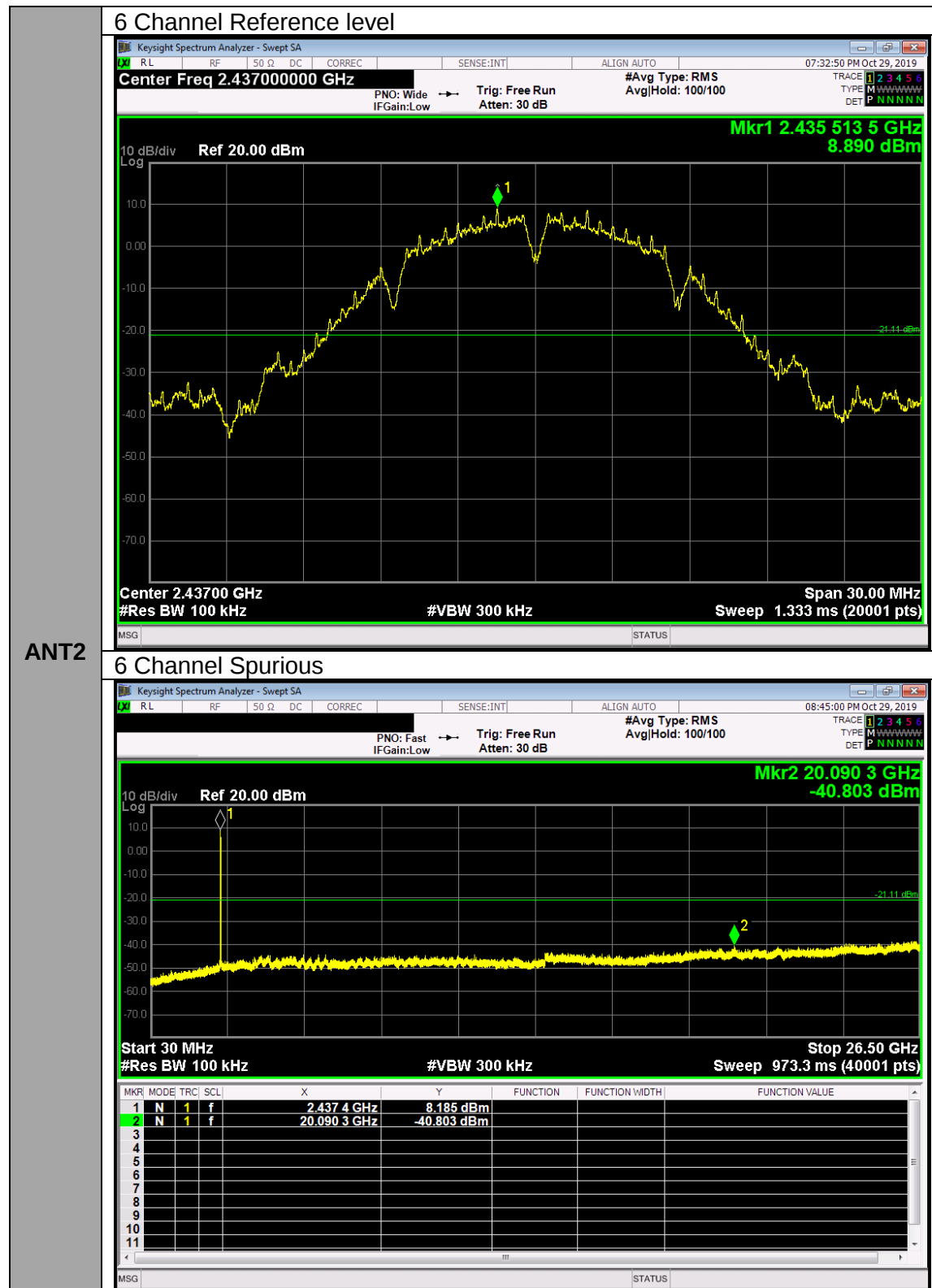
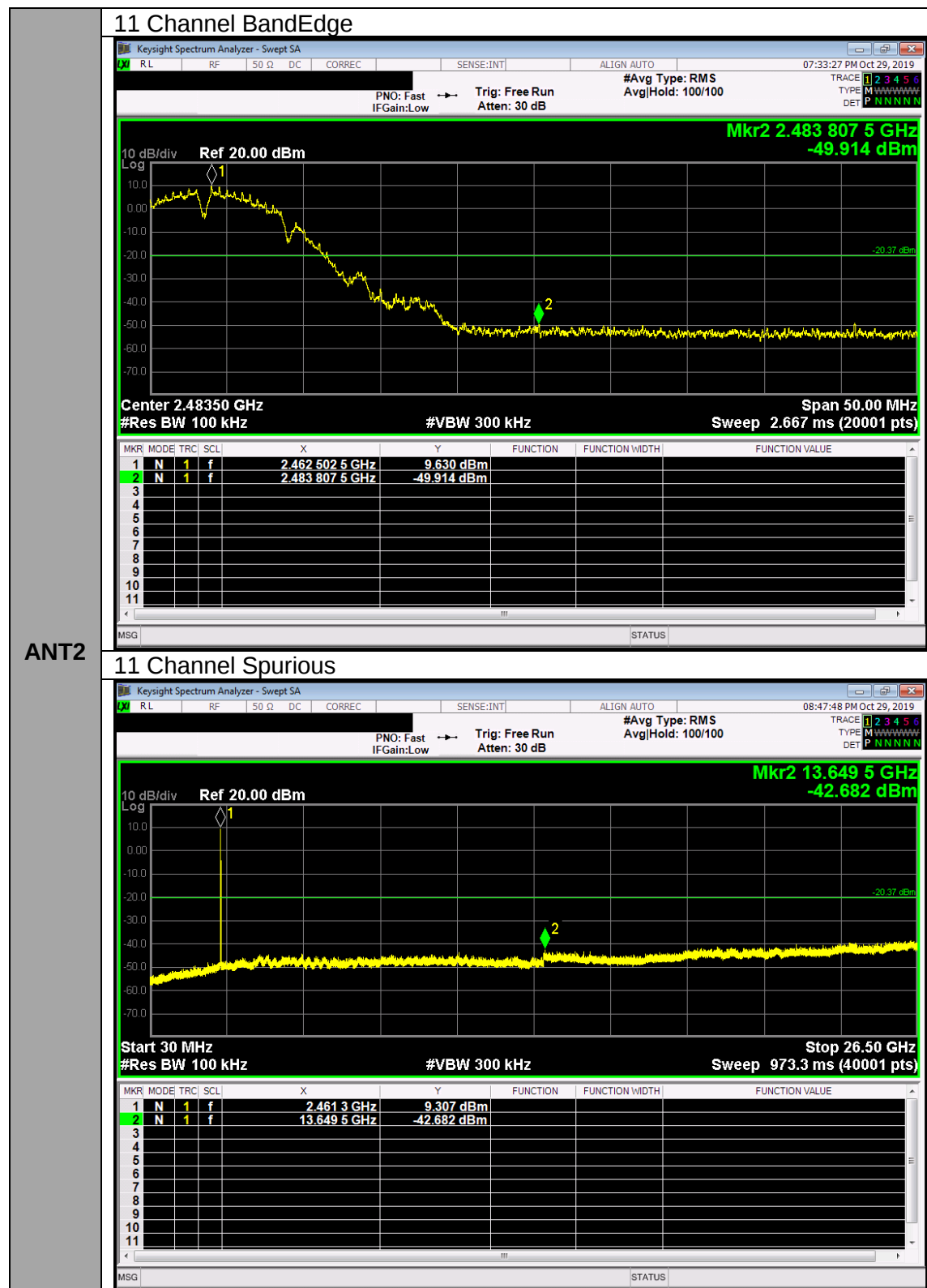




ANT2

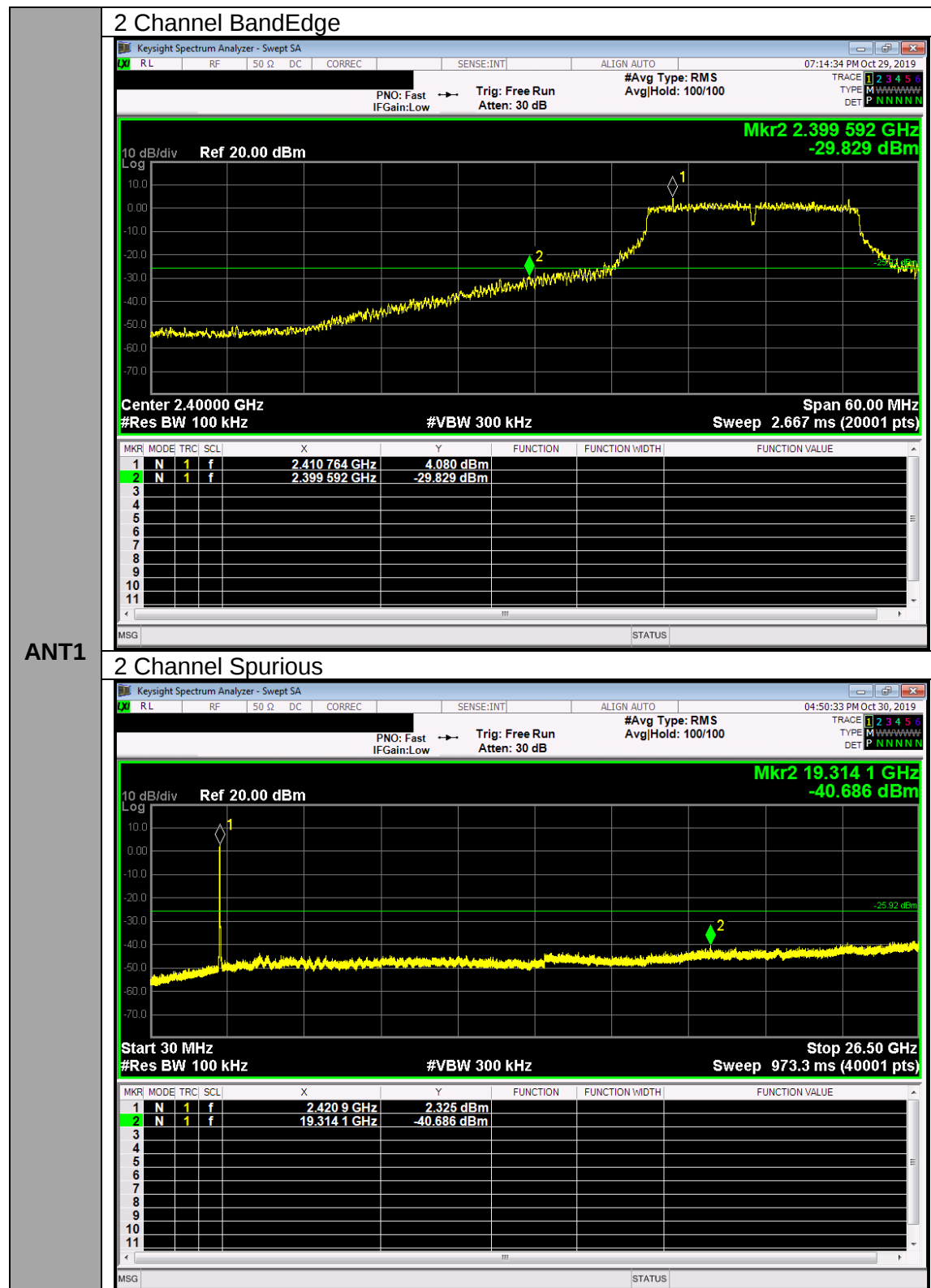


ANT2

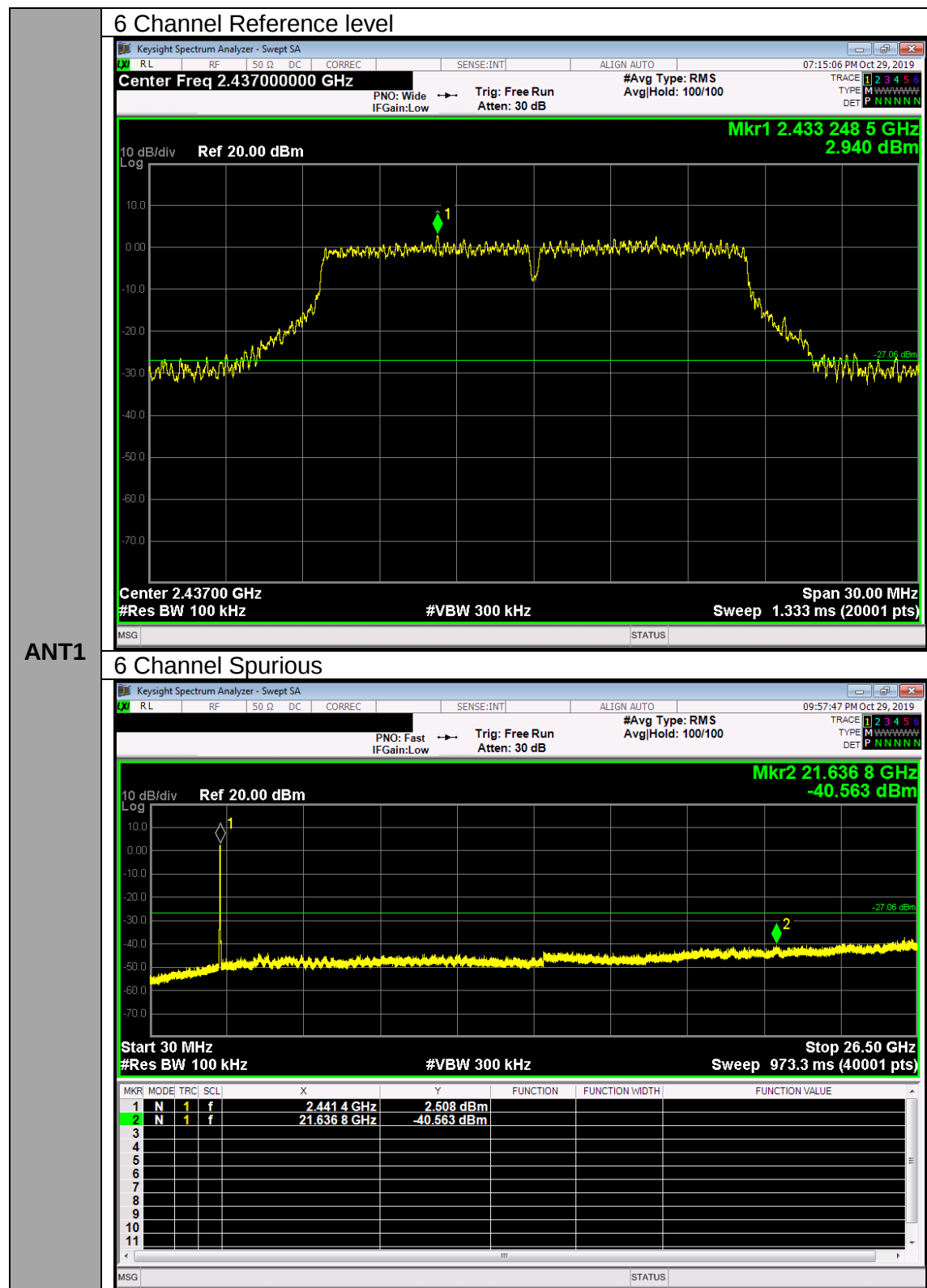


ANT2

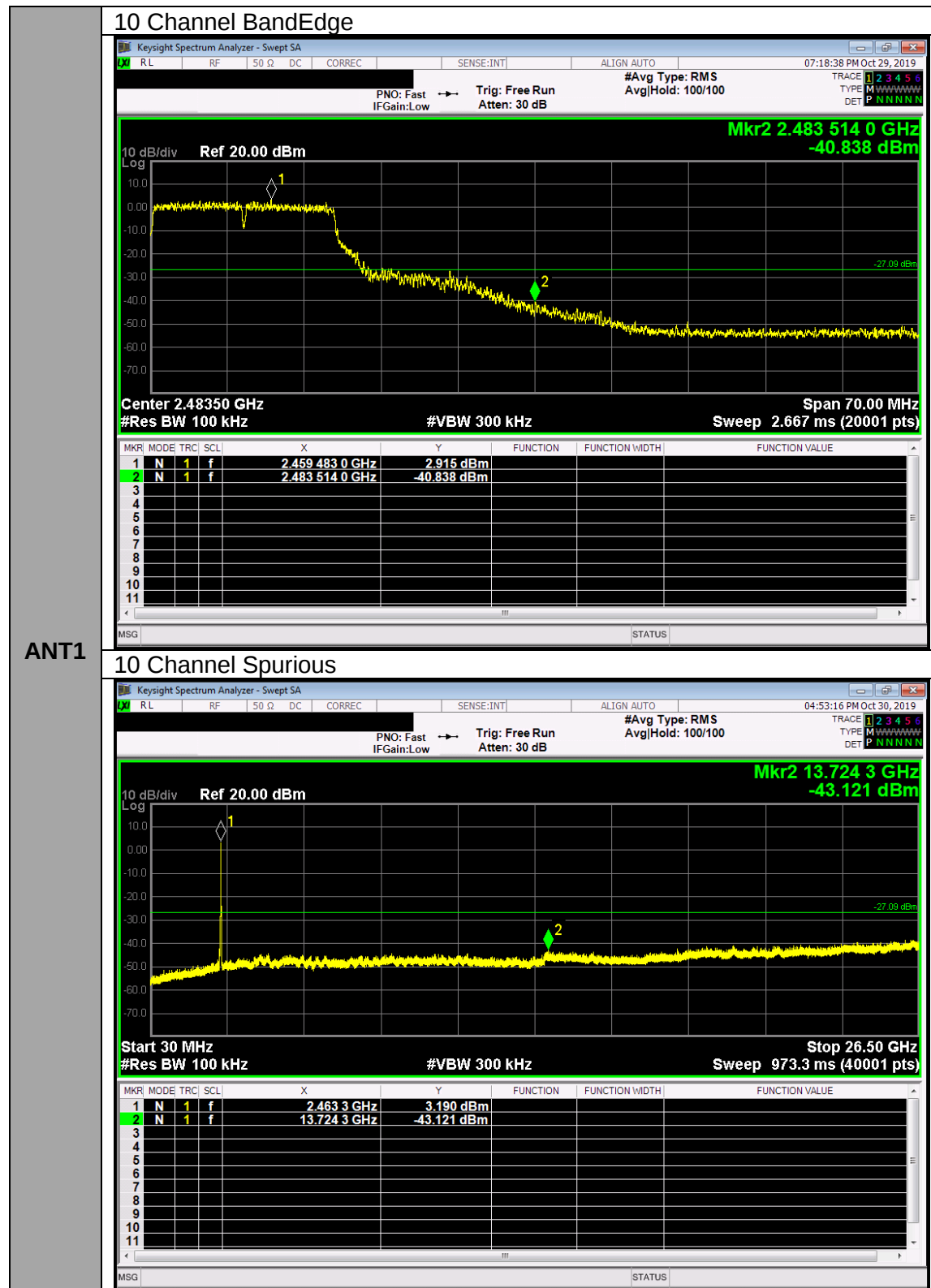
10.4.2. 802.11g MODE IN THE 2.4 GHz BAND



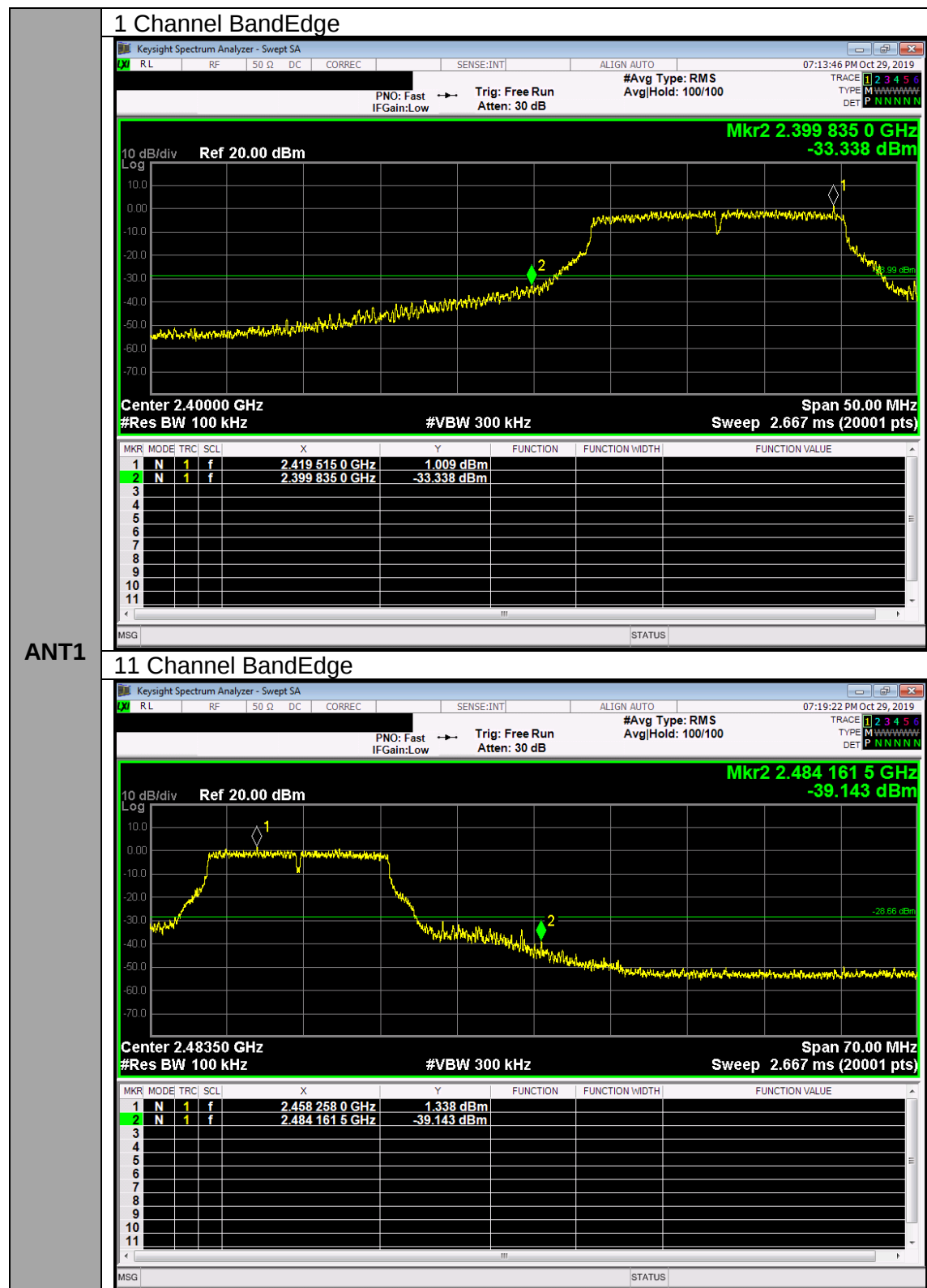
ANT1



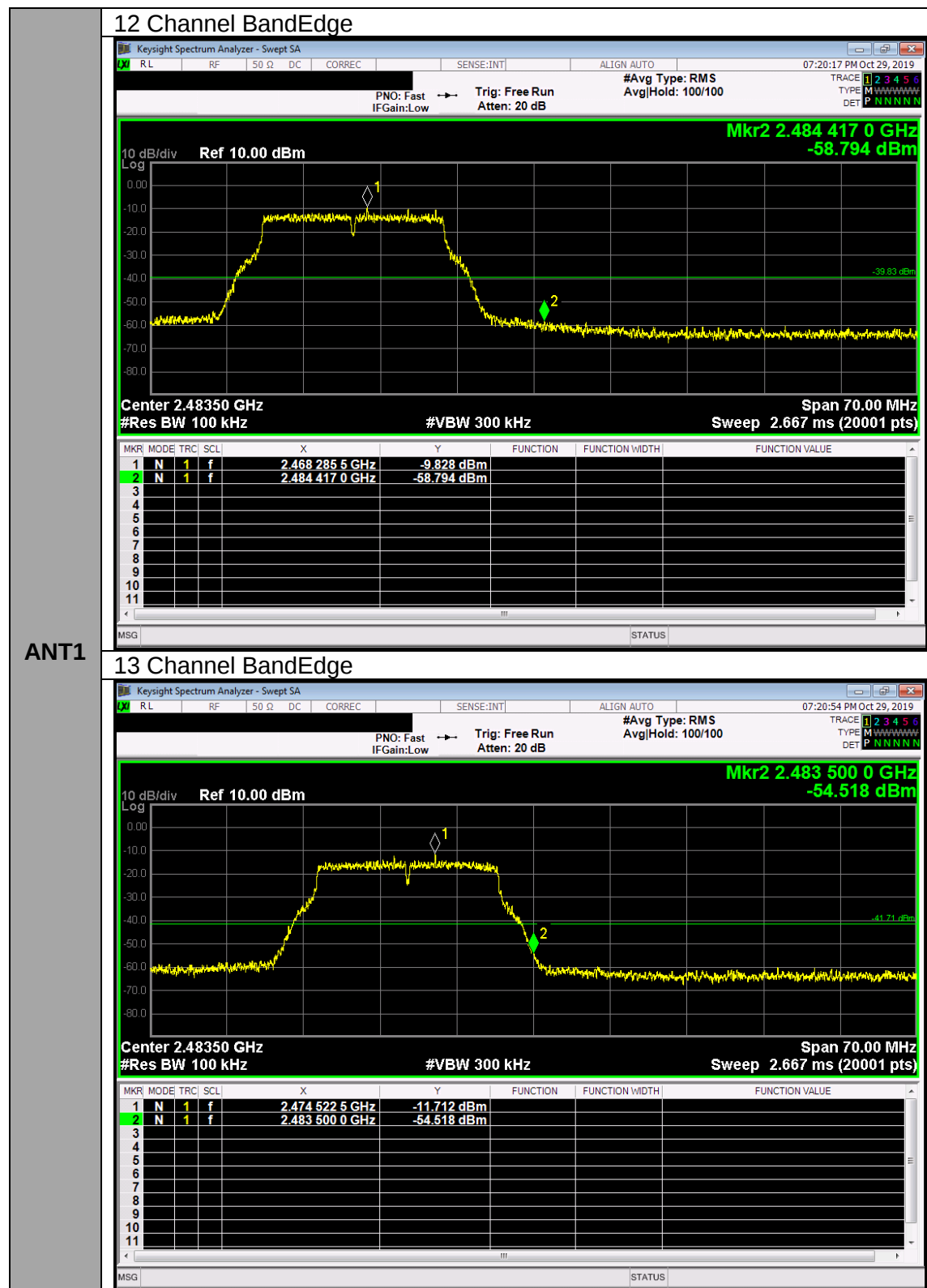
ANT1



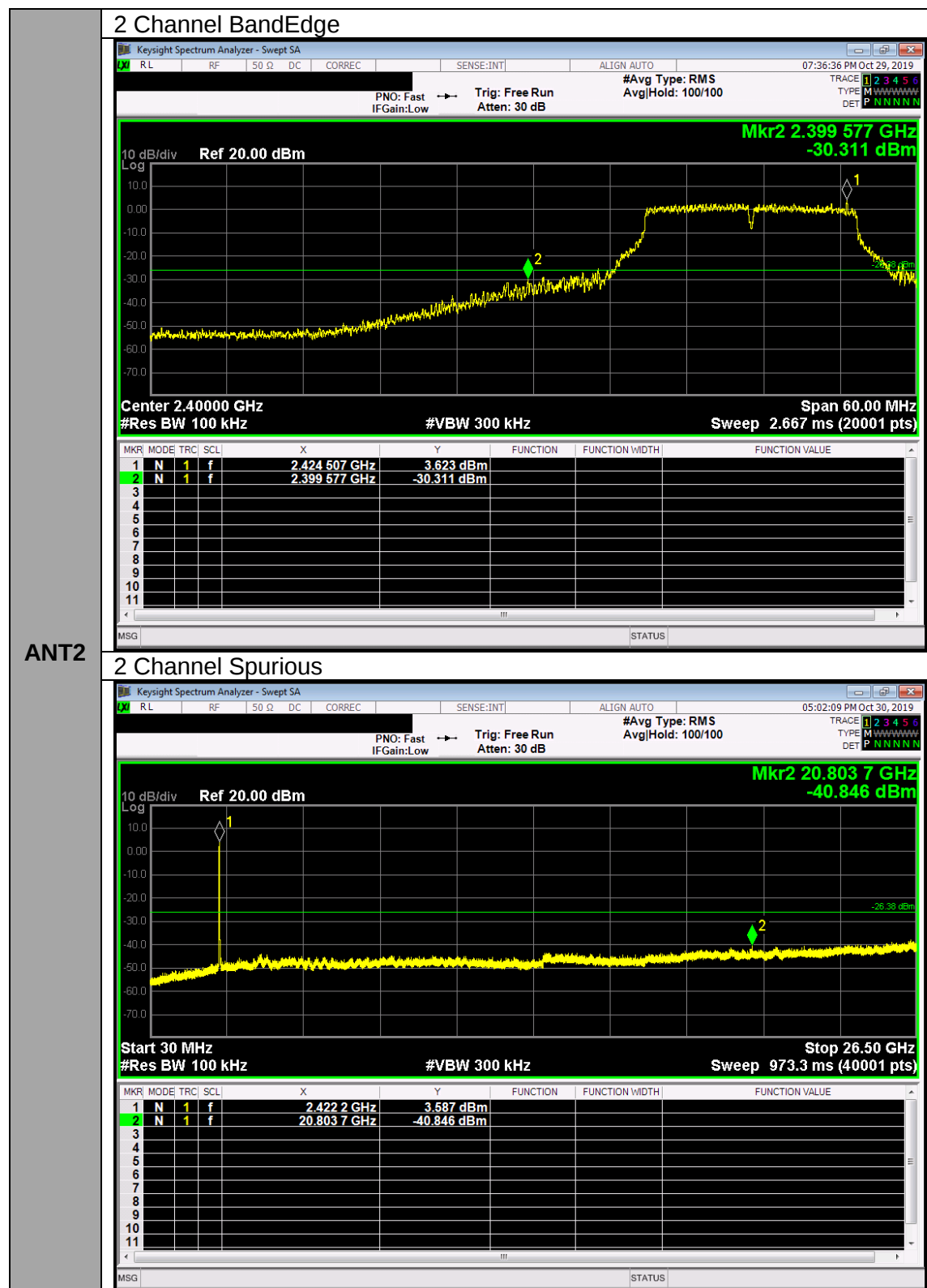
ANT1



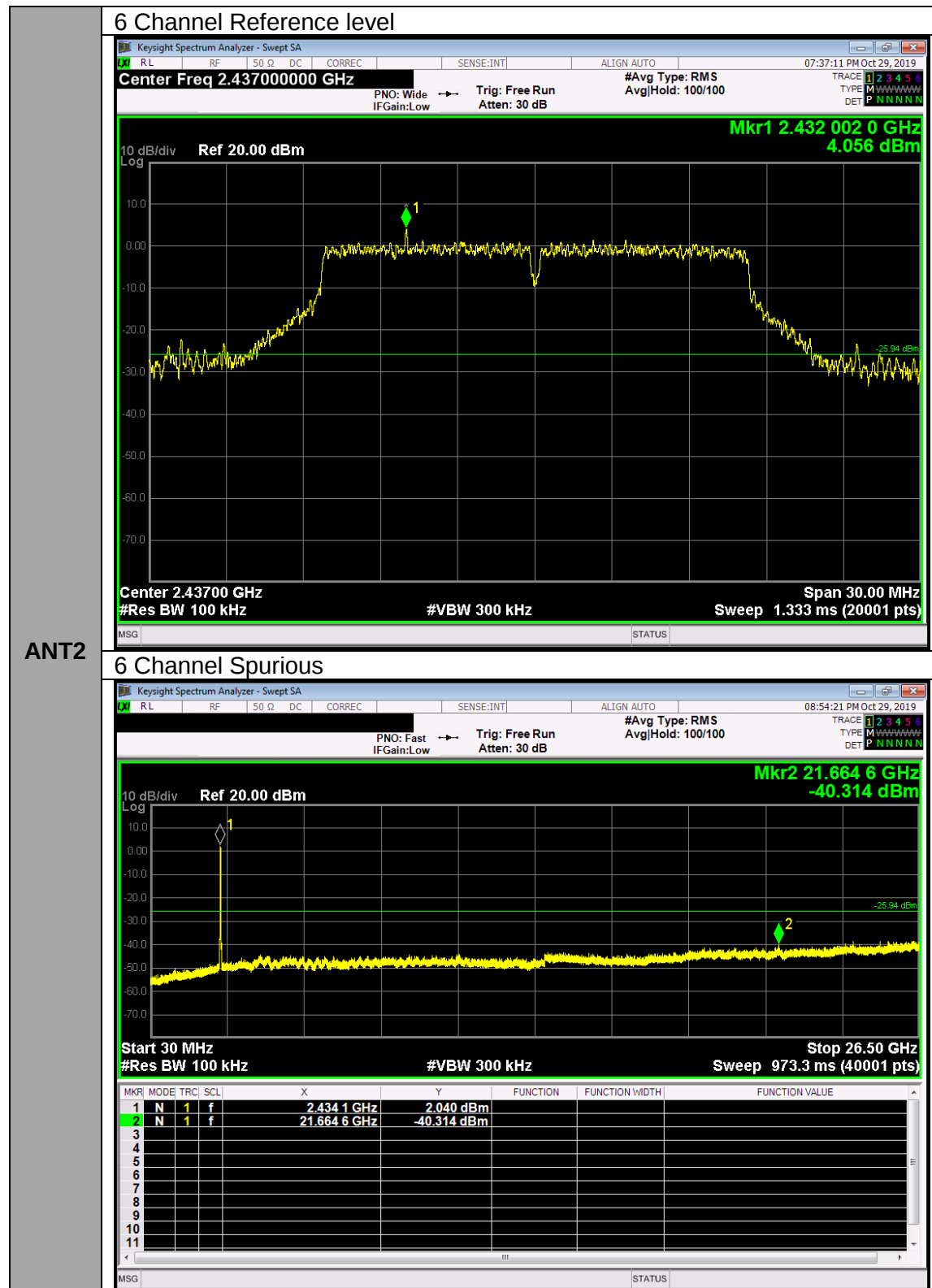
ANT1



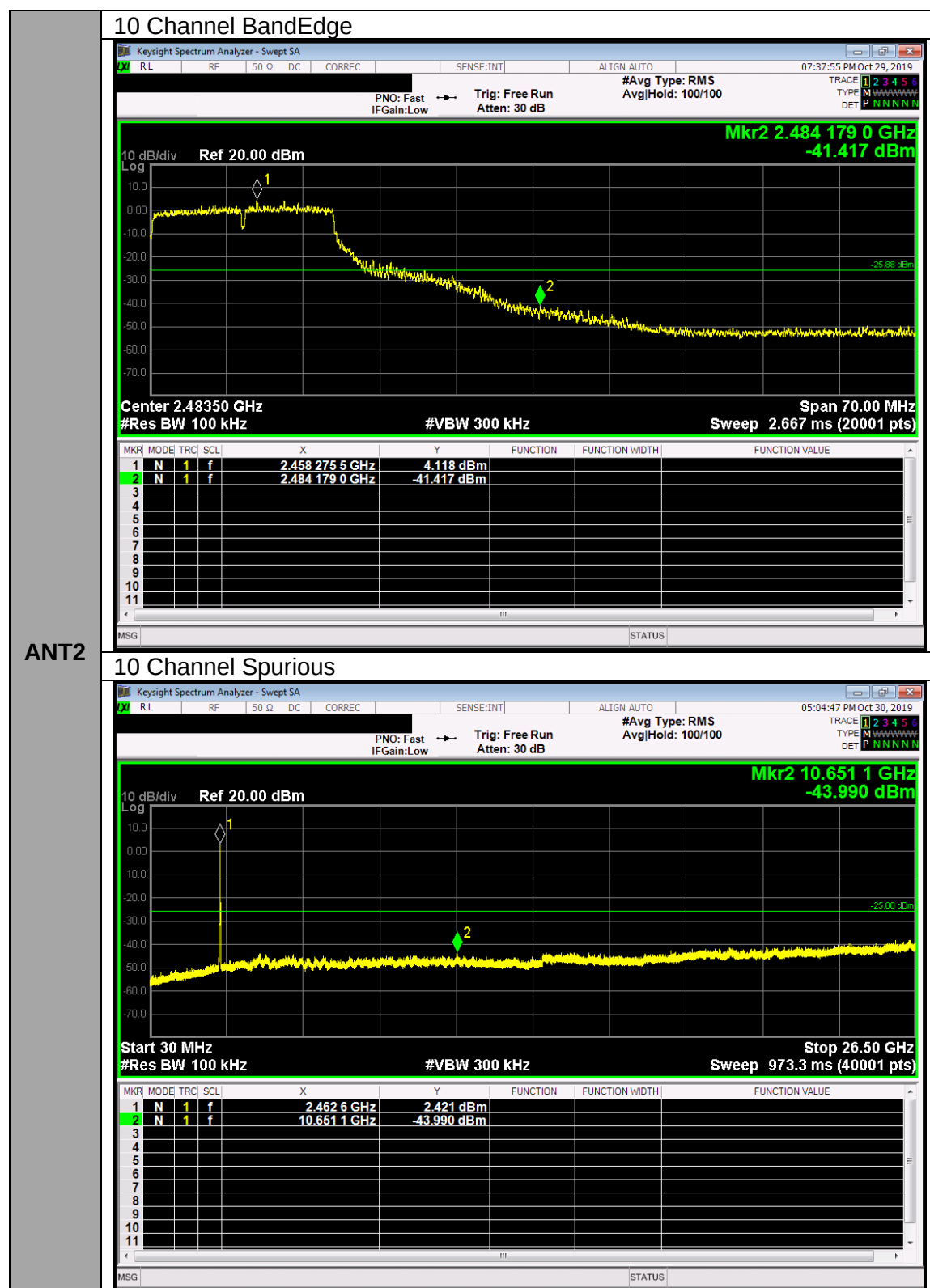
ANT1



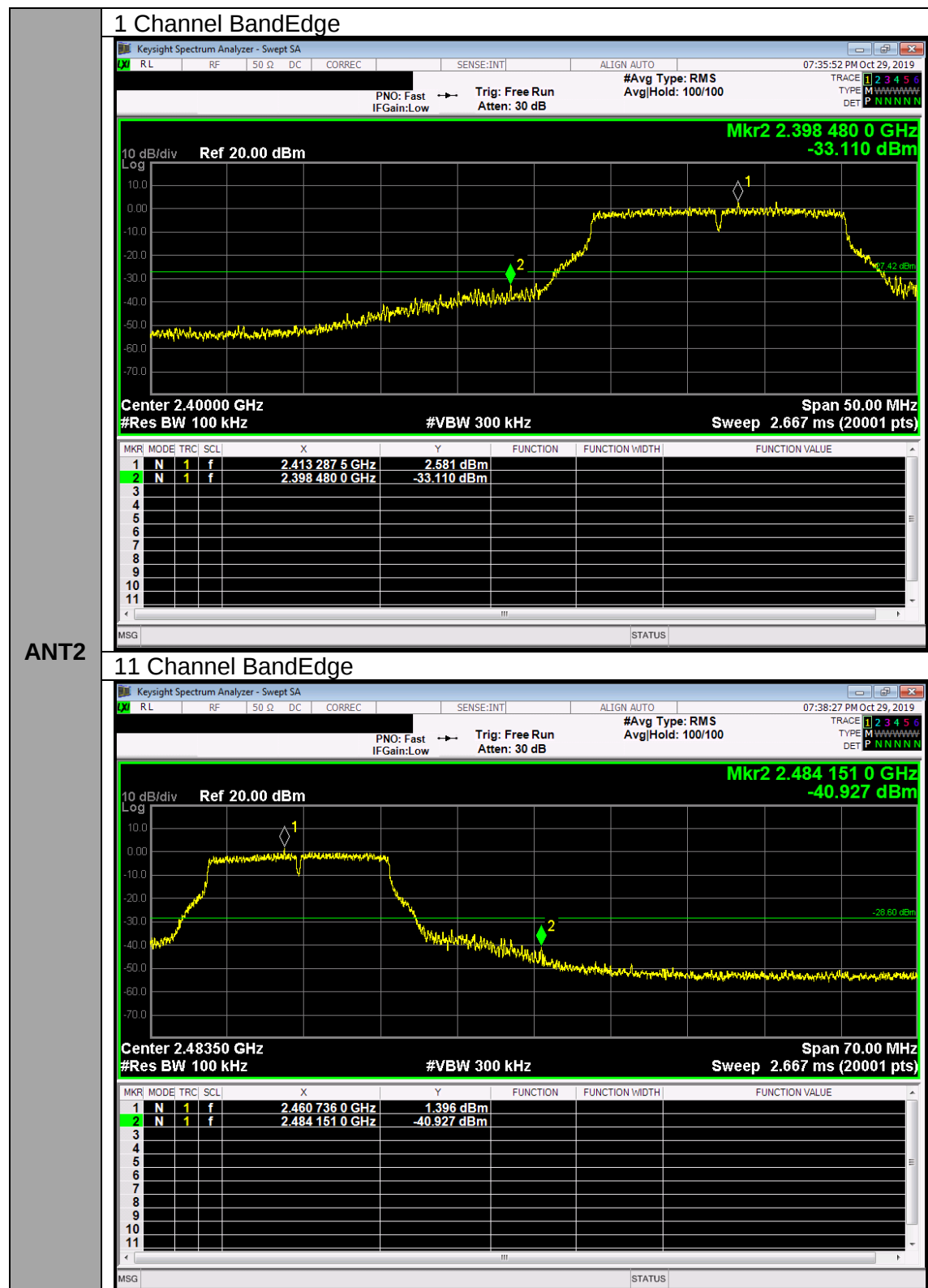
ANT2



ANT2



ANT2

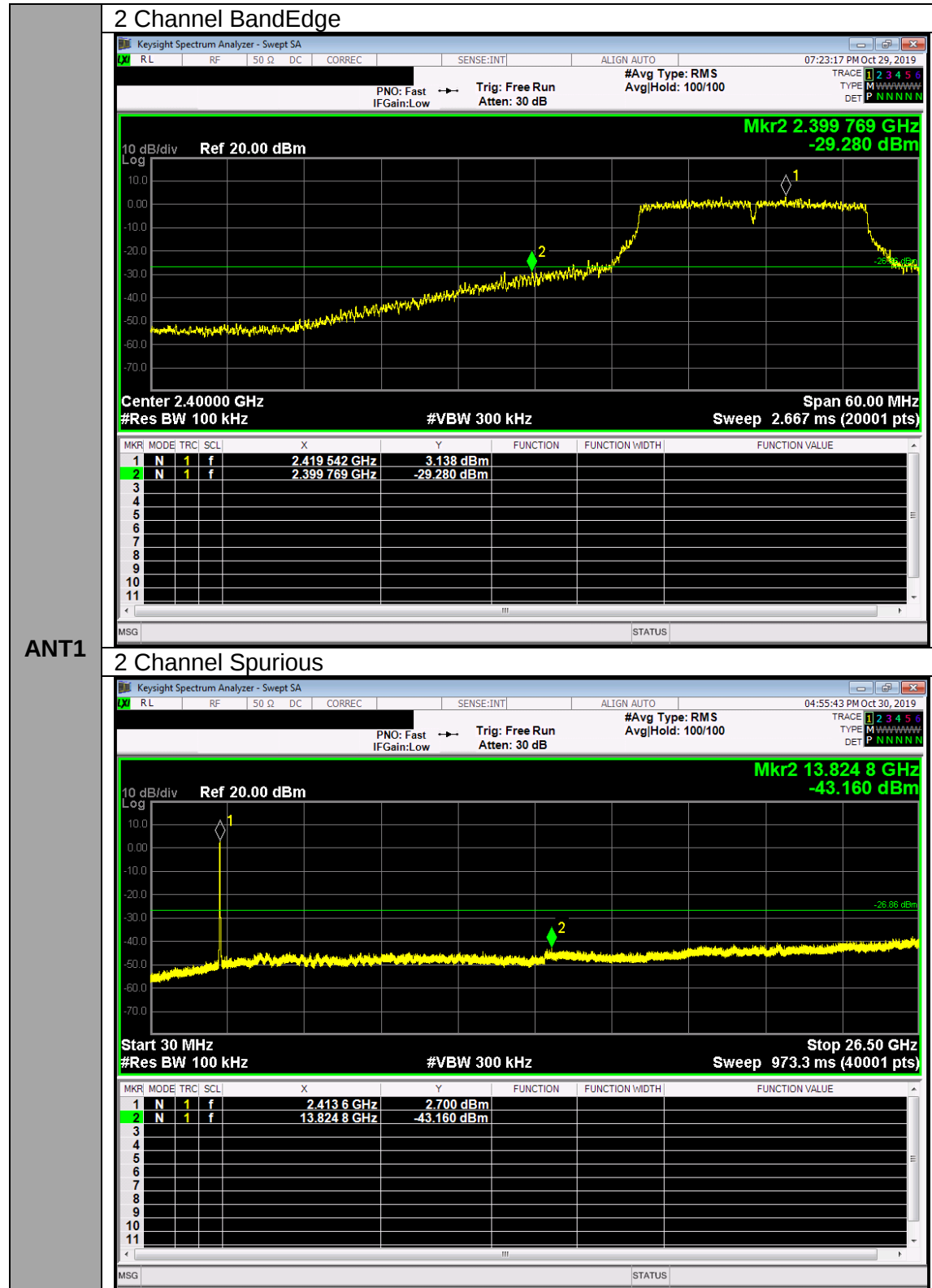


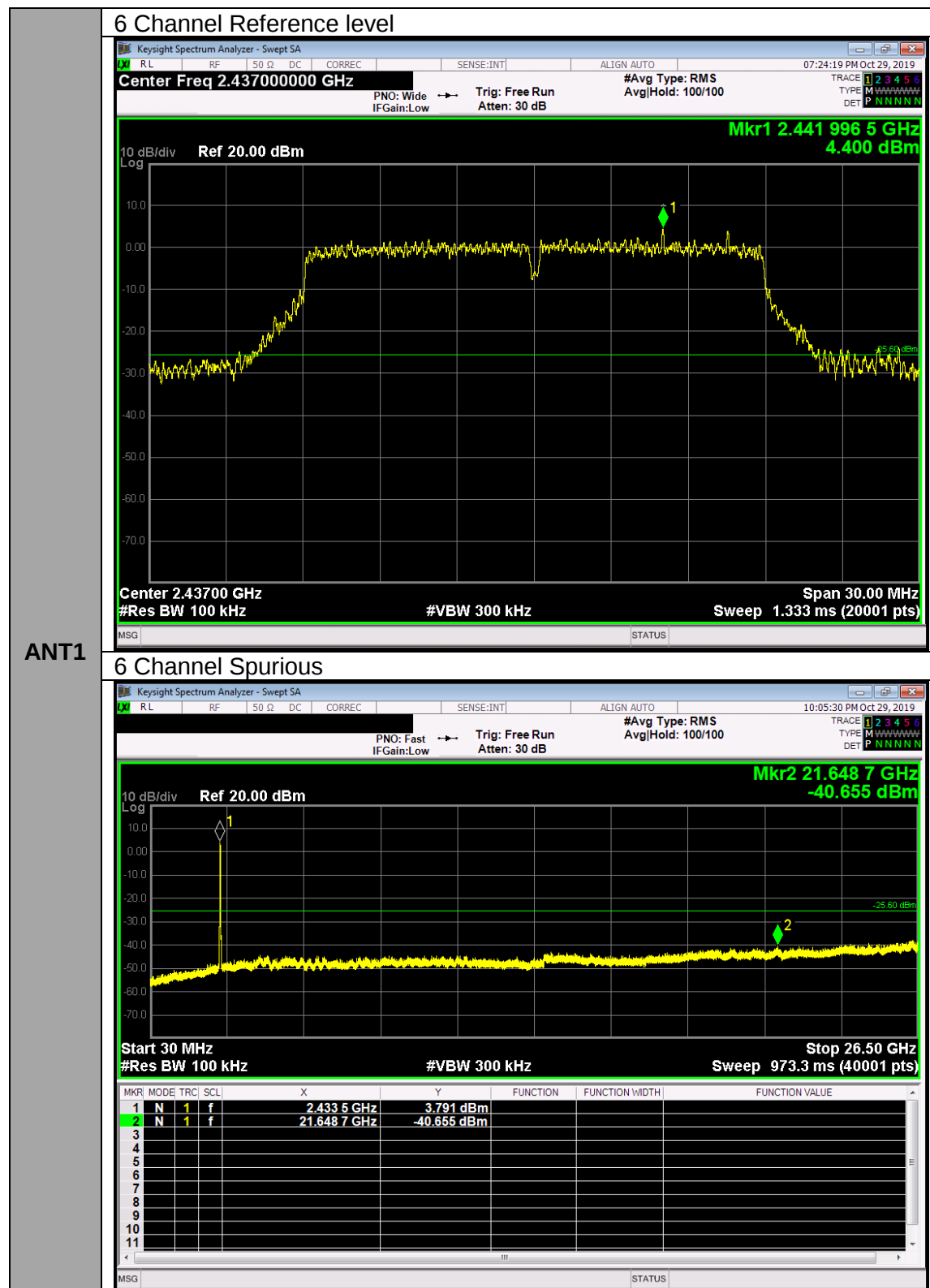
ANT2



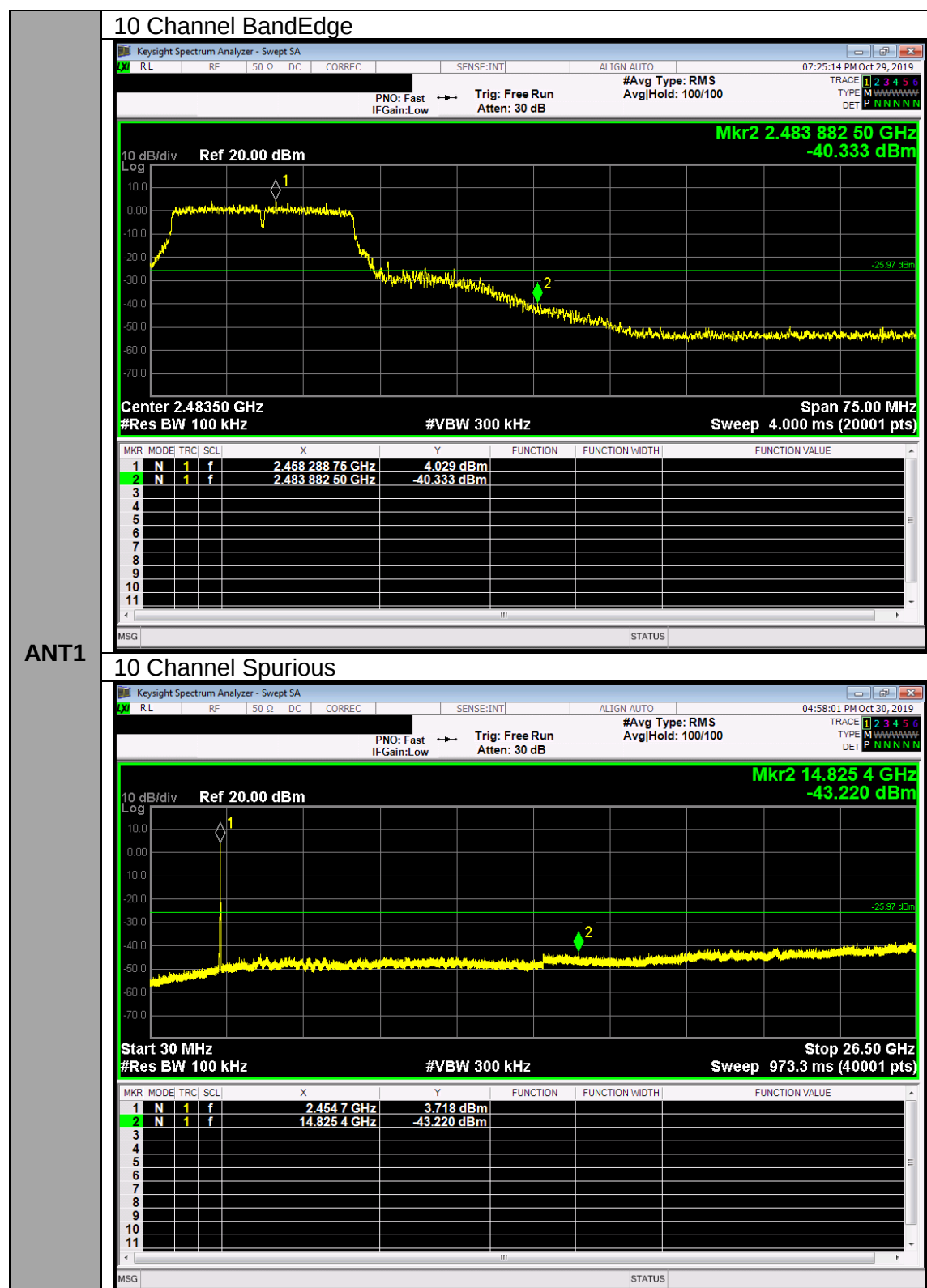
ANT2

10.4.1. 802.11n HT20 MODE IN THE 2.4 GHz BAND

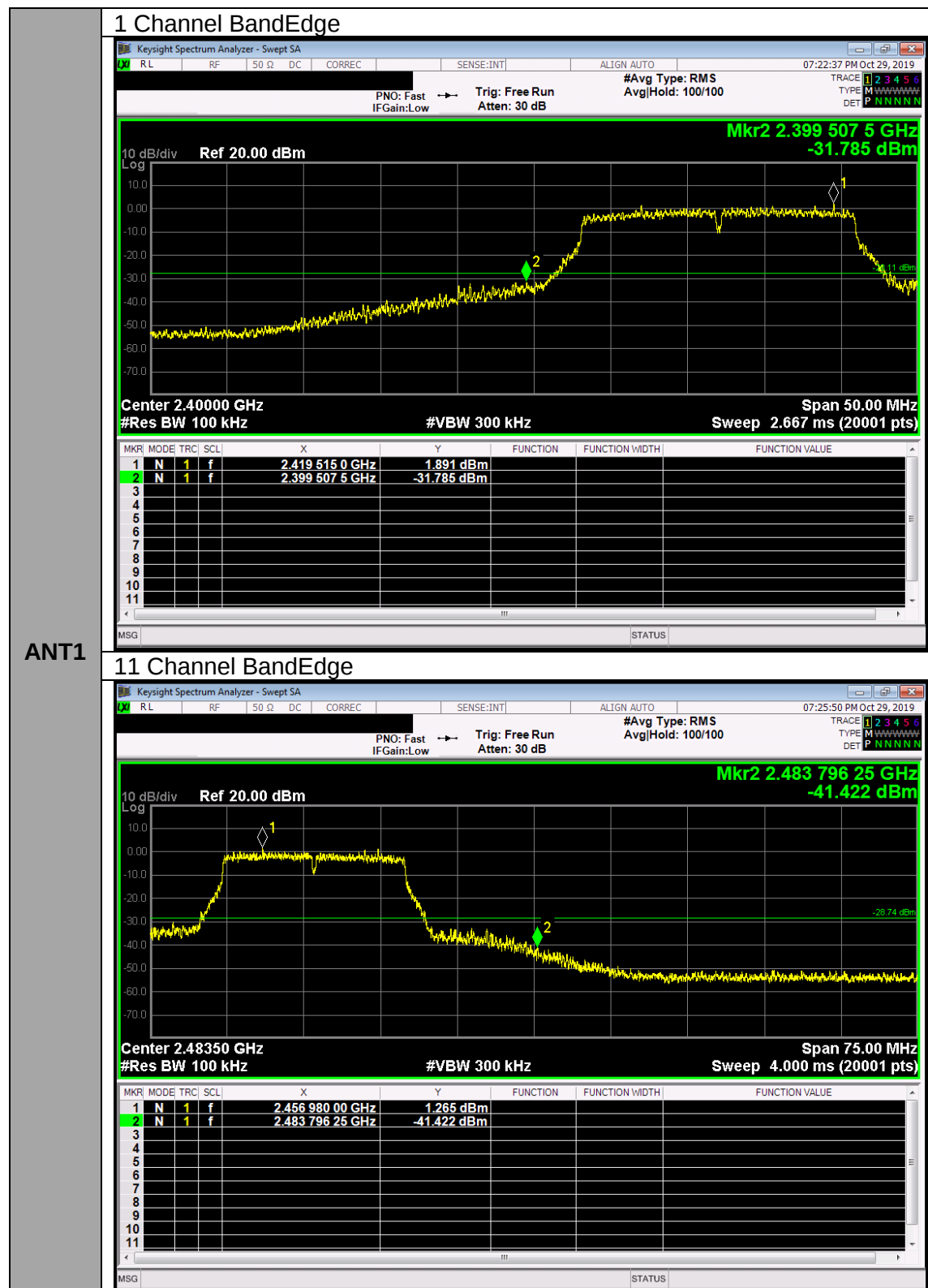




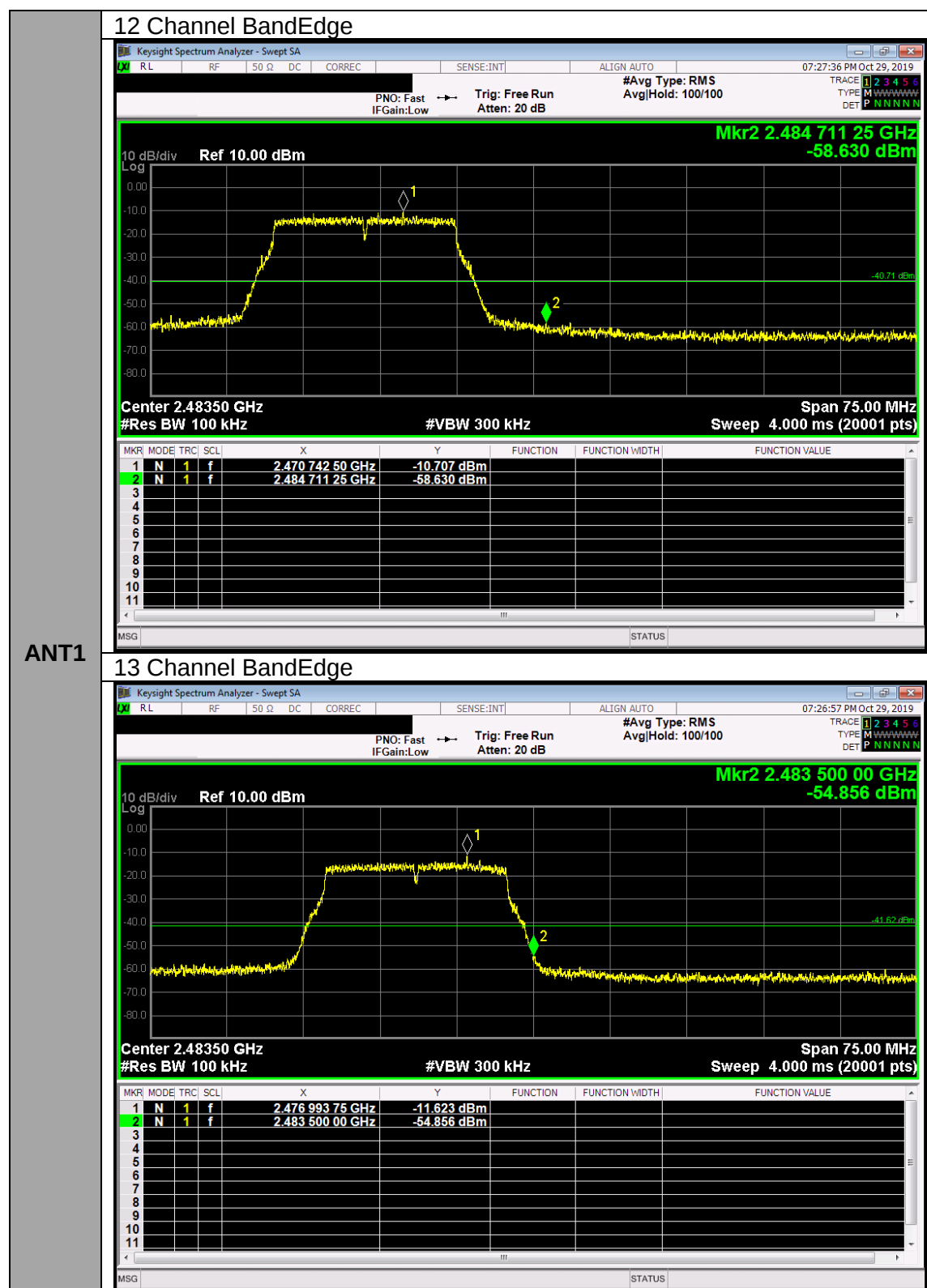
ANT1



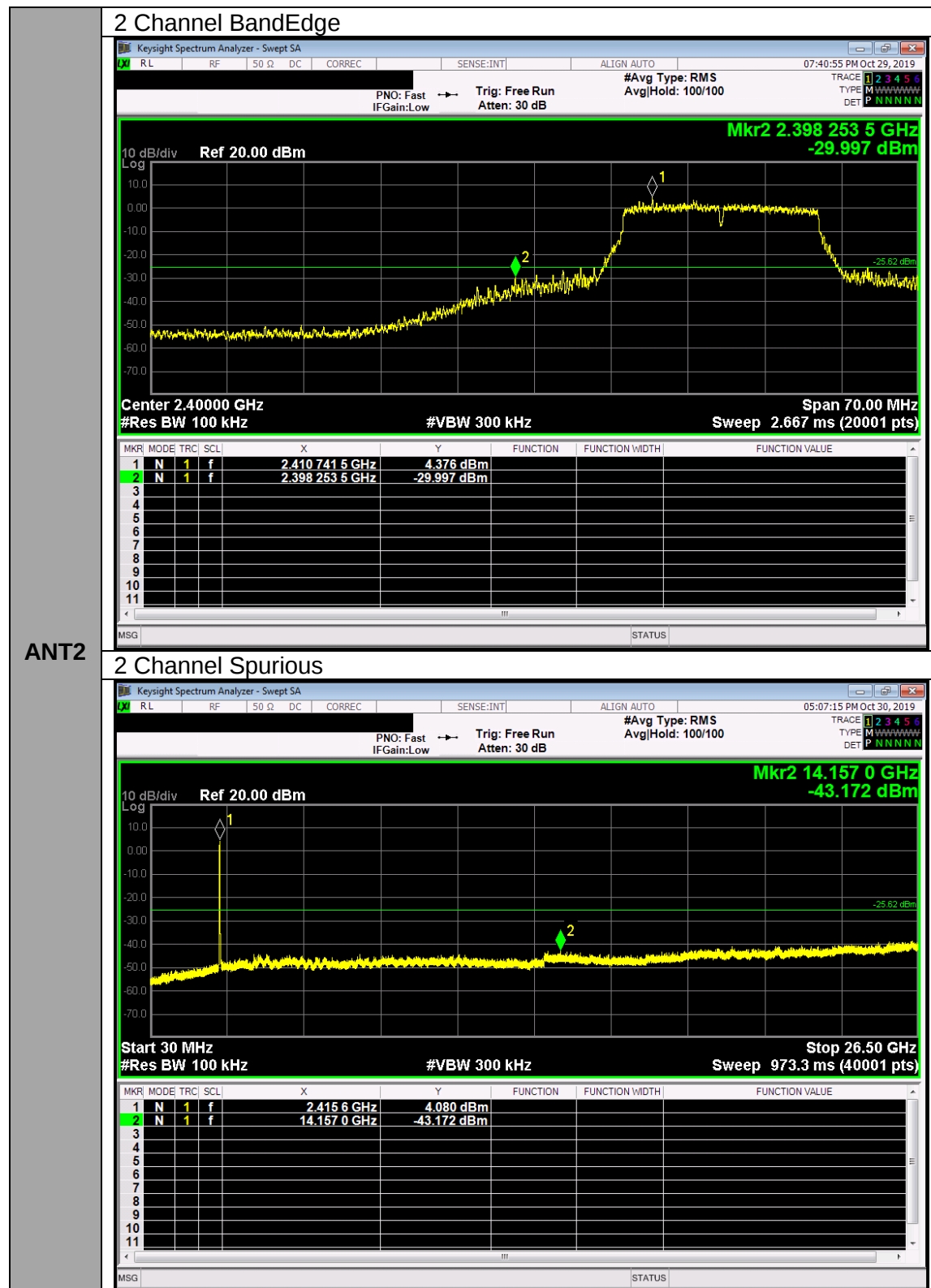
ANT1



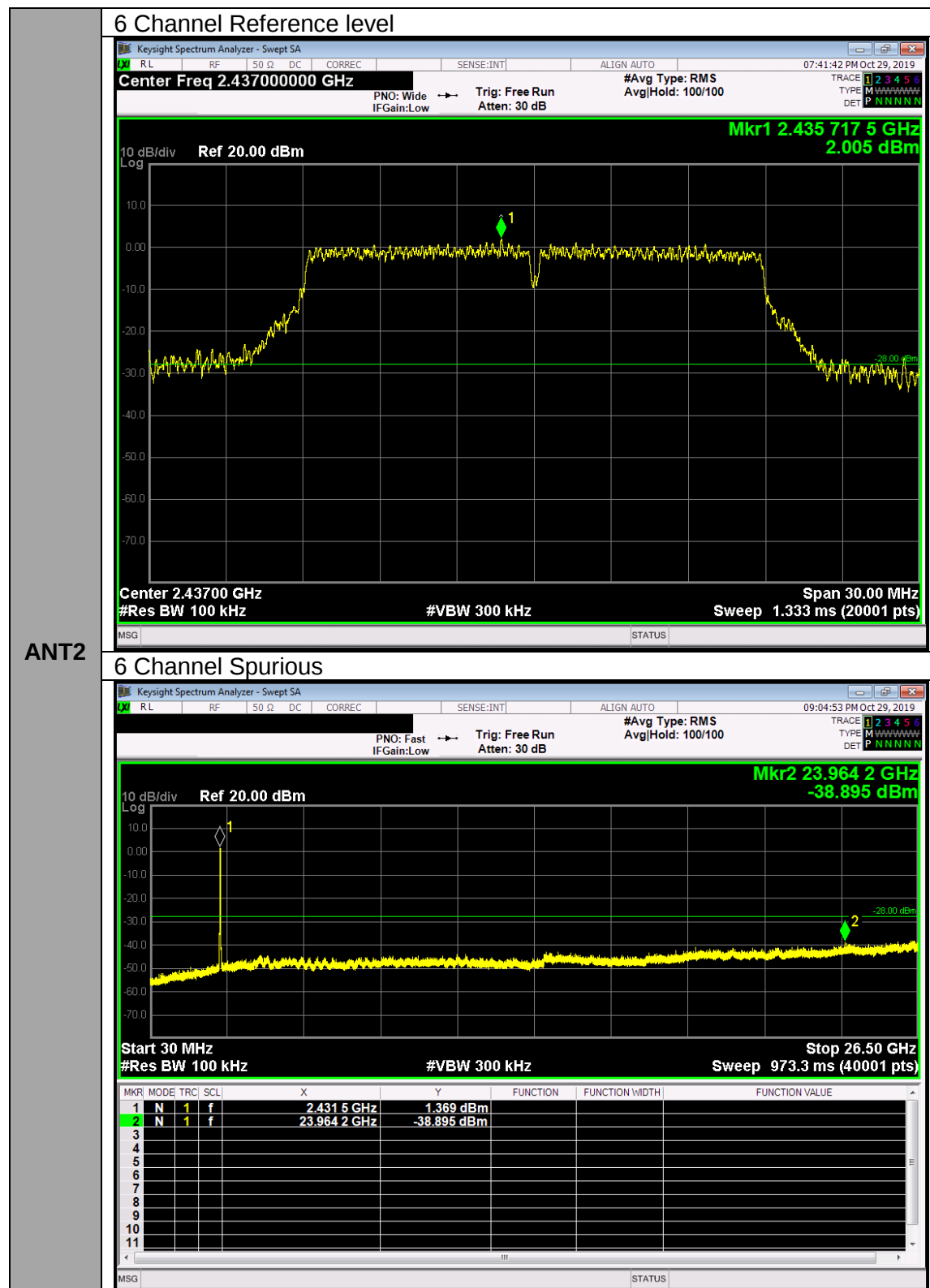
ANT1



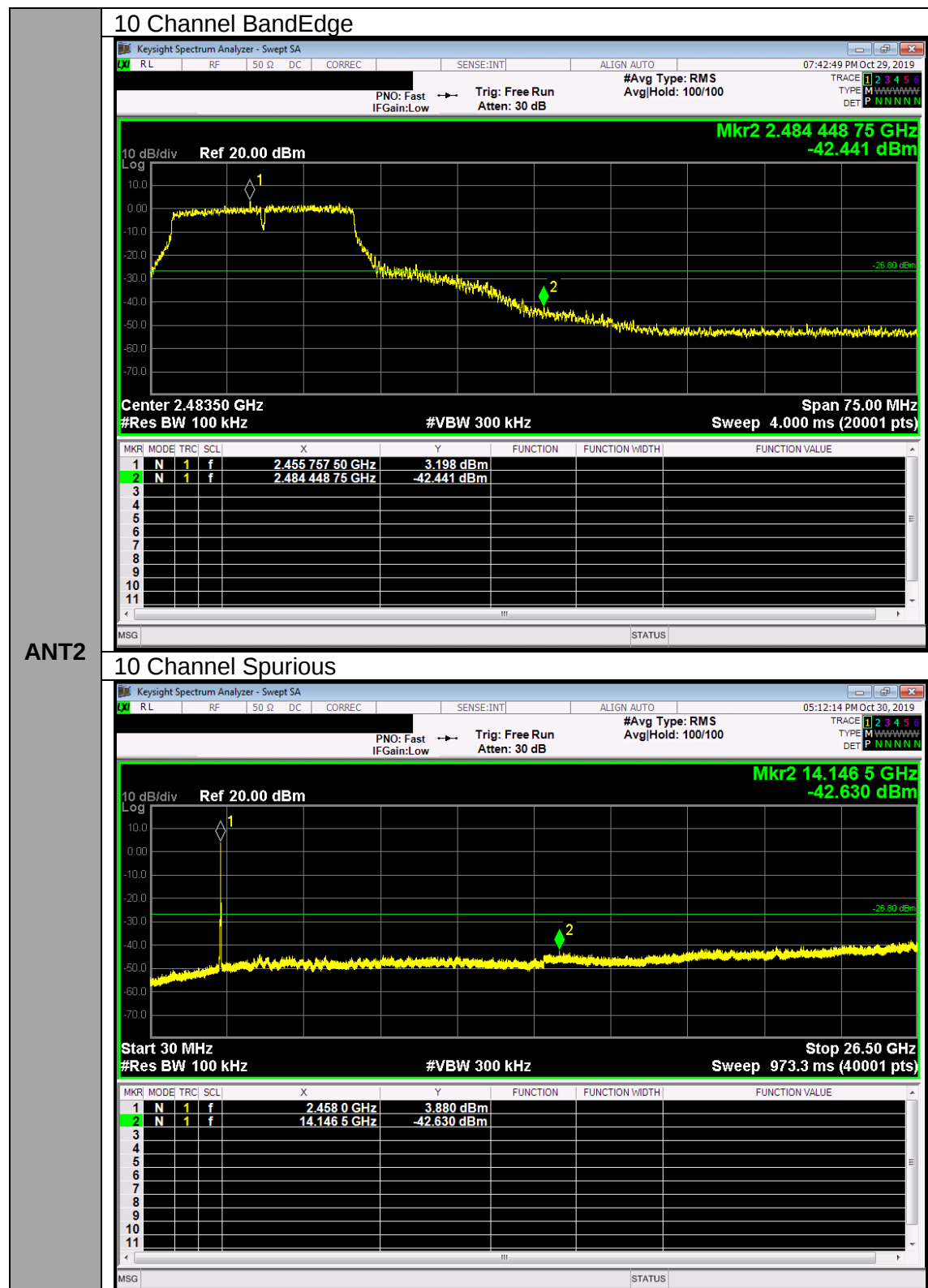
ANT1



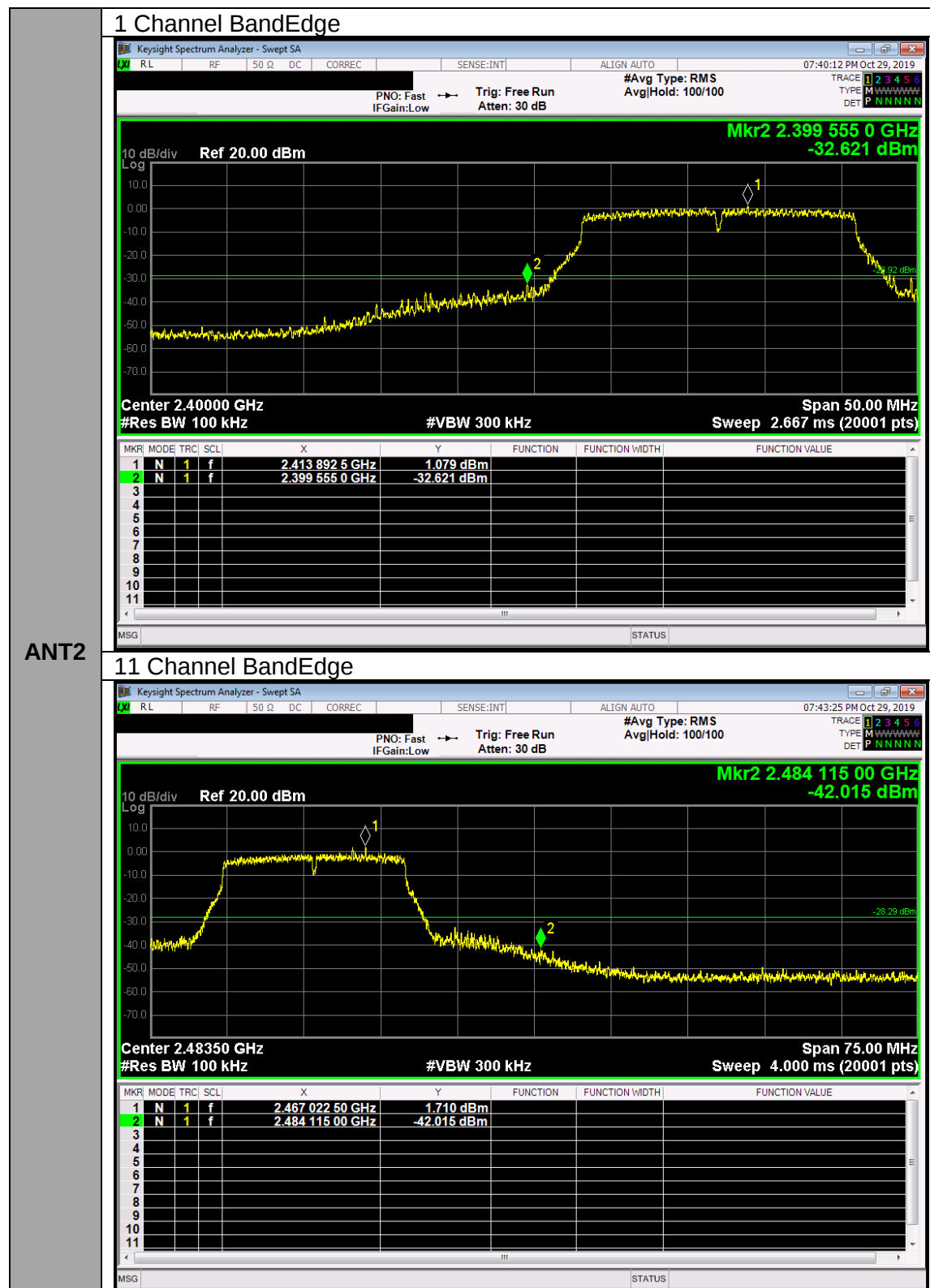
ANT2



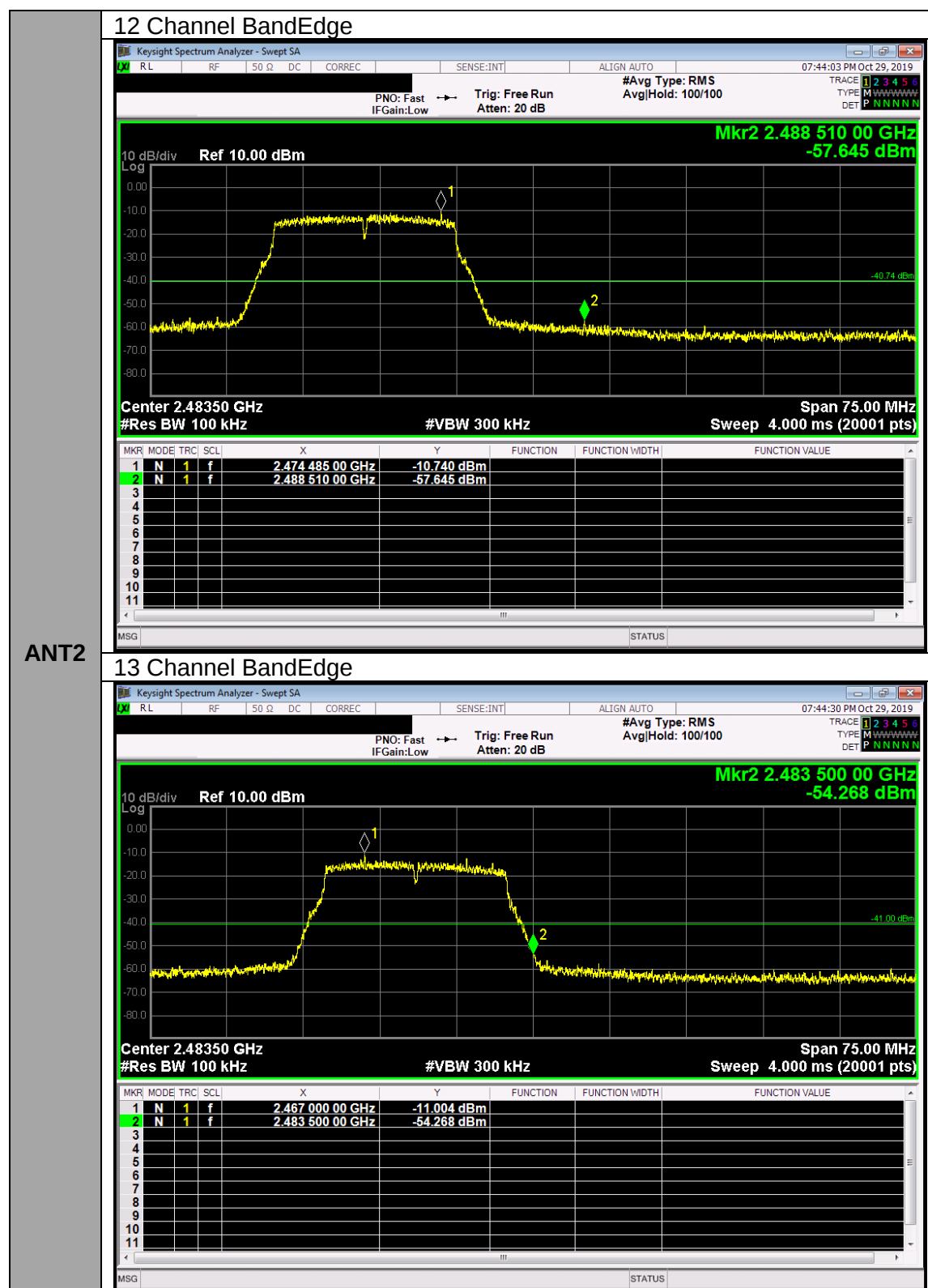
ANT2



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.

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

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

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz and 150 cm for above 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

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

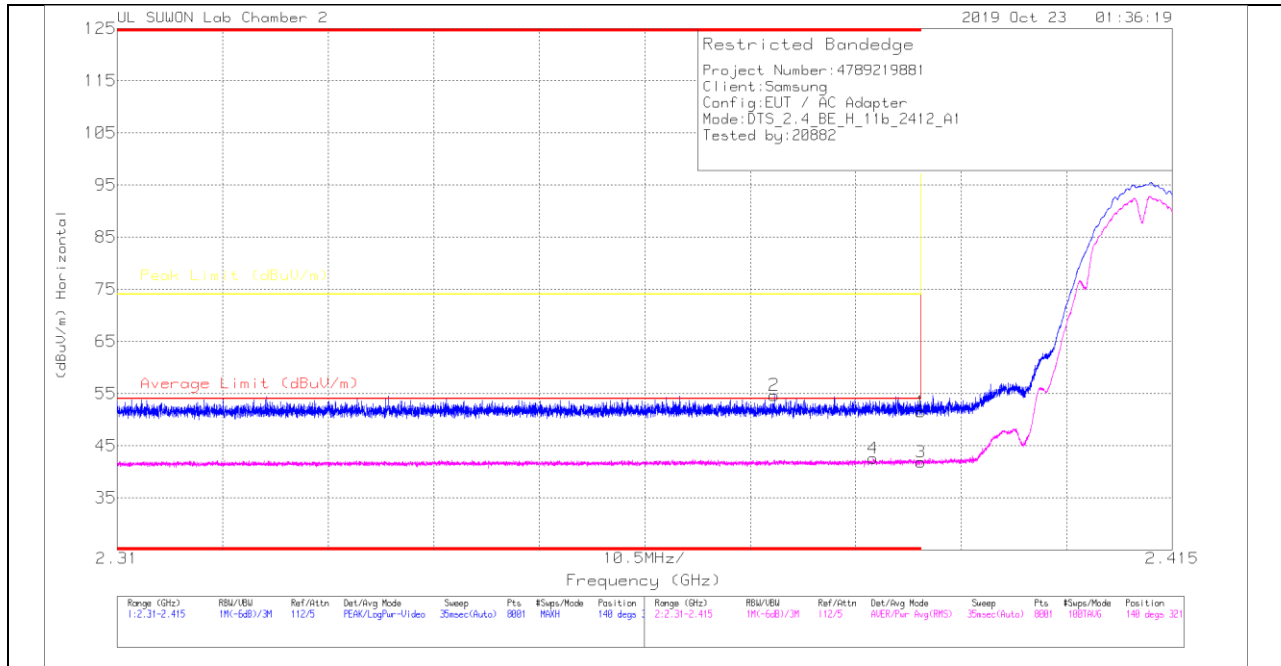
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field 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 ANT1

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

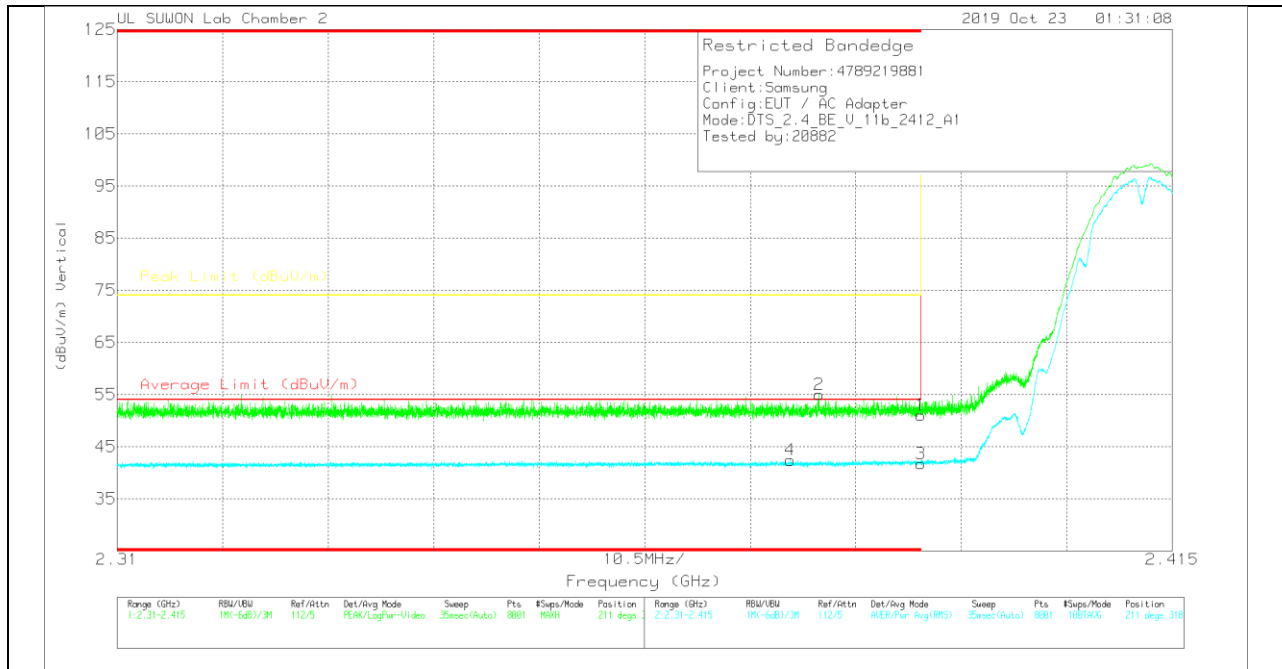
Marker	Frequency (GHz)	Meter Reading (dBu/m)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Altitude (m)	Height (m)	Polarity
1	* 2.39	40.48	Pk	31.6	-20.6	0	51.48	-	-	74	-22.52	140	321	H
2	* 2.37538	43.67	Pk	31.6	-20.6	0	54.67	-	-	74	-19.33	140	321	H
3	* 2.39	30.86	RMS	31.6	-20.6	0	41.86	54	-12.14	-	-	140	321	H
4	* 2.38522	31.58	RMS	31.6	-20.6	0	42.58	54	-11.42	-	-	140	321	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_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.05	Pk	31.6	-20.6	0	51.05	-	-	74	-22.95	211	318	V
2	* 2.37983	43.99	Pk	31.6	-20.6	0	54.99	-	-	74	-19.01	211	318	V
3	* 2.39	30.75	RMS	31.6	-20.6	0	41.75	54	-12.25	-	-	211	318	V
4	* 2.37696	31.43	RMS	31.6	-20.6	0	42.43	54	-11.57	-	-	211	318	V

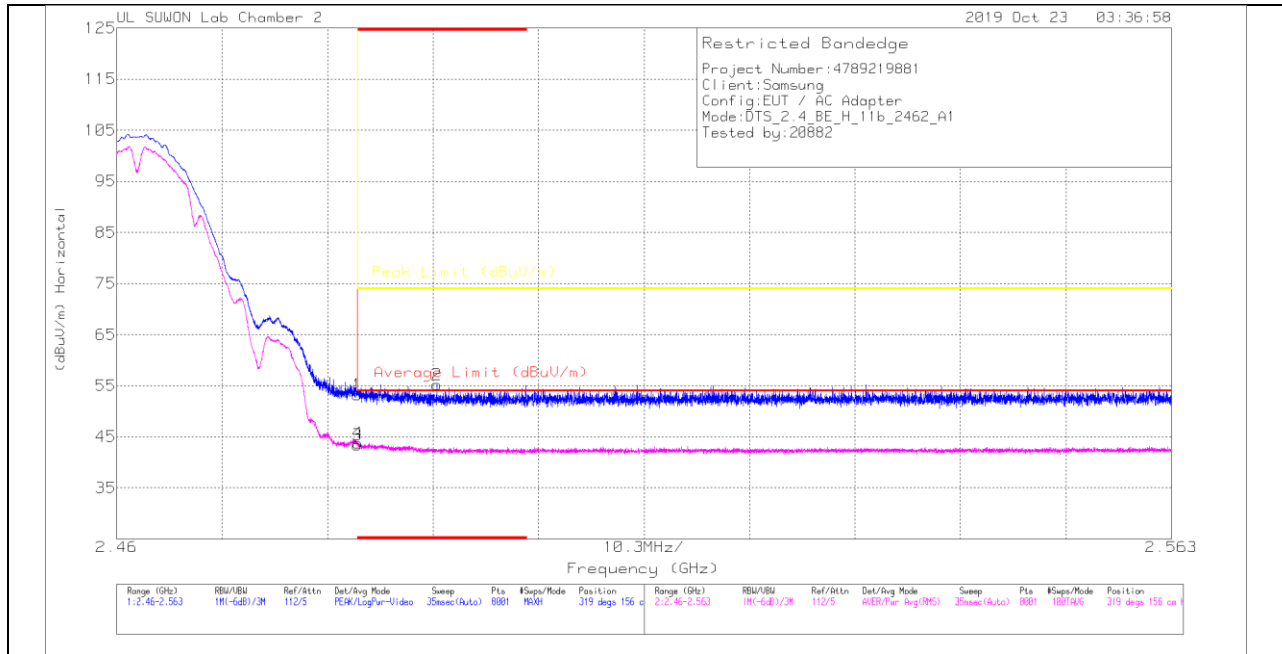
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

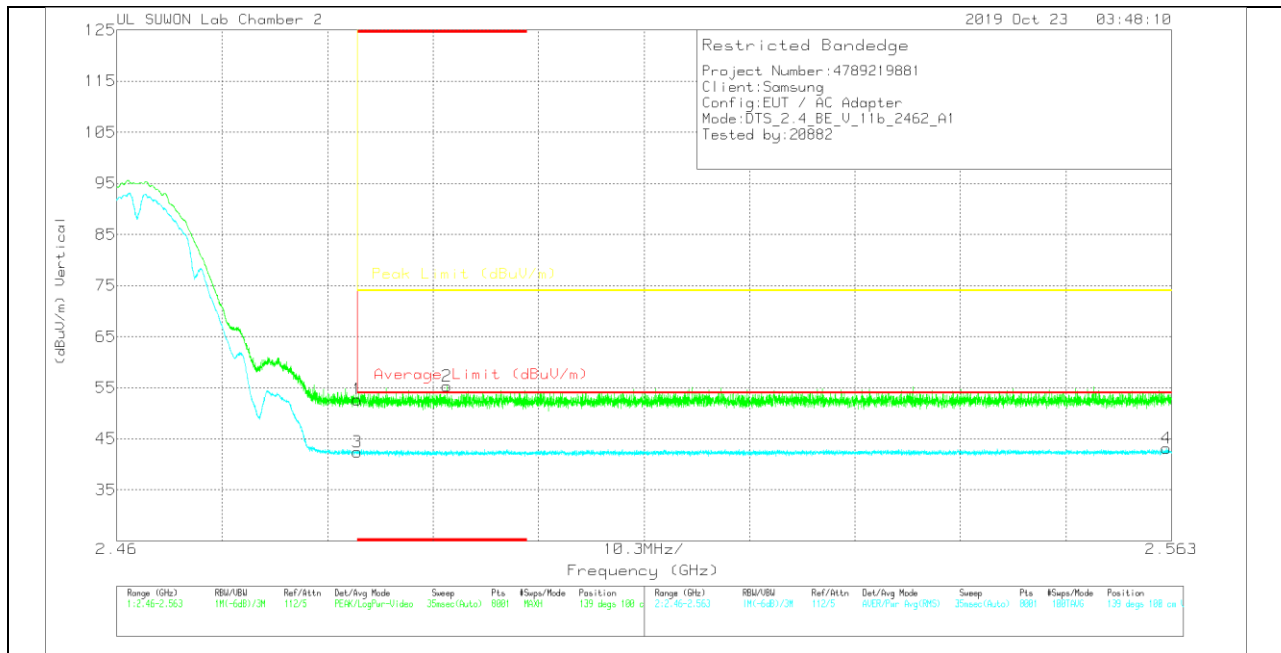
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.69	PK	31.9	-20.4	0	63.19	-	-	74	-20.81	319	156	H
2	* 2.49126	43.82	PK	31.9	-20.5	0	65.22	-	-	74	-18.78	319	156	H
3	* 2.48351	31.94	RMS	31.9	-20.4	0	43.44	54	-10.56	-	-	319	156	H
4	* 2.48354	32.32	RMS	31.9	-20.4	0	43.82	54	-10.18	-	-	319	156	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_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.17	PK	31.9	-20.4	0	62.67	-	-	74	-21.33	139	100	V
2	* 2.49224	43.92	PK	31.9	-20.5	0	65.32	-	-	74	-18.68	139	100	V
3	* 2.48351	30.94	RMS	31.9	-20.4	0	42.44	54	-11.56	-	-	139	100	V
4	2.56254	31.51	RMS	32	-20.4	0	43.11	54	-10.89	-	-	139	100	V

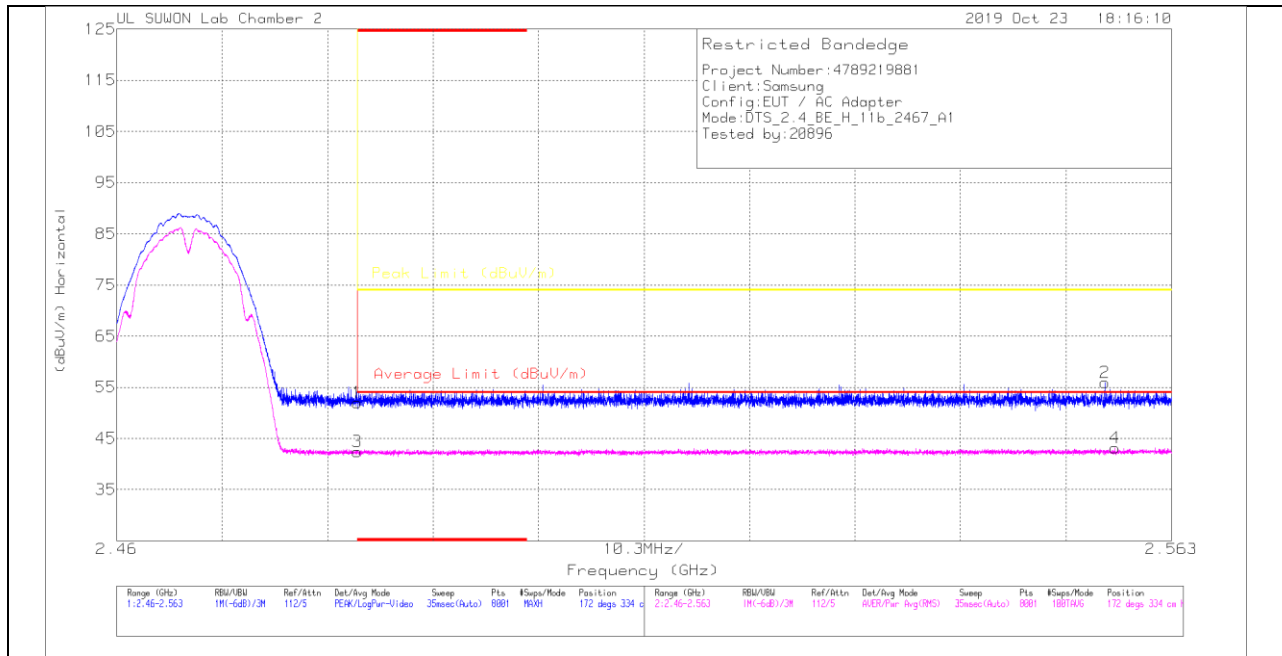
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

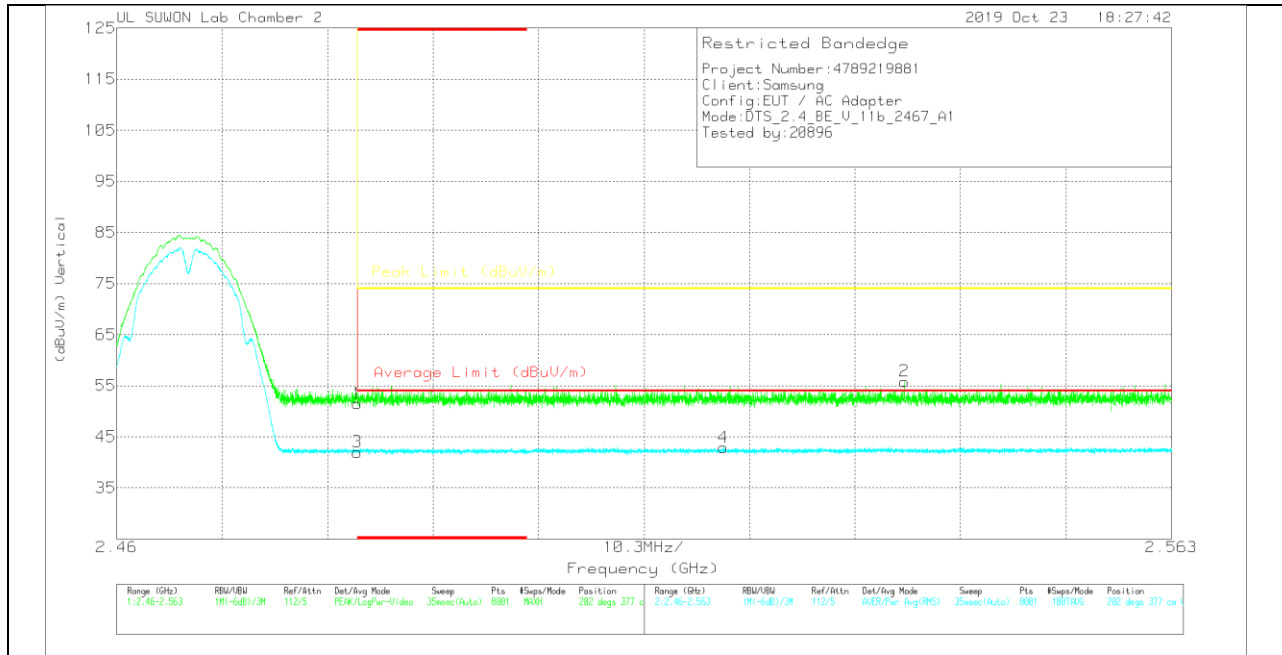
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (deg)	Height (m)	Polarity
1	* 2.48351	40.52	PK	31.9	-20.4	0	52.02	-	-	74	-21.98	172	334	H
2	2.55649	44.3	PK	32	-20.4	0	55.9	-	-	74	-18.1	172	334	H
3	* 2.48351	30.92	RMS	31.9	-20.4	0	42.42	54	-11.58	-	-	172	334	H
4	2.55749	31.6	RMS	32	-20.4	0	43.2	54	-10.8	-	-	172	334	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT(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	39.97	PK	31.9	-20.4	0	51.47	-	-	74	-22.53	202	377	V
2	2.53693	44.26	PK	32	-20.4	0	55.86	-	-	74	-18.14	202	377	V
3	* 2.48351	30.49	RMS	31.9	-20.4	0	41.99	54	-12.01	-	-	202	377	V
4	2.51923	31.46	RMS	31.9	-20.4	0	42.96	54	-11.04	-	-	202	377	V

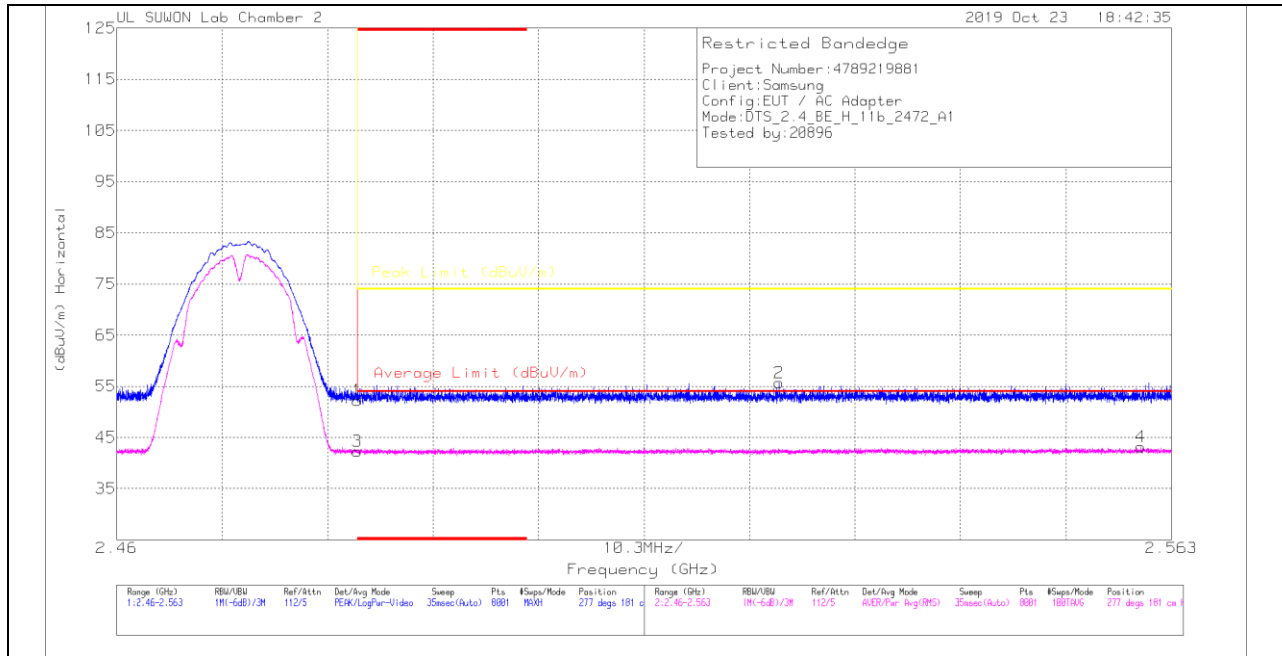
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

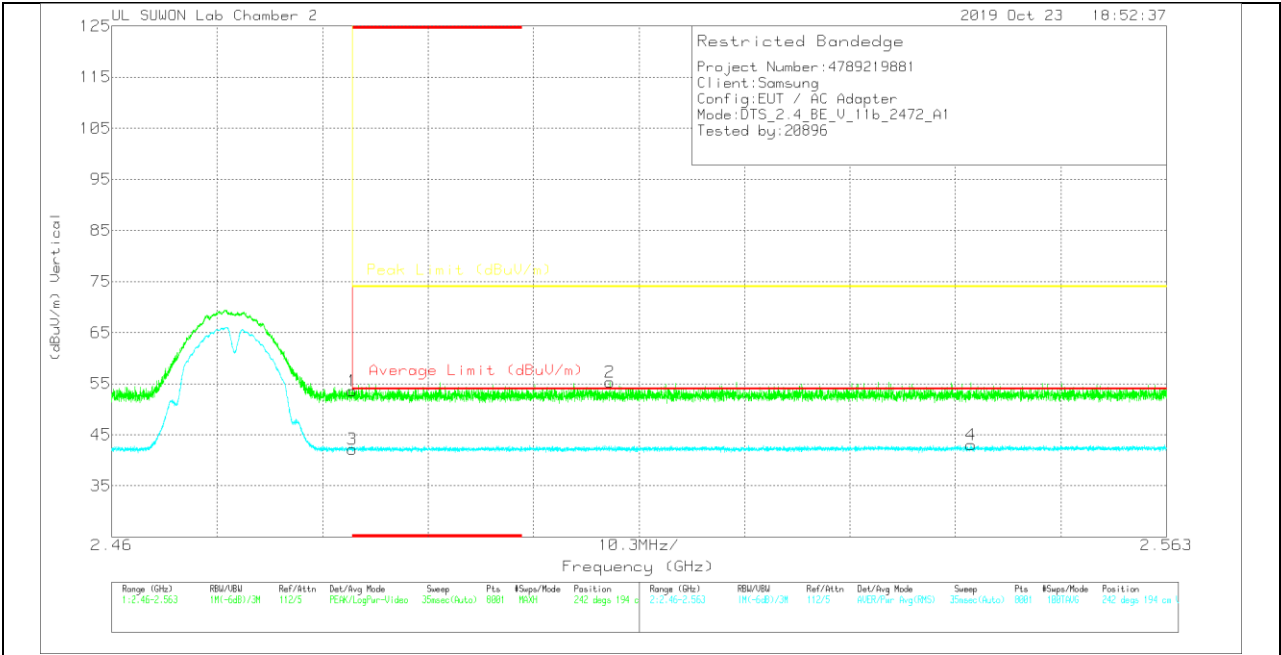
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
1	* 2.48351	40.74	PK	31.9	-20.4	0	52.24	-	-	74	-21.76	277	181	H
2	2.5247	44.14	PK	31.9	-20.4	0	55.64	-	-	74	-18.36	277	181	H
3	* 2.48351	30.78	RMS	31.9	-20.4	0	42.28	54	-11.72	-	-	277	181	H
4	2.55	31.53	RMS	32	-20.4	0	43.13	54	-10.67	-	-	277	181	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

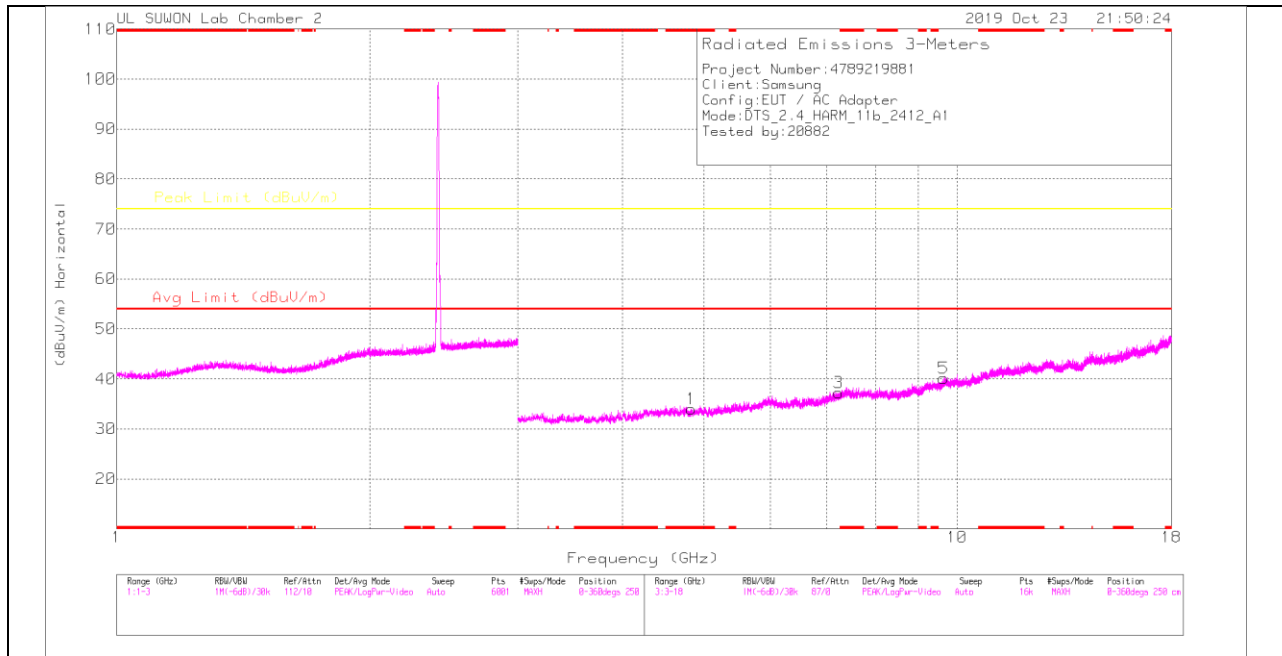
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_90168724	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
1	* 2.48351	42.05	PK	31.9	-20.4	0	53.55	-	-	74	-20.45	242	194	V
2	2.50863	43.82	PK	31.9	-20.4	0	55.32	-	-	74	-18.68	242	194	V
3	* 2.48351	30.69	RMS	31.9	-20.4	0	42.19	54	-11.81	-	-	242	194	V
4	2.54393	31.43	RMS	32	-20.4	0	43.03	54	-10.97	-	-	242	194	V

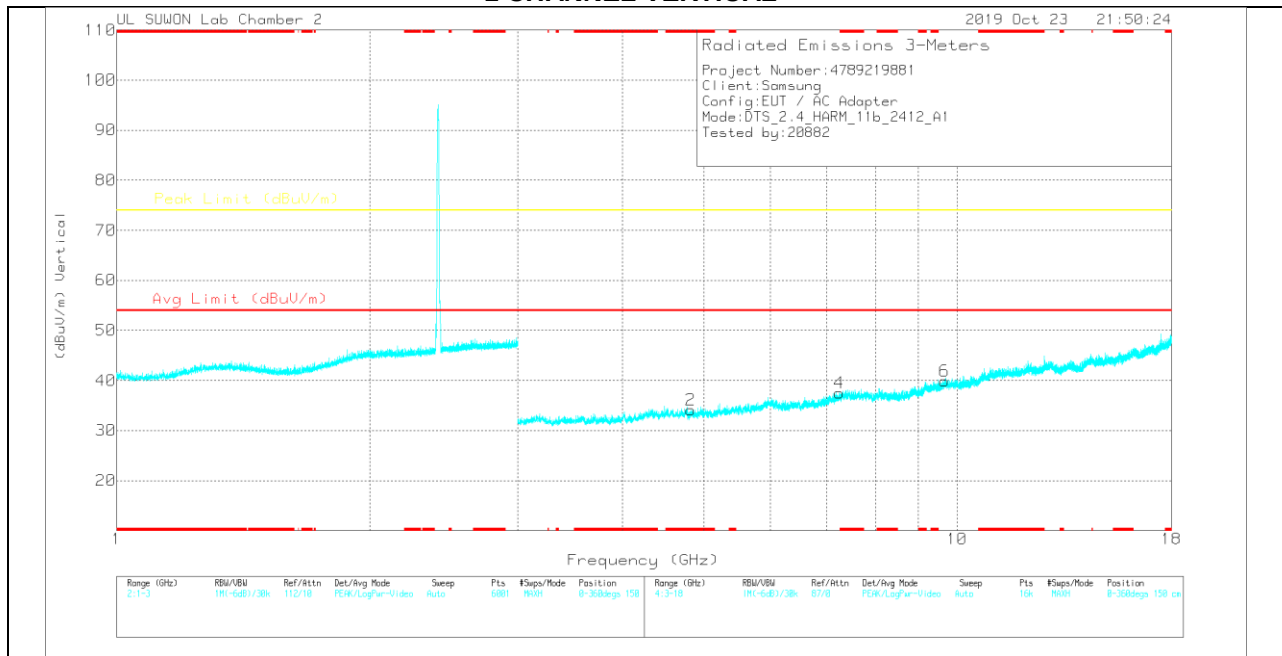
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

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

Radiated Emissions

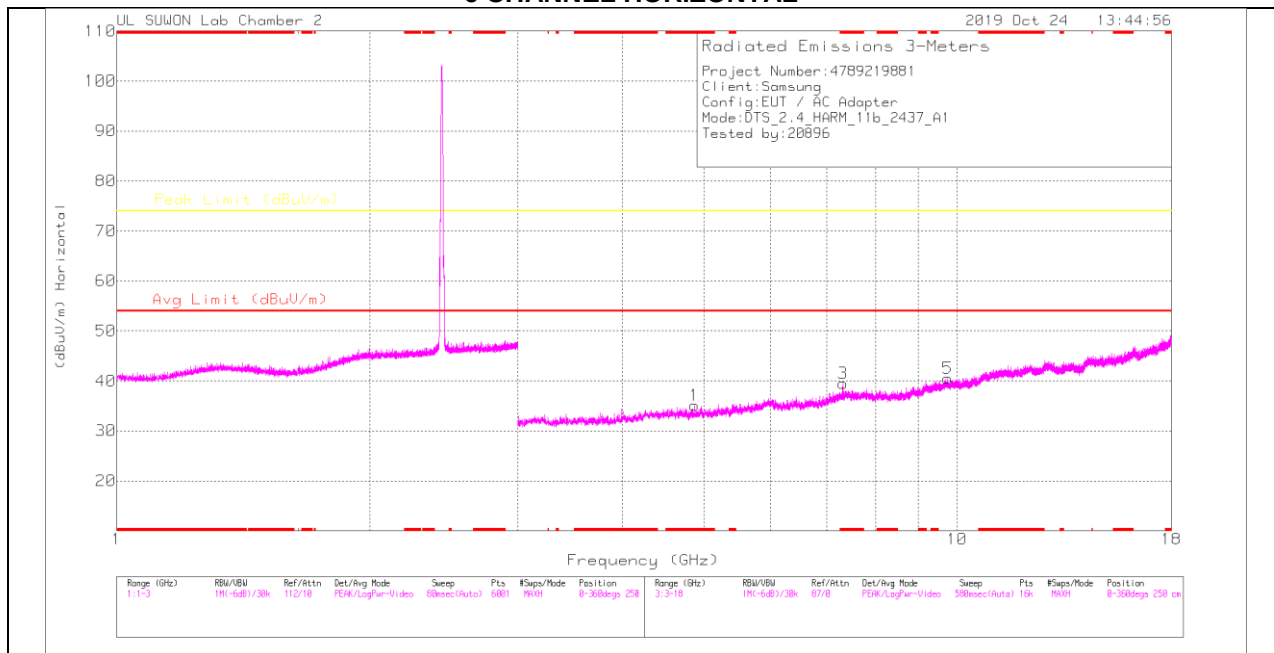
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.82782	36.55	PK2	34	-28.1	0	42.45	-	-	74	-31.55	360	100	H
* 4.82715	36.88	PK2	34	-28.1	0	42.78	-	-	74	-31.22	360	100	V
7.23414	35.07	PK2	36.1	-25.3	0	45.87	-	-	74	-28.13	360	100	H
7.23462	35.08	PK2	36.1	-25.3	0	45.88	-	-	74	-28.12	360	100	V
9.64224	32.85	PK2	37	-21.5	0	48.35	-	-	74	-25.65	360	100	H
9.63928	32.47	PK2	37	-21.5	0	47.97	-	-	74	-26.03	360	100	V

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

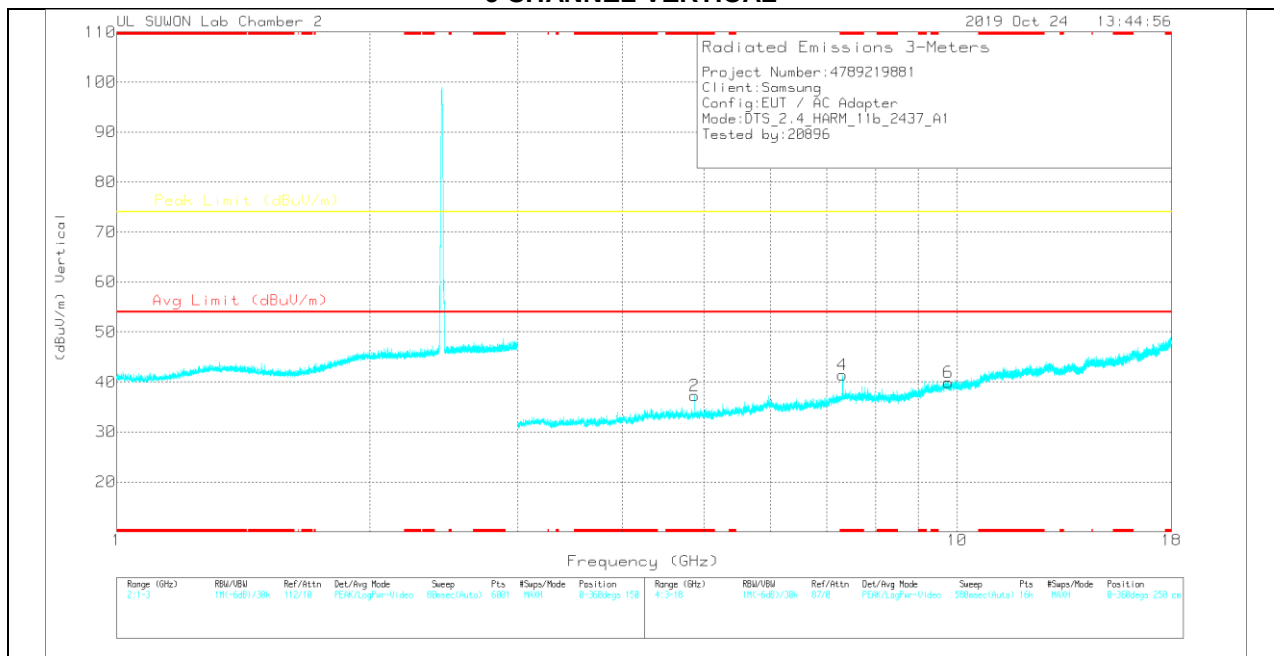
PK2 - KDB558074 Method: Maximum Peak

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

Radiated Emissions

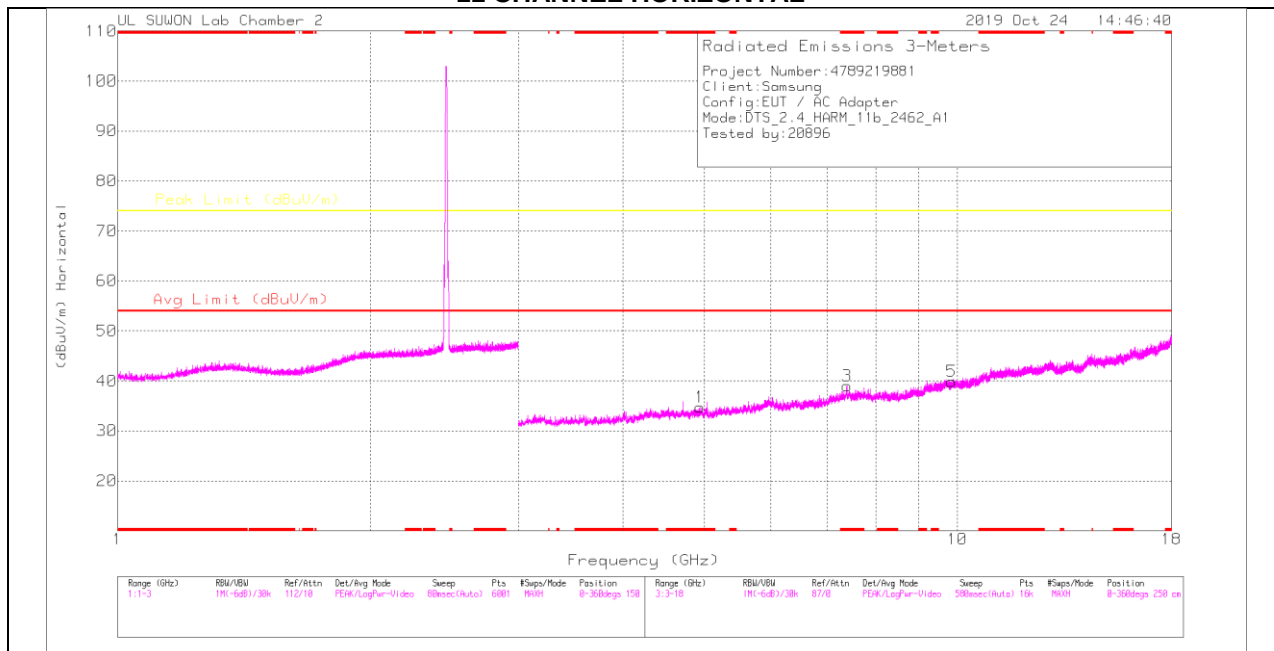
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87402	37.58	PK2	34	-27.9	0	43.68	-	-	74	-30.32	148	100	H
* 4.8739	29.49	MAv1	34	-27.9	0	35.59	54	-18.41	-	-	148	100	H
* 4.87402	38.7	PK2	34	-27.9	0	44.8	-	-	74	-29.2	179	100	V
* 4.87398	31.42	MAv1	34	-27.9	0	37.52	54	-16.48	-	-	179	100	V
* 7.31011	37.39	PK2	36.2	-24.9	0	48.69	-	-	74	-25.31	317	113	H
* 7.31179	27.77	MAv1	36.2	-24.8	0	39.17	54	-14.83	-	-	317	113	H
* 7.30943	38.3	PK2	36.2	-24.9	0	49.6	-	-	74	-24.4	171	109	V
* 7.30971	29.66	MAv1	36.2	-24.9	0	40.96	54	-13.04	-	-	171	109	V
9.75203	31.96	PK2	37.2	-21.2	0	47.96	-	-	74	-26.04	360	100	H
9.74983	32.25	PK2	37.2	-21.2	0	48.25	-	-	74	-25.75	360	100	V

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

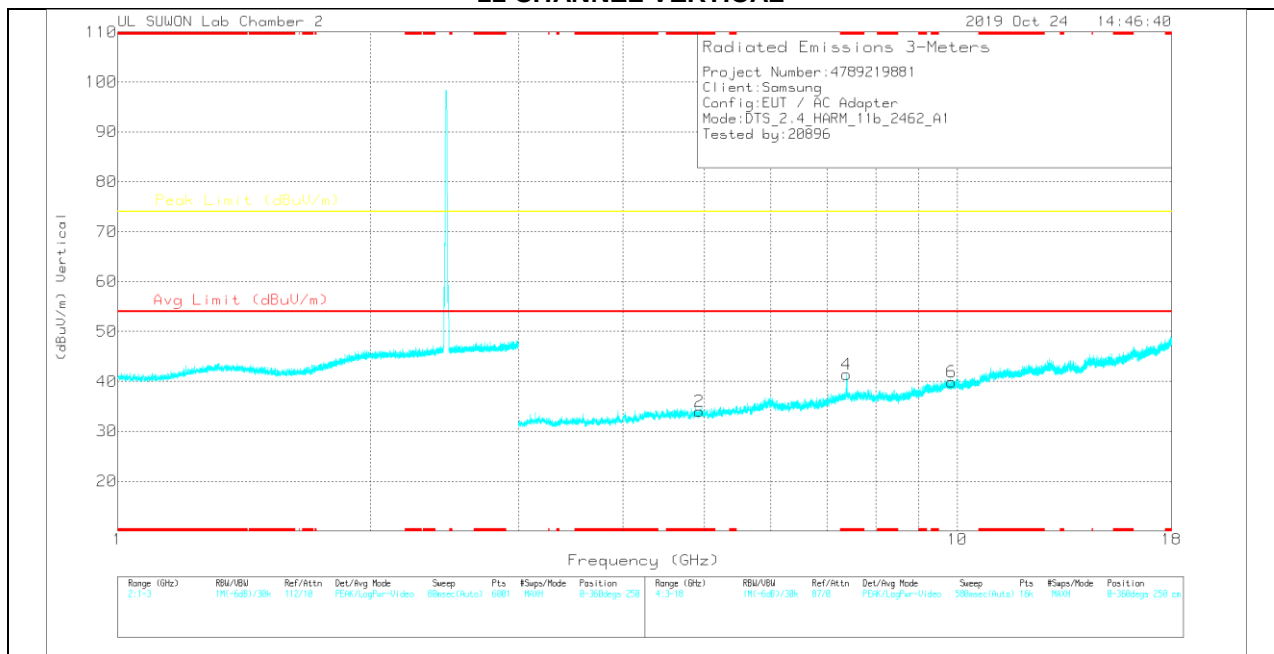
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872_4	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
* 4.94189	35.89	PK2	34.1	-27.1	0	42.89	-	-	74	-31.11	360	100	H
* 4.94264	35.73	PK2	34.1	-27.1	0	42.73	-	-	74	-31.27	360	100	V
* 7.385	36.89	PK2	36.2	-24.2	0	48.89	-	-	74	-25.11	328	118	H
* 7.38504	27.31	MAv1	36.2	-24.2	0	39.31	54	-14.69	-	-	328	118	H
* 7.38456	37.74	PK2	36.2	-24.2	0	49.74	-	-	74	-24.26	180	106	V
* 7.38504	30	MAv1	36.2	-24.2	0	42	54	-12	-	-	180	106	V
9.84837	32.19	PK2	37.3	-21.6	0	47.89	-	-	74	-26.11	0	100	H
9.84708	32.33	PK2	37.3	-21.6	0	48.03	-	-	74	-25.97	0	100	V

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

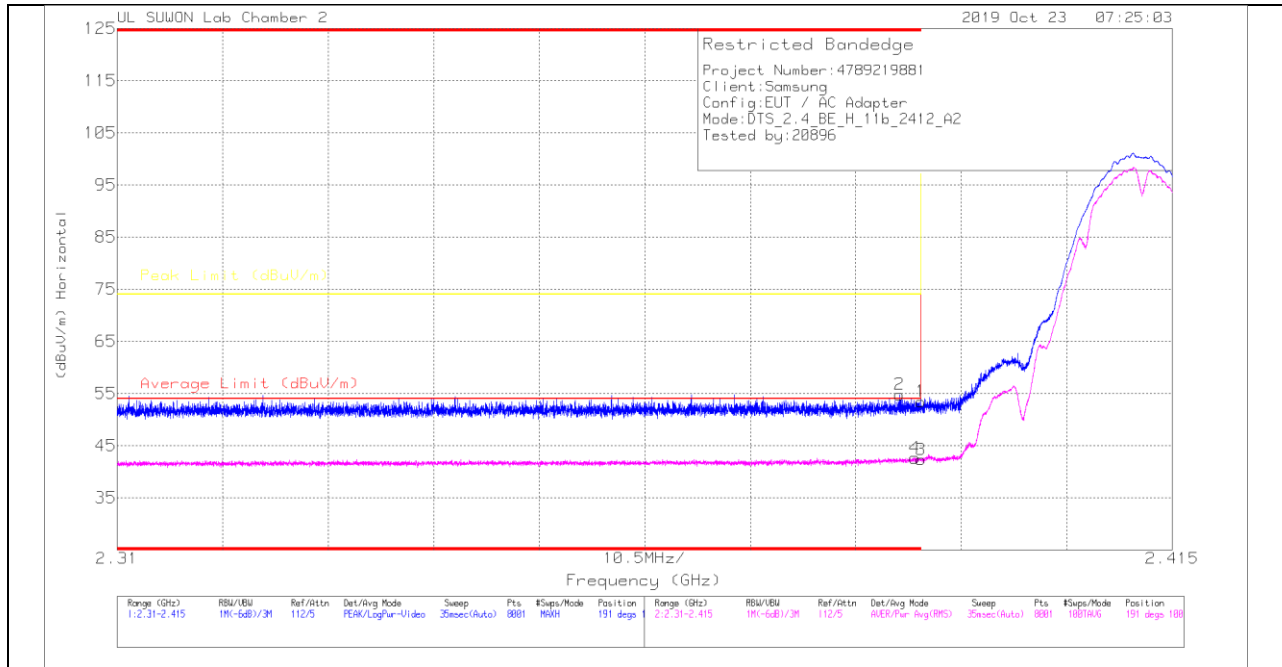
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

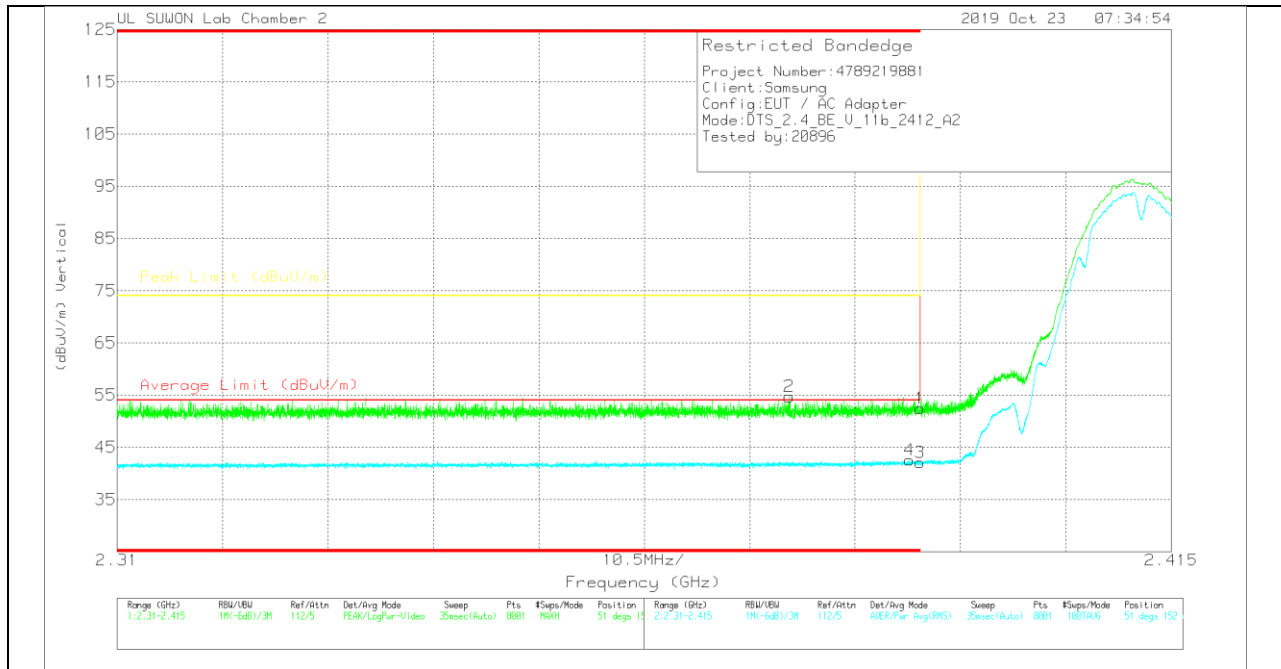
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	42.45	Pk	31.6	-20.6	0	53.45	-	-	74	-20.55	191	100	H
2	* 2.38783	43.82	Pk	31.6	-20.6	0	54.82	-	-	74	-19.18	191	100	H
3	* 2.39	31.34	RMS	31.6	-20.6	0	42.34	54	-11.66	-	-	191	100	H
4	* 2.39398	31.68	RMS	31.6	-20.6	0	42.68	54	-11.32	-	-	191	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_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (deg)	Height (m)	Polarity
1	* 2.39	41.46	Pk	31.6	-20.6	0	52.46	-	-	74	-21.54	51	152	V
2	* 2.37694	43.71	Pk	31.6	-20.6	0	54.71	-	-	74	-19.29	51	152	V
3	* 2.39	31.08	RMS	31.6	-20.6	0	42.08	54	-11.92	-	-	51	152	V
4	* 2.38892	31.57	RMS	31.6	-20.6	0	42.57	54	-11.43	-	-	51	152	V

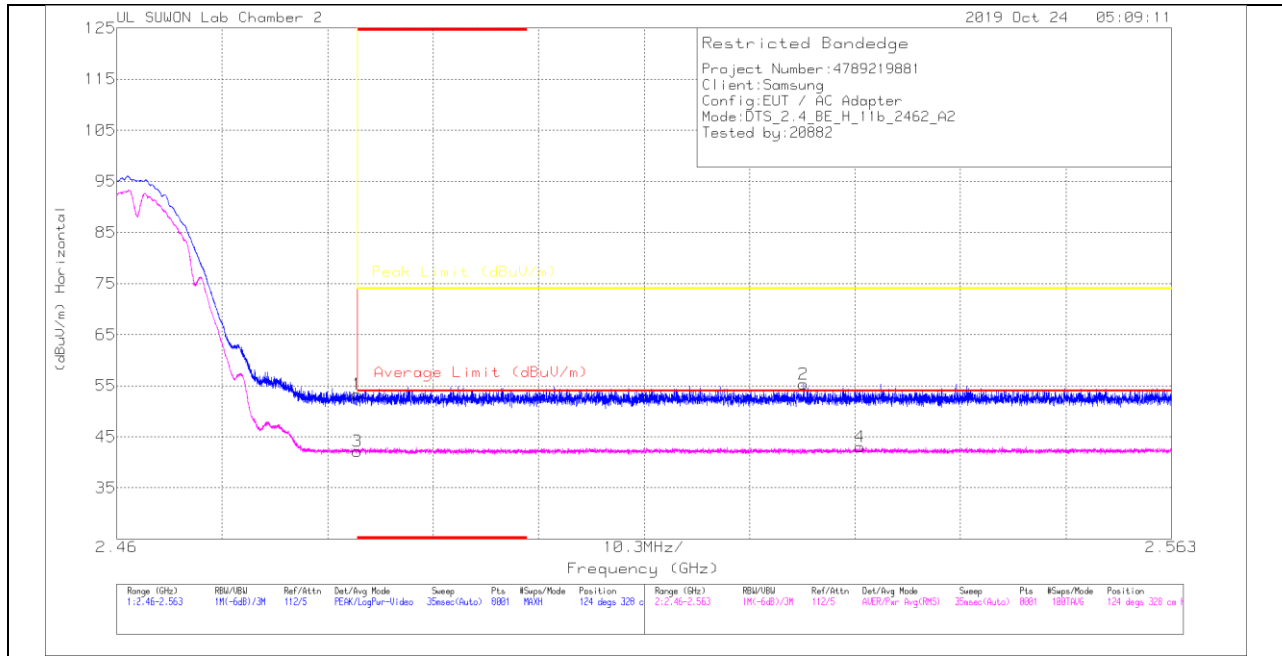
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

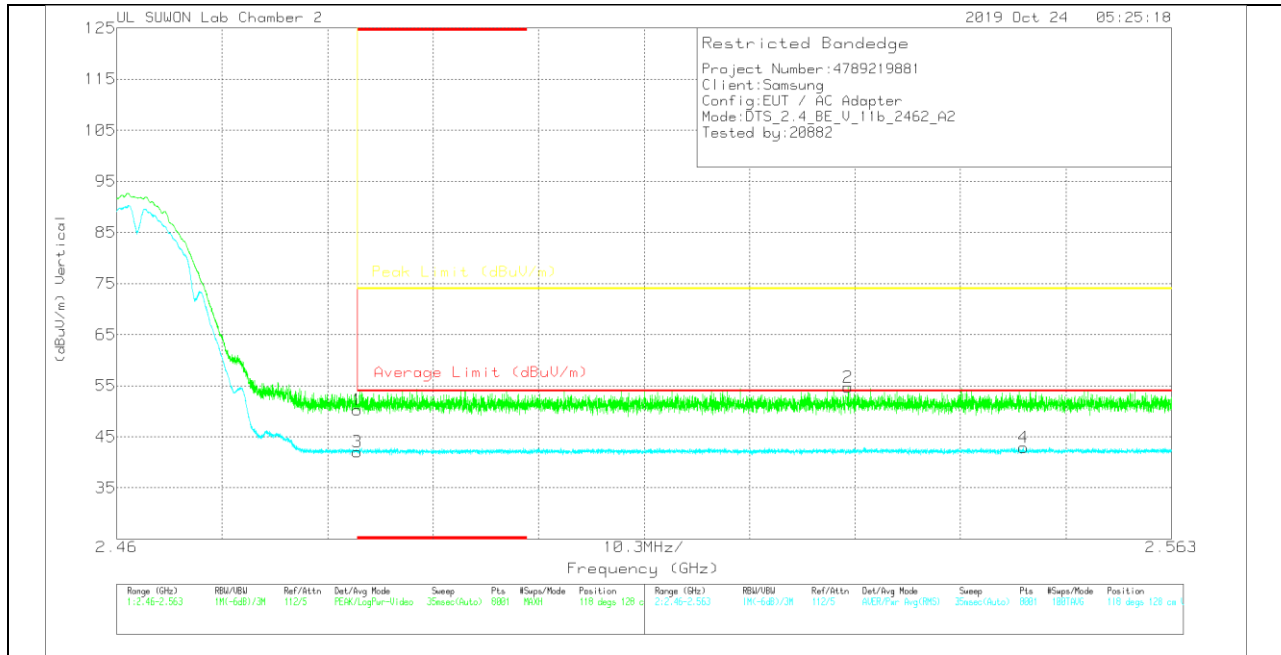
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.86	Pk	31.9	-20.4	0	53.36	-	-	74	-20.64	124	328	H
2	2.52707	43.84	Pk	31.9	-20.4	0	55.34	-	-	74	-18.66	124	328	H
3	* 2.48351	30.72	RMS	31.9	-20.4	0	42.22	54	-11.78	-	-	124	328	H
4	2.53259	31.41	RMS	32	-20.4	0	43.01	54	-10.99	-	-	124	328	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_00158724	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	38.75	Pk	31.9	-20.4	0	50.25	-	-	74	-23.75	118	128	V
2	2.53144	43.05	Pk	32	-20.4	0	54.65	-	-	74	-19.35	118	128	V
3	* 2.48351	30.58	RMS	31.9	-20.4	0	42.08	54	-11.92	-	-	118	128	V
4	2.54853	31.28	RMS	32	-20.4	0	42.88	54	-11.12	-	-	118	128	V

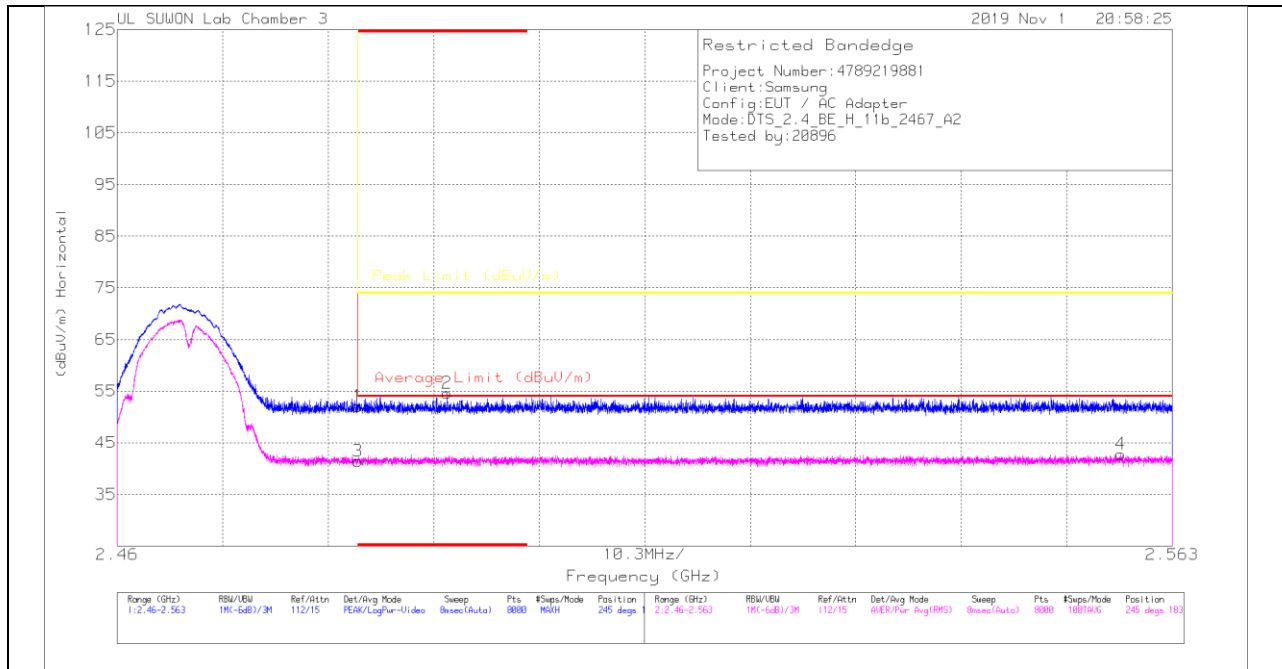
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

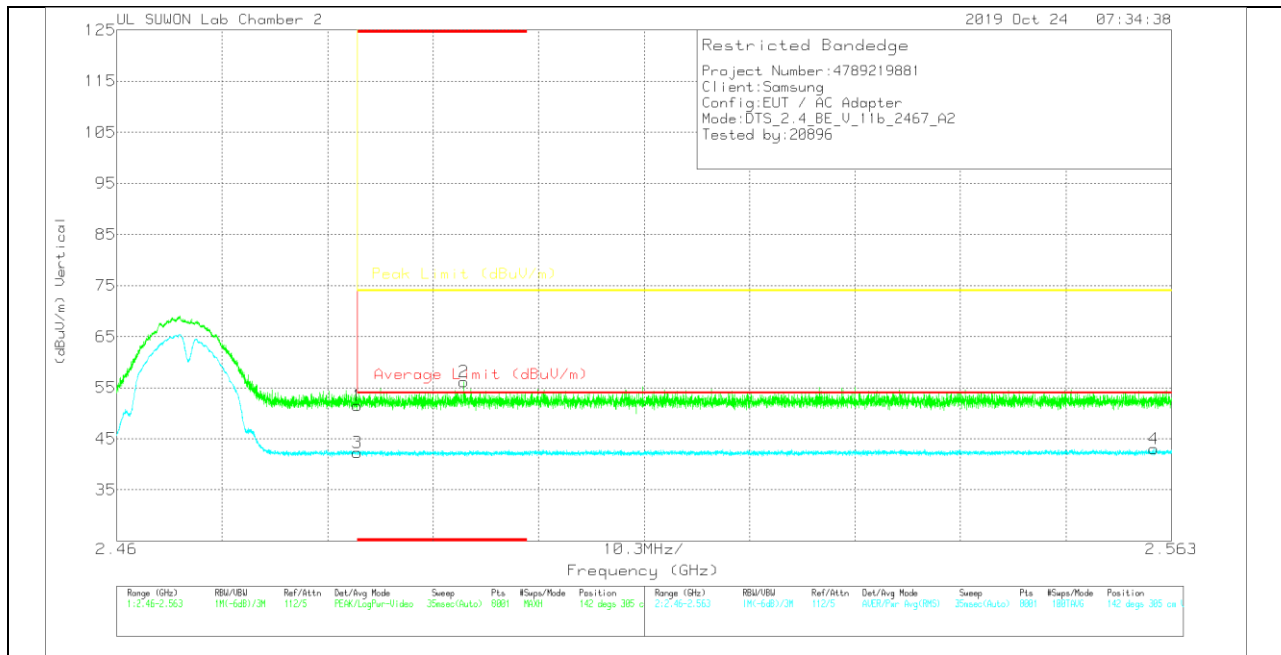
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00209559	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.4835	42.98	Pk	31.9	-22.8	0	52.08	-	-	74	-21.92	245	183	H
2	* 2.49221	45.53	Pk	31.9	-22.8	0	54.63	-	-	74	-19.37	245	183	H
3	* 2.4835	32.35	RMS	31.9	-22.8	0	41.45	54	-12.55	-	-	245	183	H
4	2.55798	33.48	RMS	32	-22.7	0	42.78	54	-11.22	-	-	245	183	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_00158724	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	40.05	Pk	31.9	-20.4	0	51.55	-	-	74	-22.45	142	305	V
2	* 2.49393	44.78	Pk	31.9	-20.5	0	56.18	-	-	74	-17.82	142	305	V
3	* 2.48351	30.79	RMS	31.9	-20.4	0	42.29	54	-11.71	-	-	142	305	V
4	2.56126	31.28	RMS	32	-20.3	0	42.98	54	-11.02	-	-	142	305	V

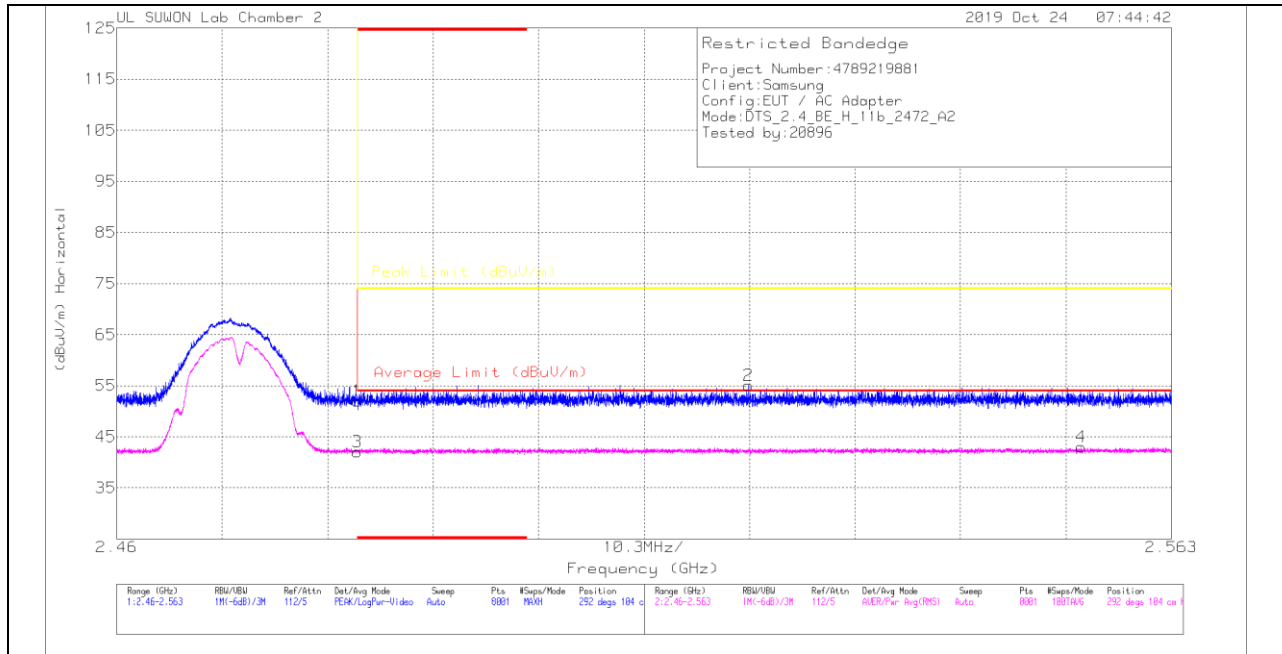
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

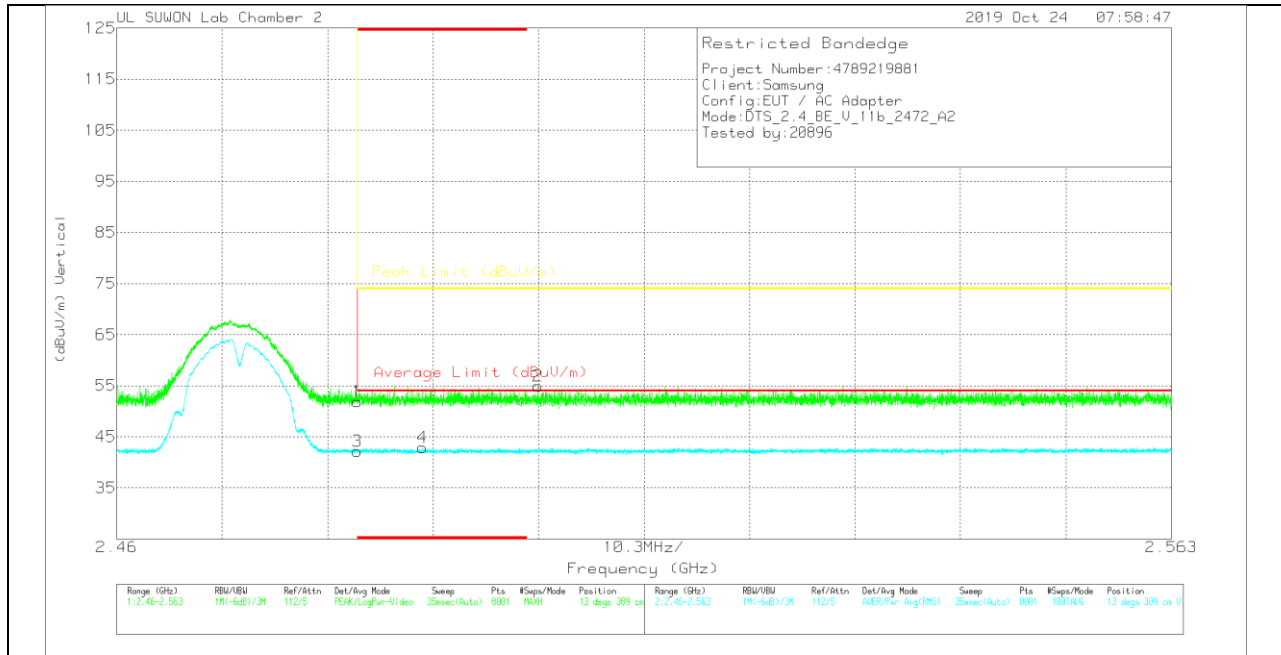
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.48351	40.49	Pk	31.9	-20.4	0	51.99	-	-	74	-22.01	292	104	H
2	2.52167	43.57	Pk	31.9	-20.4	0	55.07	-	-	74	-18.93	292	104	H
3	* 2.48351	30.54	RMS	31.9	-20.4	0	42.04	54	-11.96	-	-	292	104	H
4	2.55419	31.41	RMS	32	-20.4	0	43.01	54	-10.99	-	-	292	104	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_00158724	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	40.37	PK	31.9	-20.4	0	51.87	-	-	74	-22.13	13	389	V
2	2.50114	43.41	PK	31.9	-20.4	0	54.91	-	-	74	-19.09	13	389	V
3	* 2.48351	30.63	RMS	31.9	-20.4	0	42.13	54	-11.87	-	-	13	389	V
4	* 2.48867	31.49	RMS	31.9	-20.5	0	42.89	54	-11.11	-	-	13	389	V

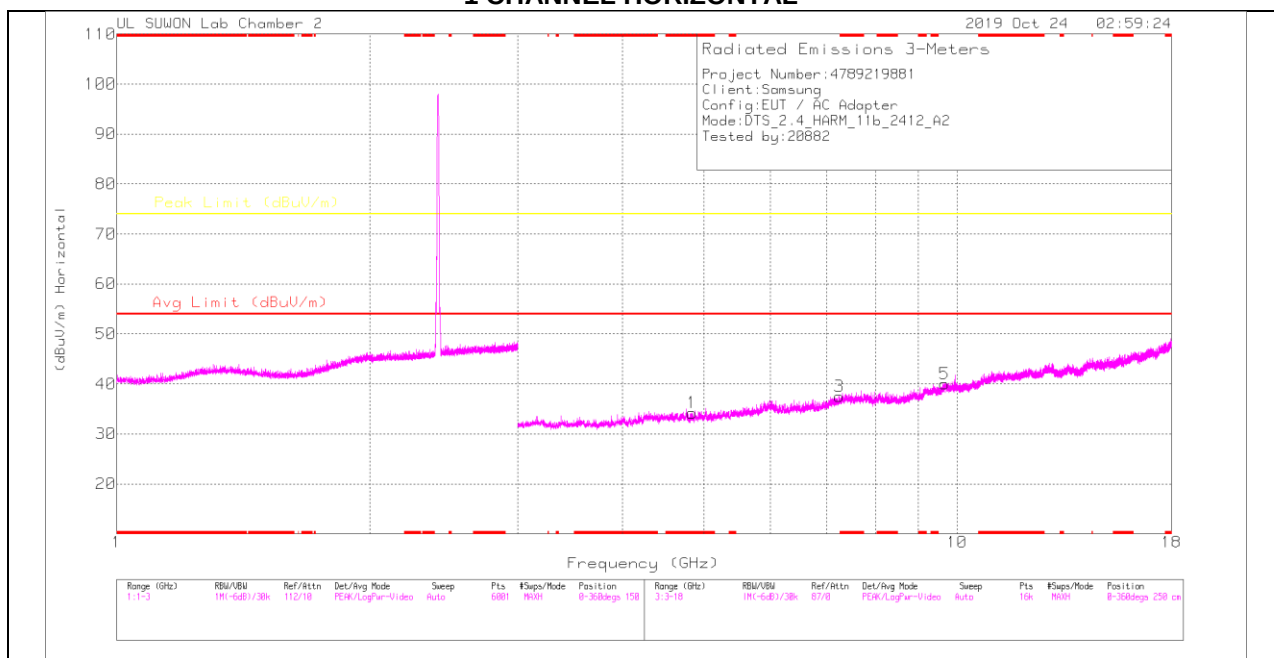
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

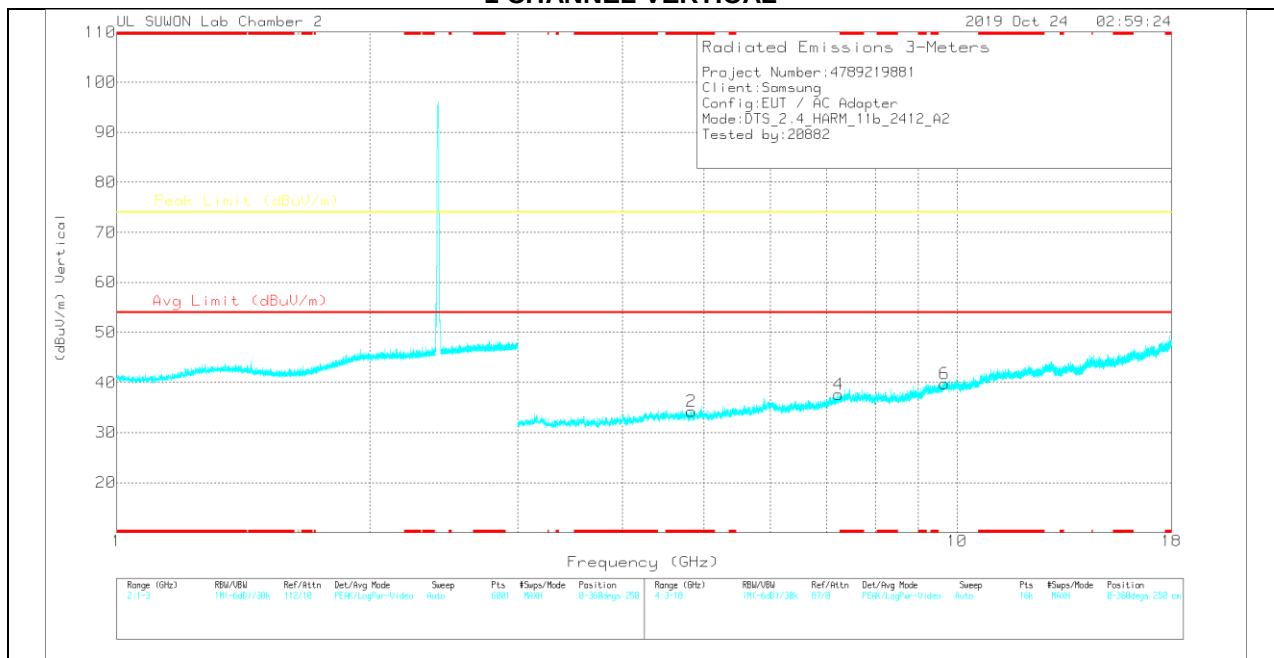
RMS - RMS detection

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

Radiated Emissions

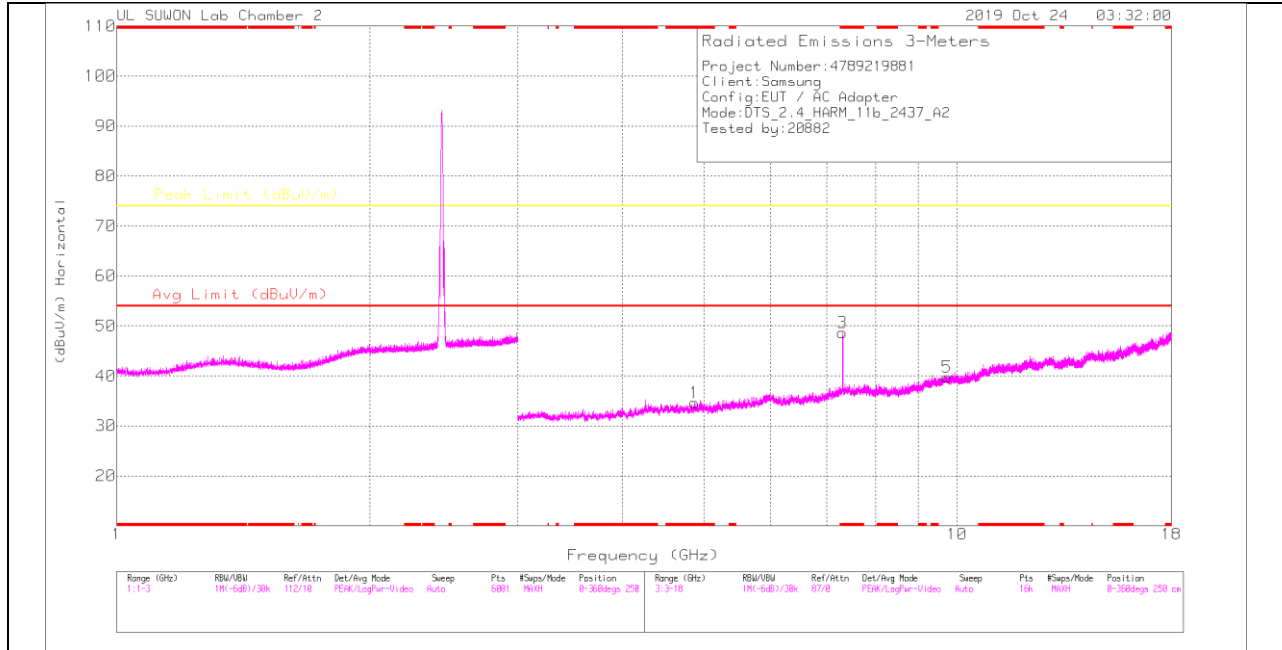
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.83606	37.26	PK2	34	-28.1	0	43.16	-	-	74	-30.84	360	100	H
* 4.83635	36.97	PK2	34	-28.1	0	42.87	-	-	74	-31.13	360	100	V
7.23752	35.45	PK2	36.1	-25.4	0	46.15	-	-	74	-27.85	360	100	H
7.23751	34.92	PK2	36.1	-25.4	0	45.62	-	-	74	-28.38	360	100	V
9.66709	32.88	PK2	37.1	-21.3	0	48.68	-	-	74	-25.32	360	100	H
9.66822	32.28	PK2	37.1	-21.3	0	48.08	-	-	74	-25.92	360	100	V

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

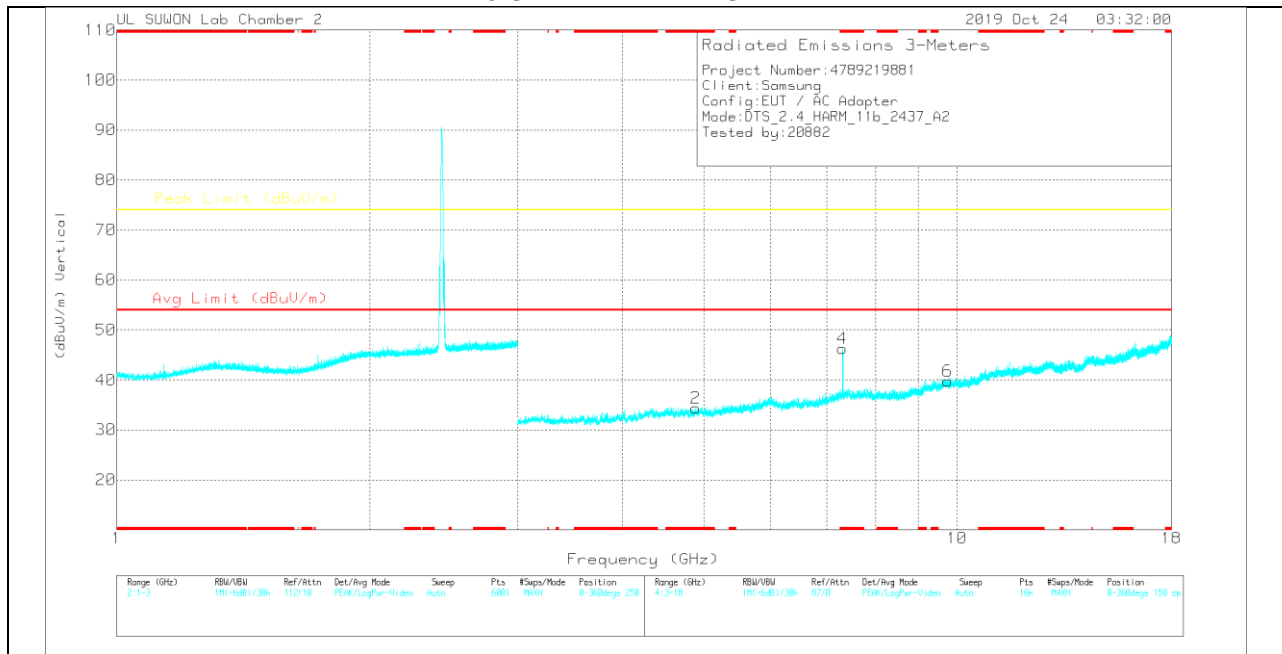
PK2 - KDB558074 Method: Maximum Peak

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

Radiated Emissions

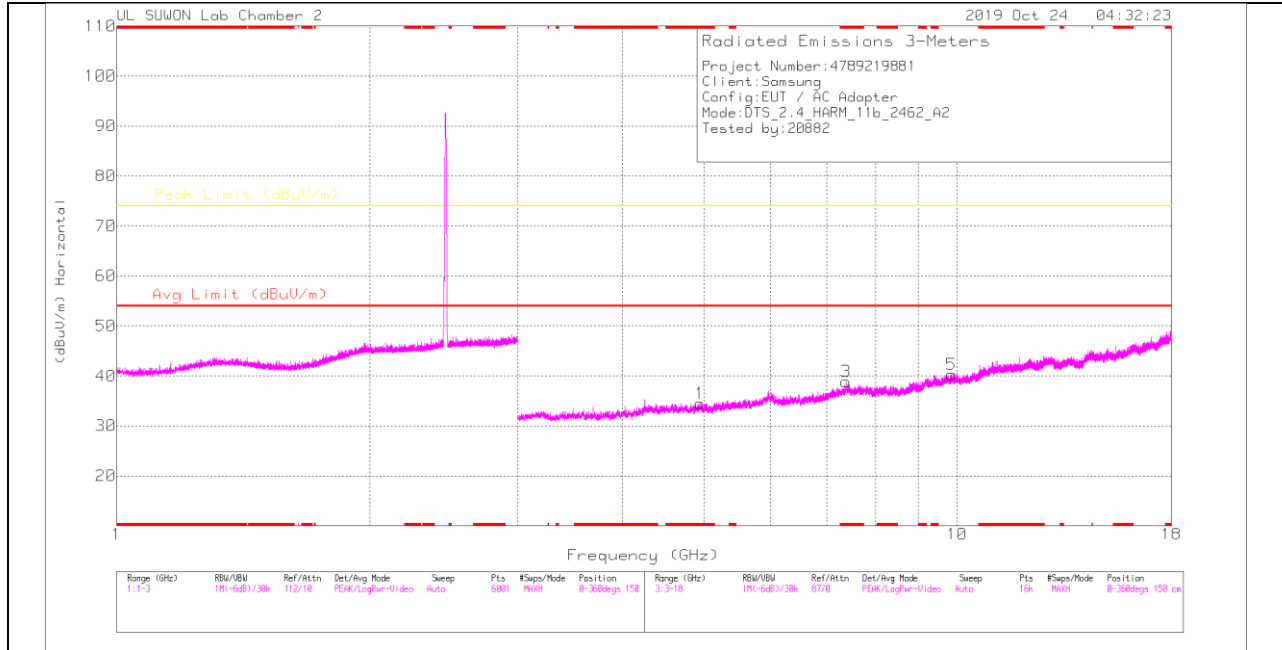
Frequency(G Hz)	MeterReading(dBuV)	Det	3117_00168 724	3GHz_HP[d B]	DC Corr (dB)	CorrectedReading(dBuV/m)	Avg Limit (dBuV/m)	Margin(dB)	Peak Limit (dBuV/m)	Margin(dB)	Azimuth(Deg s)	Height(cm)	Polarity
* 4.87358	36.31	PK2	34	-27.9	0	42.41	-	-	74	-31.59	360	100	H
* 4.87506	36.36	PK2	34	-27.9	0	42.46	-	-	74	-31.54	360	100	V
* 7.3093	43.87	PK2	36.2	-24.9	0	55.17	-	-	74	-18.83	106	127	H
* 7.3101	38.62	MAv1	36.2	-24.9	0	49.92	54	-4.08	-	-	106	127	H
* 7.30966	40.98	PK2	36.2	-24.9	0	52.28	-	-	74	-21.72	95	111	V
* 7.30962	34.81	MAv1	36.2	-24.9	0	46.11	54	-7.89	-	-	95	111	V
9.73731	32.66	PK2	37.2	-21.2	0	48.66	-	-	74	-25.34	360	100	H
9.73558	32.92	PK2	37.2	-21.2	0	48.92	-	-	74	-25.08	360	100	V

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

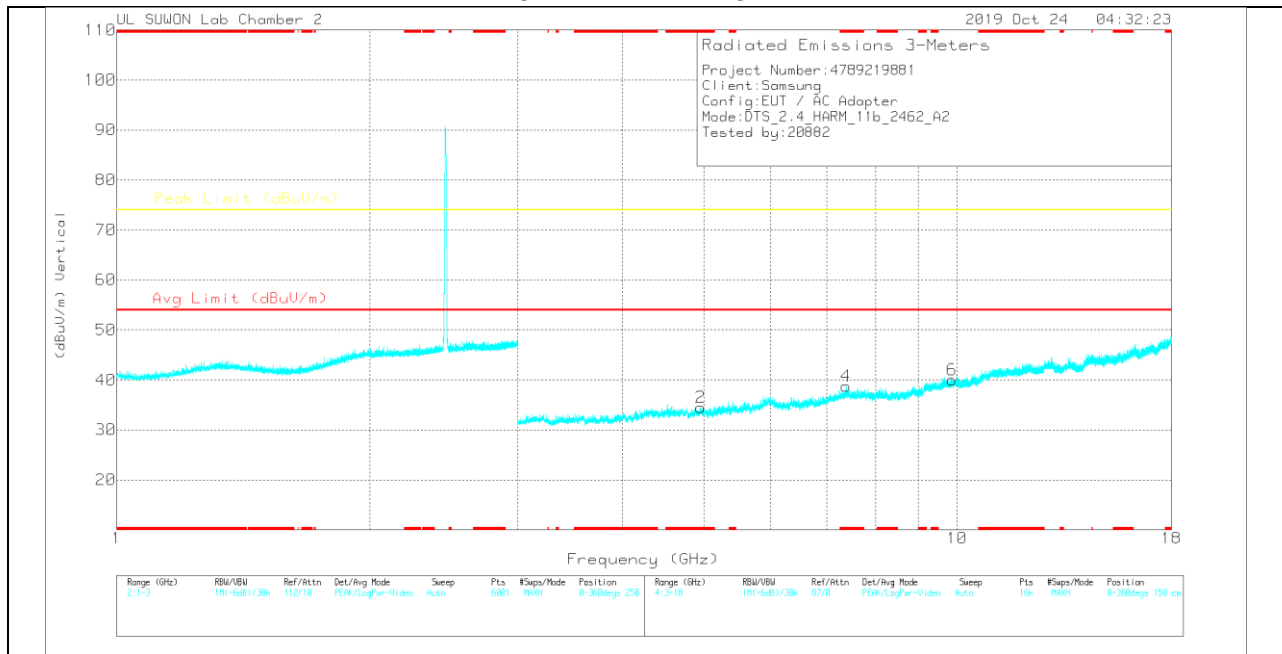
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	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
* 4.95196	35.84	PK2	34.1	-27	0	42.94	-	-	74	-31.06	0	100	H
* 4.95021	36.19	PK2	34.1	-27	0	43.29	-	-	74	-30.71	0	100	V
* 7.37296	34.25	PK2	36.2	-24.2	0	46.25	-	-	74	-27.75	0	100	H
* 7.37902	35.01	PK2	36.2	-24.2	0	47.01	-	-	74	-26.99	0	100	V
9.85765	32.06	PK2	37.4	-21.5	0	47.96	-	-	74	-26.04	0	100	H
9.85732	31.88	PK2	37.4	-21.5	0	47.78	-	-	74	-26.22	0	100	V

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

PK2 - KDB558074 Method: Maximum Peak

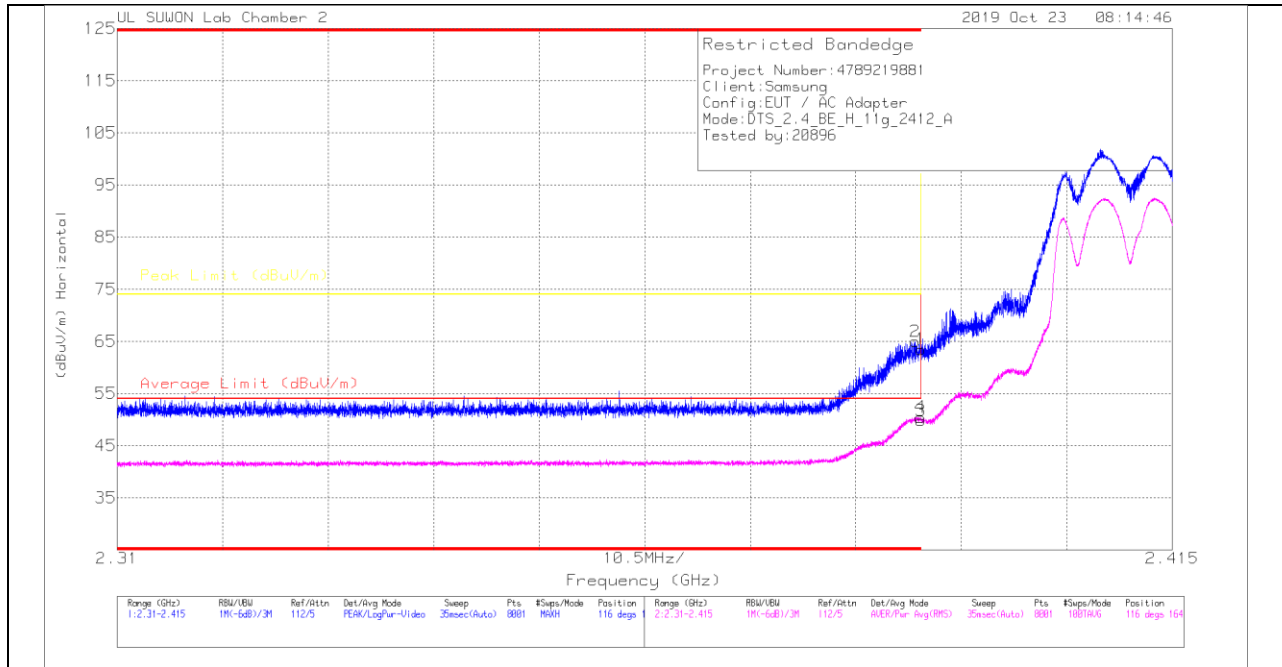
MAV1 - KDB558074 Option 1 Maximum RMS Average

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

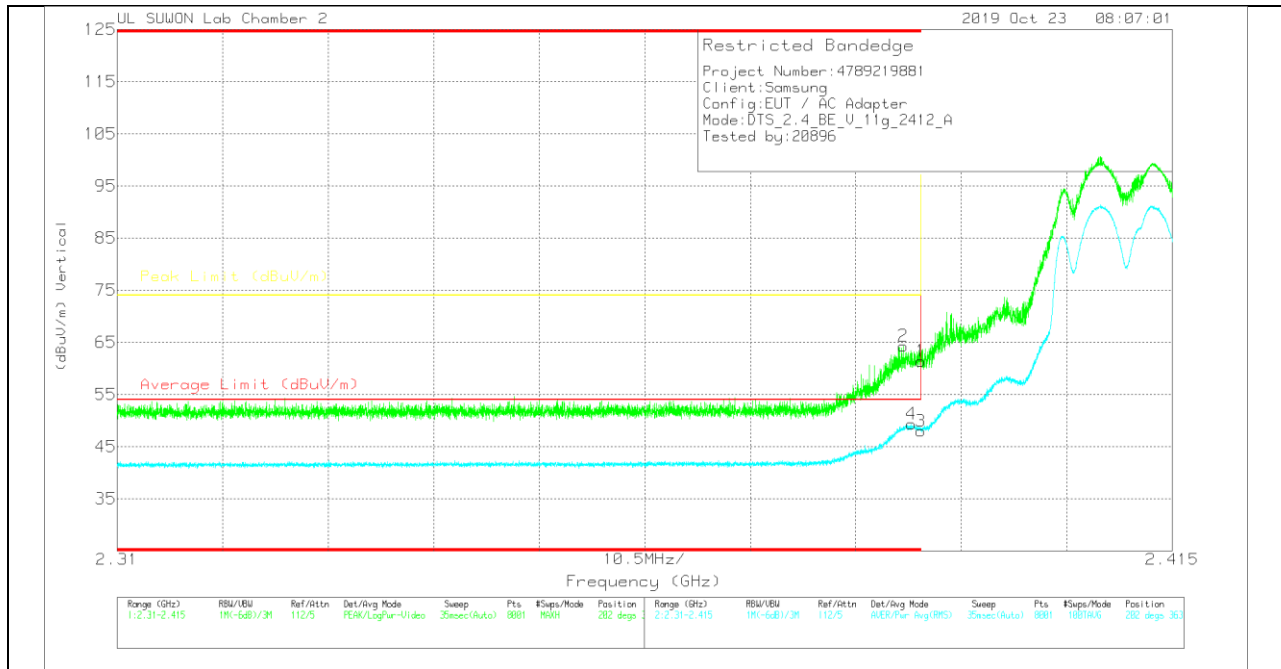
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	52.49	Pk	31.6	-20.6	0	63.49	-	-	74	-10.51	116	164	H
2	* 2.38943	53.99	Pk	31.6	-20.6	0	64.99	-	-	74	-9.01	116	164	H
3	* 2.39	38.79	RMS	31.6	-20.6	0	49.79	54	-4.21	-	-	116	164	H
4	* 2.38994	39.46	RMS	31.6	-20.6	0	50.46	54	-3.54	-	-	116	164	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_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	50.42	Pk	31.6	-20.6	0	61.42	-	-	74	-12.58	202	363	V
2	* 2.38823	53.3	Pk	31.6	-20.6	0	64.3	-	-	74	-9.7	202	363	V
3	* 2.39	36.99	RMS	31.6	-20.6	0	47.99	54	-6.01	-	-	202	363	V
4	* 2.38903	38.37	RMS	31.6	-20.6	0	49.37	54	-4.63	-	-	202	363	V

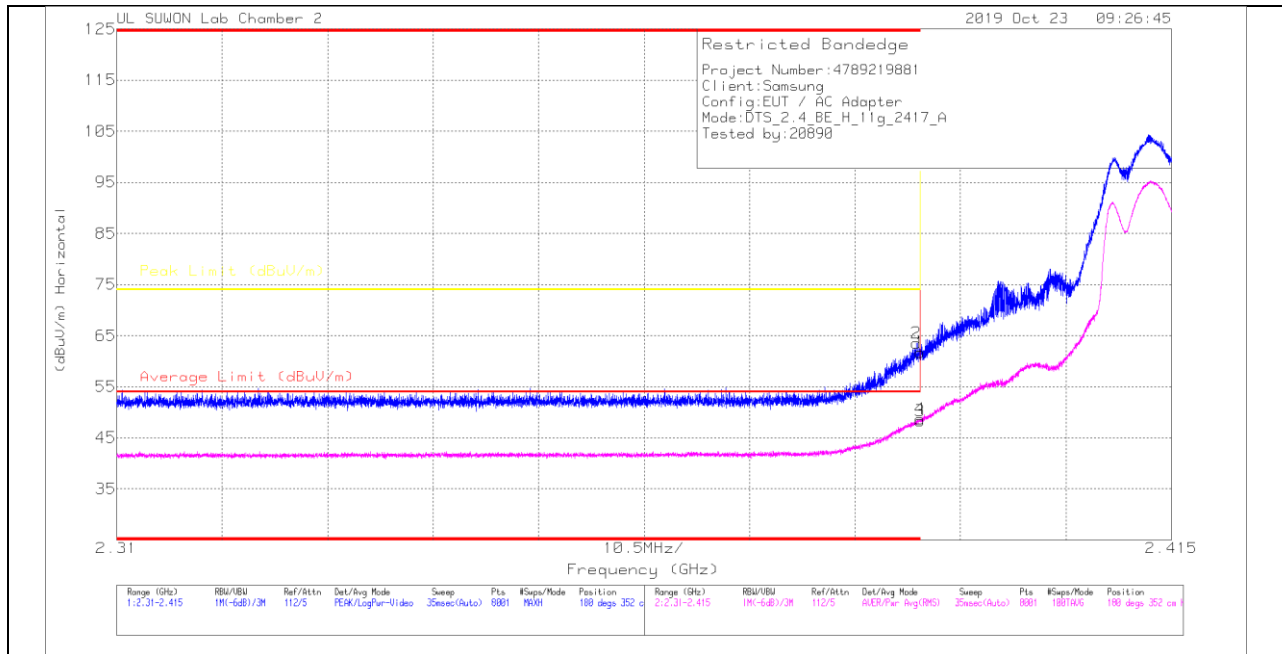
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (2 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

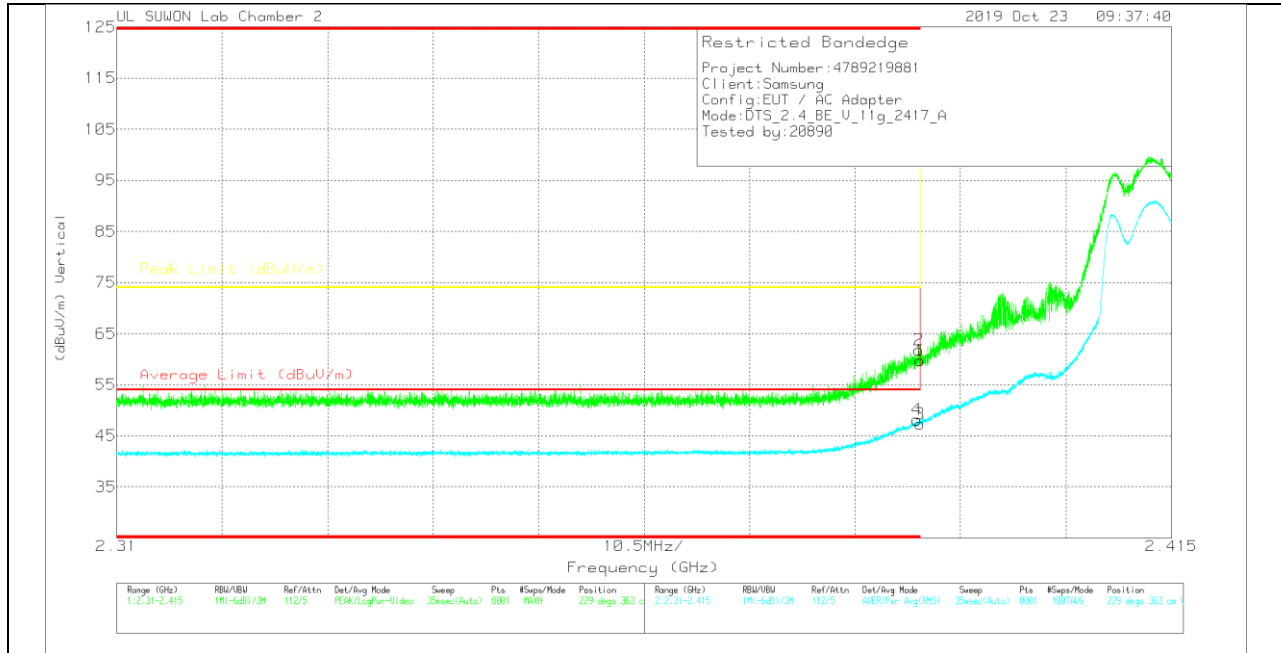
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	50.65	Pk	31.6	-20.6	0	61.65	-	-	74	-12.35	180	352	H
2	* 2.3896	52.57	Pk	31.6	-20.6	0	63.57	-	-	74	-10.43	180	352	H
3	* 2.39	37.27	RMS	31.6	-20.6	0	48.27	54	-5.73	-	-	180	352	H
4	* 2.38998	37.64	RMS	31.6	-20.6	0	48.64	54	-5.36	-	-	180	352	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)	Marker Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.76	Pk	31.6	-20.6	0	59.76	-	-	74	-14.24	229	363	V
2	* 2.38984	50.81	Pk	31.6	-20.6	0	61.01	-	-	74	-12.19	229	363	V
3	* 2.39	36.36	RMS	31.6	-20.6	0	47.36	54	-6.64	-	-	229	363	V
4	* 2.38966	37.13	RMS	31.6	-20.6	0	48.13	54	-5.87	-	-	229	363	V

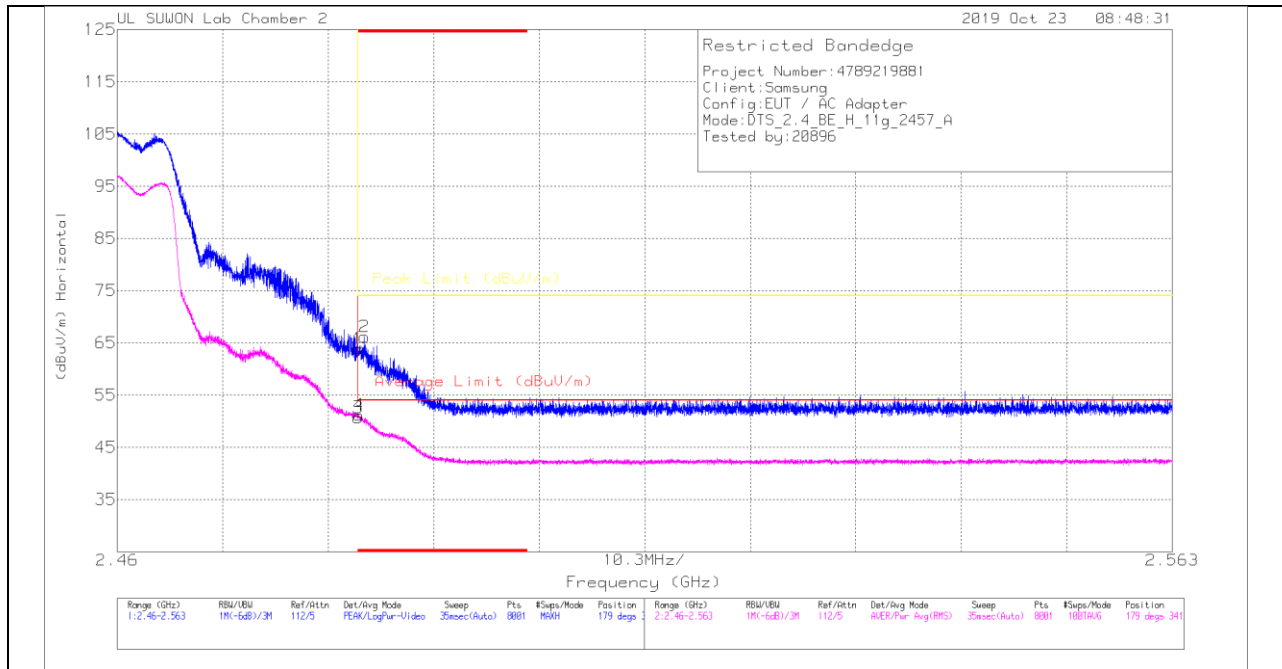
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (10 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

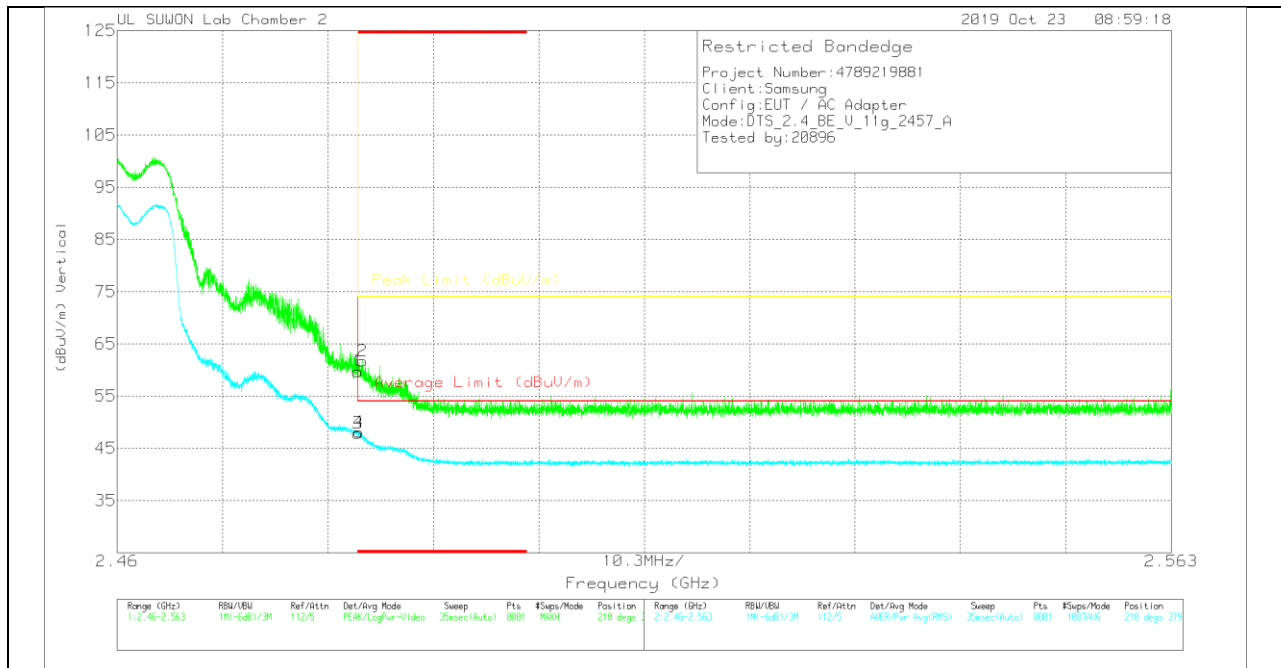
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.48351	52.4	Pk	31.9	-20.4	0	63.9	-	-	74	-10.1	179	341	H
2	* 2.48413	54.66	Pk	31.9	-20.4	0	66.16	-	-	74	-7.84	179	341	H
3	* 2.48351	39.19	RMS	31.9	-20.4	0	50.69	54	-3.31	-	-	179	341	H
4	* 2.48363	39.65	RMS	31.9	-20.4	0	51.15	54	-2.85	-	-	179	341	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_50168724	10dB_ATT[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	48.26	PK	31.9	-20.4	0	59.76	-	-	74	-14.24	218	379	V
2	* 2.48359	50.22	PK	31.9	-20.4	0	61.72	-	-	74	-12.28	218	379	V
3	* 2.48351	36.4	RMS	31.9	-20.4	0	47.9	54	-6.1	-	-	218	379	V
4	* 2.48359	36.61	RMS	31.9	-20.4	0	48.11	54	-5.89	-	-	218	379	V

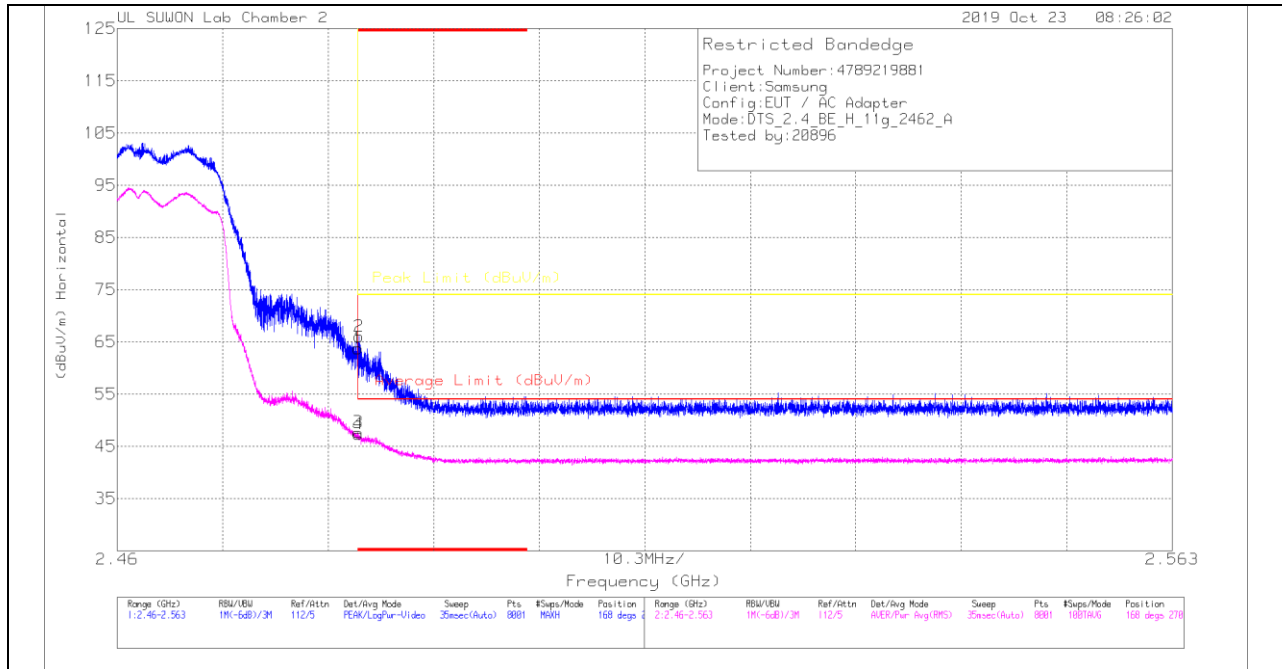
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

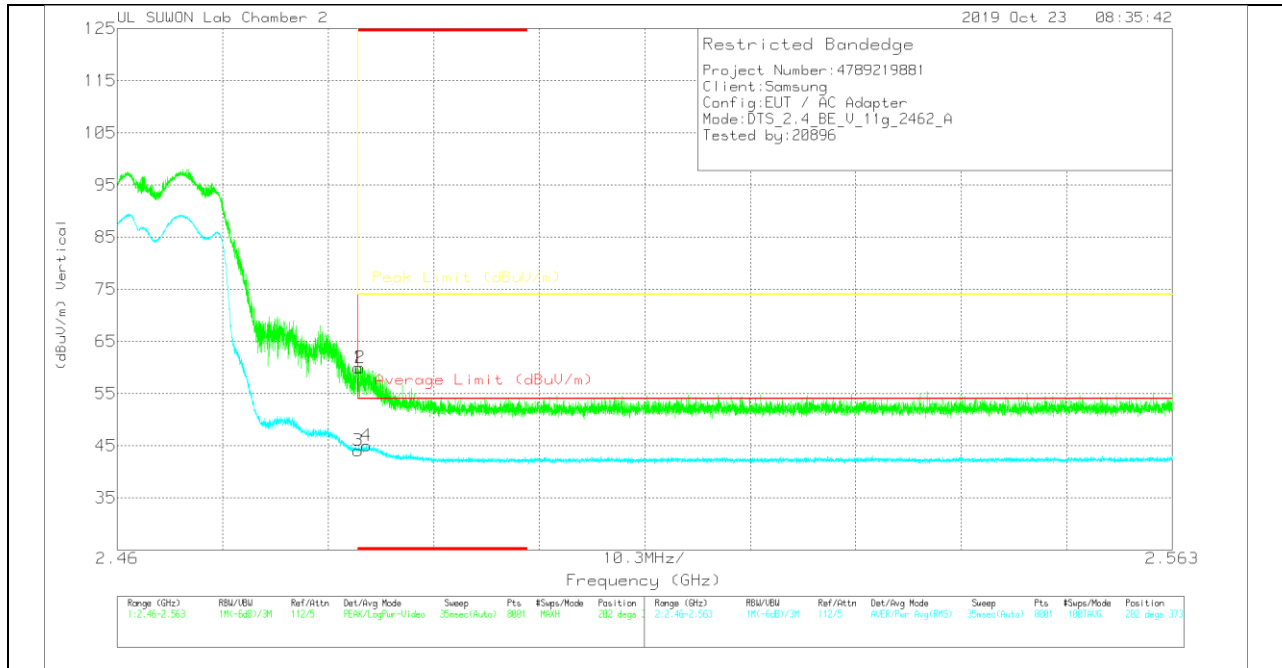
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.48351	52.26	Pk	31.9	-20.4	0	63.76	-	-	74	-10.24	168	270	H
2	* 2.48351	54.55	Pk	31.9	-20.4	0	66.05	-	-	74	-7.95	168	270	H
3	* 2.48351	36.17	RMS	31.9	-20.4	0	47.67	54	-6.33	-	-	168	270	H
4	* 2.48355	35.84	RMS	31.9	-20.4	0	47.34	54	-6.66	-	-	168	270	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_50168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (m)	Height (m)	Polarity
1	* 2.48351	48.45	PK	31.9	-20.4	0	59.95	-	-	74	-14.05	202	373	V
2	* 2.48379	48.49	PK	31.9	-20.4	0	59.98	-	-	74	-14.02	202	373	V
3	* 2.48351	32.6	RMS	31.9	-20.4	0	44.1	54	-9.9	-	-	202	373	V
4	* 2.48433	33.54	RMS	31.9	-20.4	0	45.04	54	-8.96	-	-	202	373	V

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

PK - Peak detector

RMS - RMS detection