.4	0	40.48	-	-	74	-33.52	0-360	150	H
2	* 4.873	28.55	PK	34	-28	0	34.55	-	-	74	-39.45	0-360	250	V
4	* 7.385	28.15	PK	36.2	-24.3	0	40.05	-	-	74	-33.95	0-360	150	V
6	9.743	24.22	PK	37.2	-21.4	0	40.02	-	-	74	-33.98	0-360	150	V

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

PK – Peak detector

Radiated Emissions

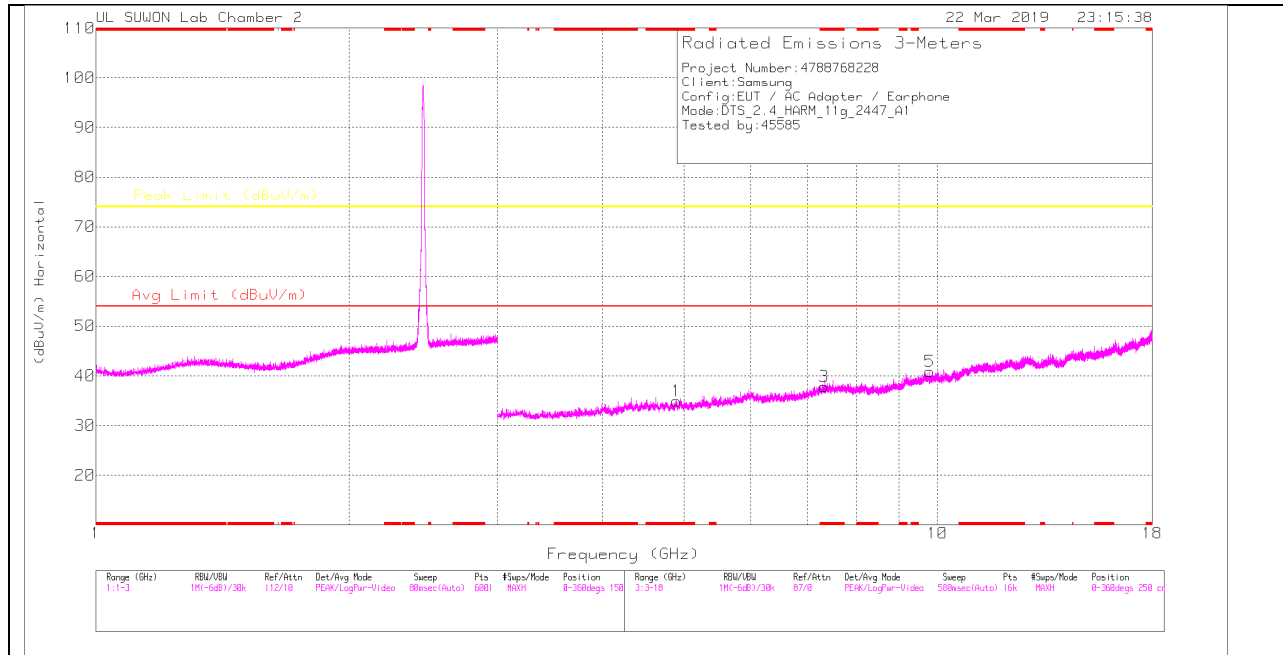
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
* 7.379	33.12	PK2	36.2	-24.3	0	45.02	-	-	74	-28.98	287	165	H
* 7.371	23.14	MAv1	36.2	-24.4	0	34.94	54	-19.06	-	-	287	165	H
* 7.379	35.22	PK2	36.2	-24.3	0	47.12	-	-	74	-26.88	81	186	V
* 7.377	23.11	MAv1	36.2	-24.4	0	34.91	54	-19.09	-	-	81	186	V

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

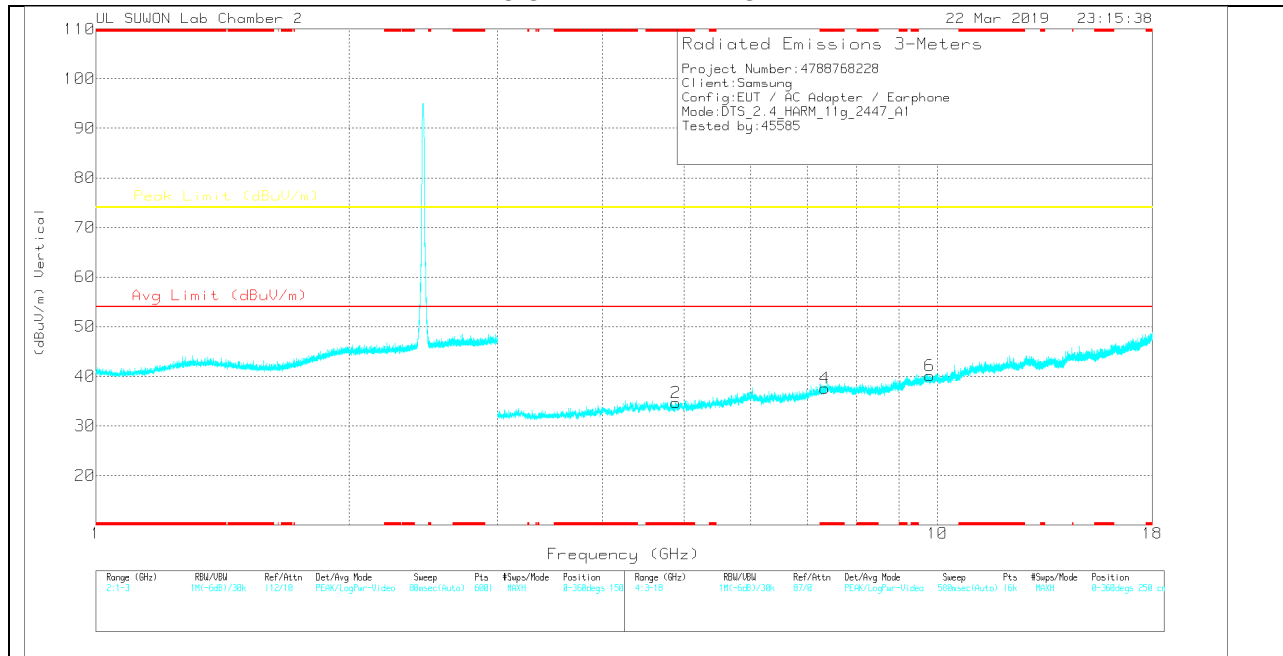
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

8 CHANNEL HORIZONTAL



8 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.

8 CHANNEL DATA

Trace Markers

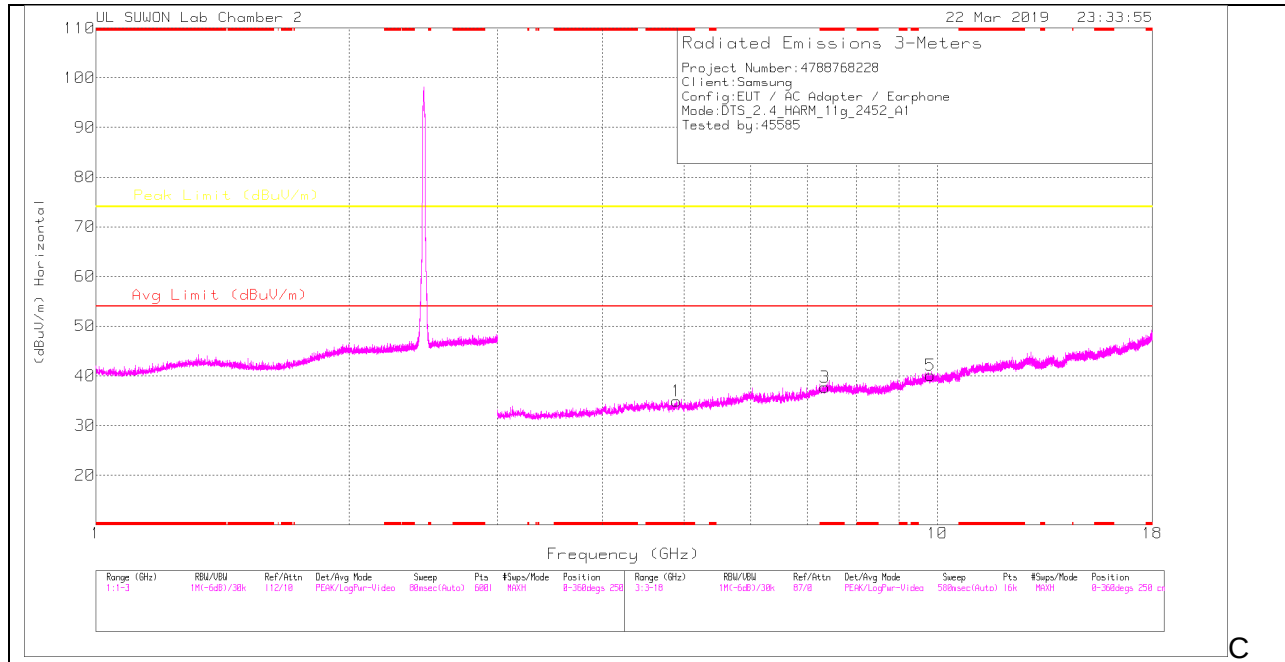
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.896	28.58	PK	34	-27.6	0	34.98	-	-	74	-39.02	0-360	150	H
3	* 7.336	26.48	PK	36.2	-24.8	0	37.88	-	-	74	-36.12	0-360	250	H
5	9.793	25.52	PK	37.3	-21.9	0	40.92	-	-	74	-33.08	0-360	250	H
2	* 4.889	28.33	PK	34	-27.7	0	34.63	-	-	74	-39.37	0-360	150	V
4	* 7.342	26.13	PK	36.2	-24.7	0	37.63	-	-	74	-36.37	0-360	150	V
6	9.788	24.66	PK	37.3	-21.8	0	40.16	-	-	74	-33.84	0-360	150	V

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

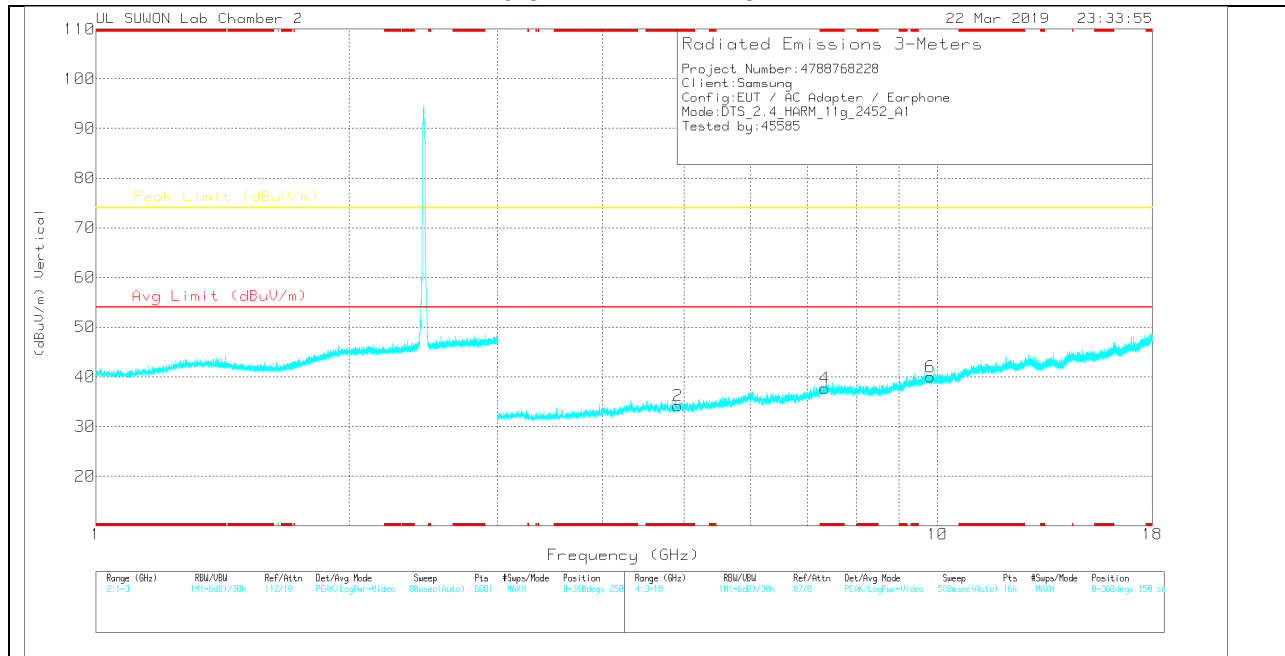
PK – Peak detector

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

9 CHANNEL HORIZONTAL



9 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.