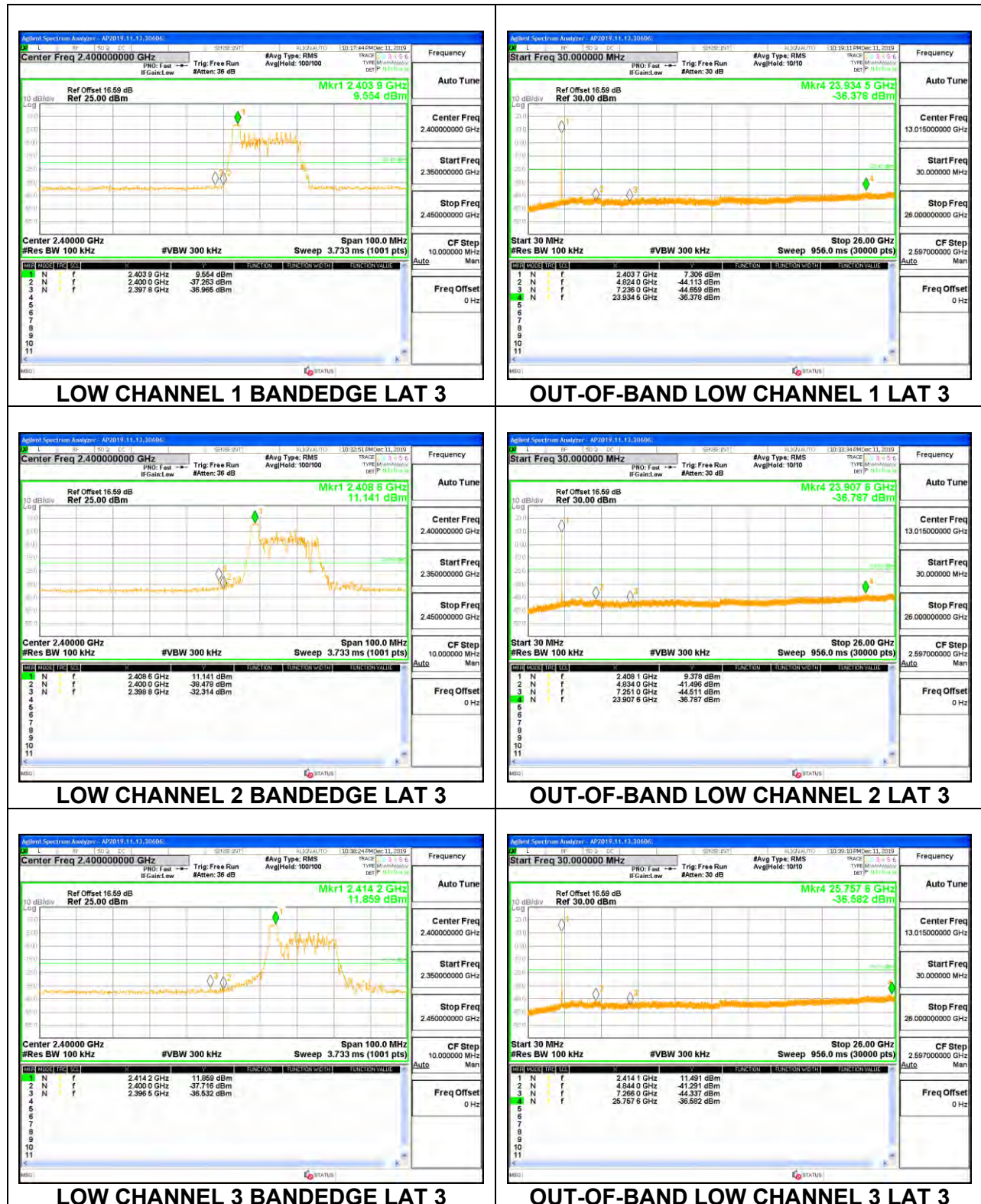
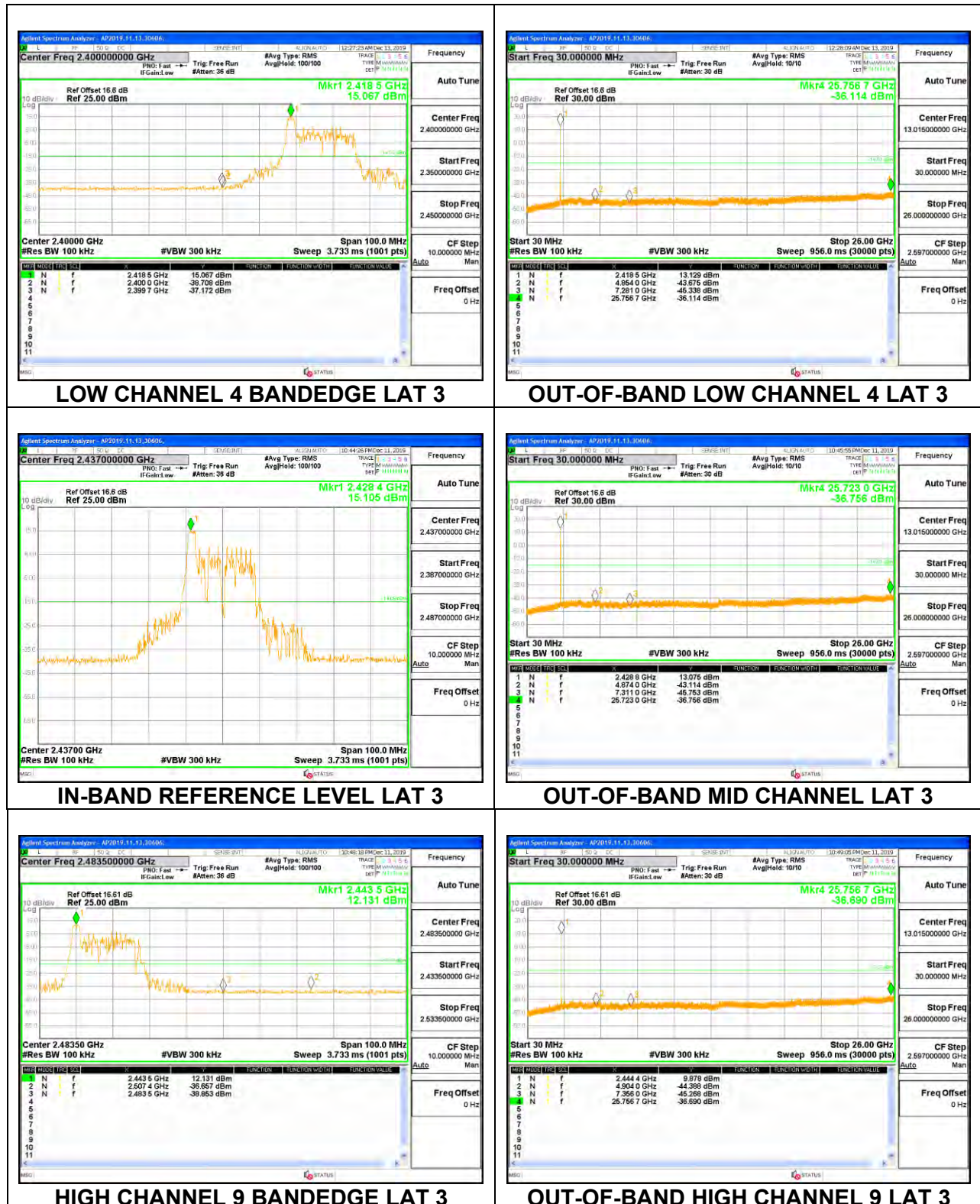




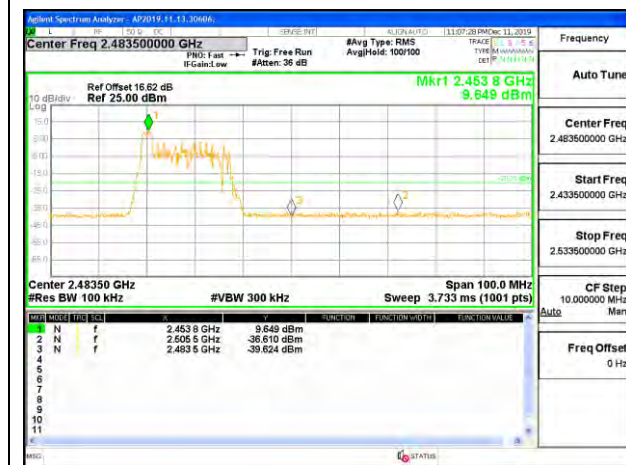




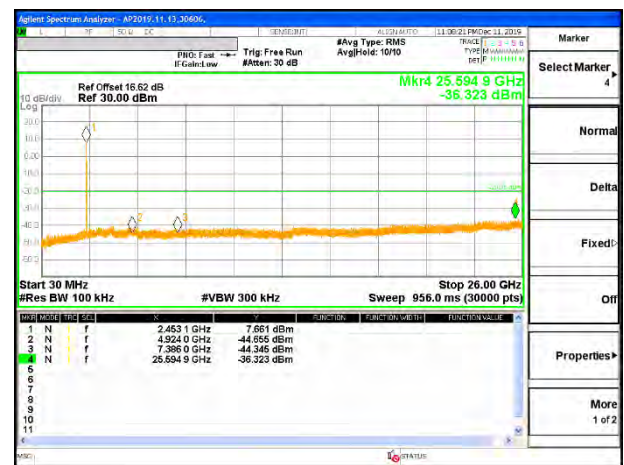
HIGH CHANNEL 10 BANDEDGE LAT 3



OUT-OF-BAND HIGH CHANNEL 10 LAT 3



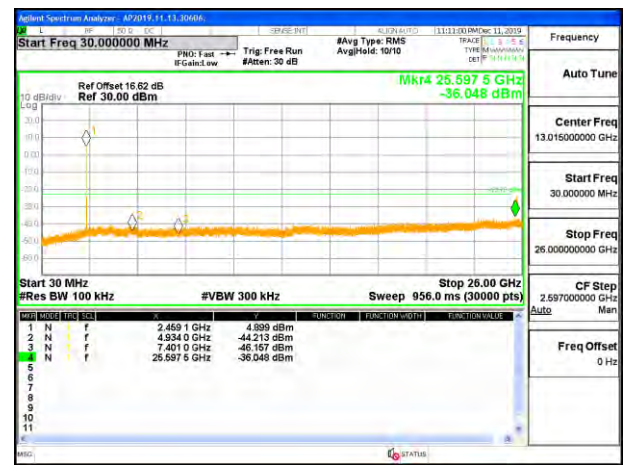
HIGH CHANNEL 11 BANDEDGE LAT 3



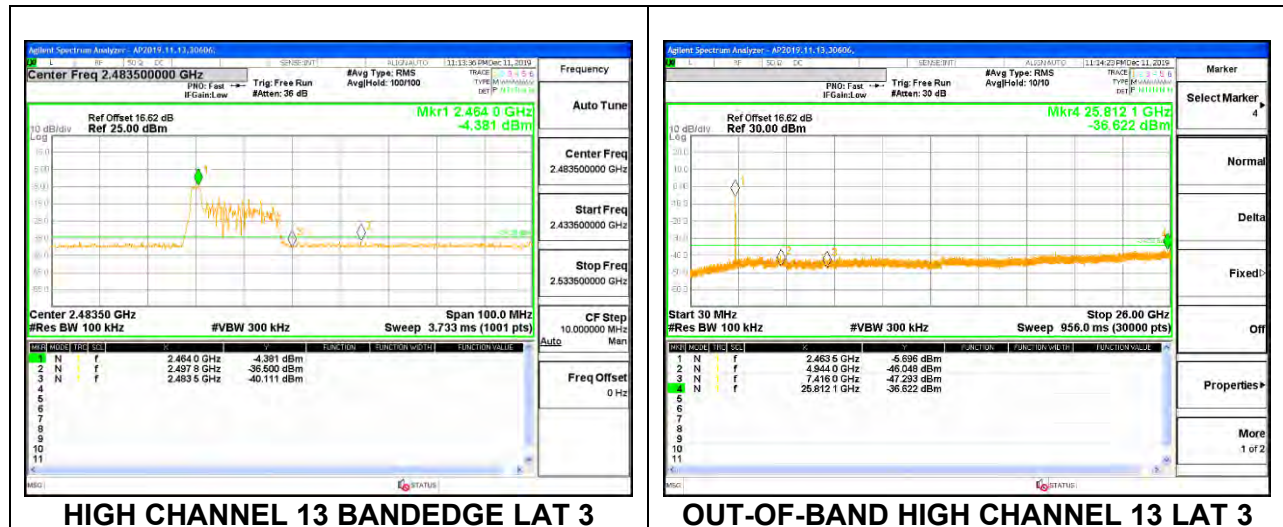
OUT-OF-BAND HIGH CHANNEL 11 LAT 3



HIGH CHANNEL 12 BANDEDGE LAT 3



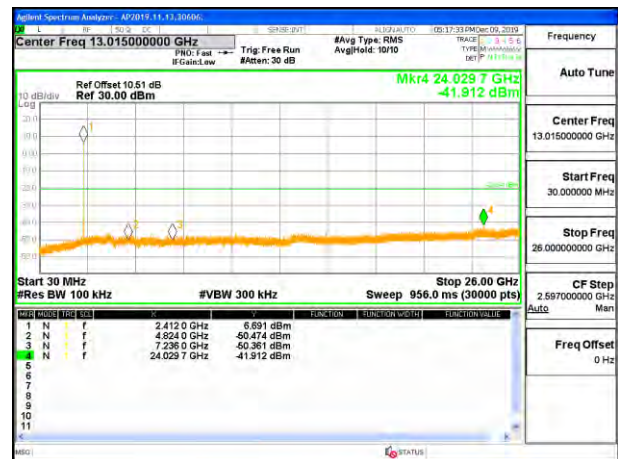
OUT-OF-BAND HIGH CHANNEL 12 LAT 3



UAT 1 + LAT 3 2TX MODE: 26-Tones, RU Index 4



LOW CHANNEL 1 BANDEDGE UAT 1



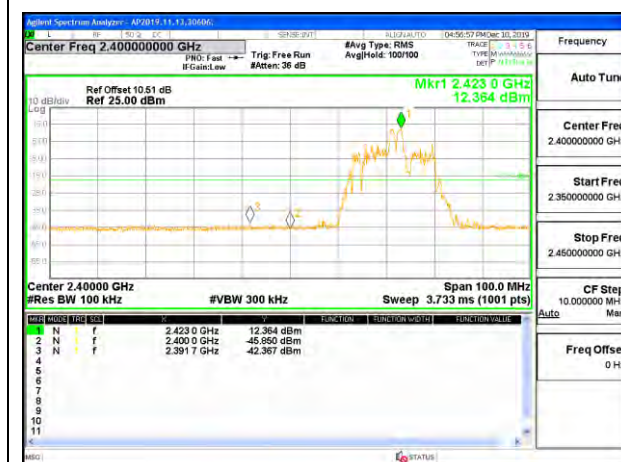
OUT-OF-BAND LOW CHANNEL 1 UAT 1



LOW CHANNEL 2 BANDEDGE UAT 1



OUT-OF-BAND LOW CHANNEL 2 UAT 1



LOW CHANNEL 3 BANDEDGE UAT 1



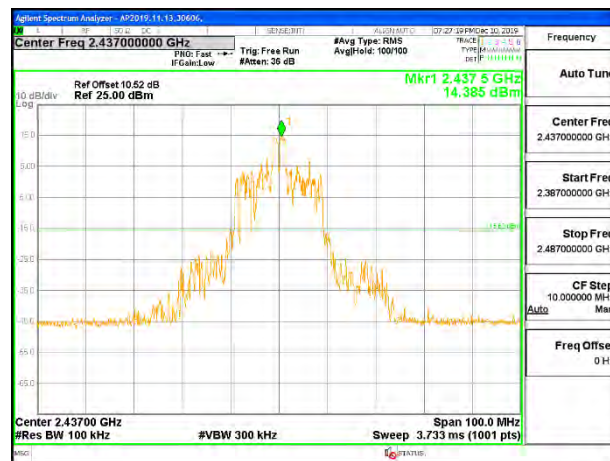
OUT-OF-BAND LOW CHANNEL 3 UAT 1



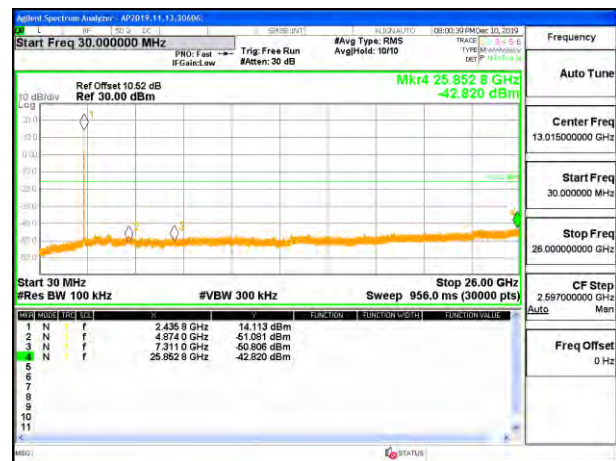
LOW CHANNEL 4 BANDEDGE UAT 1



OUT-OF-BAND LOW CHANNEL 4 UAT 1



IN-BAND REFERENCE LEVEL UAT 1



OUT-OF-BAND MID CHANNEL UAT 1



HIGH CHANNEL 9 BANDEDGE UAT 1



OUT-OF-BAND HIGH CHANNEL 9 UAT 1



HIGH CHANNEL 10 BANDEDGE UAT 1



OUT-OF-BAND HIGH CHANNEL 10 UAT 1



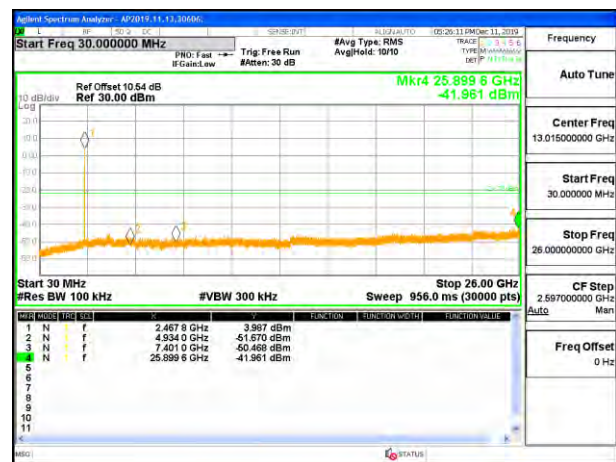
HIGH CHANNEL 11 BANDEDGE UAT 1



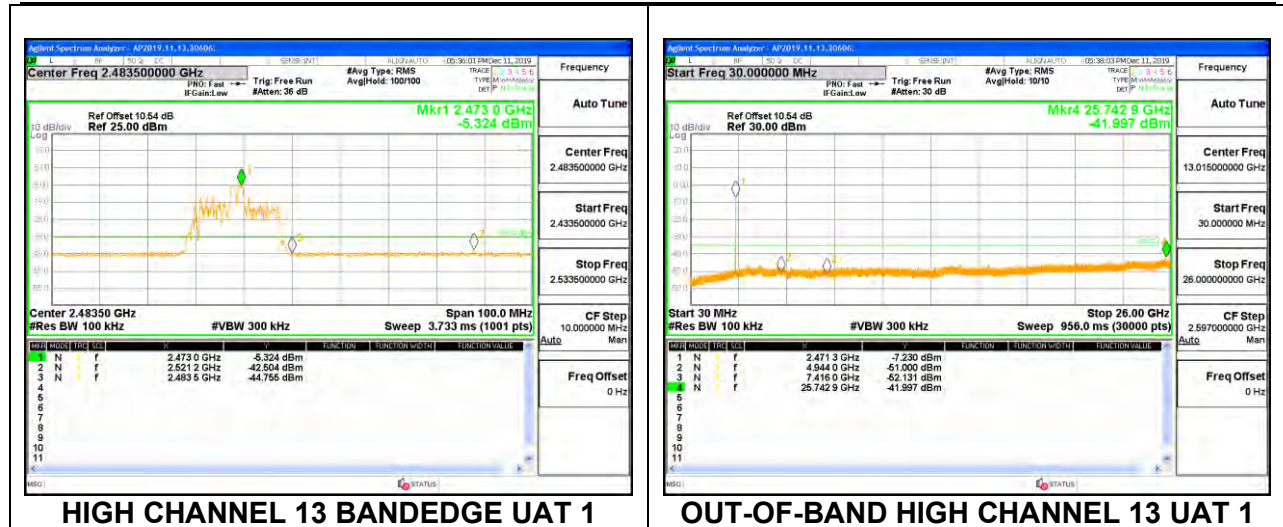
OUT-OF-BAND HIGH CHANNEL 11 UAT 1



HIGH CHANNEL 12 BANDEDGE UAT 1



OUT-OF-BAND HIGH CHANNEL 12 UAT 1





LOW CHANNEL 1 BANDEDGE LAT 3



OUT-OF-BAND LOW CHANNEL 1 LAT 3



LOW CHANNEL 2 BANDEDGE LAT 3



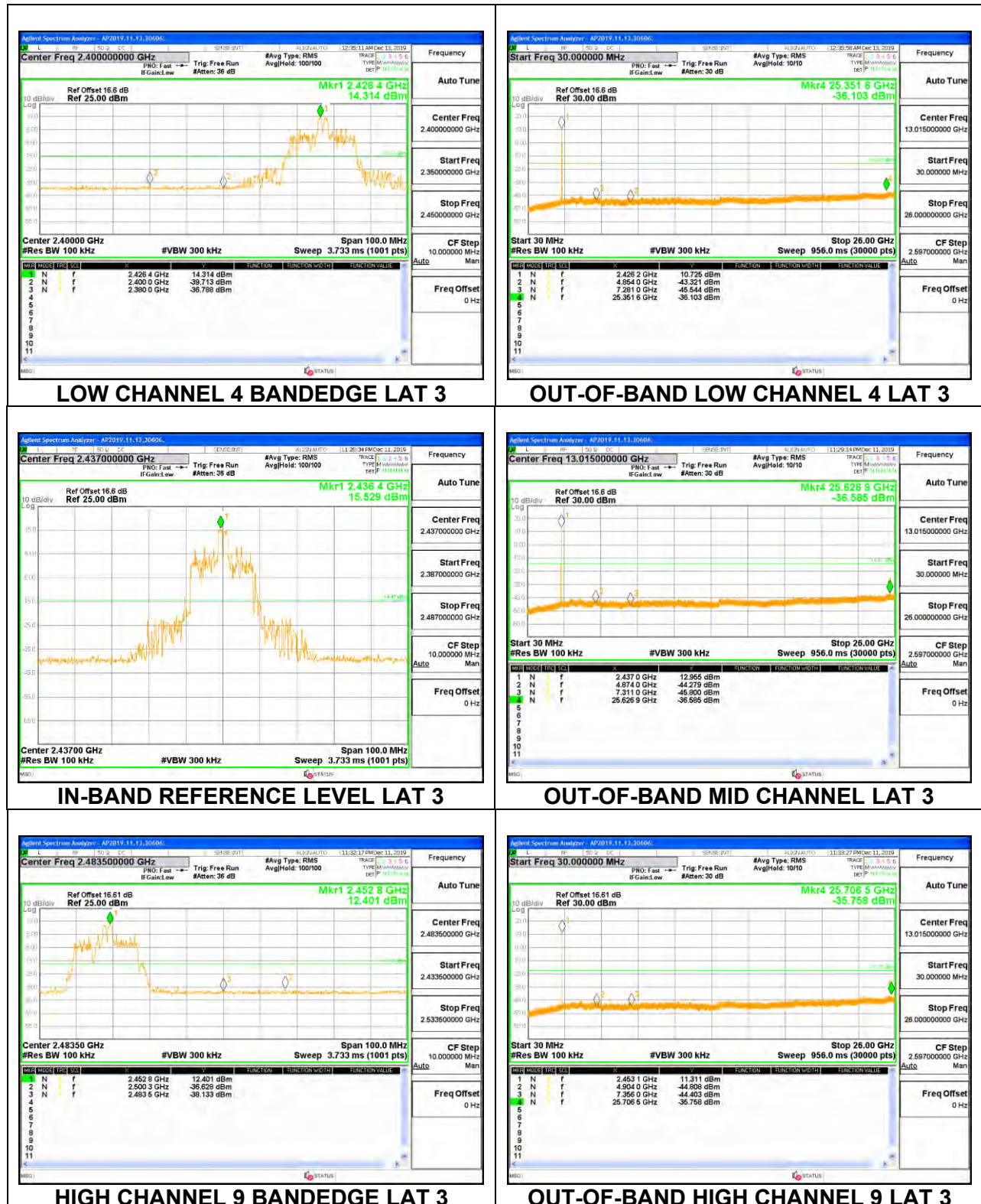
OUT-OF-BAND LOW CHANNEL 2 LAT 3

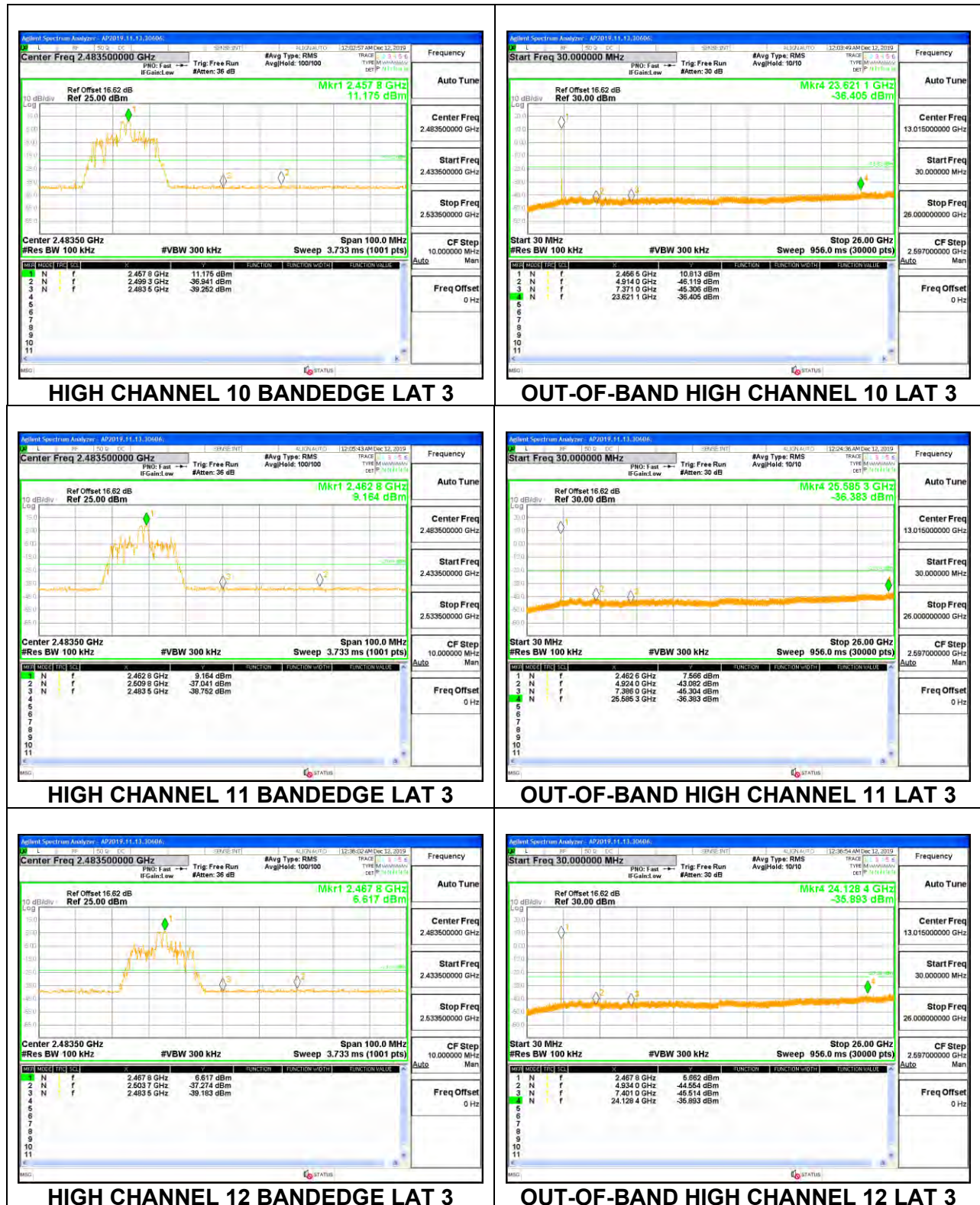


LOW CHANNEL 3 BANDEDGE LAT 3



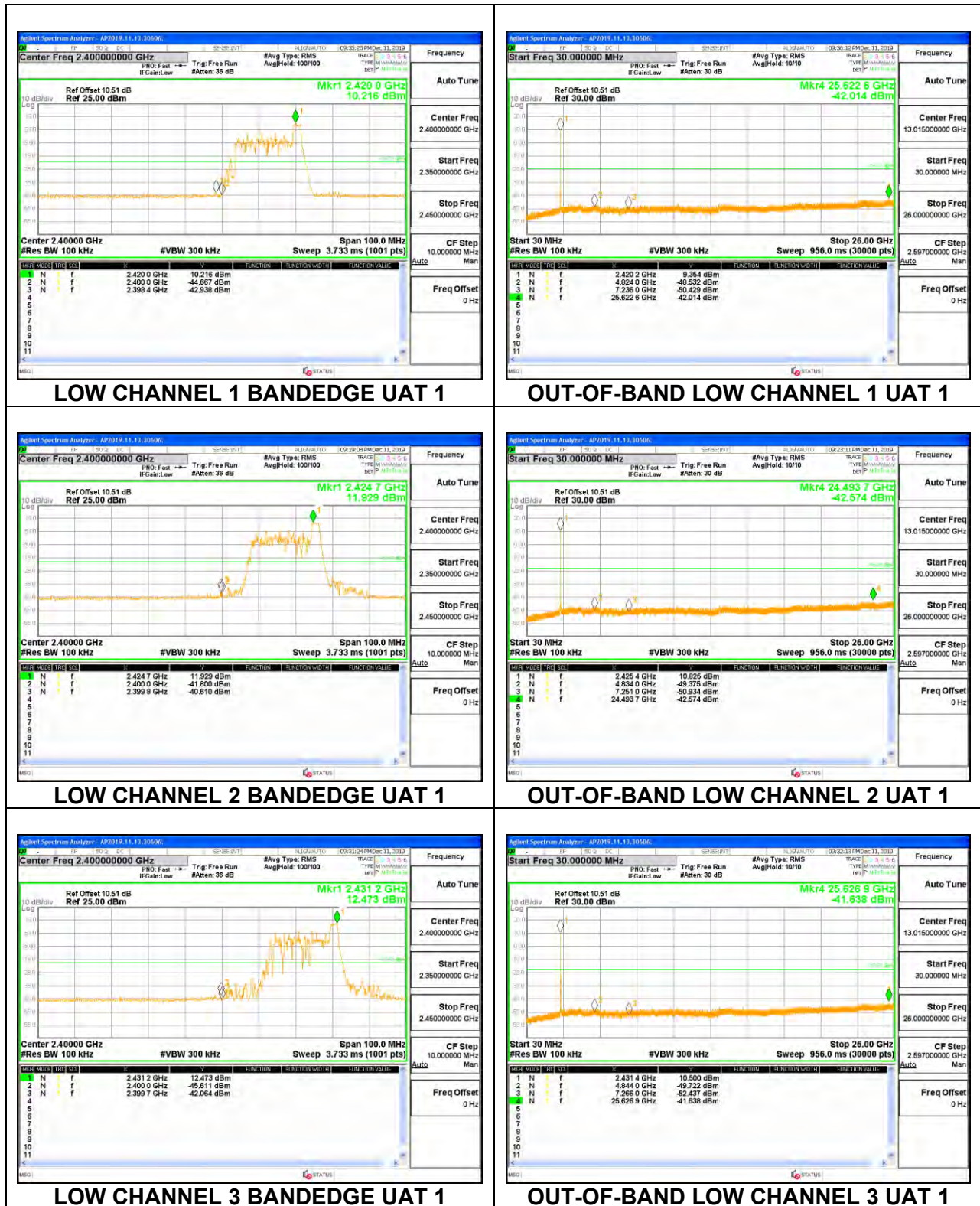
OUT-OF-BAND LOW CHANNEL 3 LAT 3

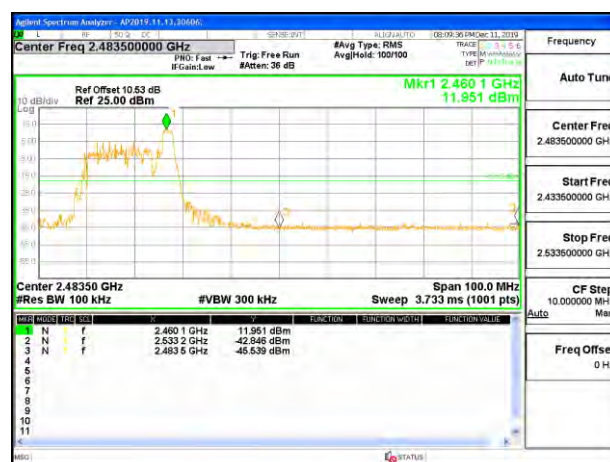
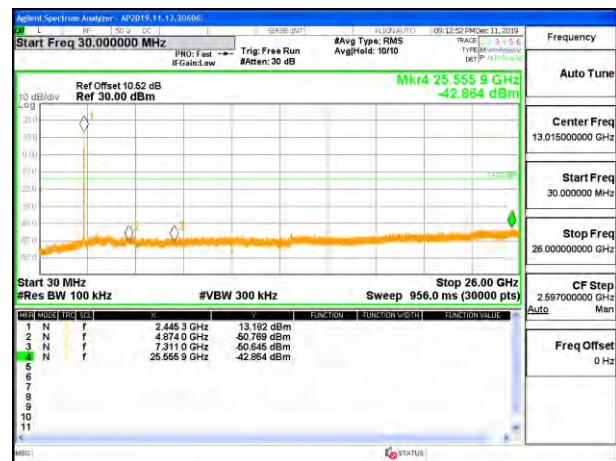
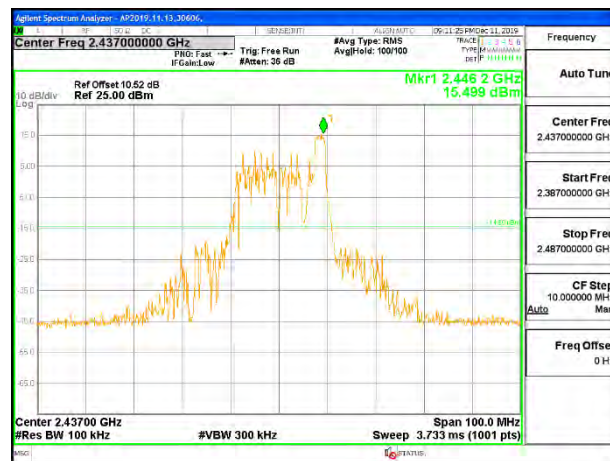
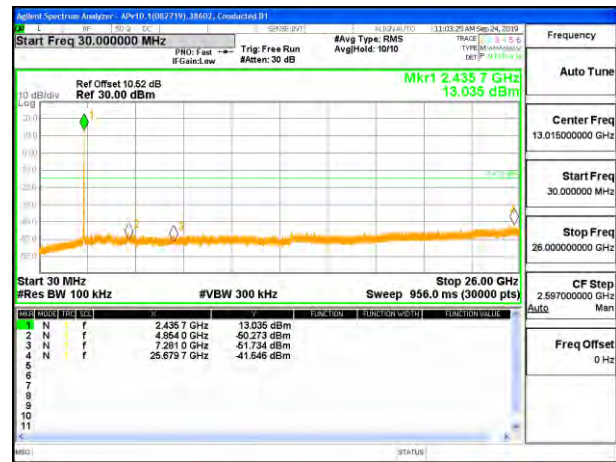


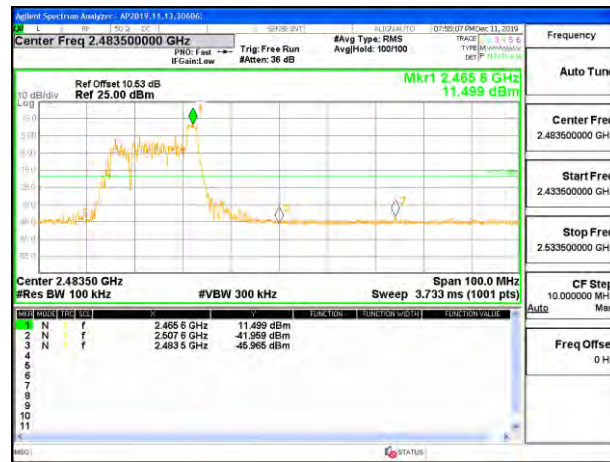




UAT 1 + LAT 3 2TX MODE: 26-Tones, RU Index 8



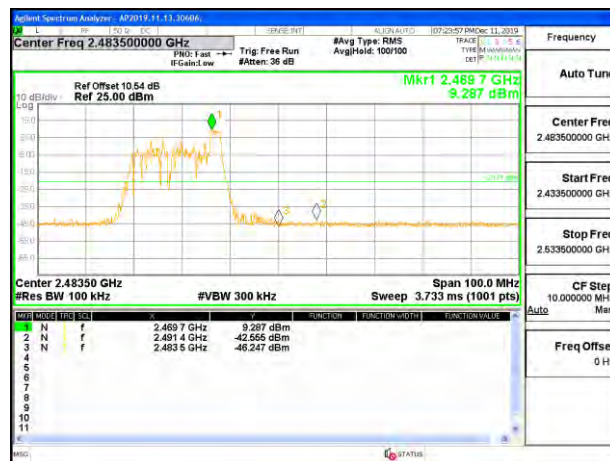




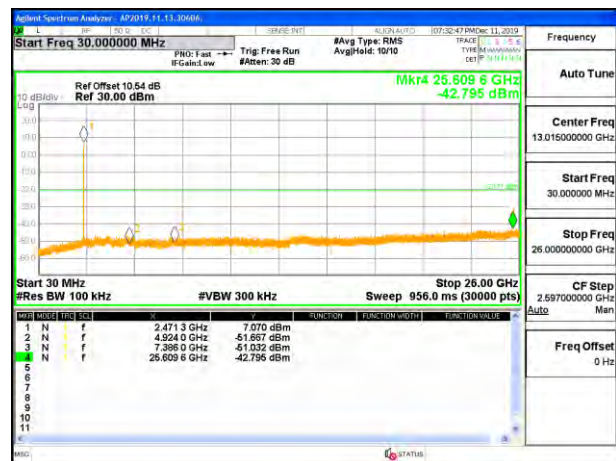
HIGH CHANNEL 10 BANDEDGE UAT 1



OUT-OF-BAND HIGH CHANNEL 10 UAT 1



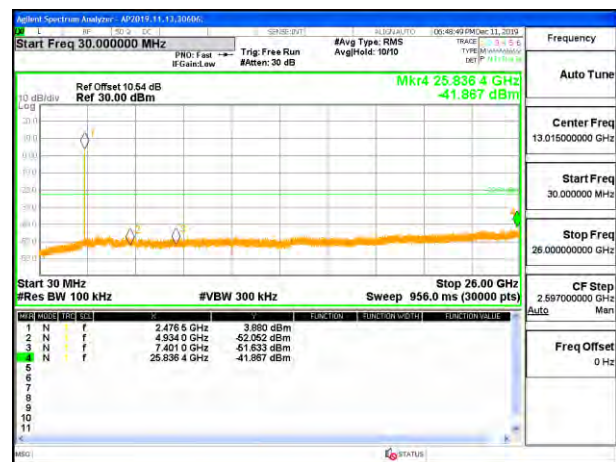
HIGH CHANNEL 11 BANDEDGE UAT 1



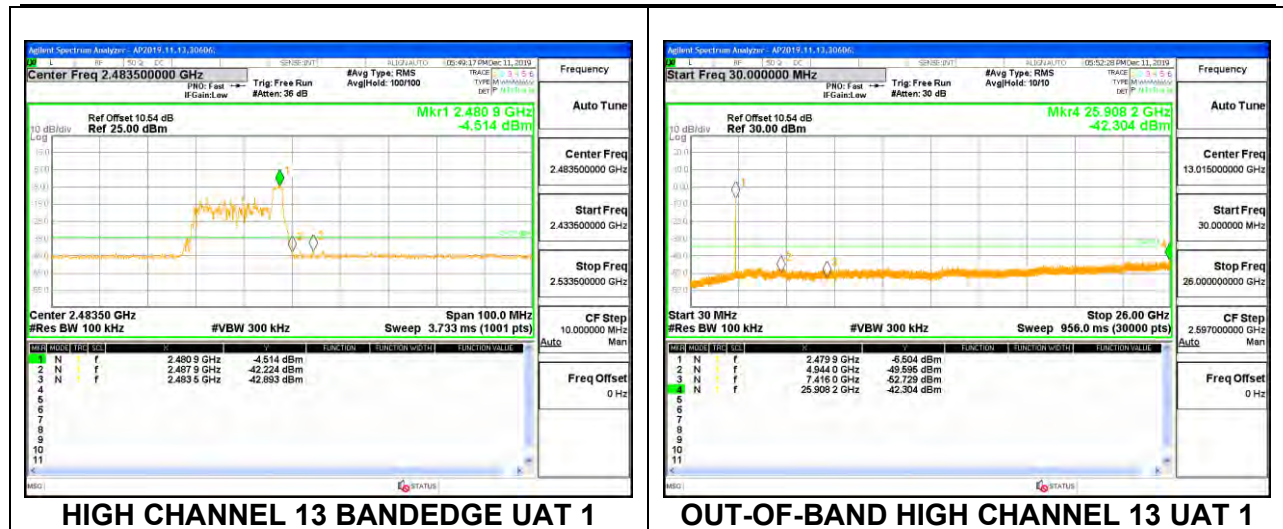
OUT-OF-BAND HIGH CHANNEL 11 UAT 1



HIGH CHANNEL 12 BANDEDGE UAT 1



OUT-OF-BAND HIGH CHANNEL 12 UAT 1





LOW CHANNEL 1 BANDEDGE LAT 3



OUT-OF-BAND LOW CHANNEL 1 LAT 3



LOW CHANNEL 2 BANDEDGE LAT 3



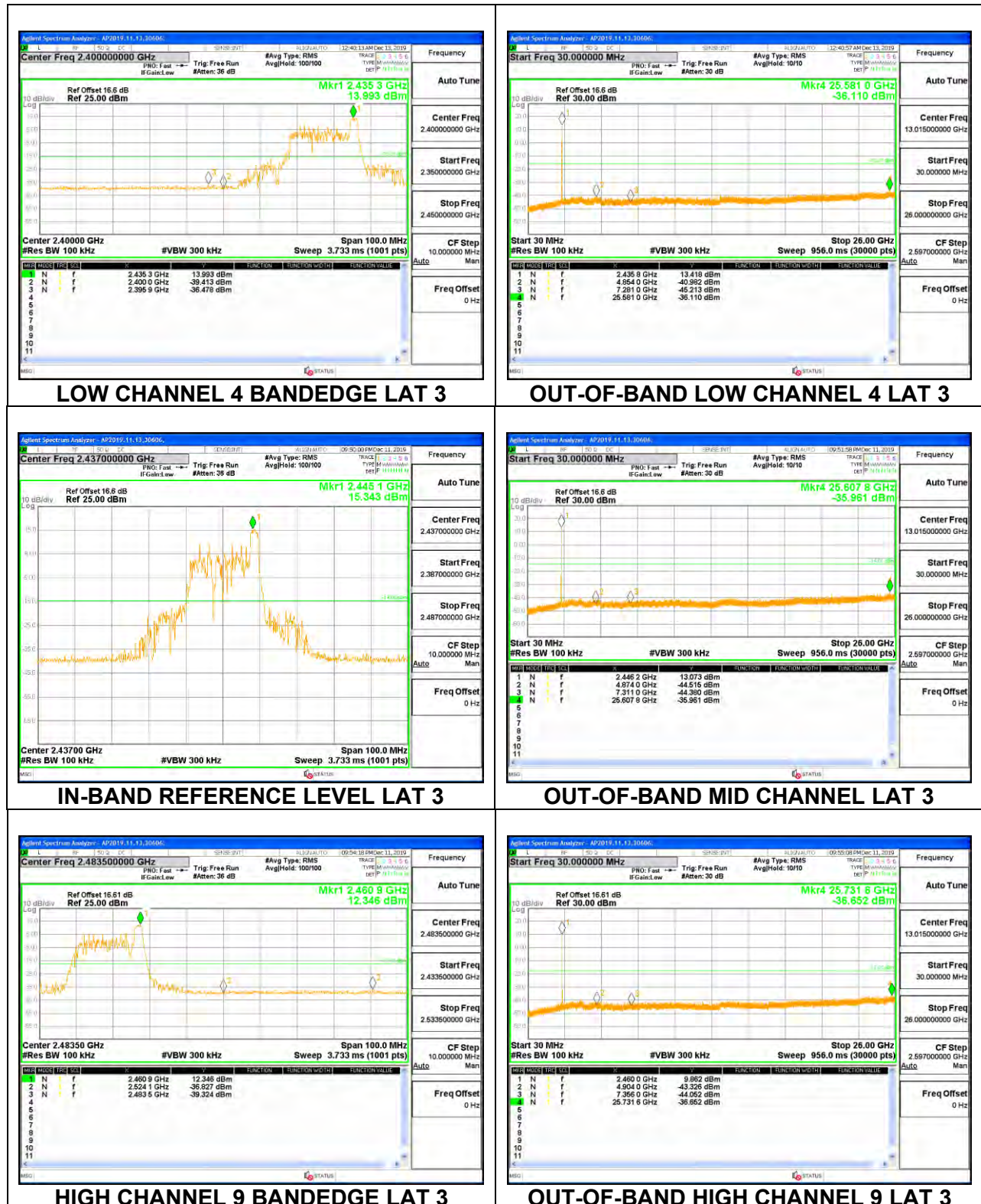
OUT-OF-BAND LOW CHANNEL 2 LAT 3



LOW CHANNEL 3 BANDEDGE LAT 3



OUT-OF-BAND LOW CHANNEL 3 LAT 3





HIGH CHANNEL 10 BANDEDGE LAT 3



OUT-OF-BAND HIGH CHANNEL 10 LAT 3



HIGH CHANNEL 11 BANDEDGE LAT 3



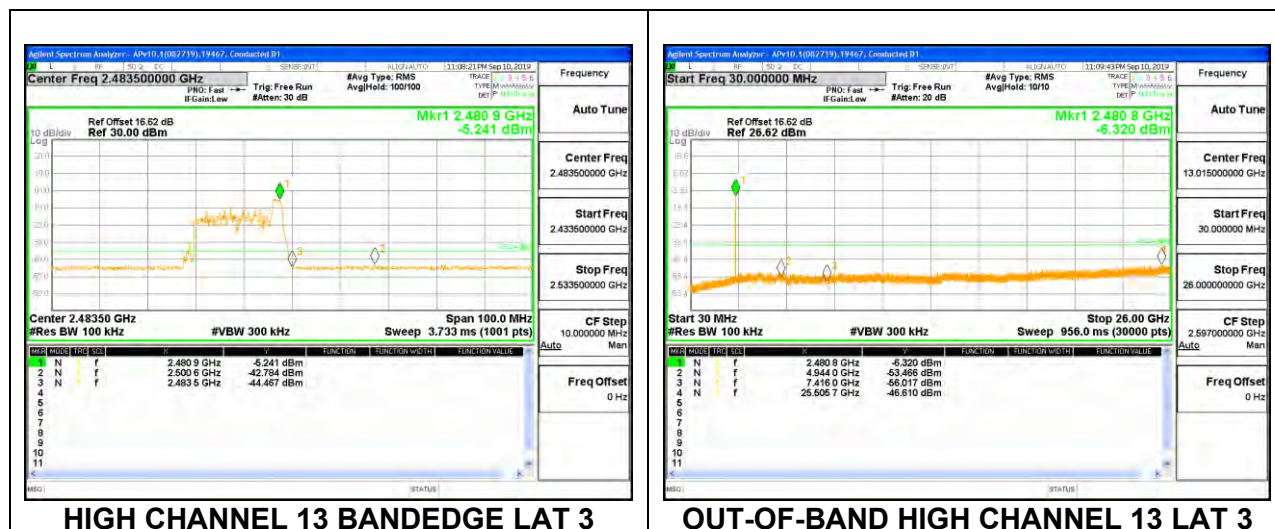
OUT-OF-BAND HIGH CHANNEL 11 LAT 3



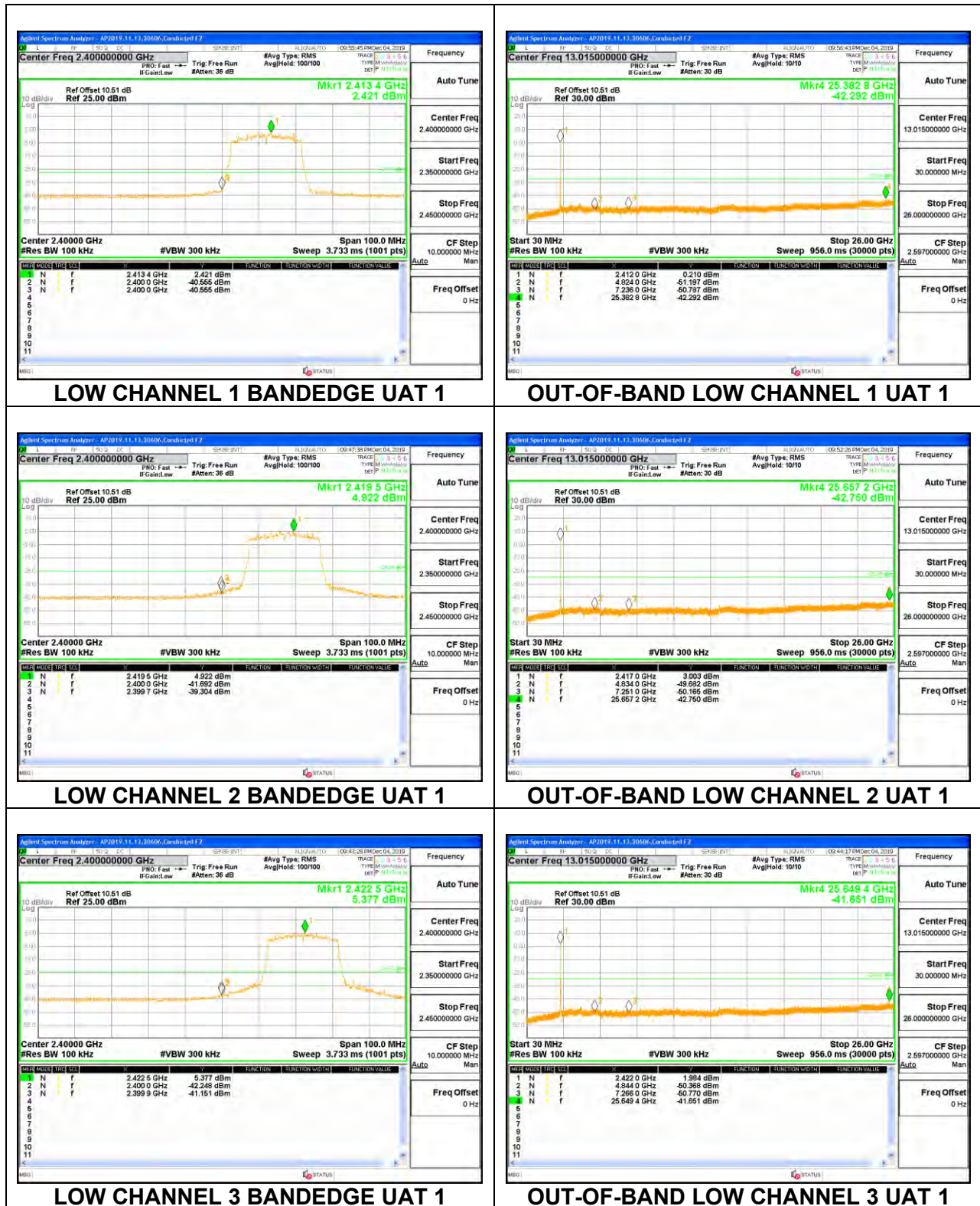
HIGH CHANNEL 12 BANDEDGE LAT 3

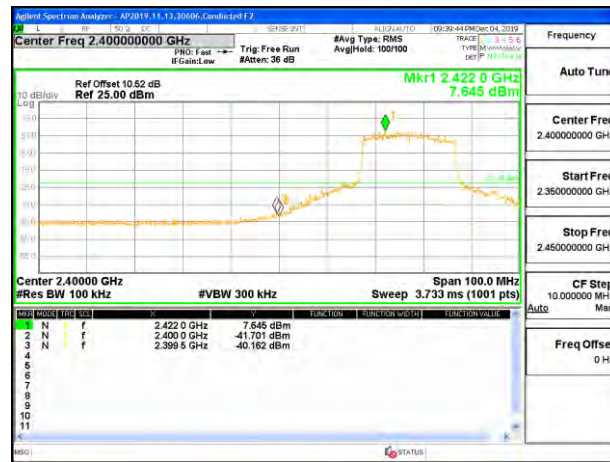


OUT-OF-BAND HIGH CHANNEL 12 LAT 3



UAT 1 + LAT 3 2TX MODE: 242-Tones, RU Index 61

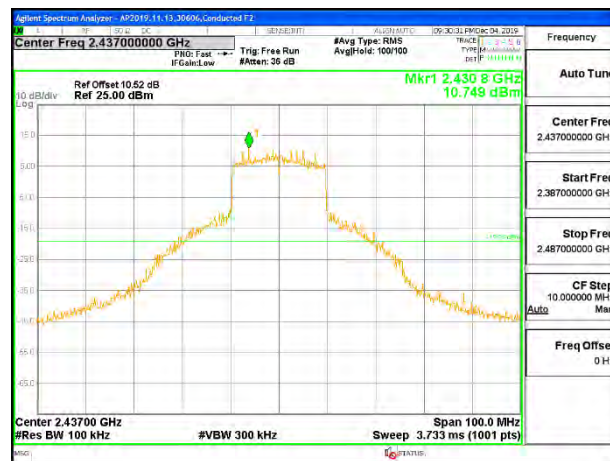




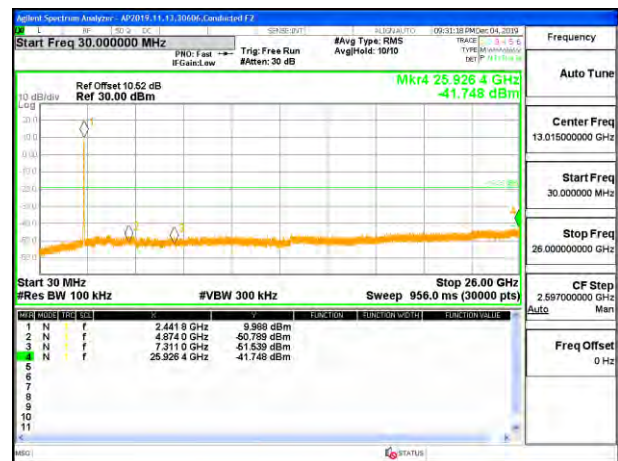
LOW CHANNEL 4 BANDEDGE UAT 1



OUT-OF-BAND LOW CHANNEL 4 UAT 1



IN-BAND REFERENCE LEVEL UAT 1



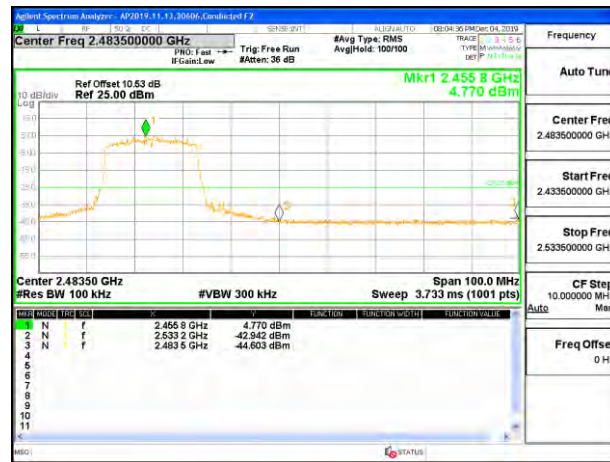
OUT-OF-BAND MID CHANNEL UAT 1



HIGH CHANNEL 9 BANDEDGE UAT 1



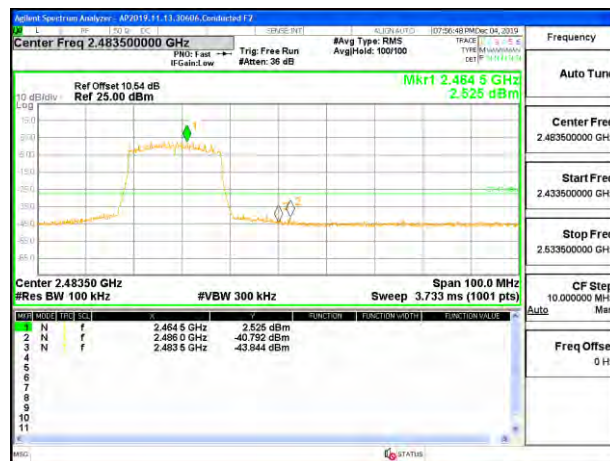
OUT-OF-BAND HIGH CHANNEL 9 UAT 1



HIGH CHANNEL 10 BANDEDGE UAT 1



OUT-OF-BAND HIGH CHANNEL 10 UAT 1



HIGH CHANNEL 11 BANDEDGE UAT 1



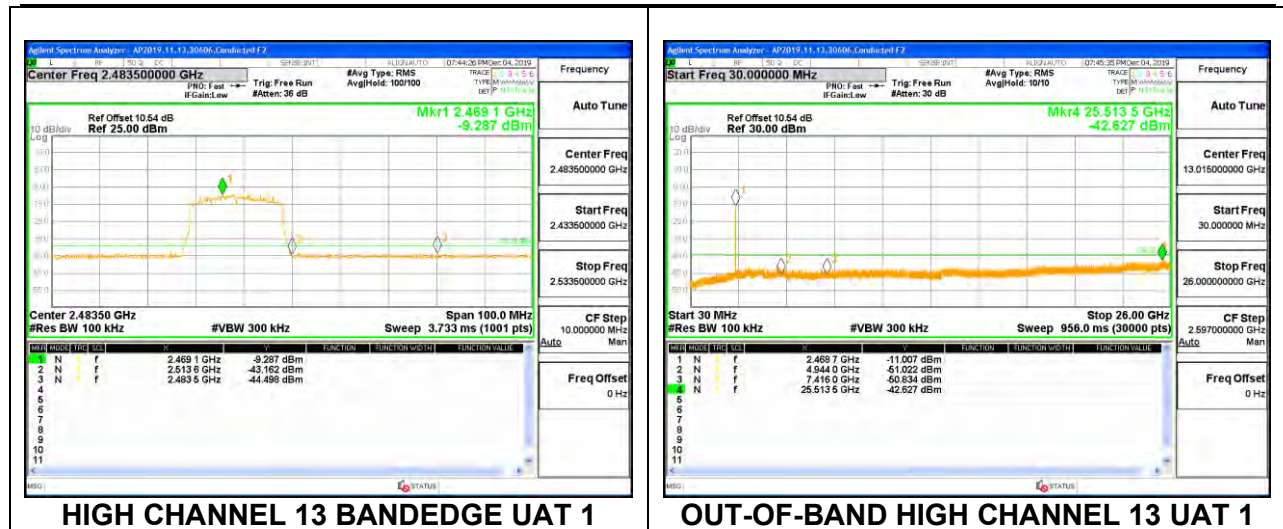
OUT-OF-BAND HIGH CHANNEL 11 UAT 1

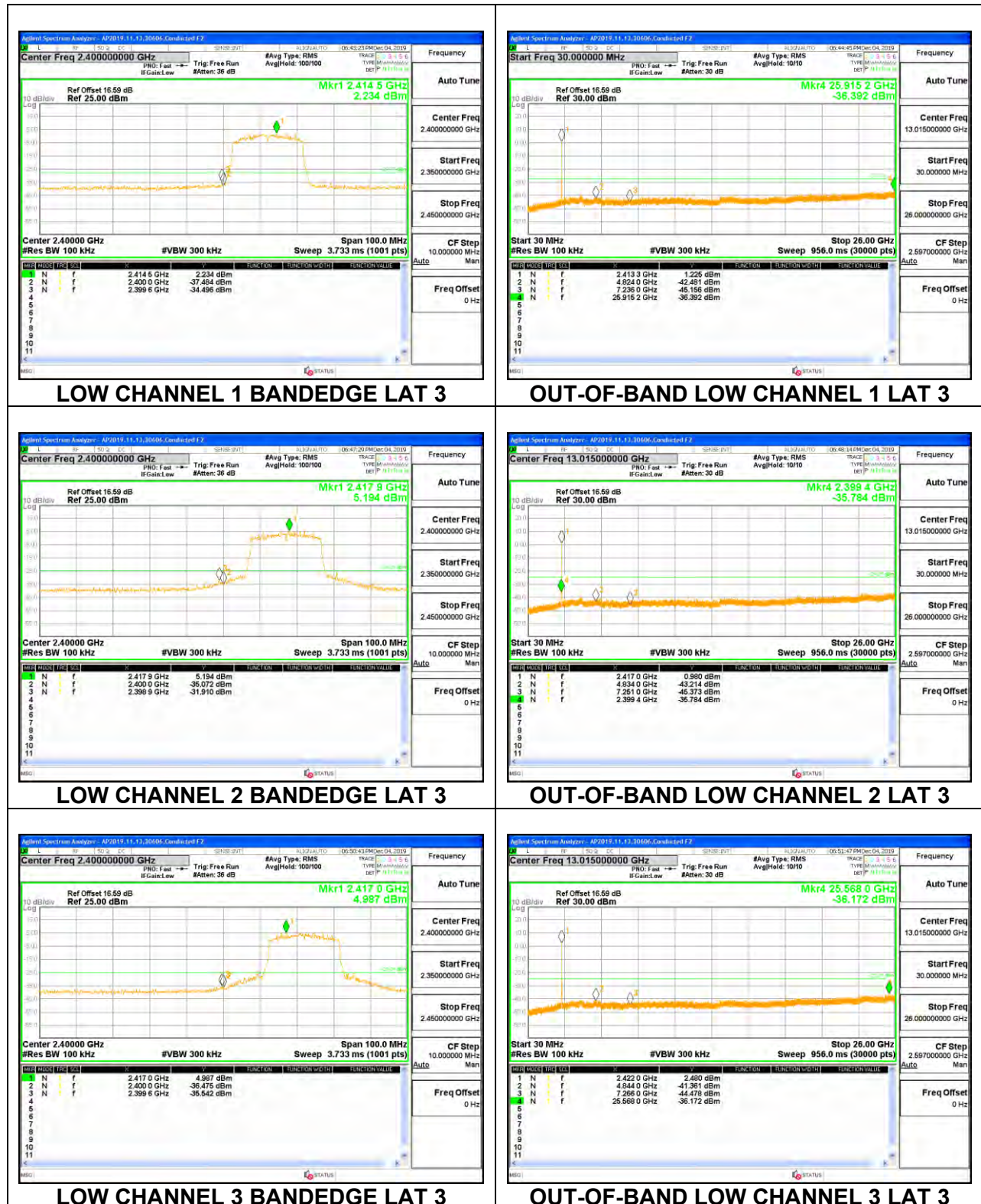


HIGH CHANNEL 12 BANDEDGE UAT 1



OUT-OF-BAND HIGH CHANNEL 12 UAT 1







LOW CHANNEL 4 BANDEDGE LAT 3



OUT-OF-BAND LOW CHANNEL 4 LAT 3



IN-BAND REFERENCE LEVEL LAT 3



OUT-OF-BAND MID CHANNEL LAT 3



HIGH CHANNEL 9 BANDEDGE LAT 3



OUT-OF-BAND HIGH CHANNEL 9 LAT 3



HIGH CHANNEL 10 BANDEDGE LAT 3



OUT-OF-BAND HIGH CHANNEL 10 LAT 3



HIGH CHANNEL 11 BANDEDGE LAT 3



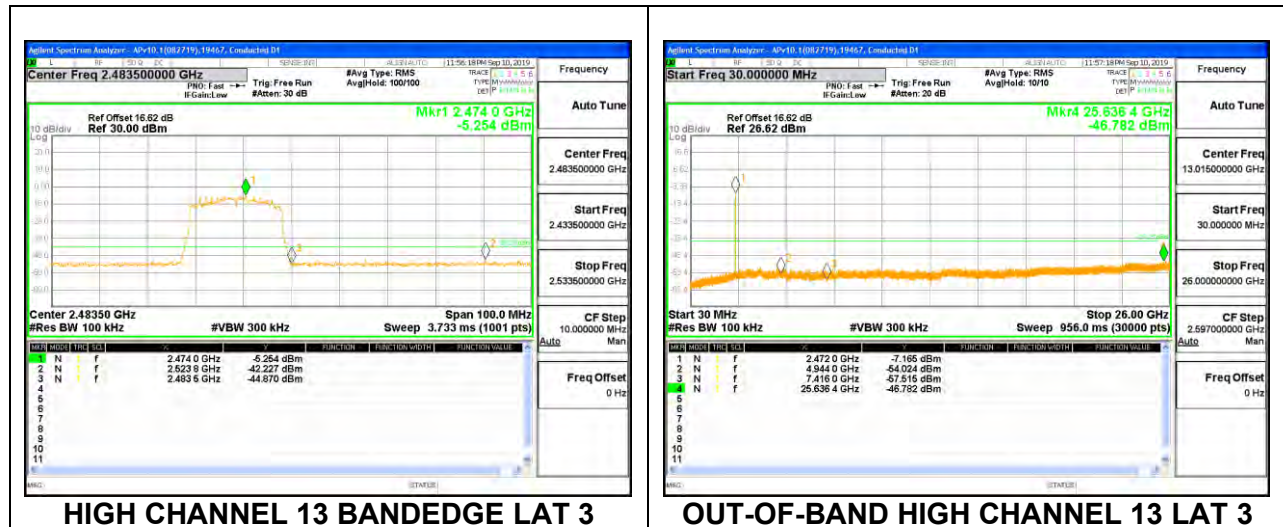
OUT-OF-BAND HIGH CHANNEL 11 LAT 3



HIGH CHANNEL 12 BANDEDGE LAT 3



OUT-OF-BAND HIGH CHANNEL 12 LAT 3



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement 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 pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel)

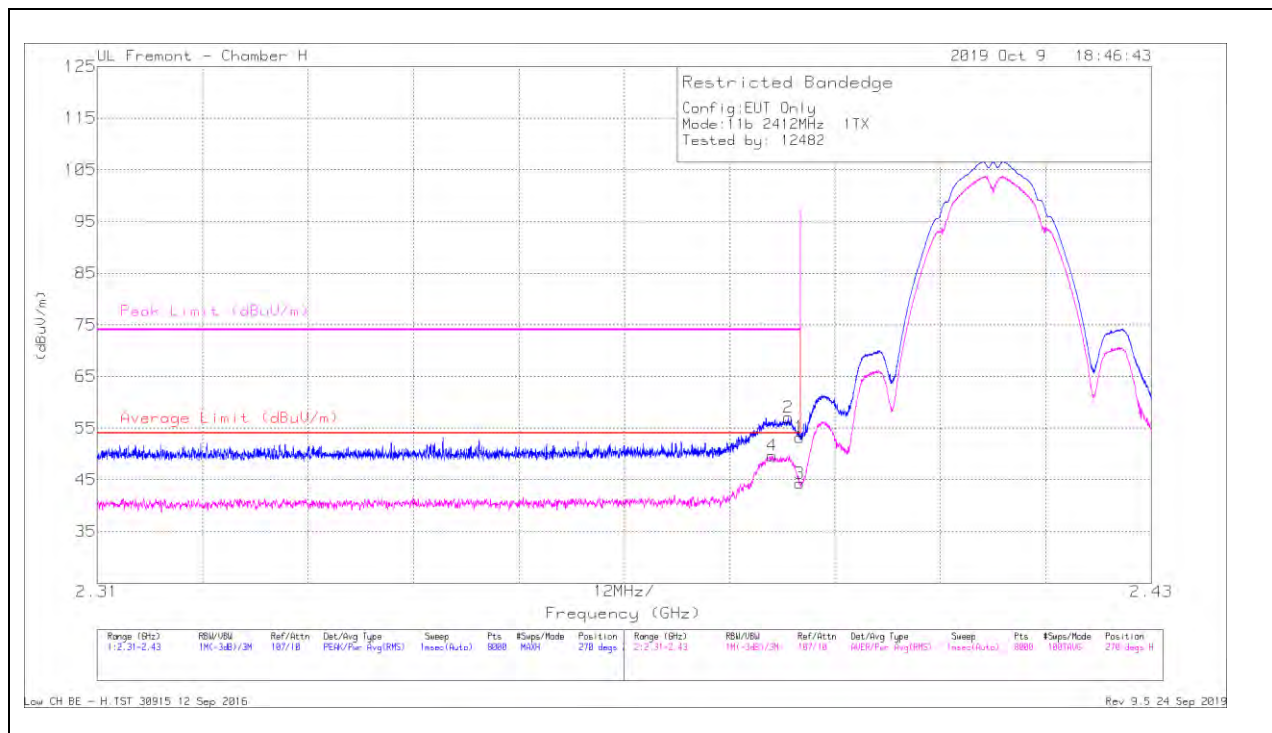
9.1. TRANSMITTER ABOVE 1 GHz

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

1TX UAT 1

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



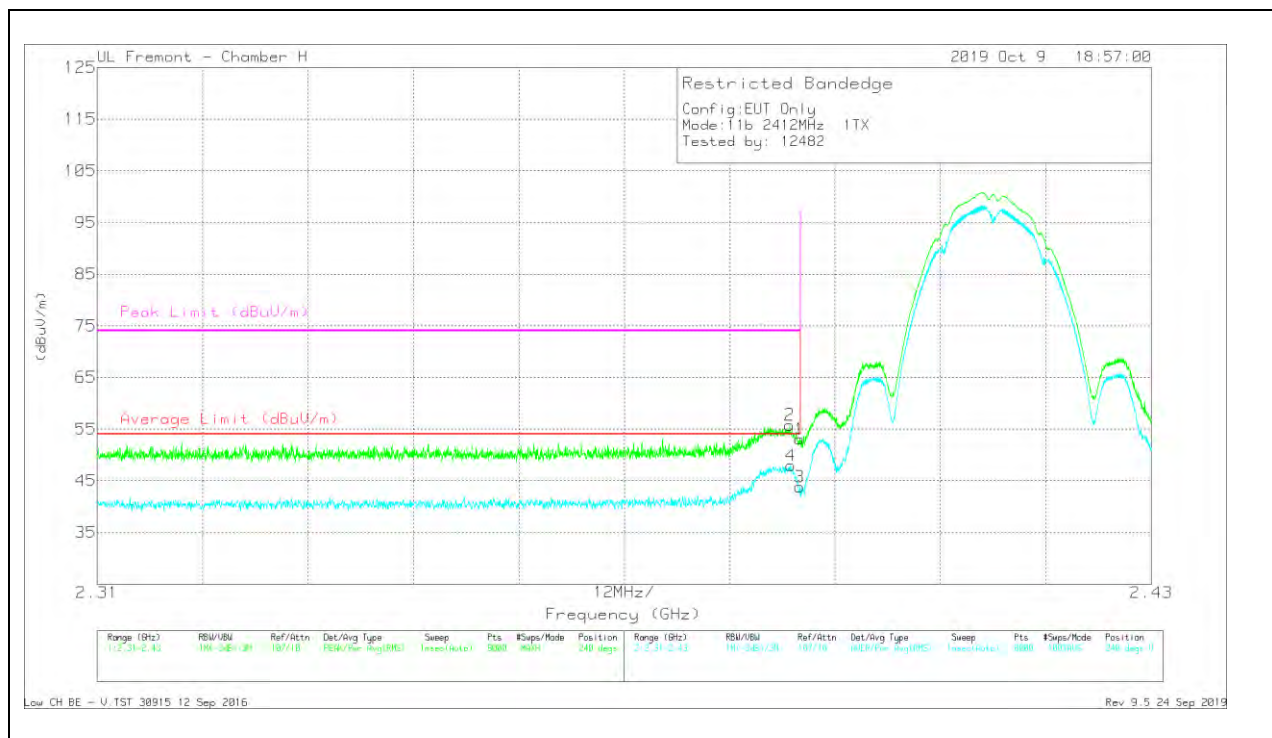
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	44.66	PK	32.1	-23.5	53.26	-	-	74	-20.74	270	219	H
2	* 2.38869	48.44	PK	32.1	-23.5	57.04	-	-	74	-16.96	270	219	H
3	* 2.38999	35.71	RMS	32.1	-23.5	44.31	54	-9.69	-	-	270	219	H
4	* 2.3866	41.06	RMS	32.1	-23.5	49.66	54	-4.34	-	-	270	219	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	44.48	Pk	32.1	-23.5	53.08	-	-	74	-20.92	240	307	V
2	* 2.38881	47.16	Pk	32.1	-23.5	55.76	-	-	74	-18.24	240	307	V
3	* 2.38999	35.22	RMS	32.1	-23.5	43.82	54	-10.18	-	-	240	307	V
4	* 2.38894	39.35	RMS	32.1	-23.5	47.95	54	-6.05	-	-	240	307	V

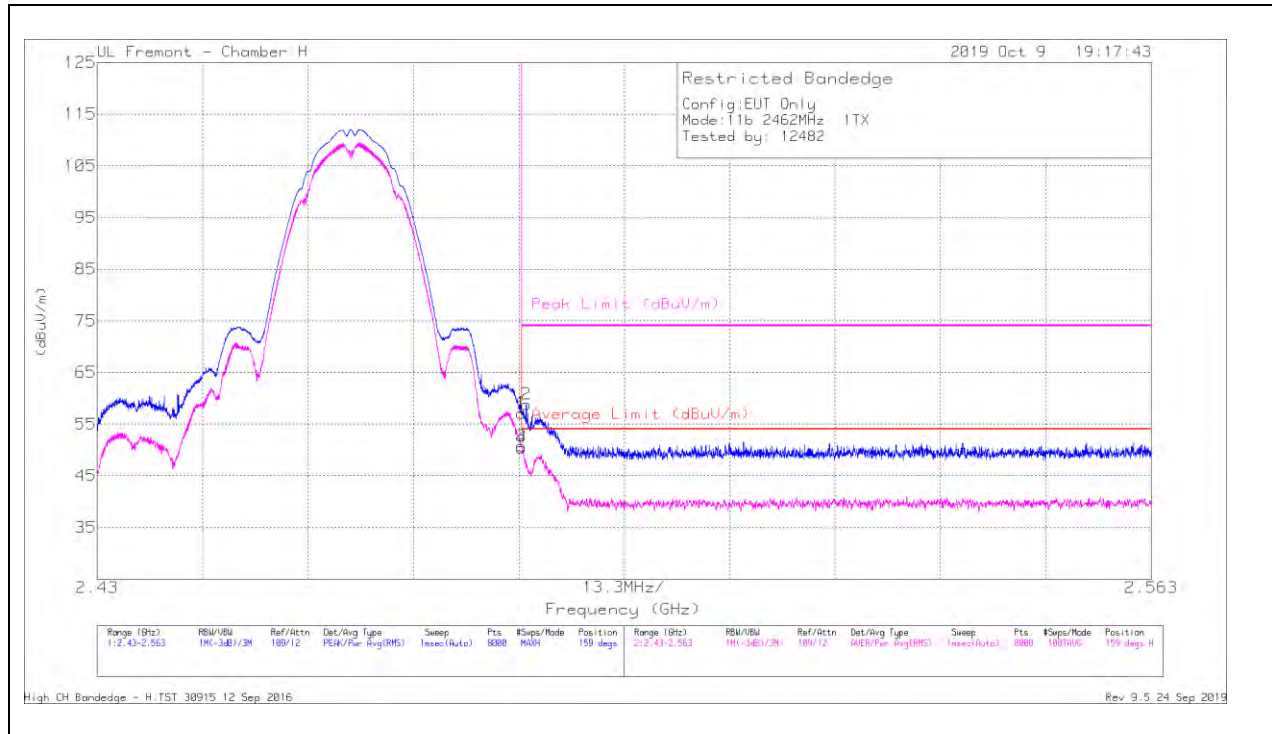
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



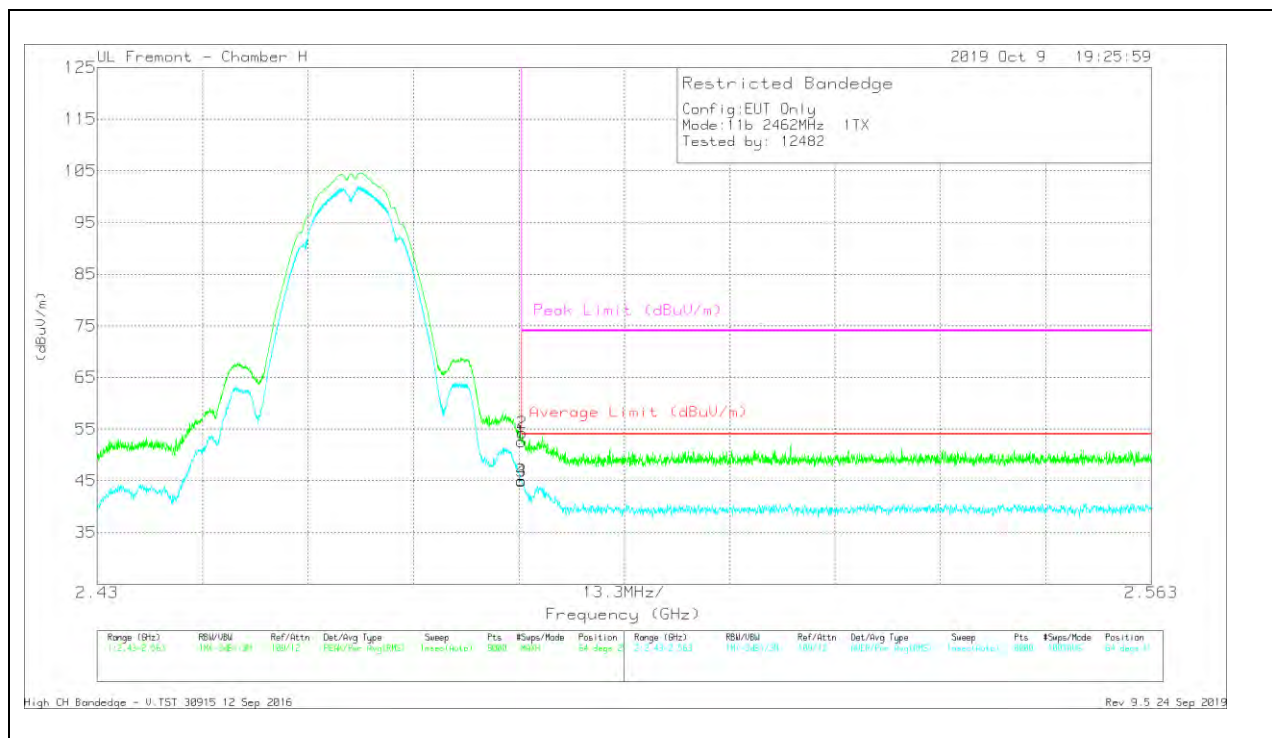
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	46.14	Pk	32.5	-21.5	57.14	-	-	74	-16.86	159	128	H
2	* 2.48414	47.85	Pk	32.5	-21.5	58.85	-	-	74	-15.15	159	128	H
3	* 2.48351	39.74	RMS	32.5	-21.5	50.74	54	-3.26	-	-	159	128	H
4	* 2.48356	39.42	RMS	32.5	-21.5	50.42	54	-3.58	-	-	159	128	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Ampl/Cbl/Filtr/Pad (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	41.58	Pk	32.5	-21.5	52.58	-	-	74	-21.42	64	257	V
2	* 2.48362	43.29	Pk	32.5	-21.5	54.29	-	-	74	-19.71	64	257	V
3	* 2.48351	33.93	RMS	32.5	-21.5	44.93	54	-9.07	-	-	64	257	V
4	* 2.48354	34.04	RMS	32.5	-21.5	45.04	54	-8.96	-	-	64	257	V

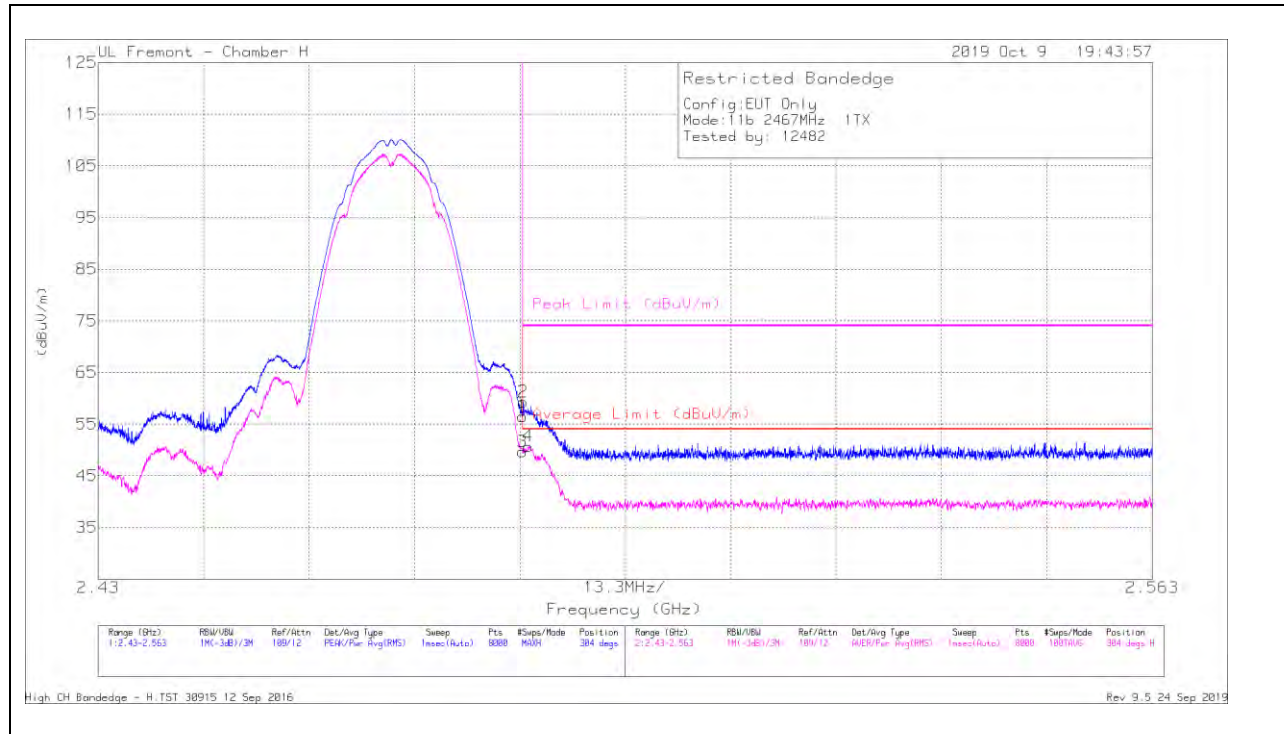
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



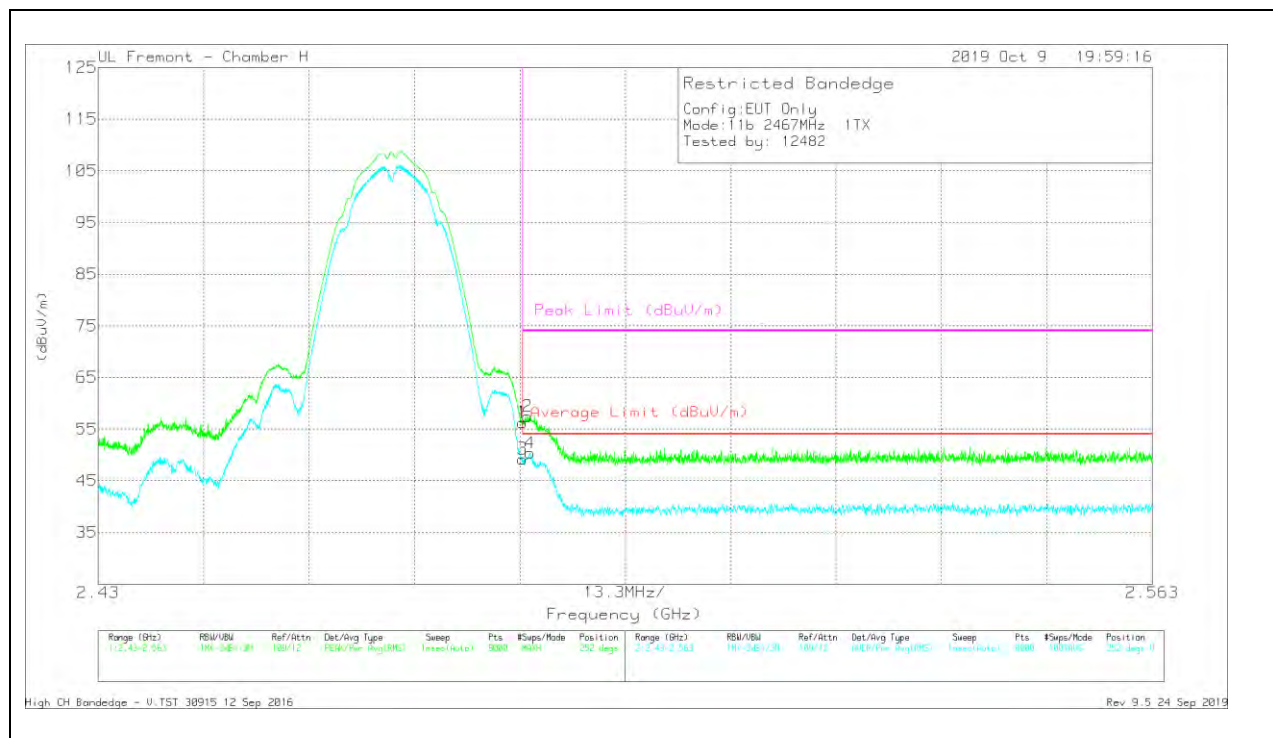
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	45.53	Pk	32.5	-21.5	56.53	-	-	74	-17.47	304	147	H
2	* 2.48364	48.29	Pk	32.5	-21.5	59.29	-	-	74	-14.71	304	147	H
3	* 2.48351	38.65	RMS	32.5	-21.5	49.65	54	-4.35	-	-	304	147	H
4	* 2.48422	39.7	RMS	32.5	-21.5	50.7	54	-3.3	-	-	304	147	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Ampl/Cbl/Filtr/Pad (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	45.26	Pk	32.5	-21.5	56.26	-	-	74	-17.74	252	317	V
2	* 2.48419	46.46	Pk	32.5	-21.5	57.46	-	-	74	-16.54	252	317	V
3	* 2.48351	38.22	RMS	32.5	-21.5	49.22	54	-4.78	-	-	252	317	V
4	* 2.48447	39.38	RMS	32.5	-21.5	50.38	54	-3.62	-	-	252	317	V

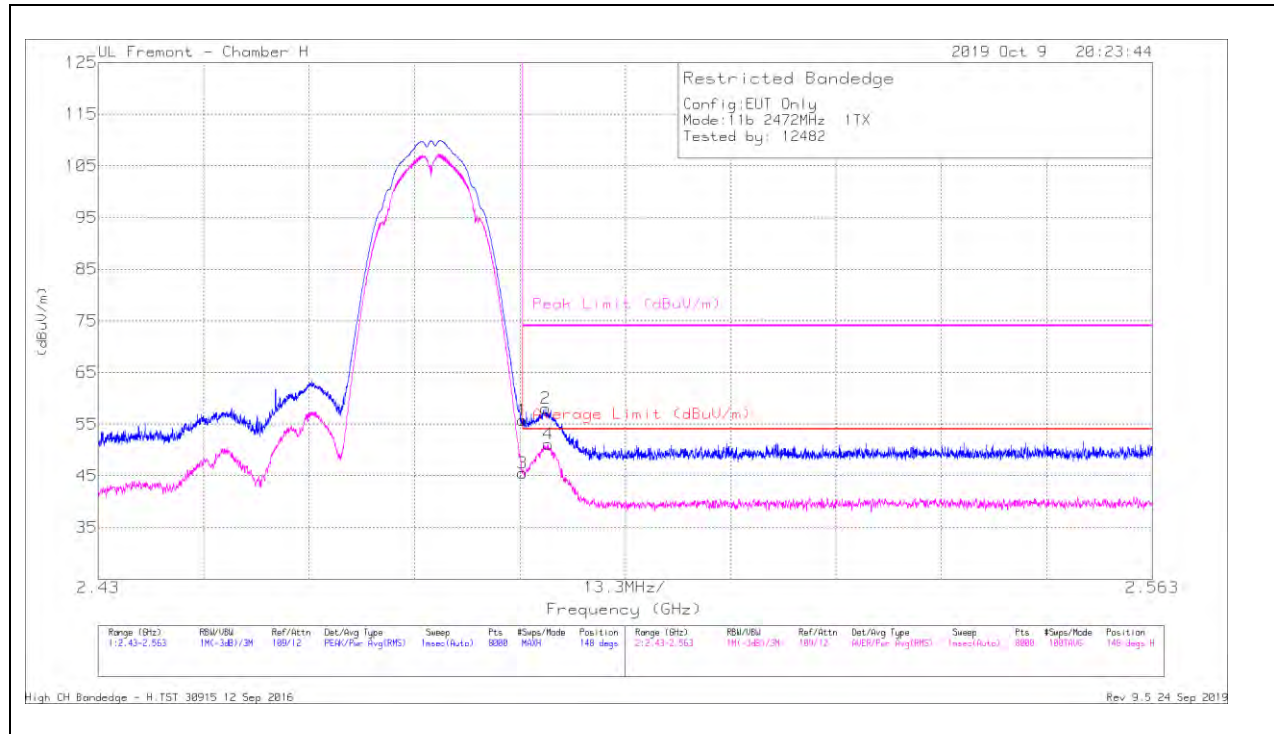
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



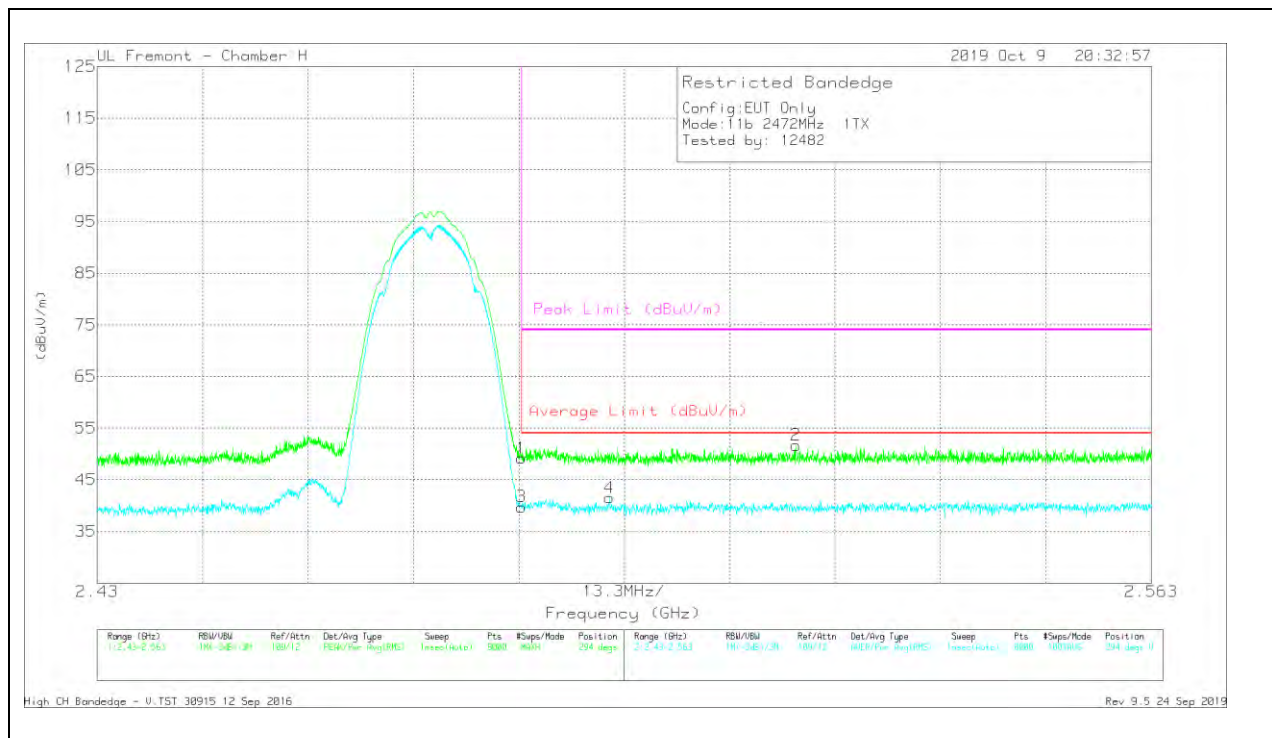
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	44.73	Pk	32.5	-21.5	55.73	-	-	74	-18.27	148	131	H
2	* 2.48648	47.06	Pk	32.5	-21.5	58.06	-	-	74	-15.94	148	131	H
3	* 2.48351	34.5	RMS	32.5	-21.5	45.5	54	-8.5	-	-	148	131	H
4	* 2.48676	40.11	RMS	32.5	-21.5	51.11	54	-2.89	-	-	148	131	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T663 (dB/m)	Amp/Cb/Filt/Pa d (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	38.17	Pk	32.5	-21.5	49.17	-	-	74	-24.83	294	398	V
2	2.51814	40.38	Pk	32.6	-21.3	51.68	-	-	74	-22.32	294	398	V
3	* 2.48351	28.74	RMS	32.5	-21.5	39.74	54	-14.26	-	-	294	398	V
4	* 2.49463	30.4	RMS	32.5	-21.4	41.5	54	-12.5	-	-	294	398	V

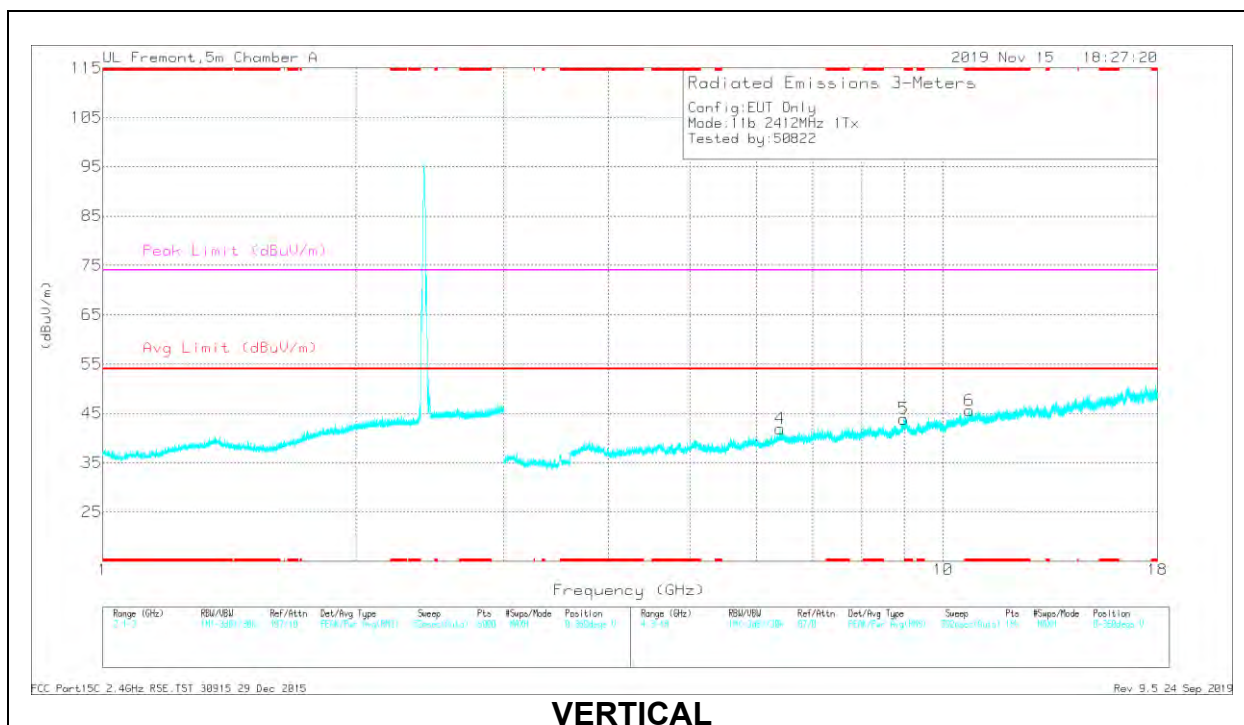
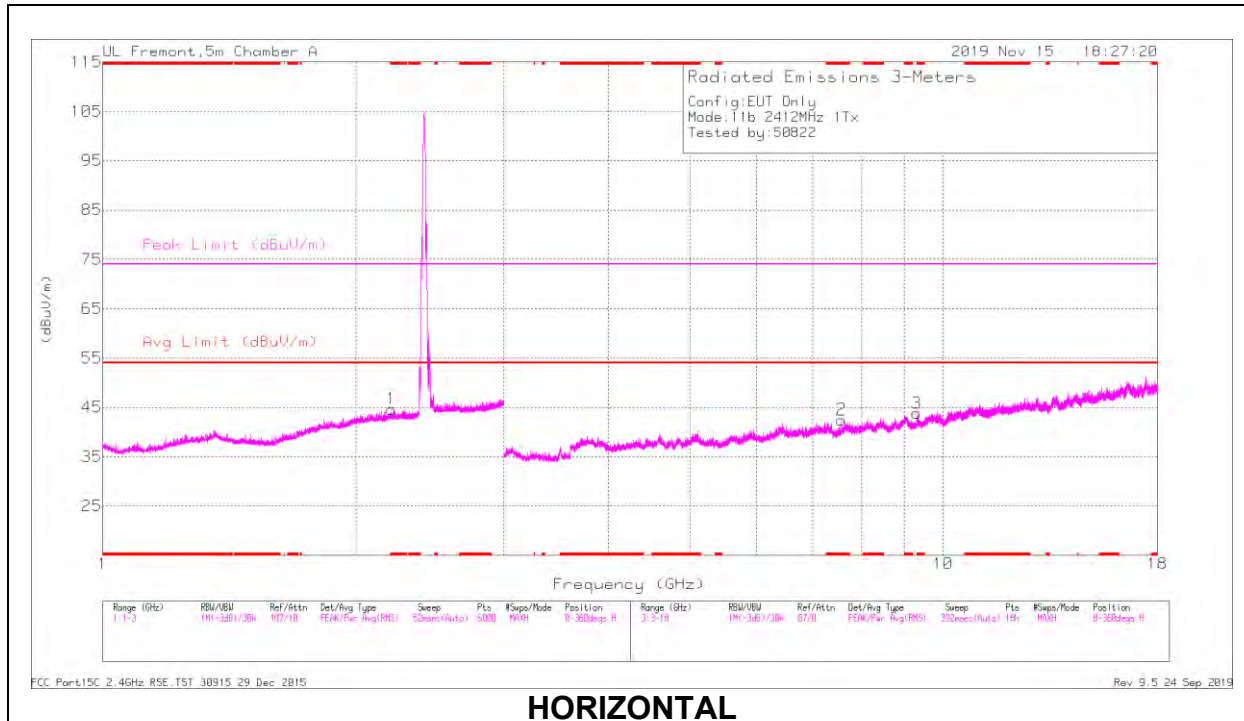
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



Radiated Emissions

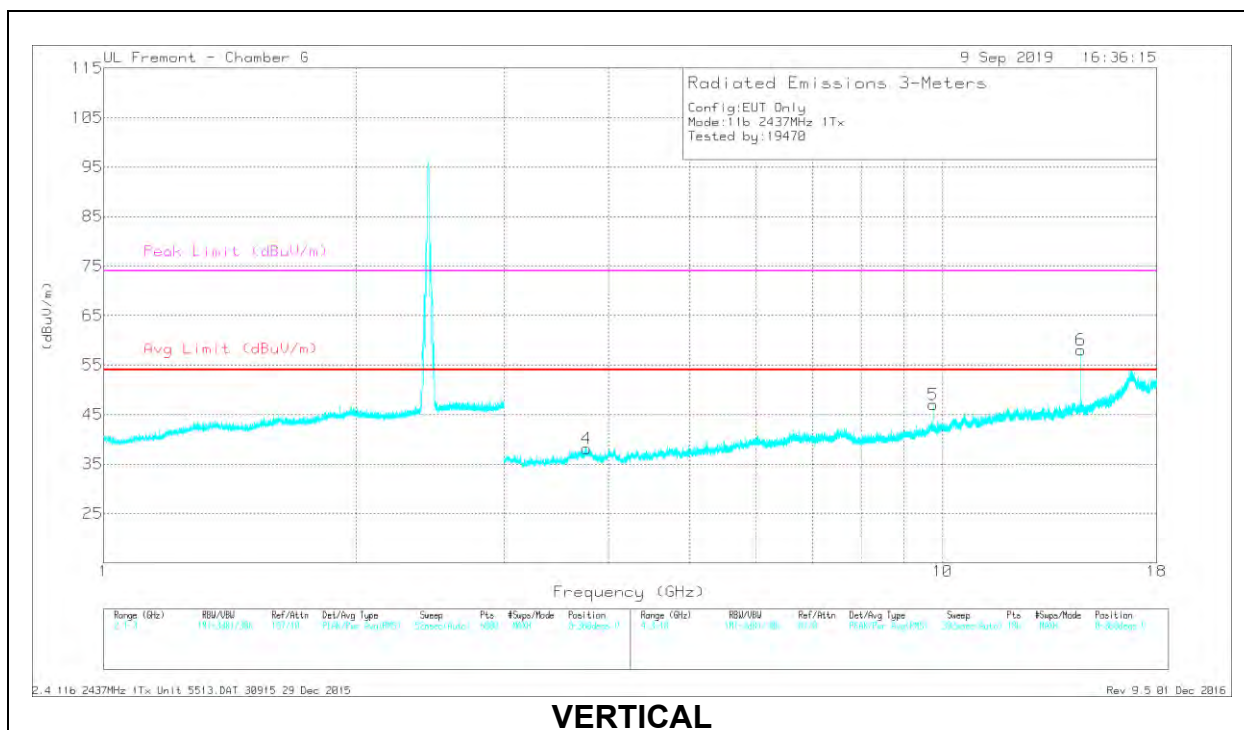
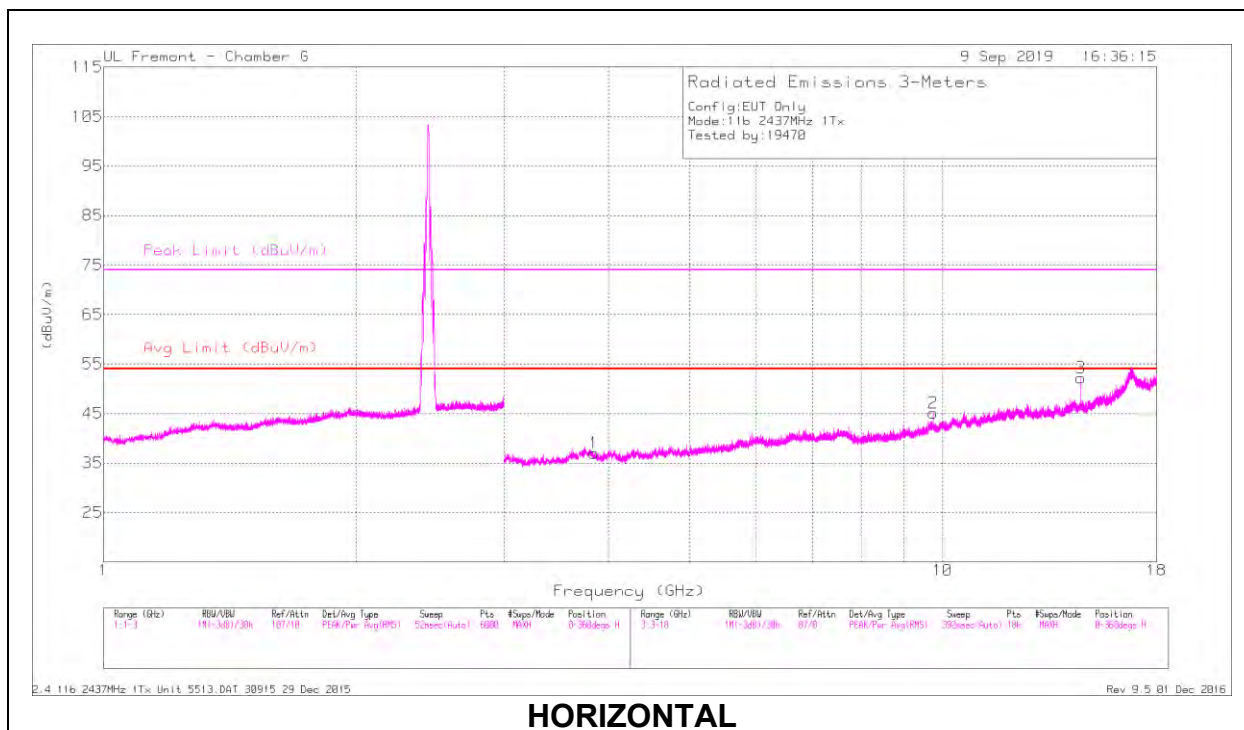
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.20867	42.51	PK2	31.8	-23.6	50.71	-	-	74	-23.29	172	130	H
	* 2.2058	30.4	MAv1	31.8	-23.6	38.6	54	-15.4	-	-	172	130	H
2	* 7.5769	35.44	PK2	35.7	-23.1	48.04	-	-	74	-25.96	30	109	H
	* 7.58051	23.64	MAv1	35.7	-23.2	36.14	54	-17.86	-	-	30	109	H
3	* 9.31149	34.12	PK2	36.3	-21.6	48.82	-	-	74	-25.18	115	330	H
	* 9.31292	22.43	MAv1	36.4	-21.5	37.33	54	-16.67	-	-	115	330	H
6	* 10.74477	33.64	PK2	37.9	-20	51.54	-	-	74	-22.46	209	154	V
	* 10.74636	22.02	MAv1	37.9	-20	39.92	54	-14.08	-	-	209	154	V
4	6.40421	37.36	PK2	35.8	-25.3	47.86	-	-	-	-	183	298	V
5	8.98389	34.89	PK2	36.2	-21.3	49.79	-	-	-	-	234	358	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, CH 6 RESULTS



RADIATED EMISSIONS

Radiated Emissions

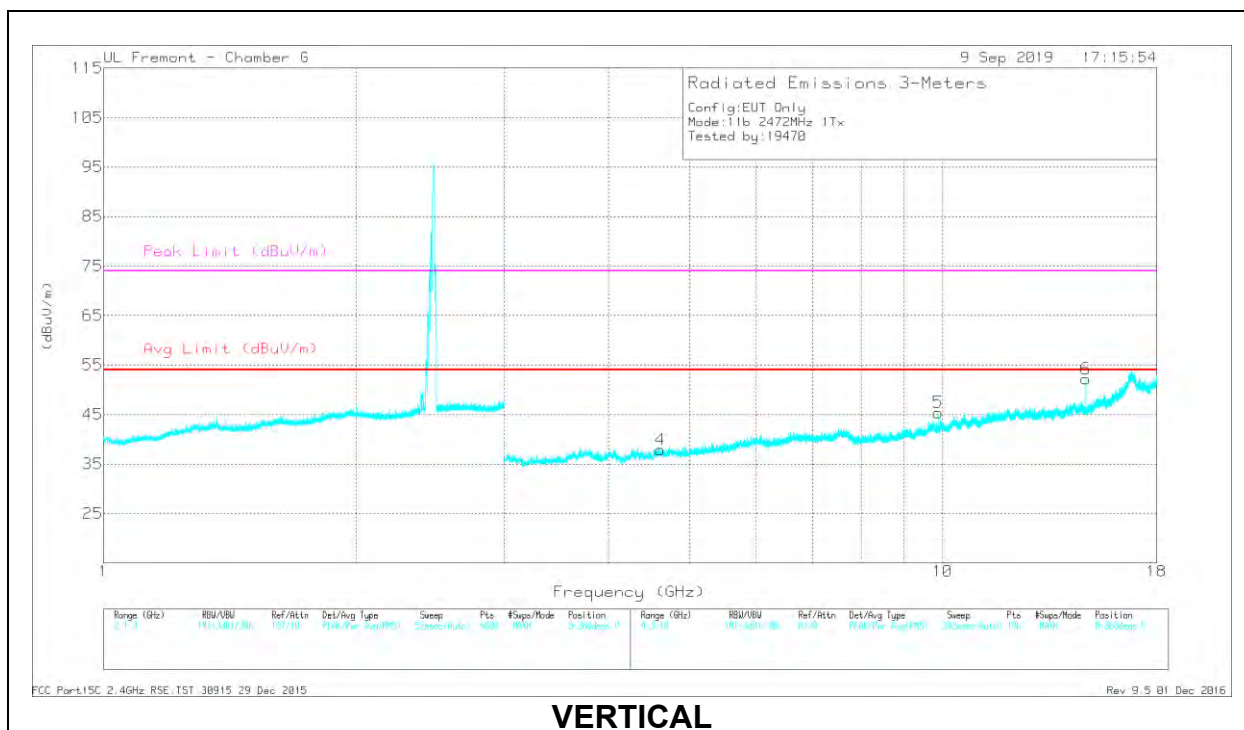
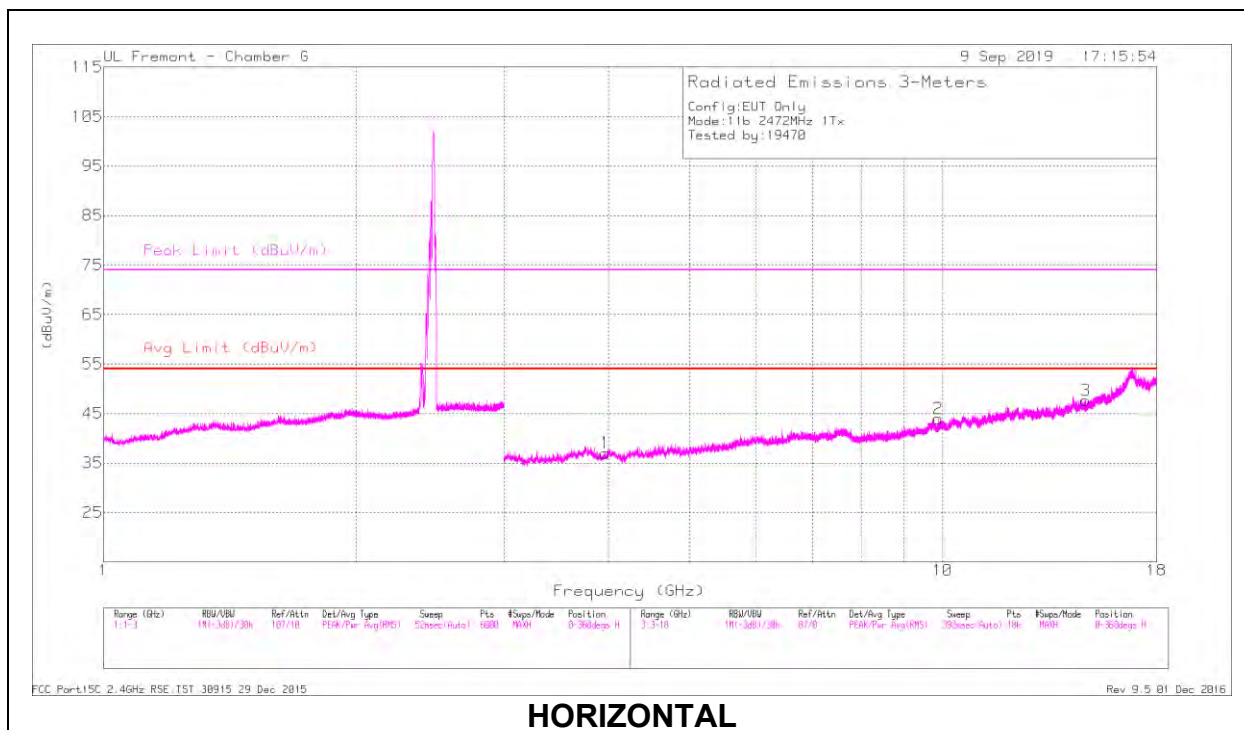
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.842	41.39	PK2	33.5	-30.5	44.39	-	-	74	-29.61	0	101	H
	* 3.843	30.12	MAv1	33.5	-30.5	33.12	54	-20.88	-	-	0	101	H
4	* 3.76	40.99	PK2	33.3	-29.1	45.19	-	-	74	-28.81	317	101	V
	* 3.76	29.47	MAv1	33.2	-29.1	33.57	54	-20.43	-	-	317	101	V
2	9.748	40.14	PK2	37	-24.6	52.54	-	-	-	-	106	251	H
	9.748	31.7	MAv1	37	-24.5	44.2	-	-	-	-	106	251	H
5	9.748	39.93	PK2	37	-24.6	52.33	-	-	-	-	33	109	V
	9.748	32.55	MAv1	37	-24.5	45.05	-	-	-	-	33	109	V
3	14.622	41.51	PK2	39.8	-23.9	57.41	-	-	-	-	317	101	H
	14.622	35.68	MAv1	39.8	-23.9	51.58	-	-	-	-	317	101	H
6	14.622	46.02	PK2	39.8	-23.9	61.92	-	-	-	-	313	101	V
	14.622	42.62	MAv1	39.8	-23.9	58.52	-	-	-	-	313	101	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, CH 13 RESULTS



RADIATED EMISSIONS

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.96	40.89	PK2	33.3	-29.9	44.29	-	-	74	-29.71	360	101	H
	* 3.961	29.89	MAv1	33.3	-29.9	33.29	54	-20.71	-	-	360	101	H
2	9.888	29.32	MAv1	37	-25	41.32	-	-	-	-	98	220	H
	9.888	39.06	PK2	37	-25	51.06	-	-	-	-	292	115	V
3	14.832	38.3	PK2	39.8	-24	54.1	-	-	-	-	135	124	H
	14.832	28.94	MAv1	39.8	-24	44.74	-	-	-	-	135	124	H
4	* 4.608	41.1	PK2	34	-29.6	45.5	-	-	74	-28.5	360	101	V
	* 4.607	29.7	MAv1	34	-29.6	34.1	54	-19.9	-	-	360	101	V
5	9.888	30.81	MAv1	37	-25	42.81	-	-	-	-	292	115	V
	9.889	39.64	PK2	37	-25	51.64	-	-	-	-	98	220	H
6	14.832	41.84	PK2	39.8	-24	57.64	-	-	-	-	125	104	V
	14.832	36.09	MAv1	39.8	-24	51.89	-	-	-	-	125	104	V

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

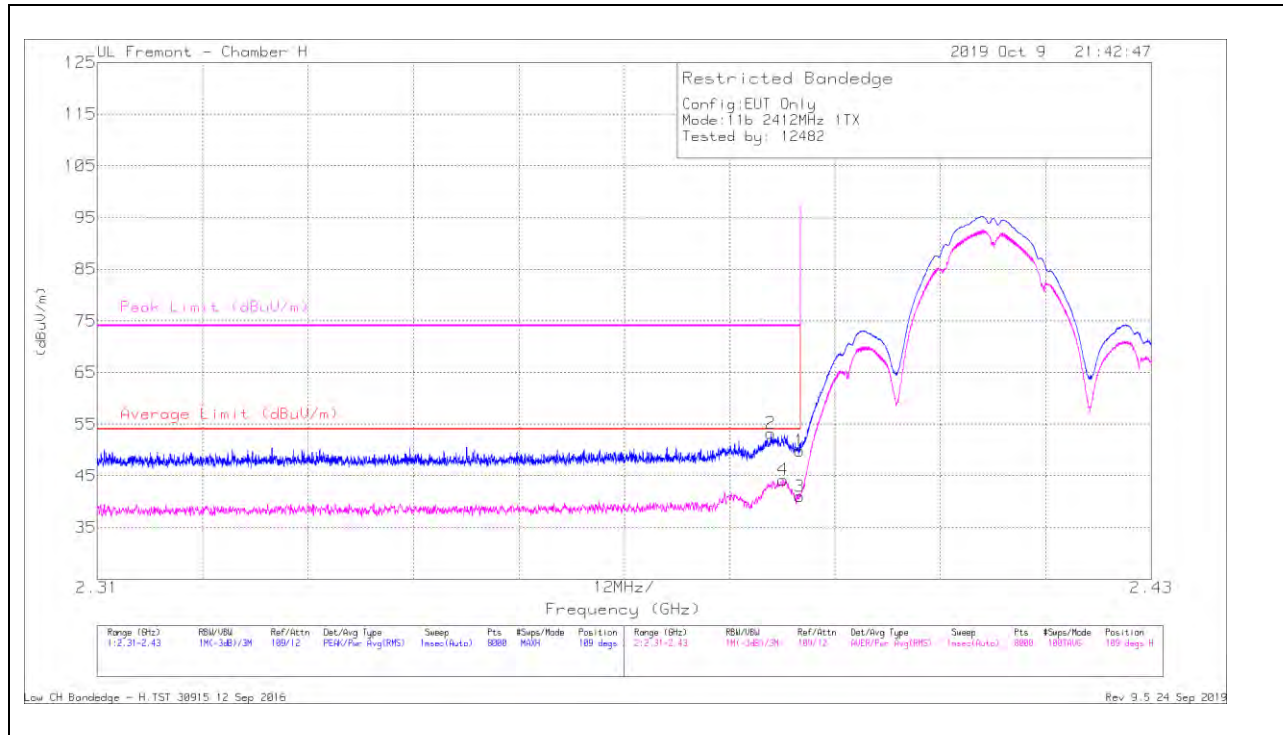
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

1TX LAT 3

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



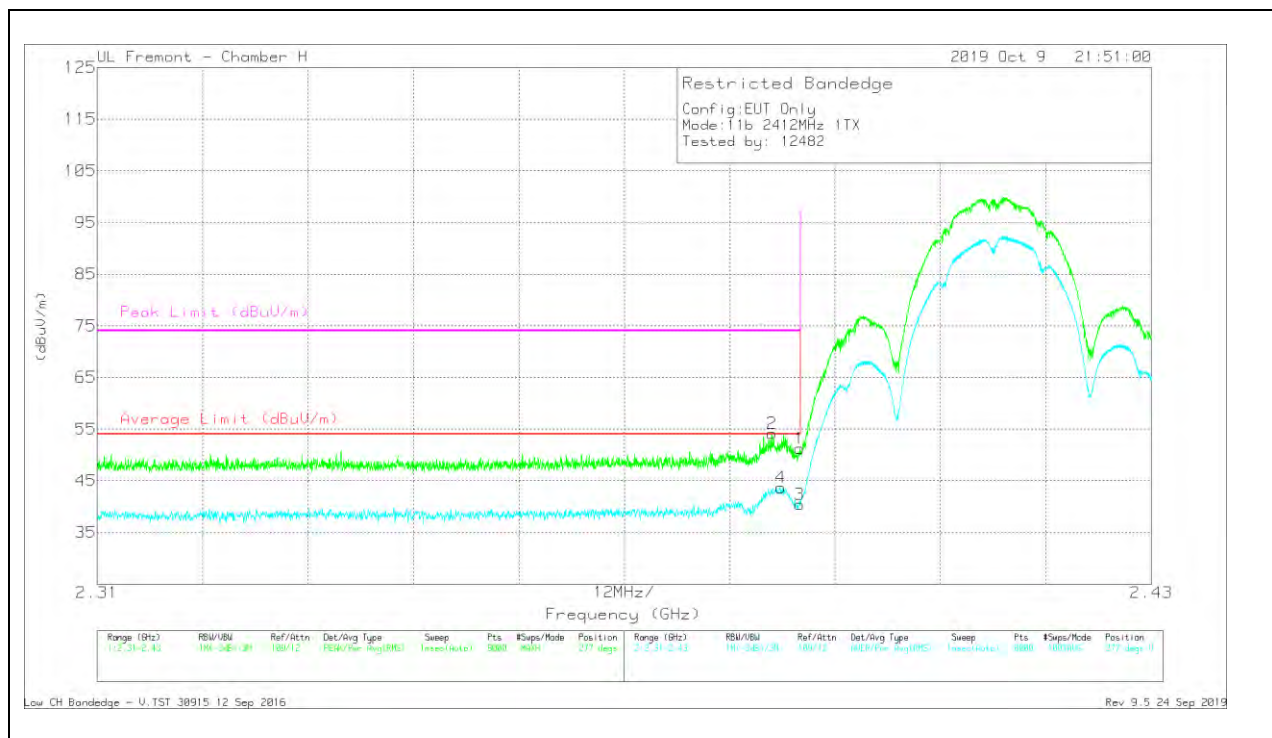
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/CB/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	39.17	Pk	32.1	-21.4	49.87	-	-	74	-24.13	109	356	H
2	* 2.38669	42.54	Pk	32.1	-21.4	53.24	-	-	74	-20.76	109	356	H
3	* 2.38999	30.31	RMS	32.1	-21.4	41.01	54	-12.99	-	-	109	356	H
4	* 2.38807	33.55	RMS	32.1	-21.4	44.25	54	-9.75	-	-	109	356	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	40.55	Pk	32.1	-21.4	51.25	-	-	74	-22.75	277	146	V
2	* 2.3868	43.47	Pk	32.1	-21.4	54.17	-	-	74	-19.83	277	146	V
3	* 2.38999	29.7	RMS	32.1	-21.4	40.4	54	-13.6	-	-	277	146	V
4	* 2.38782	32.97	RMS	32.1	-21.4	43.67	54	-10.33	-	-	277	146	V

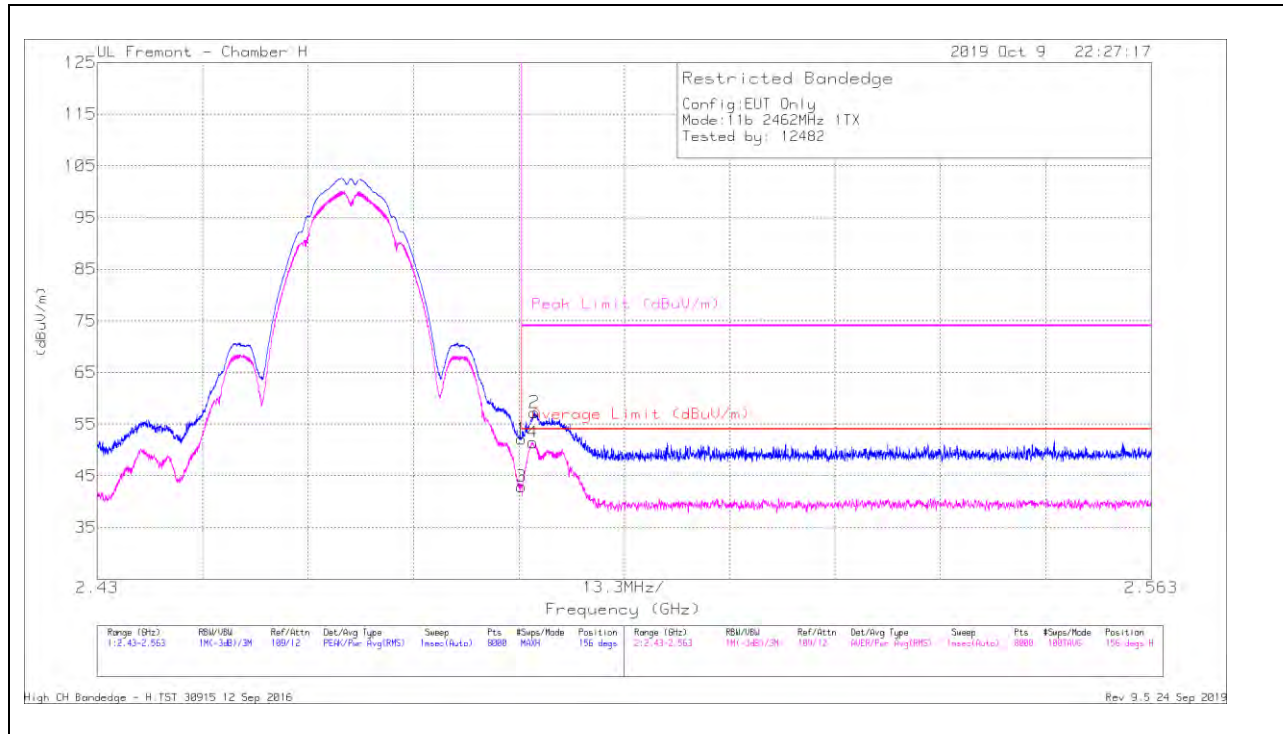
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



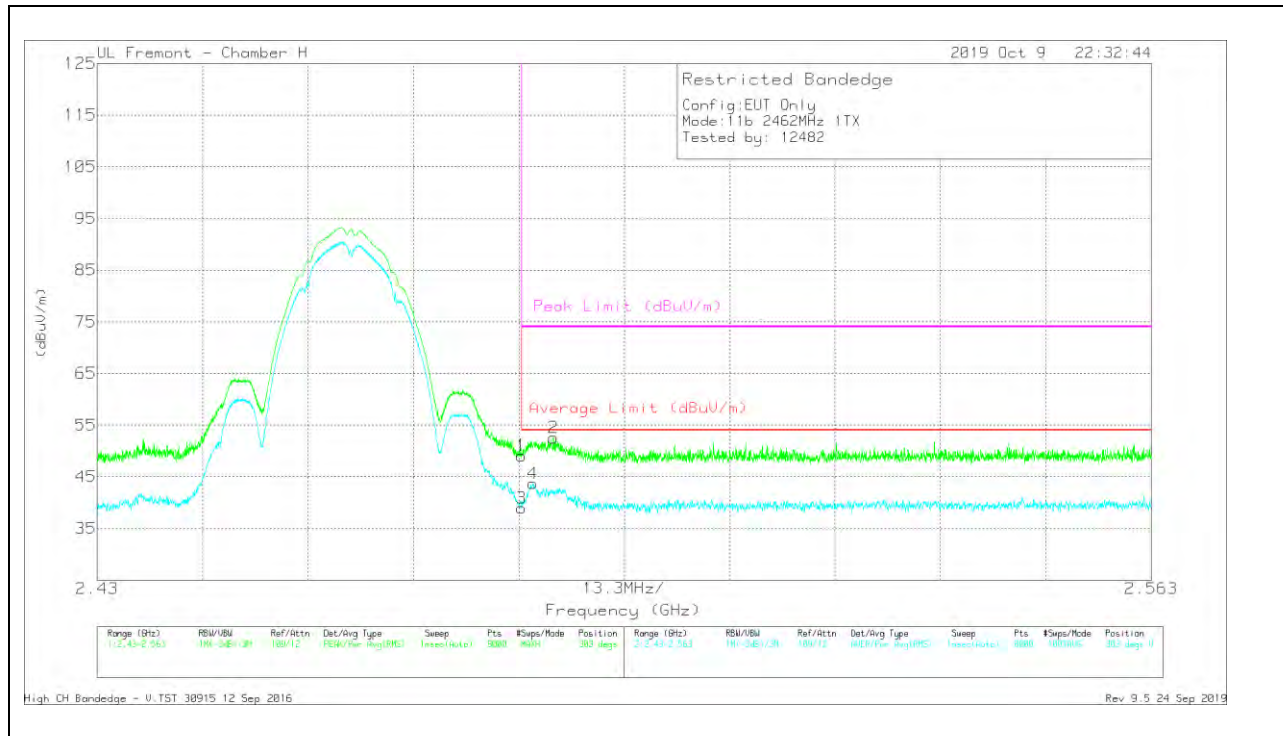
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.11	Pk	32.5	-21.5	52.11	-	-	74	-21.89	156	135	H
2	* 2.48515	46.25	Pk	32.5	-21.5	57.25	-	-	74	-16.75	156	135	H
3	* 2.48351	31.92	RMS	32.5	-21.5	42.92	54	-11.08	-	-	156	135	H
4	* 2.48497	40.45	RMS	32.5	-21.5	51.45	54	-2.55	-	-	156	135	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pa d (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	38.06	Pk	32.5	-21.5	49.06	-	-	74	-24.94	303	157	V
2	* 2.48755	41.55	Pk	32.5	-21.5	52.55	-	-	74	-21.45	303	157	V
3	* 2.48351	27.94	RMS	32.5	-21.5	38.94	54	-15.06	-	-	303	157	V
4	* 2.48499	32.7	RMS	32.5	-21.5	43.7	54	-10.3	-	-	303	157	V

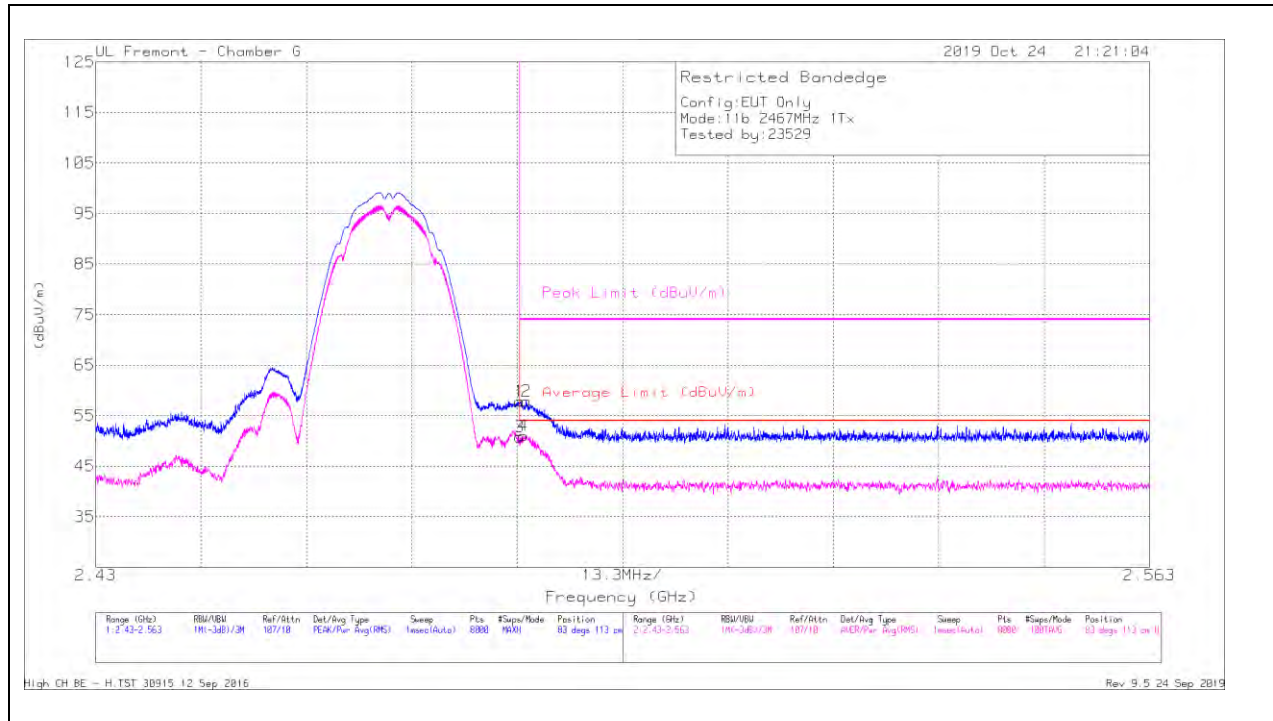
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

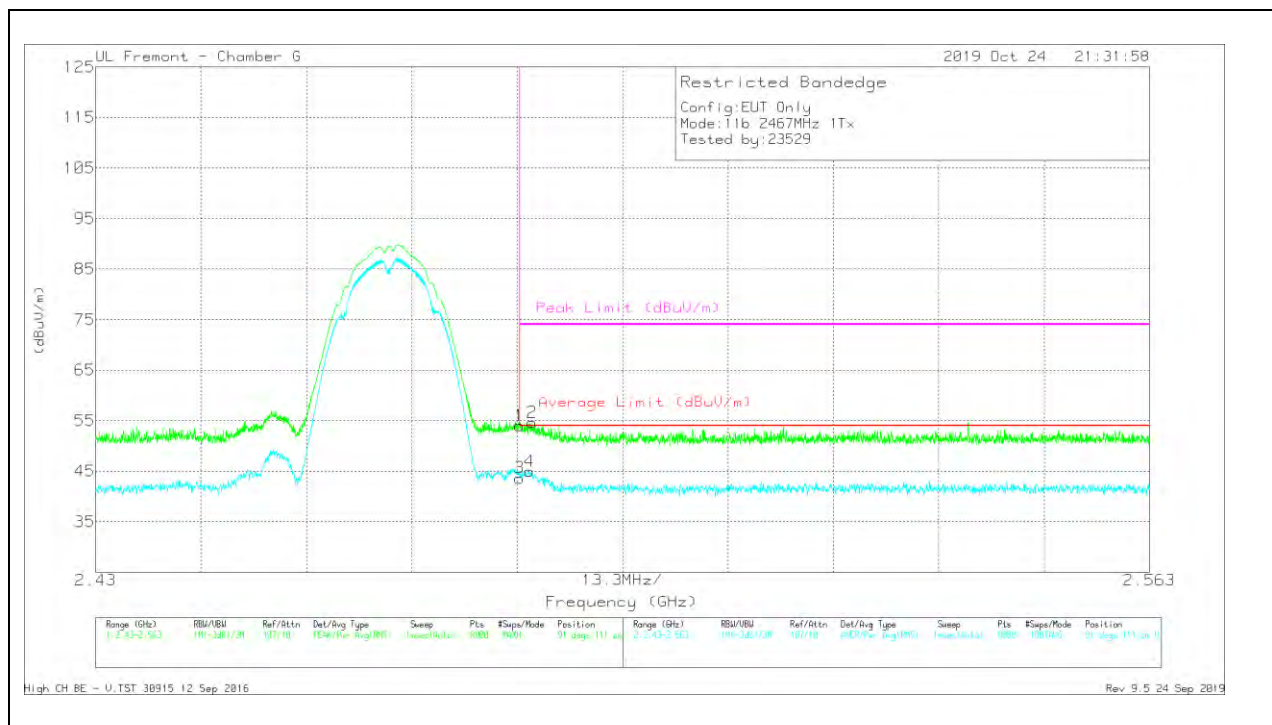
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (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	47.52	Pk	32.5	-22.1	57.92	-	-	74	-16.08	83	113	H
2	* 2.48434	47.47	Pk	32.5	-22.1	57.87	-	-	74	-16.13	83	113	H
3	* 2.48351	40.34	RMS	32.5	-22.1	50.74	54	-3.26	-	-	83	113	H
4	* 2.48399	40.69	RMS	32.5	-22.1	51.09	54	-2.91	-	-	83	113	H

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (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	43.66	Pk	32.5	-22.1	54.06	-	-	74	-19.94	91	111	V
2	* 2.48505	44.37	Pk	32.5	-22.2	54.67	-	-	74	-19.33	91	111	V
3	* 2.48351	33.25	RMS	32.5	-22.1	43.65	54	-10.35	-	-	91	111	V
4	* 2.48474	34.59	RMS	32.5	-22.1	44.99	54	-9.01	-	-	91	111	V

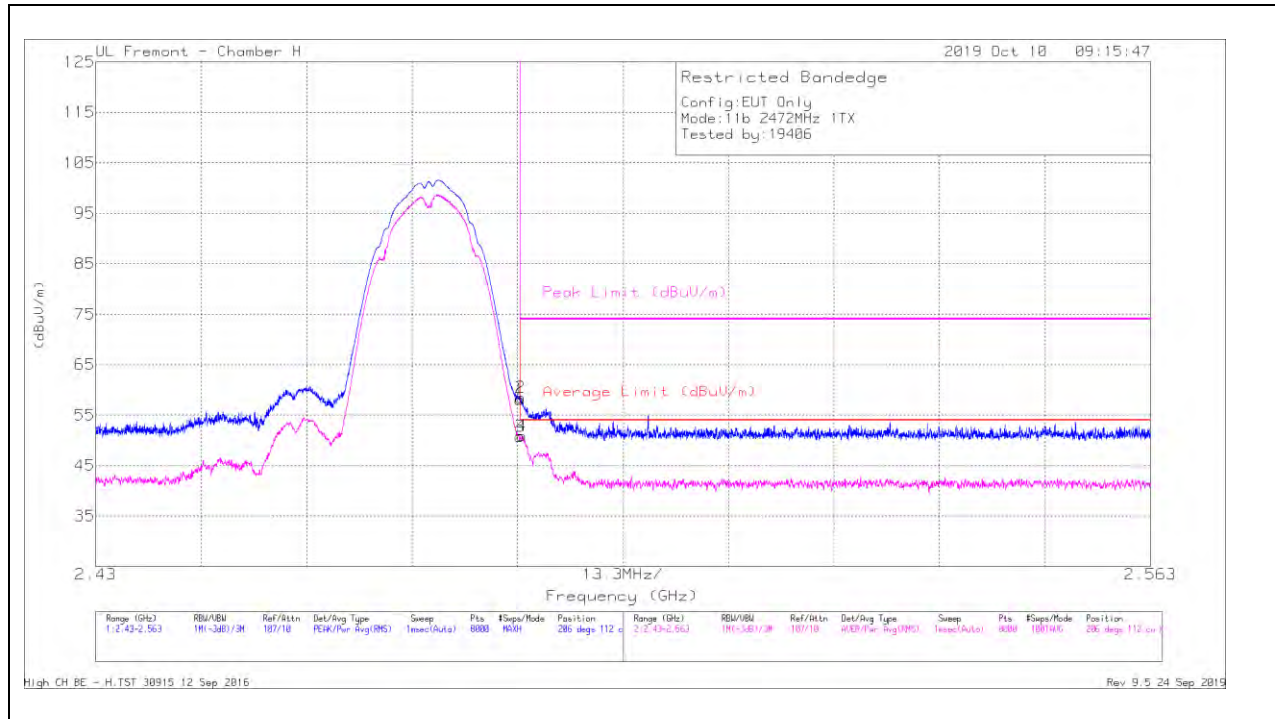
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



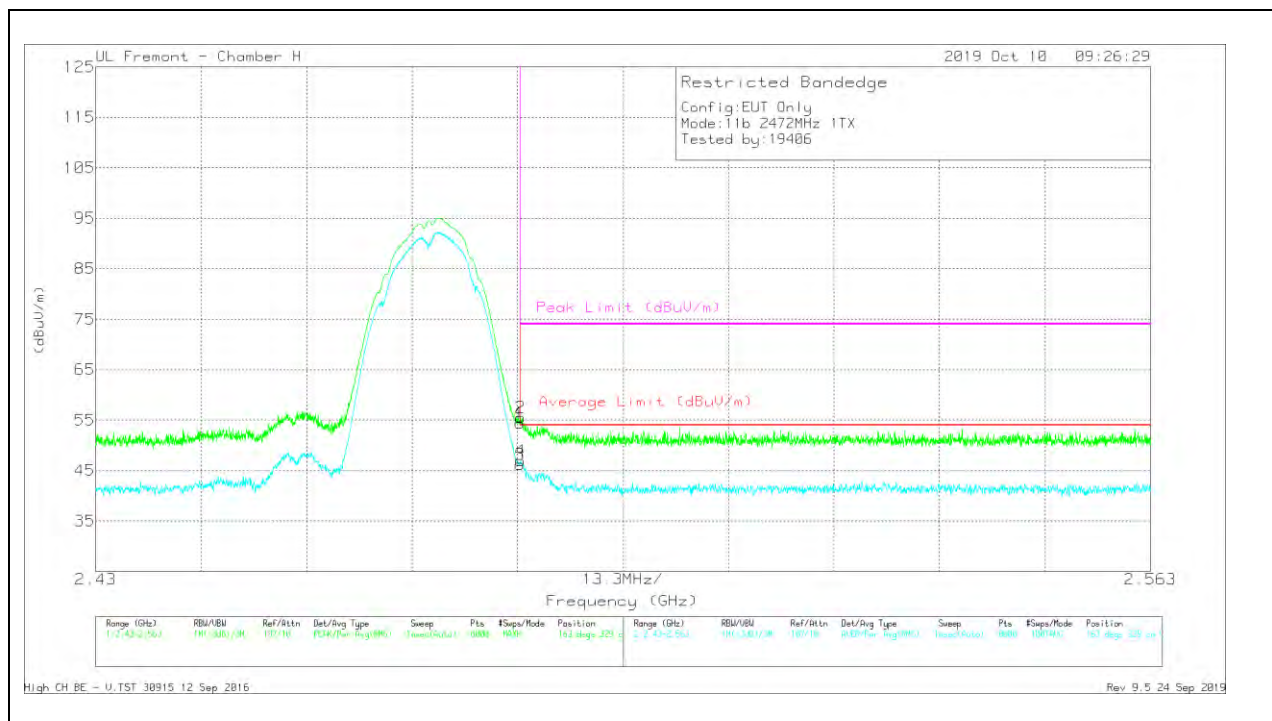
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	48.91	Pk	32.5	-23.3	58.11	-	-	74	-15.89	206	112	H
2	* 2.48359	49.29	Pk	32.5	-23.3	58.49	-	-	74	-15.51	206	112	H
3	* 2.48351	41.55	RMS	32.5	-23.3	50.75	54	-3.25	-	-	206	112	H
4	* 2.48376	41.69	RMS	32.5	-23.3	50.89	54	-3.11	-	-	206	112	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (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	45.2	Pk	32.5	-23.3	54.4	-	-	74	-19.6	163	329	V
2	* 2.48357	46.25	Pk	32.5	-23.3	55.45	-	-	74	-18.55	163	329	V
3	* 2.48351	37.03	RMS	32.5	-23.3	46.23	54	-7.77	-	-	163	329	V
4	* 2.48359	37.69	RMS	32.5	-23.3	46.89	54	-7.11	-	-	163	329	V

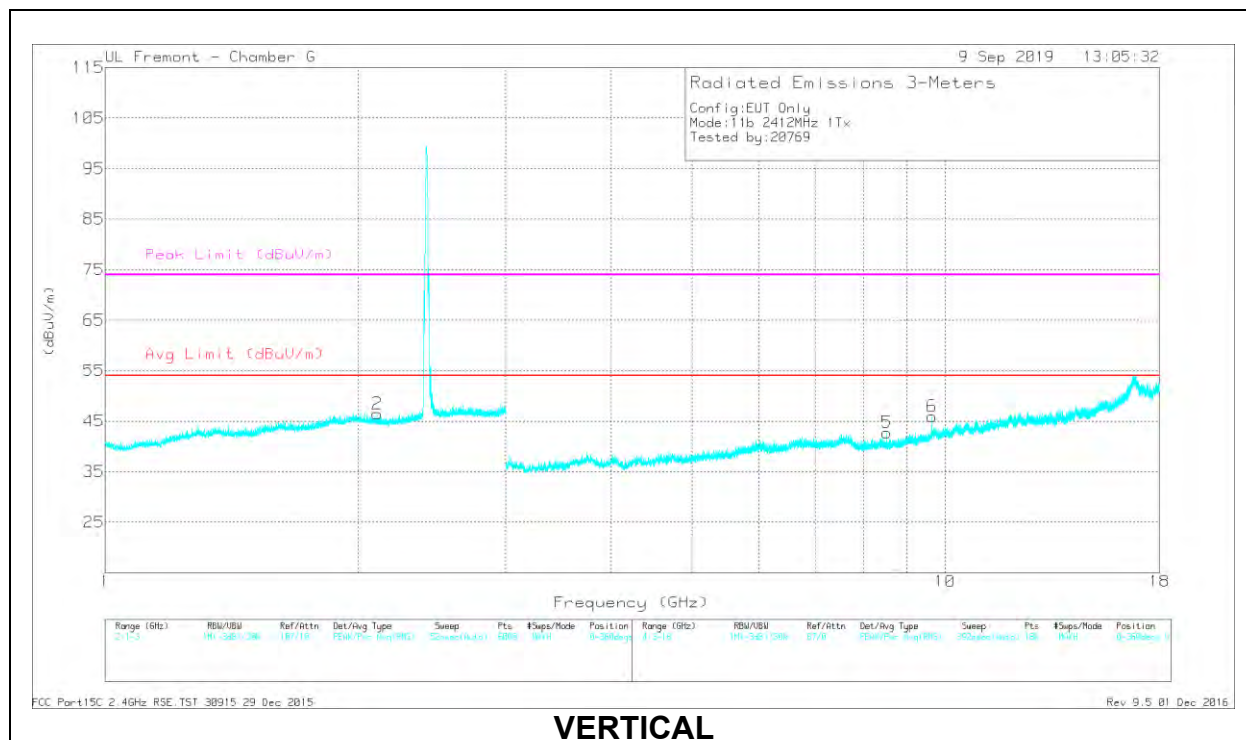
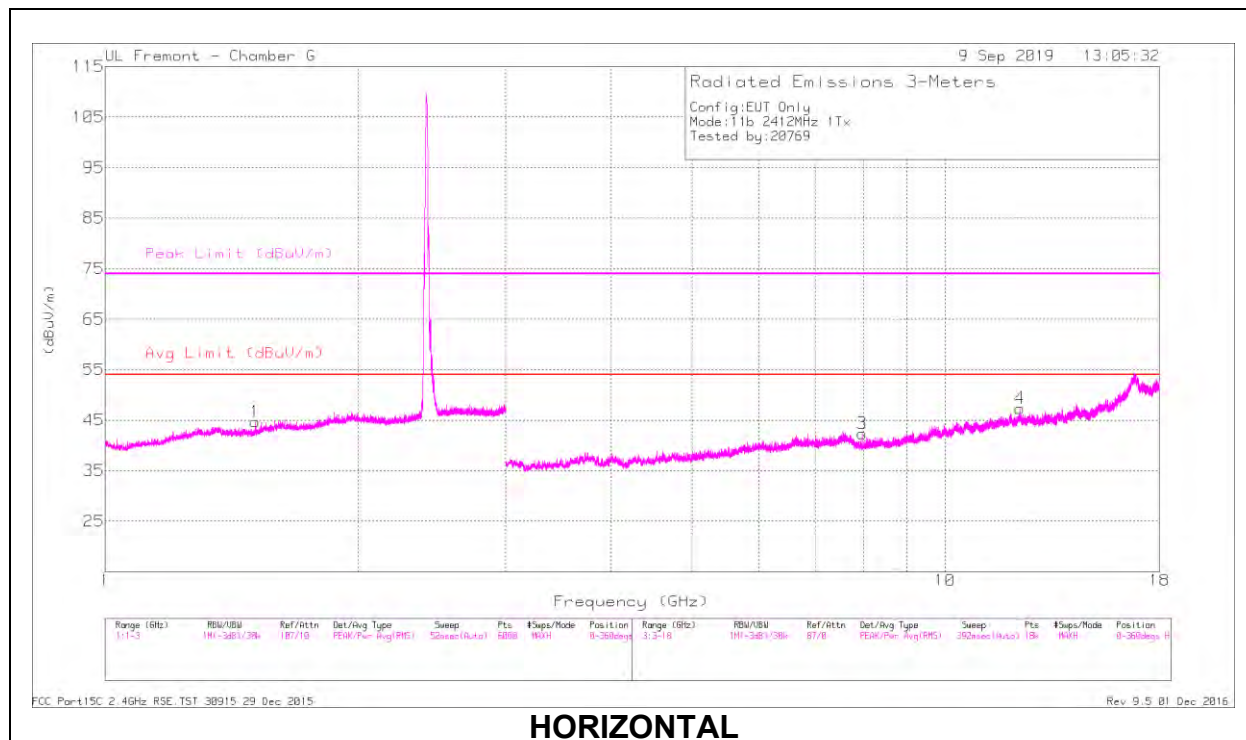
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



Radiated Emissions

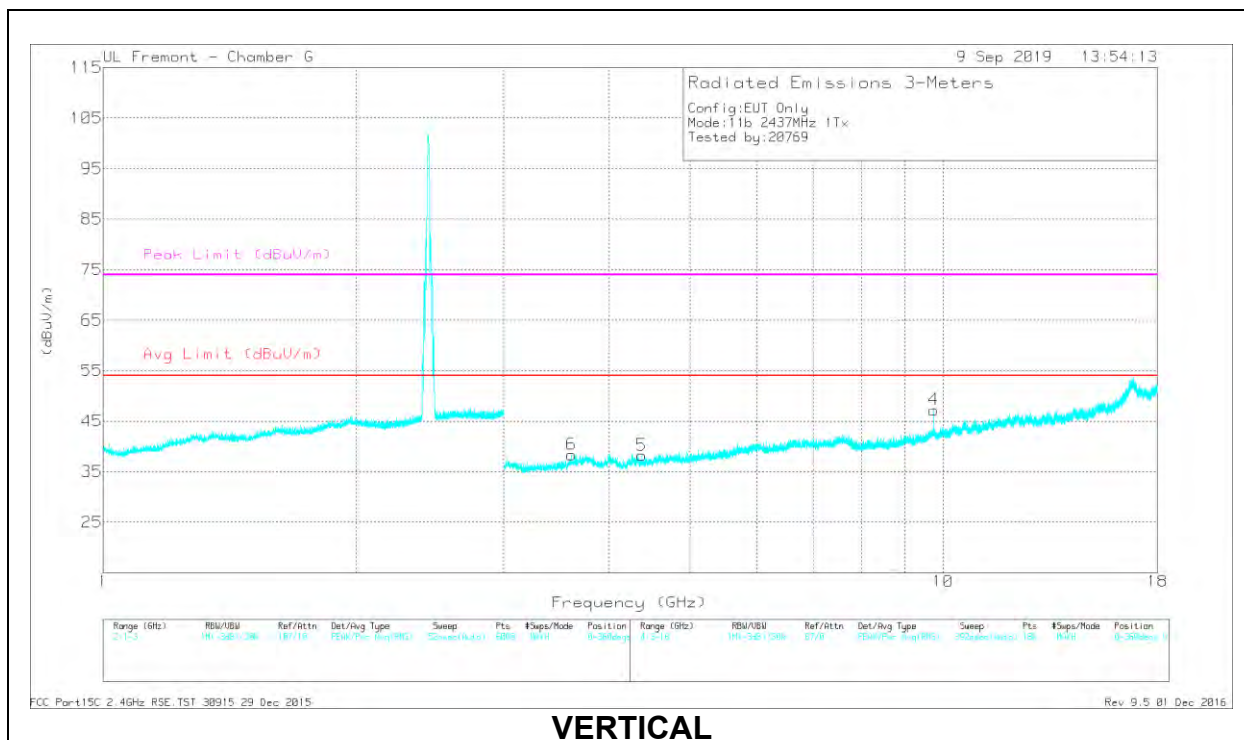
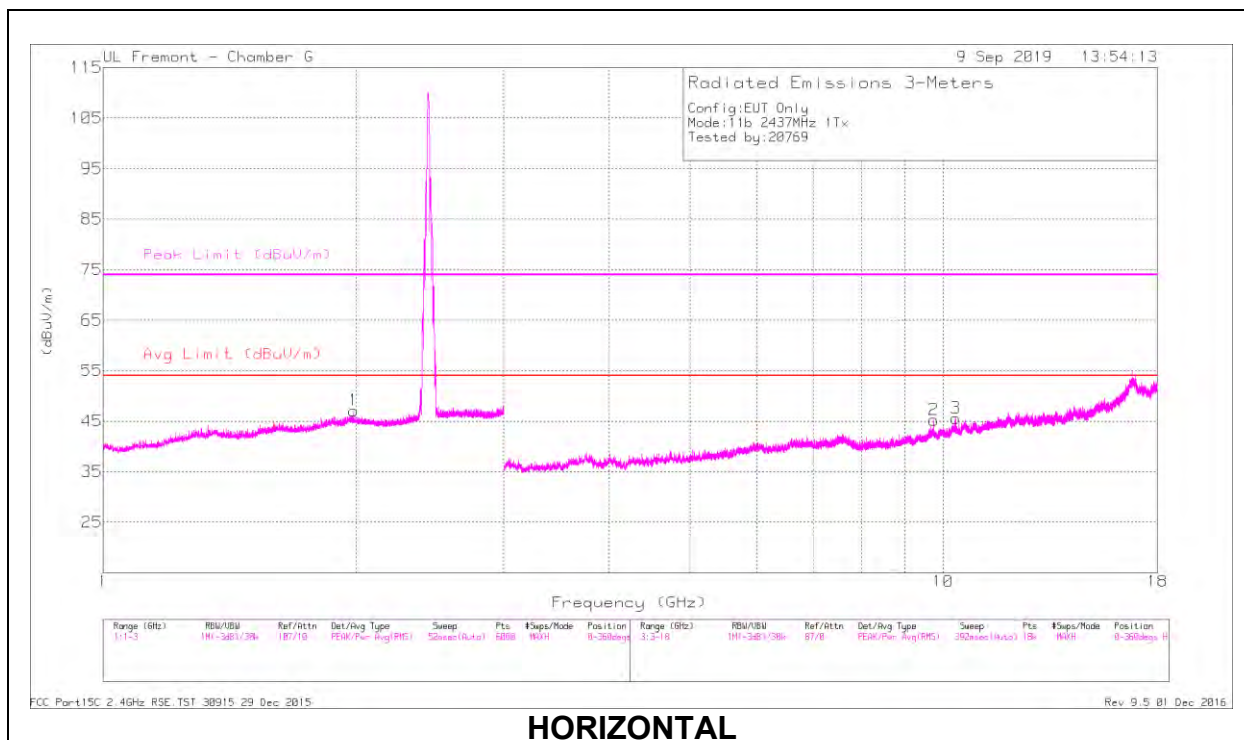
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.506	44.3	PK2	28.3	-22	50.6	-	-	74	-23.4	79	272	H
	* 1.506	32	MAv1	28.3	-22	38.3	54	-15.7	-	-	79	272	H
2	2.106	31.84	MAv1	31.2	-22.4	40.64	-	-	-	-	274	232	V
	2.107	43.98	PK2	31.2	-22.4	52.78	-	-	-	-	274	232	V
3	7.972	39.18	PK2	35.7	-27.4	47.48	-	-	-	-	175	168	H
	7.975	27.53	MAv1	35.7	-27.4	35.83	-	-	-	-	175	168	H
4	* 12.282	36.46	PK2	39	-22.2	53.26	-	-	74	-20.74	289	400	H
	* 12.281	24.88	MAv1	39	-22.2	41.68	54	-12.32	-	-	289	400	H
5	8.524	38.11	PK2	35.8	-26.4	47.51	-	-	-	-	231	361	V
	8.525	26.63	MAv1	35.8	-26.4	36.03	-	-	-	-	231	361	V
6	9.648	40.69	PK2	36.9	-24.7	52.89	-	-	-	-	344	264	V
	9.648	33.38	MAv1	36.9	-24.7	45.58	-	-	-	-	344	264	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, CH 6 RESULTS



RADIATED EMISSIONS

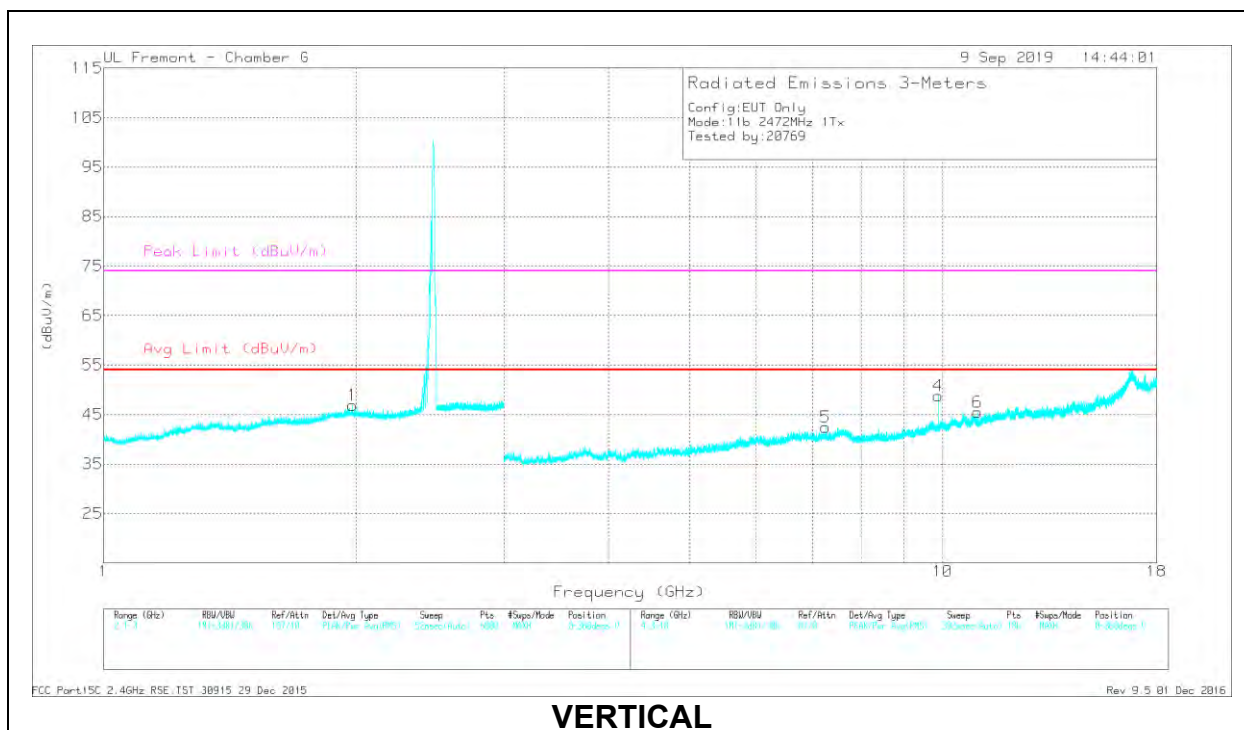
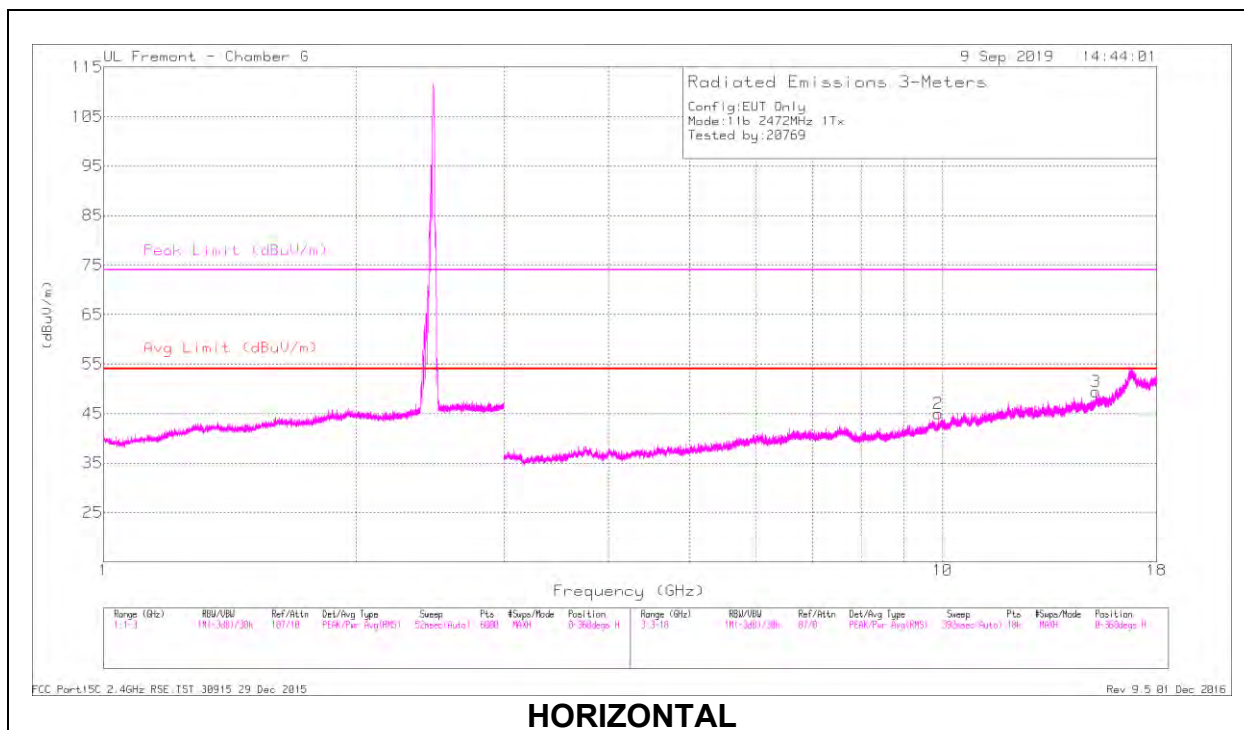
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.986	43.62	PK2	31.9	-22.6	52.92	-	-	-	-	105	240	H
	1.989	31.79	MAv1	31.9	-22.6	41.09	-	-	-	-	105	240	H
2	9.748	39.7	PK2	37	-24.5	52.2	-	-	-	-	93	274	H
	9.748	30.84	MAv1	37	-24.5	43.34	-	-	-	-	93	274	H
3	10.352	25.7	MAv1	37.5	-23.8	39.4	-	-	-	-	352	118	H
	10.353	37.29	PK2	37.5	-23.8	50.99	-	-	-	-	352	118	H
4	9.748	40.13	PK2	37	-24.5	52.63	-	-	-	-	287	119	V
	9.748	32.78	MAv1	37	-24.5	45.28	-	-	-	-	287	119	V
5	* 4.376	41.48	PK2	33.6	-29.7	45.38	-	-	74	-28.62	81	126	V
	* 4.375	29.25	MAv1	33.6	-29.7	33.15	54	-20.85	-	-	81	126	V
6	* 3.609	41.57	PK2	33.1	-30.3	44.37	-	-	74	-29.63	127	225	V
	* 3.61	29.79	MAv1	33.1	-30.3	32.59	54	-21.41	-	-	127	225	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, CH 13 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.981	31.76	MAv1	31.9	-22.7	40.96	-	-	-	-	56	192	V
	1.983	44.06	PK2	31.9	-22.6	53.36	-	-	-	-	56	192	V
2	9.888	39.84	PK2	37	-25	51.84	-	-	-	-	307	124	H
	9.888	29.88	MAv1	37	-25	41.88	-	-	-	-	307	124	H
3	15.247	38.09	PK2	40.7	-22.8	55.99	-	-	-	-	82	227	H
	15.249	25.43	MAv1	40.7	-22.7	43.43	-	-	-	-	82	227	H
4	9.888	42.1	PK2	37	-25	54.1	-	-	-	-	76	257	V
	9.888	35.22	MAv1	37	-25	47.22	-	-	-	-	76	257	V
5	* 7.254	39.55	PK2	36.4	-27.3	48.65	-	-	74	-25.35	175	134	V
	* 7.253	27.51	MAv1	36.4	-27.3	36.61	54	-17.39	-	-	175	134	V
6	* 11.012	36.51	PK2	37.6	-23.3	50.81	-	-	74	-23.19	336	315	V
	* 11.011	24.94	MAv1	37.6	-23.3	39.24	54	-14.76	-	-	336	315	V

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

PK2 - KDB558074 Method: Maximum Peak

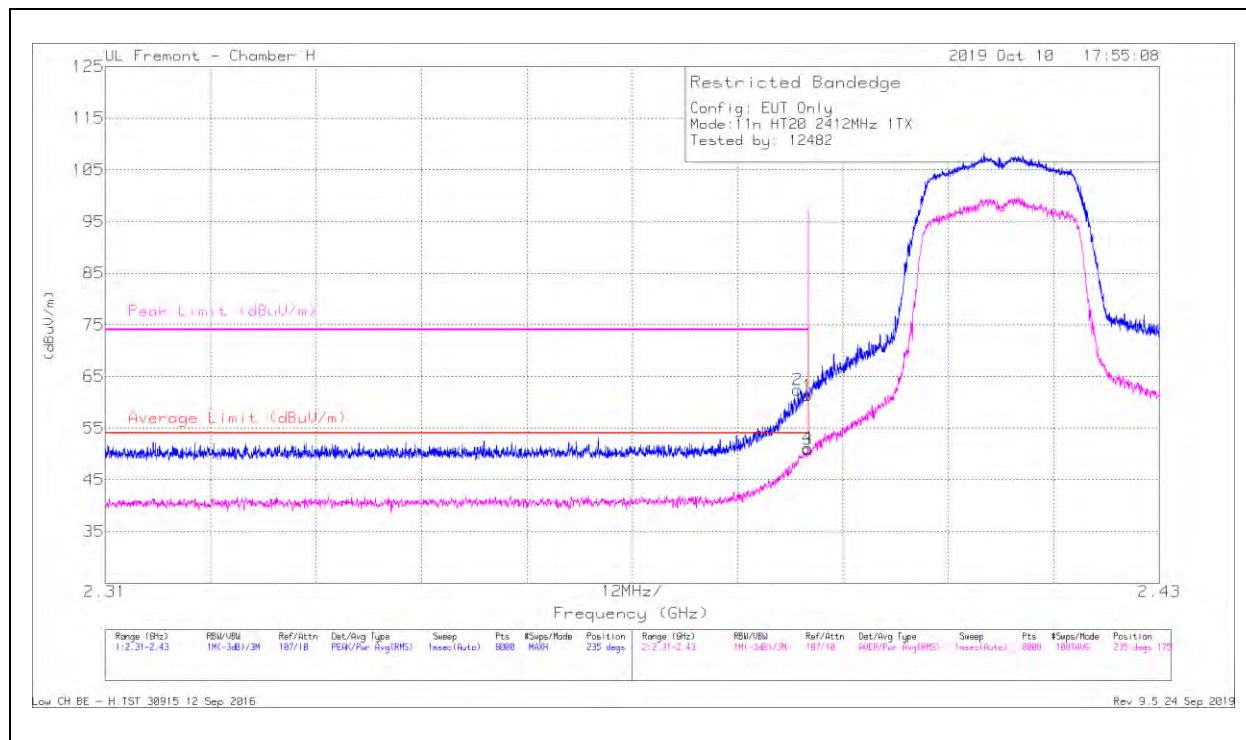
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz

1TX UAT 1

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



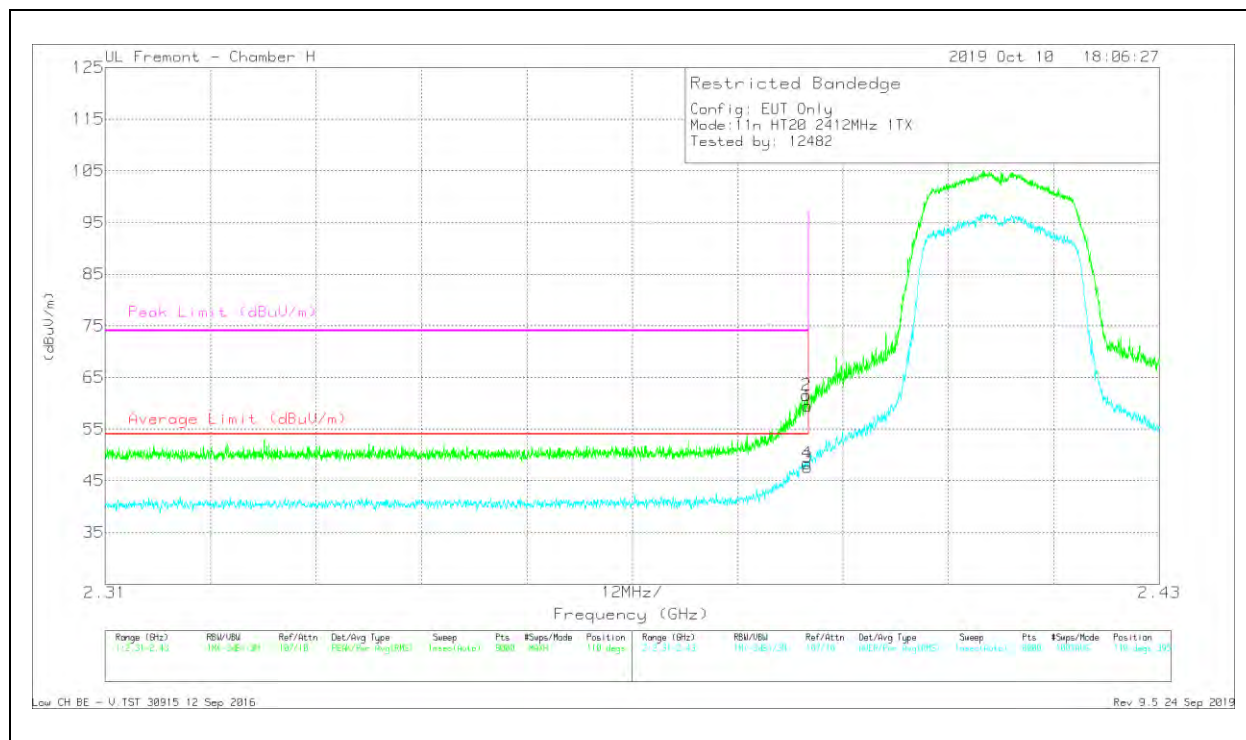
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Ampl/Chl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	52.74	Pk	32.1	-23.5	61.34	-	-	74	-12.66	235	175	H
2	* 2.38884	53.8	Pk	32.1	-23.5	62.4	-	-	74	-11.6	235	175	H
3	* 2.38999	42.28	RMS	32.1	-23.5	50.88	54	-3.12	-	-	235	175	H
4	* 2.38995	42.51	RMS	32.1	-23.5	51.11	54	-2.89	-	-	235	175	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	50.89	Pk	32.1	-23.5	59.49	-	-	74	-14.51	110	395	V
2	* 2.38983	52.95	Pk	32.1	-23.5	61.55	-	-	74	-12.45	110	395	V
3	* 2.38999	38.98	RMS	32.1	-23.5	47.58	54	-6.42	-	-	110	395	V
4	* 2.38987	39.8	RMS	32.1	-23.5	48.4	54	-5.6	-	-	110	395	V

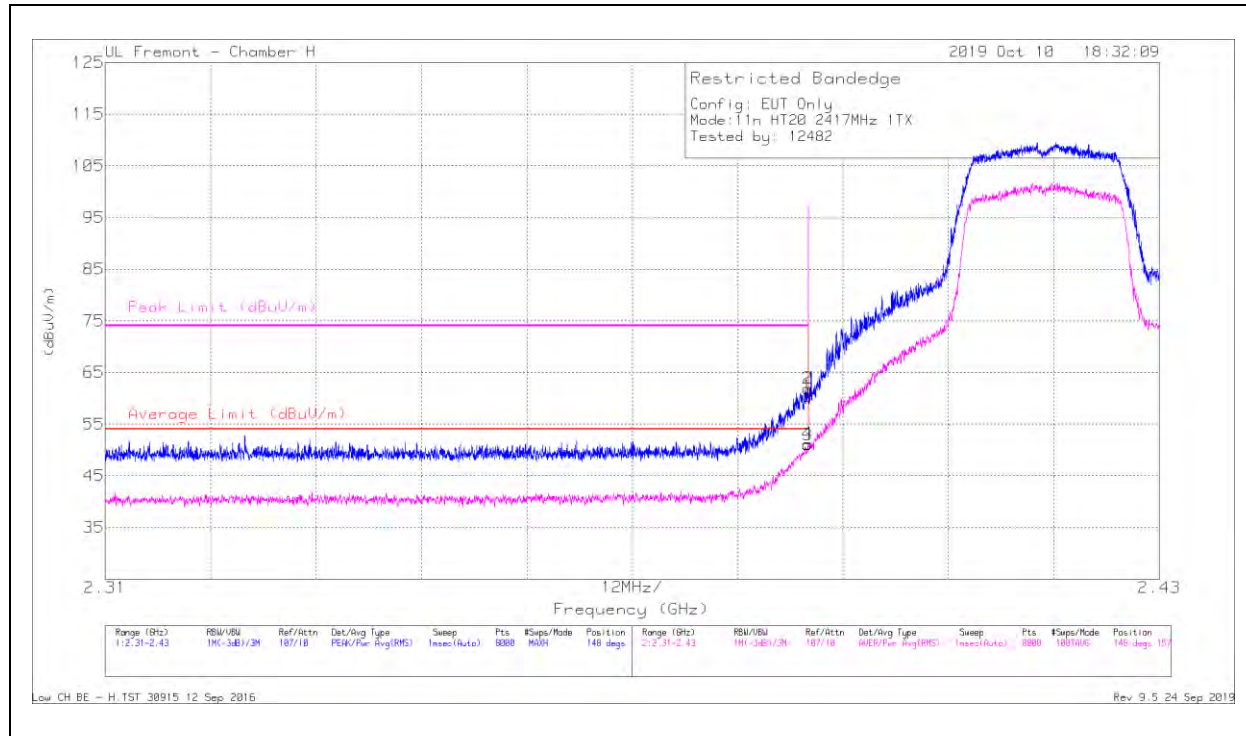
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 2)

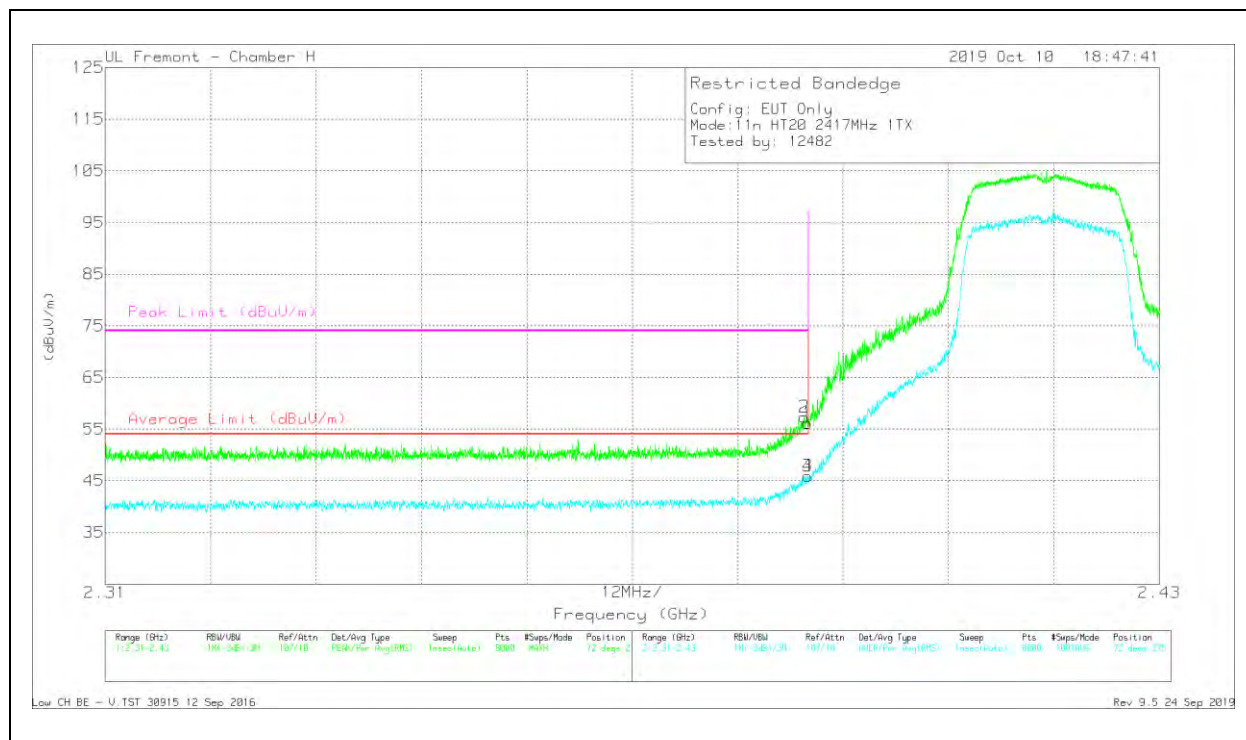
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	51.8	Pk	32.1	-23.5	60.4	-	-	74	-13.6	148	157	H
2	* 2.38996	53.3	Pk	32.1	-23.5	61.9	-	-	74	-12.1	148	157	H
3	* 2.38999	42.38	RMS	32.1	-23.5	50.98	54	-3.02	-	-	148	157	H
4	* 2.38996	42.56	RMS	32.1	-23.5	51.16	54	-2.84	-	-	148	157	H

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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	47.57	Pk	32.1	-23.5	56.17	-	-	74	-17.83	72	275	V
2	* 2.38957	48.74	Pk	32.1	-23.5	57.34	-	-	74	-16.66	72	275	V
3	* 2.38999	37.33	RMS	32.1	-23.5	45.93	54	-8.07	-	-	72	275	V
4	* 2.38998	37.32	RMS	32.1	-23.5	45.92	54	-8.08	-	-	72	275	V

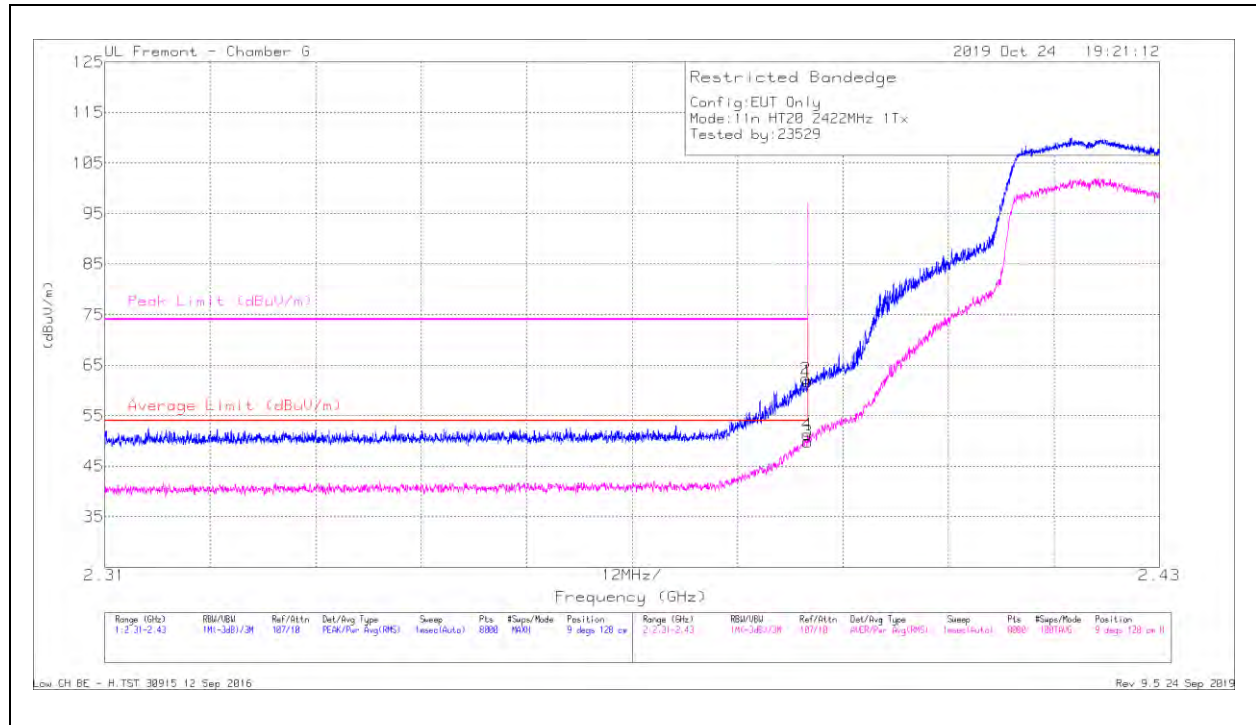
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 3)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	52.08	Pk	31.9	-22.2	61.78	-	-	74	-12.22	9	128	H
2	* 2.38975	52.67	Pk	31.9	-22.2	62.37	-	-	74	-11.63	9	128	H
3	* 2.38999	40.16	RMS	31.9	-22.2	49.86	54	-4.14	-	-	9	128	H
4	* 2.38995	41.57	RMS	31.9	-22.2	51.27	54	-2.73	-	-	9	128	H

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

UL Fremont - Chamber 6

2019 Oct 24 19:30:39

Restricted Bandedge
Config: EUT Only
Mode: 11n HT20 2422MHz 1Tx
Tested by: 23529

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

12MHz/

Frequency (GHz)

Range (GHz)	RBW/VBW	Ref/Attn	Det/Avg Type	Sweep	PLs	#Sups/Mode	Position	Range (GHz)	RBW/VBW	Ref/Attn	Det/Avg Type	Sweep	PLs	#Sups/Mode	Position
1.2-2.43	100/300/30	10/10	100/100	100/100	100	100	203 degs 345 s	2.2-2.43	100/300/30	10/10	100/100	100/100	100	100	203 degs 345 s

Low CH BE - U.TST 30915 12 Sep 2016

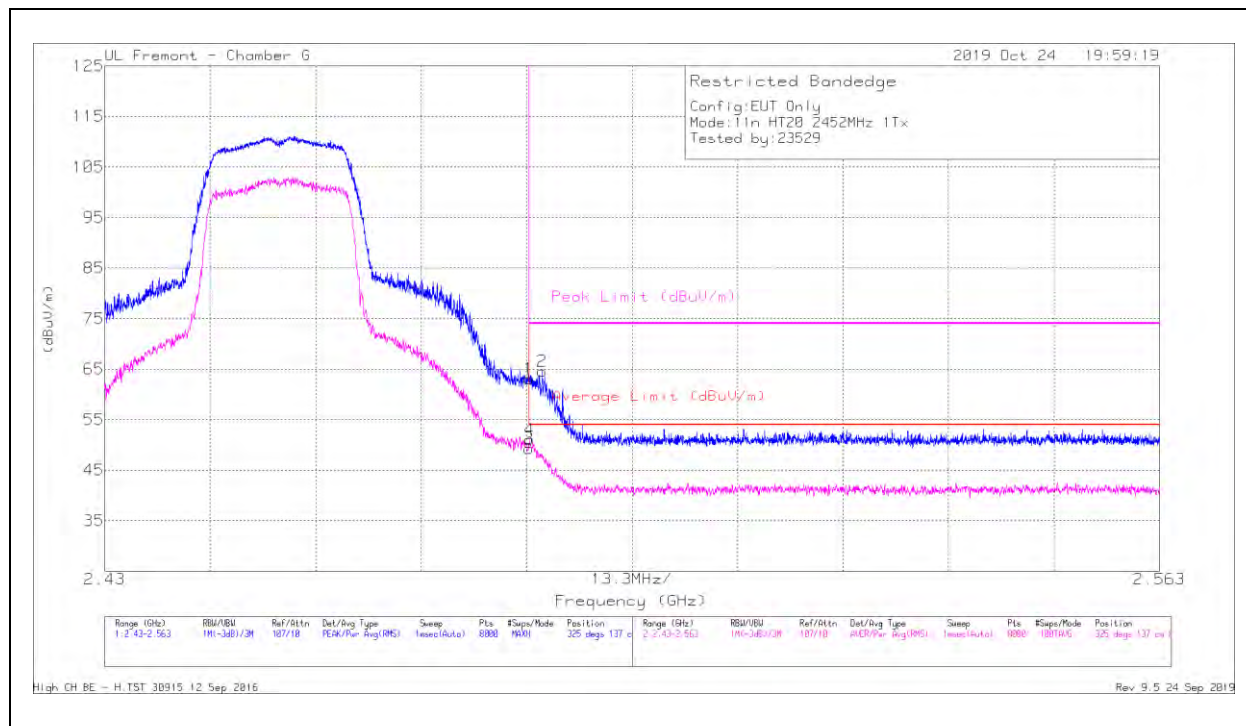
Rev 9.5 24 Sep 2019

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	48.54	Pk	31.9	-22.2	58.24	-	-	74	-15.76	263	346	V
2	* 2.38972	49.15	Pk	31.9	-22.2	58.85	-	-	74	-15.15	263	346	V
3	* 2.38999	37.66	RMS	31.9	-22.2	47.36	54	-6.64	-	-	263	346	V
4	* 2.38987	37.94	RMS	31.9	-22.2	47.64	54	-6.36	-	-	263	346	V

Pk - Peak detector
RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 9)

HORIZONTAL RESULT



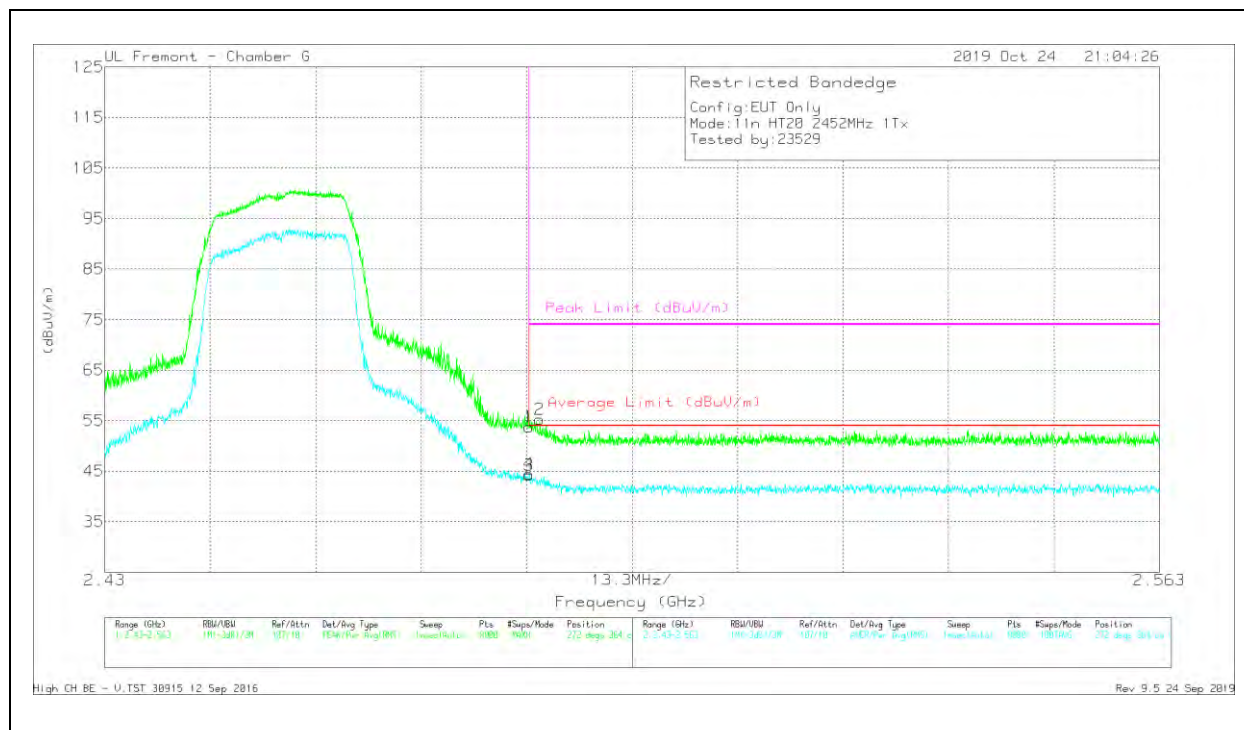
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	52.68	Pk	32.5	-22.1	63.08	-	-	74	-10.92	325	137	H
2	* 2.48515	54.31	Pk	32.5	-22.2	64.61	-	-	74	-9.39	325	137	H
3	* 2.48351	38.87	RMS	32.5	-22.1	49.27	54	-4.73	-	-	325	137	H
4	* 2.48356	40.59	RMS	32.5	-22.1	50.99	54	-3.01	-	-	325	137	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (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	43.33	Pk	32.5	-22.1	53.73	-	-	74	-20.27	272	364	V
2	* 2.48485	44.82	Pk	32.5	-22.1	55.22	-	-	74	-18.78	272	364	V
3	* 2.48351	33.79	RMS	32.5	-22.1	44.19	54	-9.81	-	-	272	364	V
4	* 2.48352	34.09	RMS	32.5	-22.1	44.49	54	-9.51	-	-	272	364	V

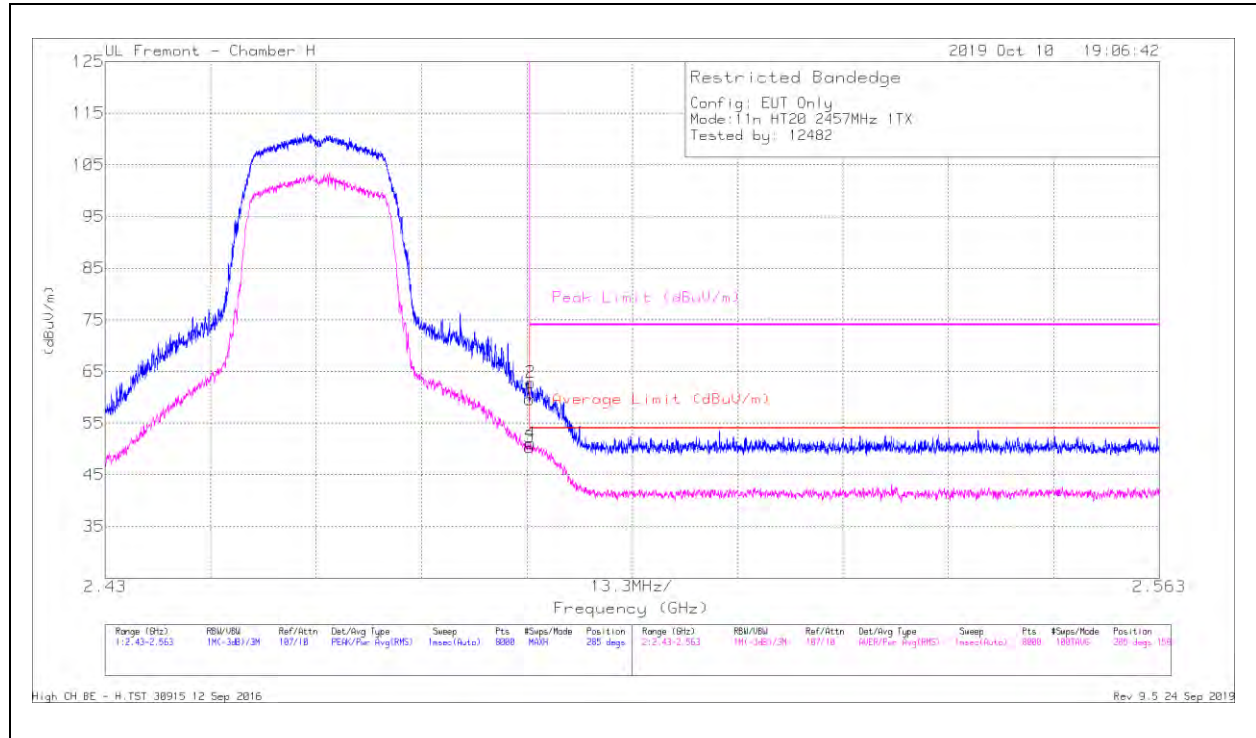
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 10)

HORIZONTAL RESULT



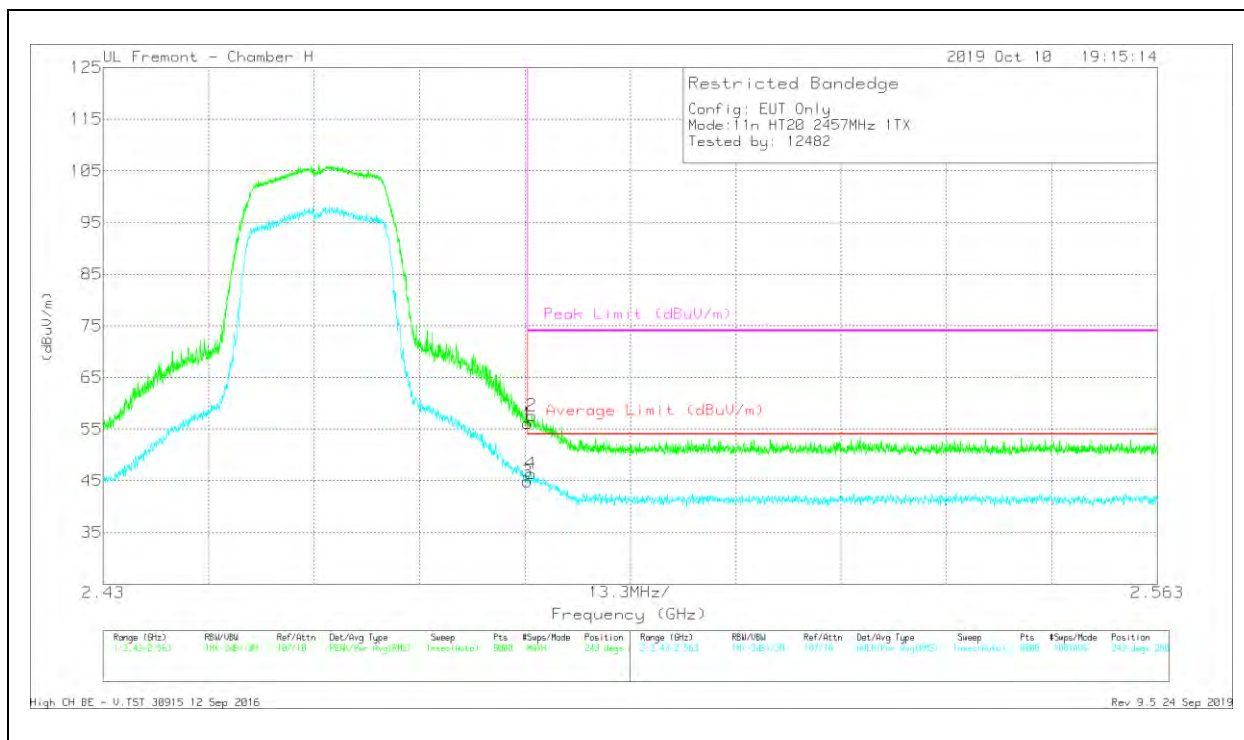
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	50.4	Pk	32.5	-23.3	59.6	-	-	74	-14.4	285	158	H
2	* 2.48369	53.67	Pk	32.5	-23.3	62.87	-	-	74	-11.13	285	158	H
3	* 2.48351	41.12	RMS	32.5	-23.3	50.32	54	-3.68	-	-	285	158	H
4	* 2.48366	41.9	RMS	32.5	-23.3	51.1	54	-2.9	-	-	285	158	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (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	46.9	Pk	32.5	-23.3	56.1	-	-	74	-17.9	243	280	V
2	* 2.48405	48.41	Pk	32.5	-23.3	57.61	-	-	74	-16.39	243	280	V
3	* 2.48351	35.69	RMS	32.5	-23.3	44.89	54	-9.11	-	-	243	280	V
4	* 2.48397	37.23	RMS	32.5	-23.3	46.43	54	-7.57	-	-	243	280	V

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

Pk - Peak detector

RMS - RMS detection