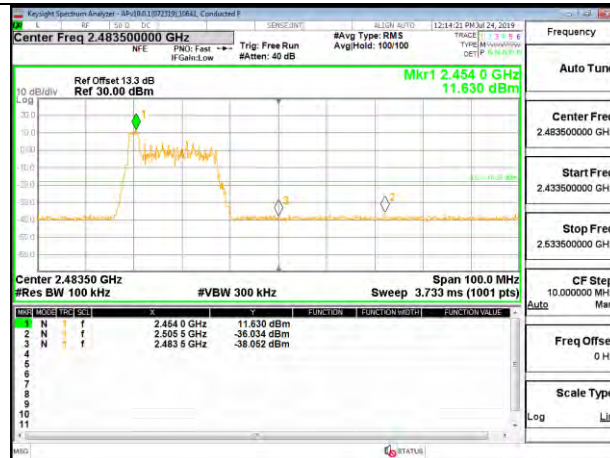




HIGH CHANNEL 10 BANDEDGE ANT 3



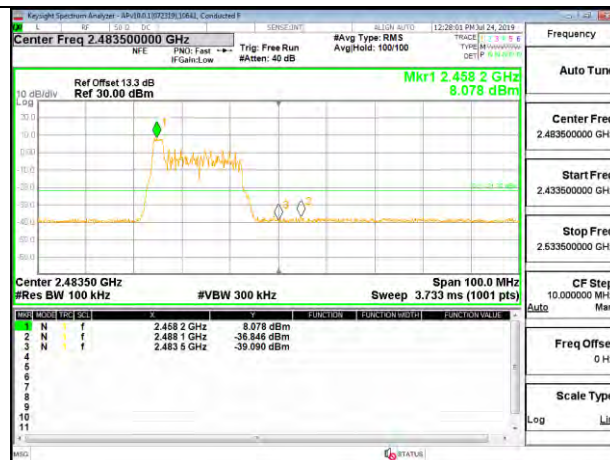
OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



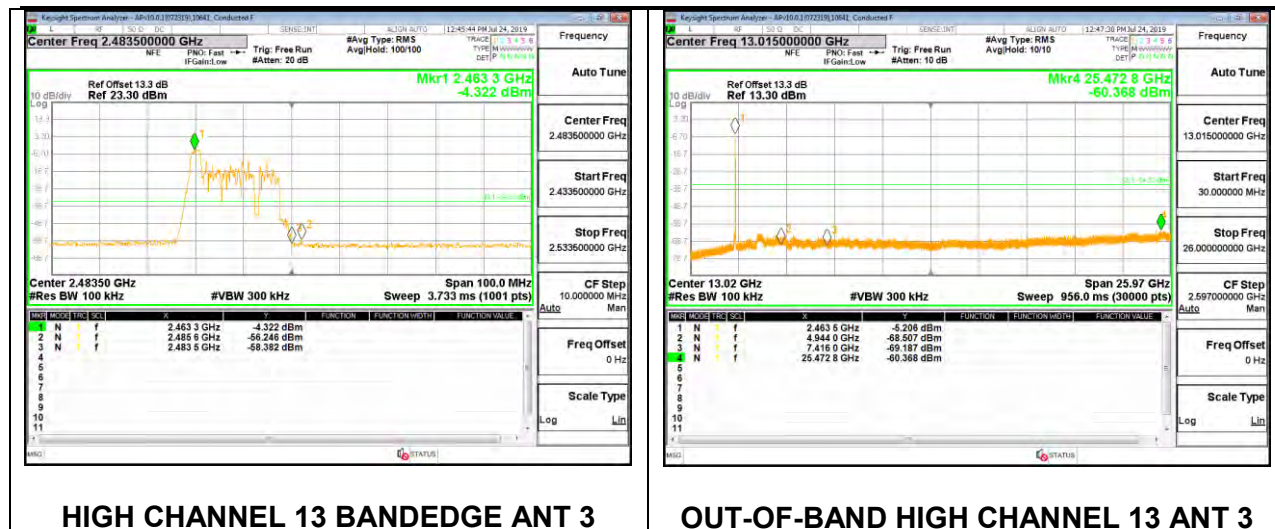
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



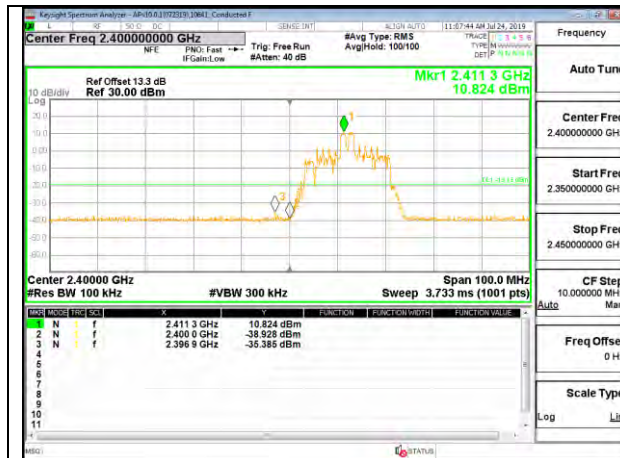
HIGH CHANNEL 12 BANDEDGE ANT 3



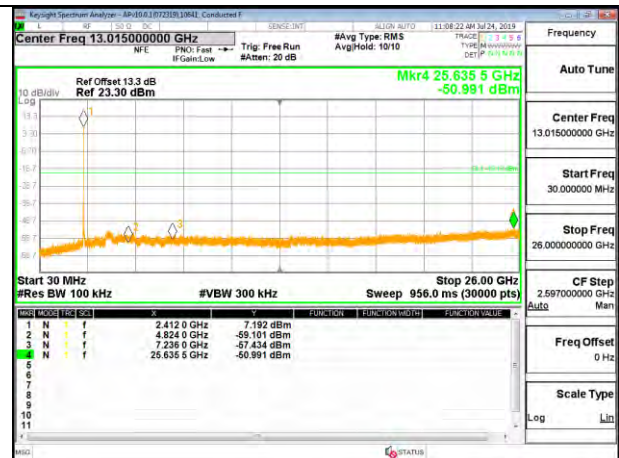
OUT-OF-BAND HIGH CHANNEL 12 ANT 3



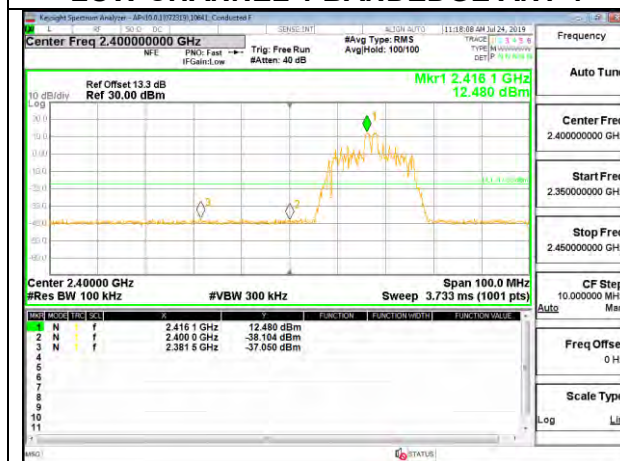
Antenna 4 + Antenna 3 2TX MODE, 26-Tone RU Index 4



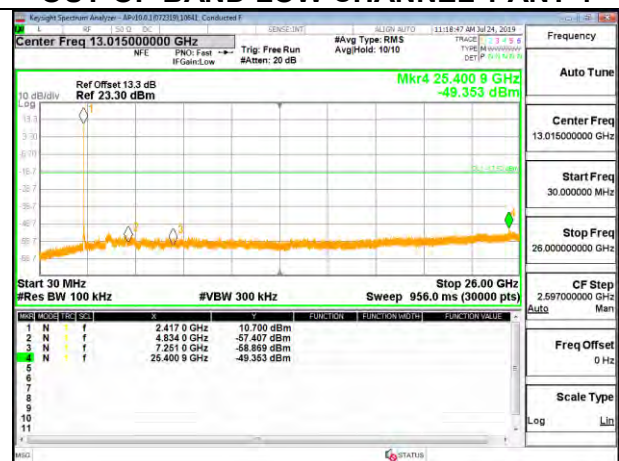
LOW CHANNEL 1 BANDEDGE ANT 4



OUT-OF-BAND LOW CHANNEL 1 ANT 4



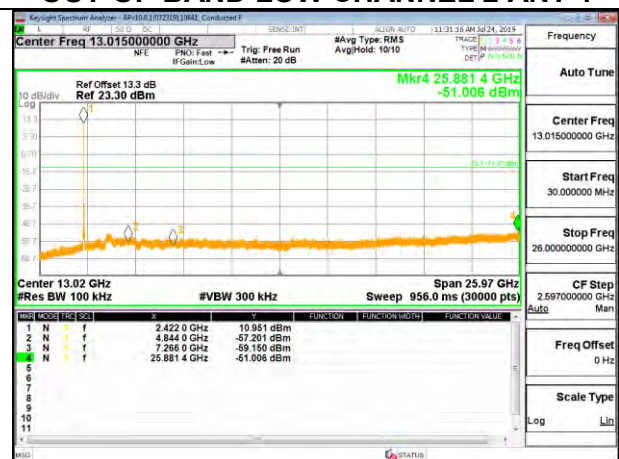
LOW CHANNEL 2 BANDEDGE ANT 4



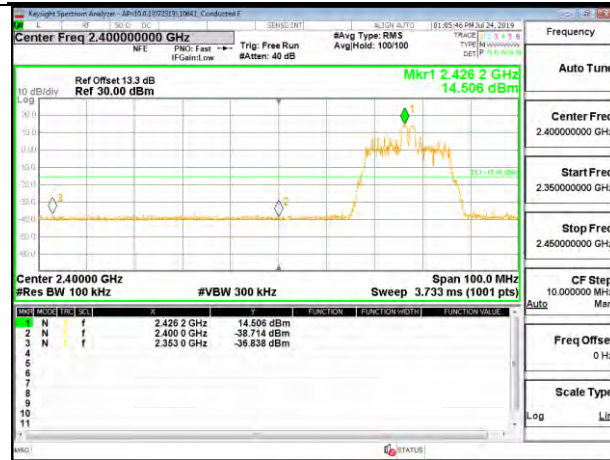
OUT-OF-BAND LOW CHANNEL 2 ANT 4



LOW CHANNEL 3 BANDEDGE ANT 4



OUT-OF-BAND LOW CHANNEL 3 ANT 4



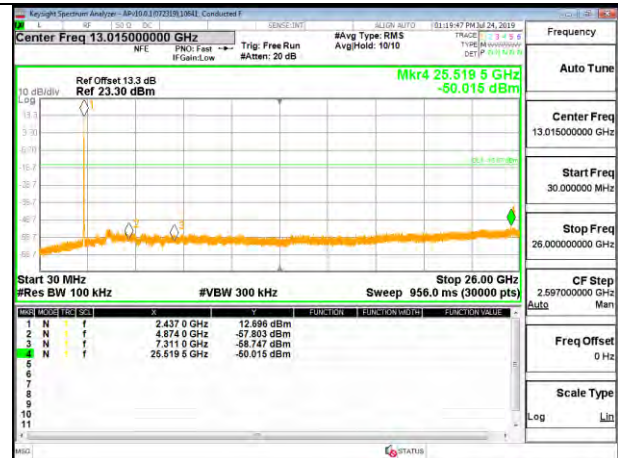
LOW CHANNEL 4 BANDEDGE ANT 4



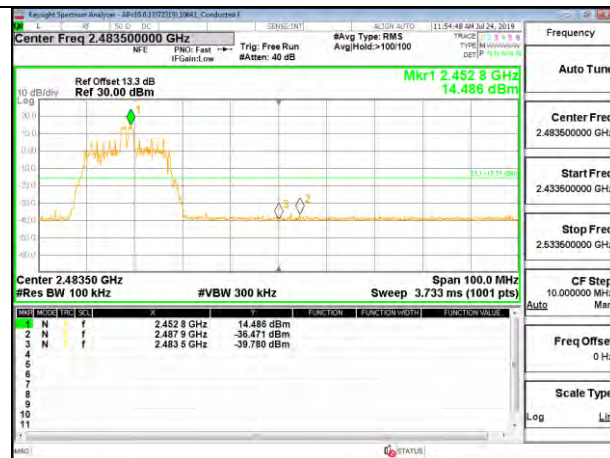
OUT-OF-BAND LOW CHANNEL 4 ANT 4



IN-BAND REFERENCE LEVEL ANT 4



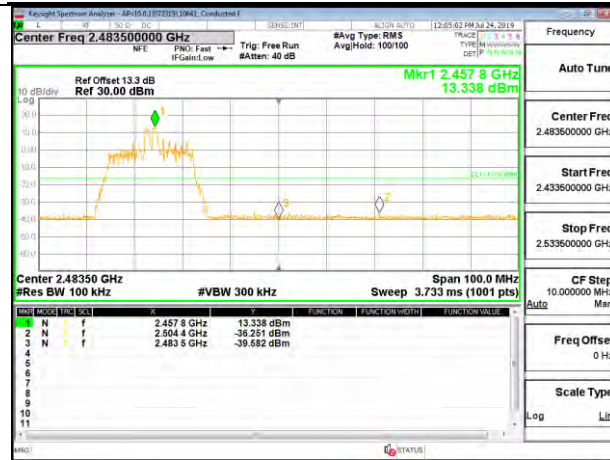
OUT-OF-BAND MID CHANNEL ANT 4



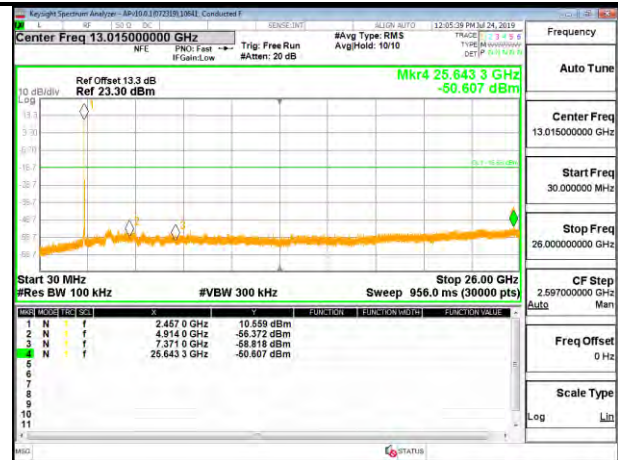
HIGH CHANNEL 9 BANDEDGE ANT 4



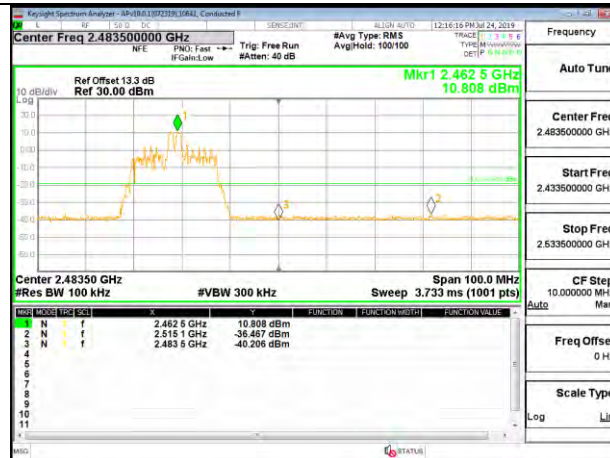
OUT-OF-BAND HIGH CHANNEL 9 ANT 4



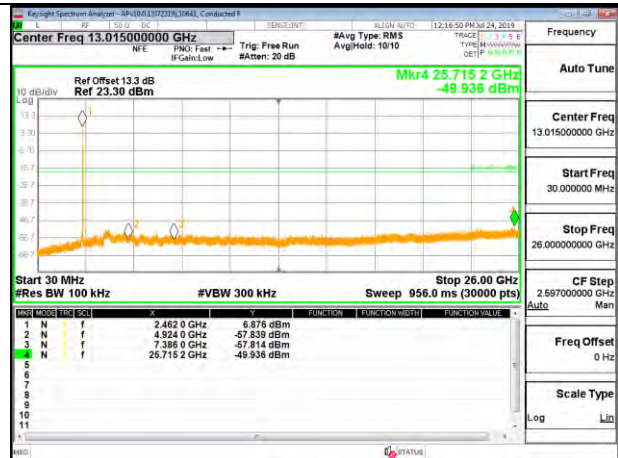
HIGH CHANNEL 10 BANDEDGE ANT 4



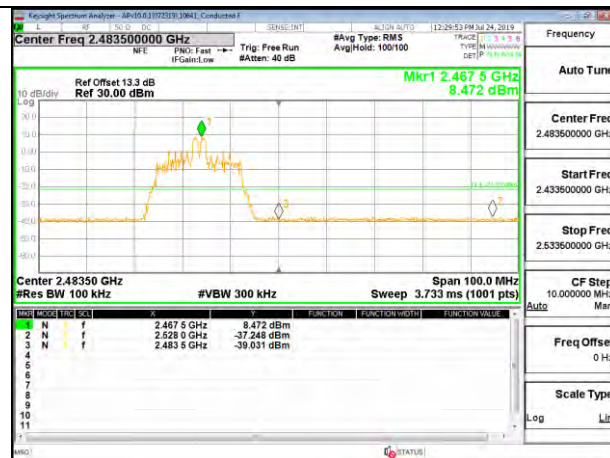
OUT-OF-BAND HIGH CHANNEL 10 ANT 4



HIGH CHANNEL 11 BANDEDGE ANT 4



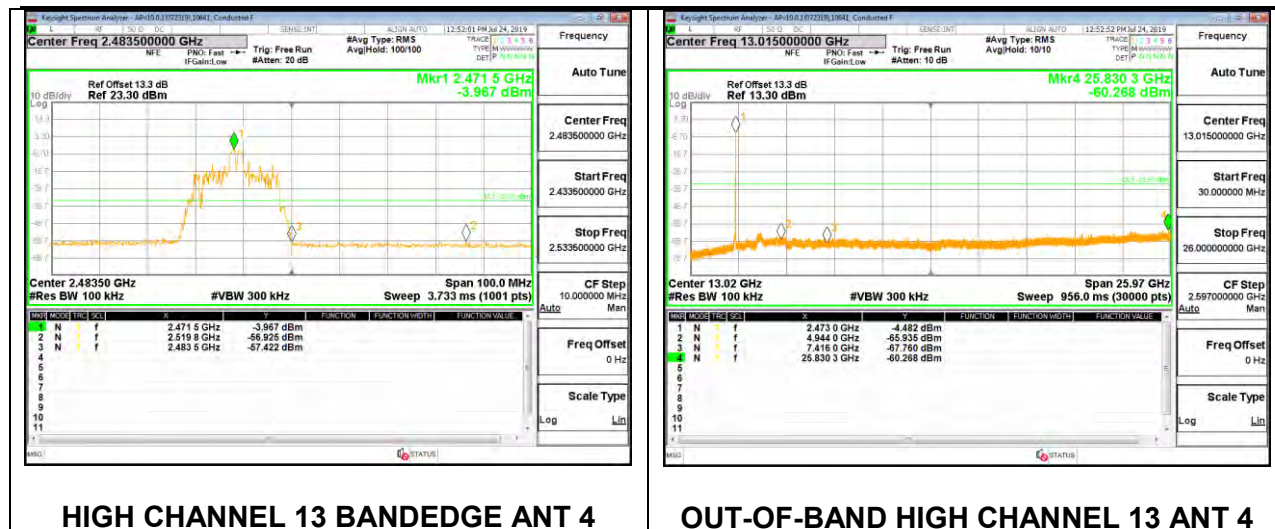
OUT-OF-BAND HIGH CHANNEL 11 ANT 4

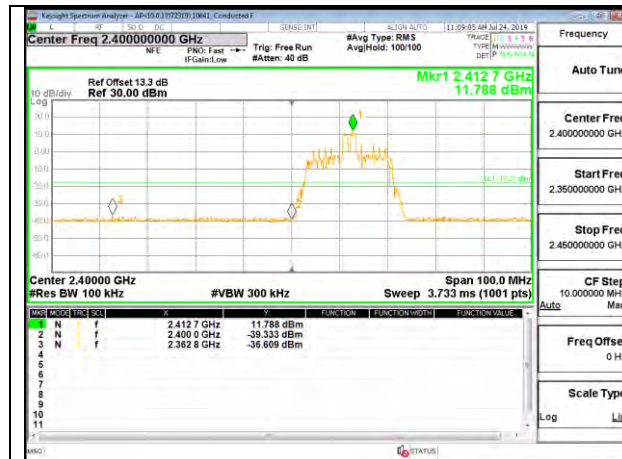


HIGH CHANNEL 12 BANDEDGE ANT 4

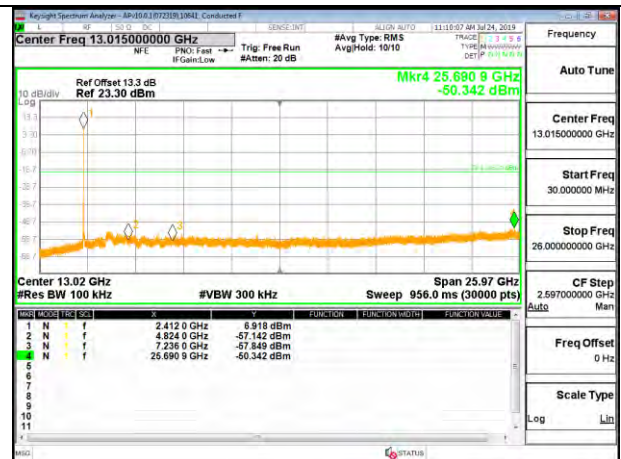


OUT-OF-BAND HIGH CHANNEL 12 ANT 4





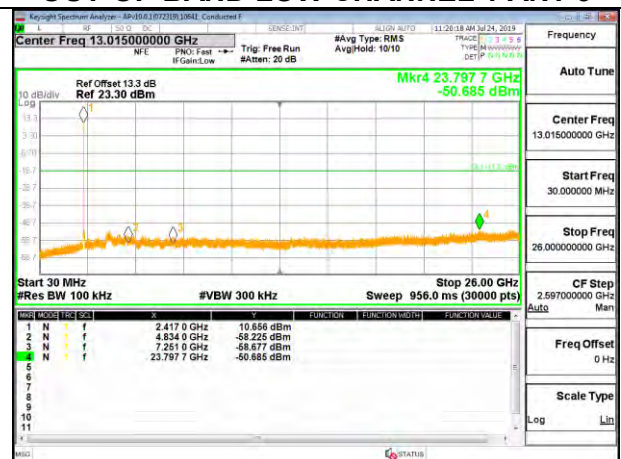
LOW CHANNEL 1 BANDEDGE ANT 3



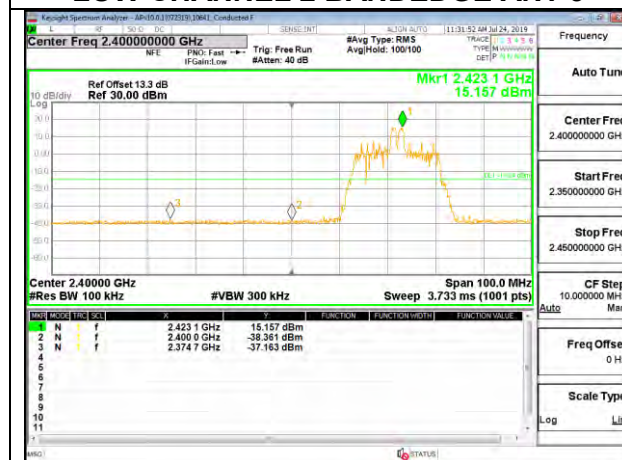
OUT-OF-BAND LOW CHANNEL 1 ANT 3



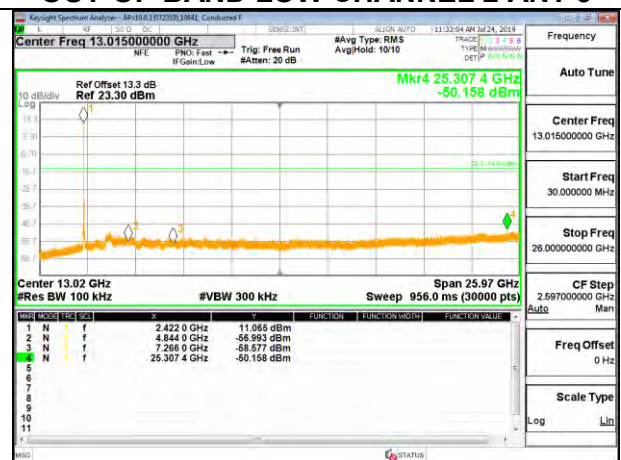
LOW CHANNEL 2 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 2 ANT 3



LOW CHANNEL 3 BANDEDGE ANT 3



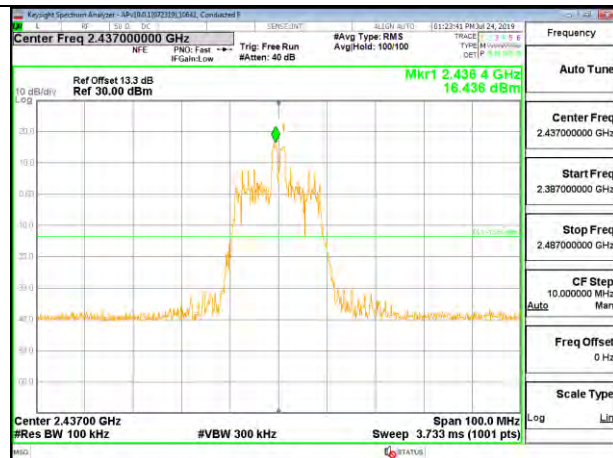
OUT-OF-BAND LOW CHANNEL 3 ANT 3



LOW CHANNEL 4 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 4 ANT 3



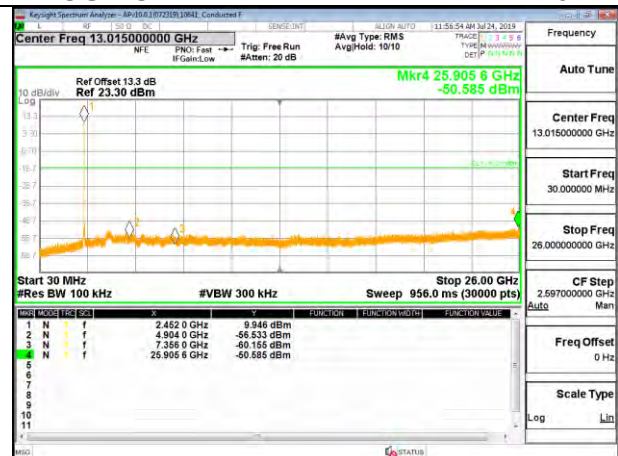
IN-BAND REFERENCE LEVEL ANT 3



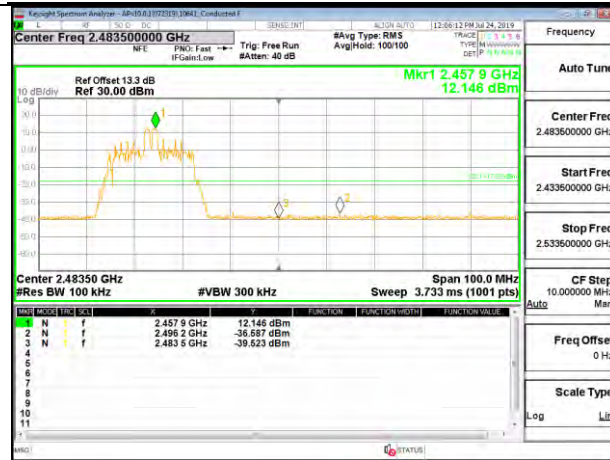
OUT-OF-BAND MID CHANNEL ANT 3



HIGH CHANNEL 9 BANDEDGE ANT 3



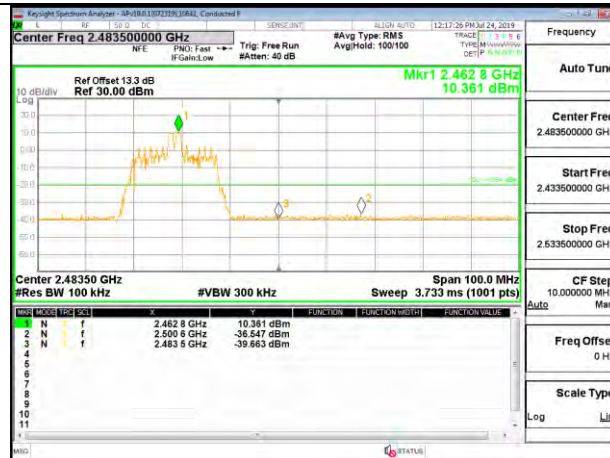
OUT-OF-BAND HIGH CHANNEL 9 ANT 3



HIGH CHANNEL 10 BANDEDGE ANT 3



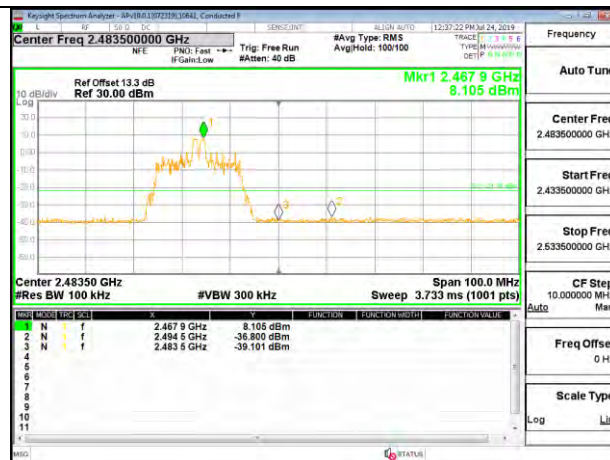
OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 11 ANT 3



HIGH CHANNEL 12 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 12 ANT 3

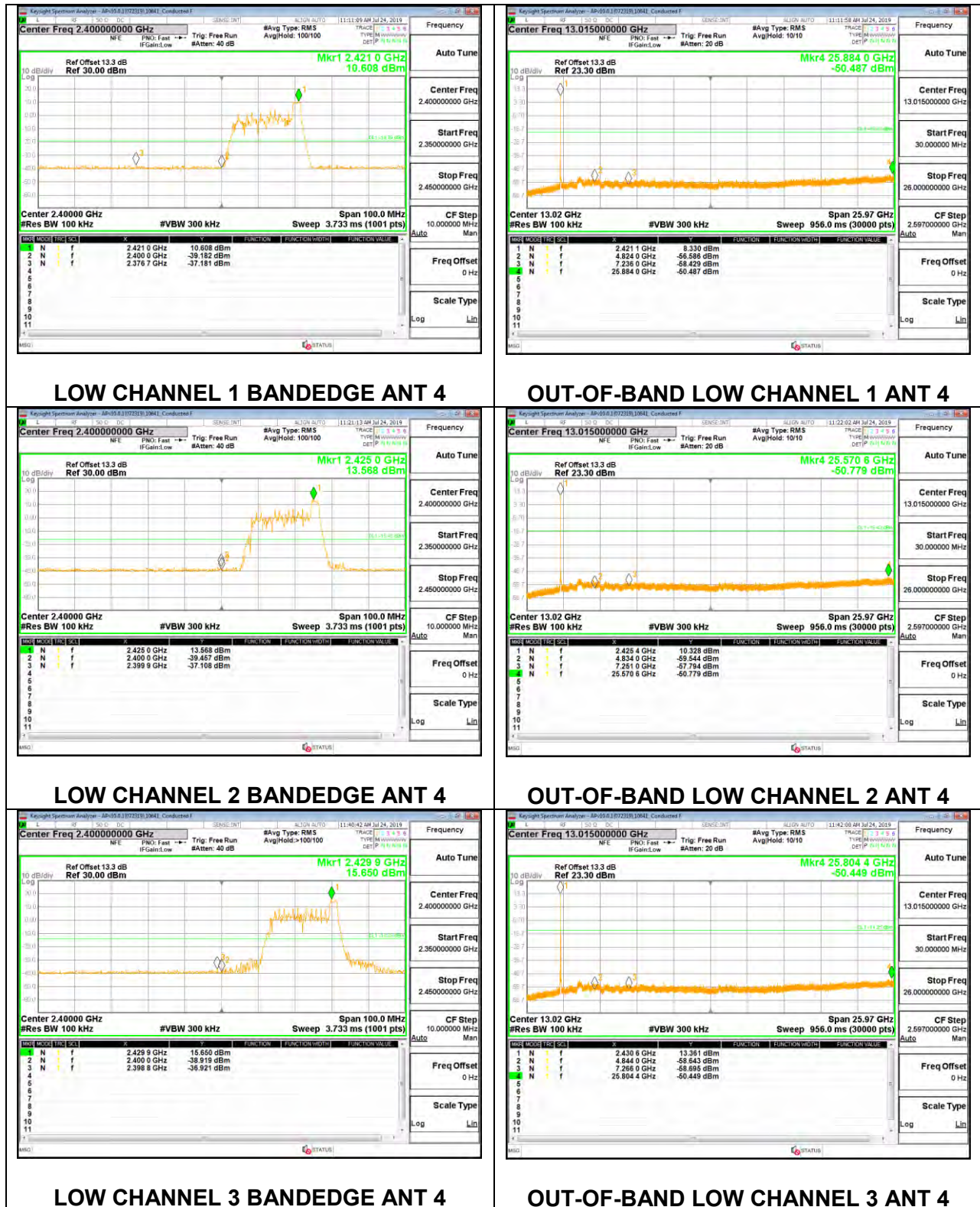


HIGH CHANNEL 13 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 13 ANT 3

Antenna 4 + Antenna 3 2TX MODE, 26-Tone RU Index 8

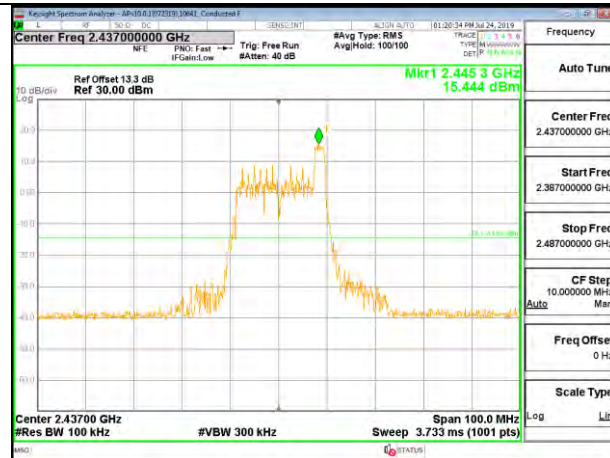




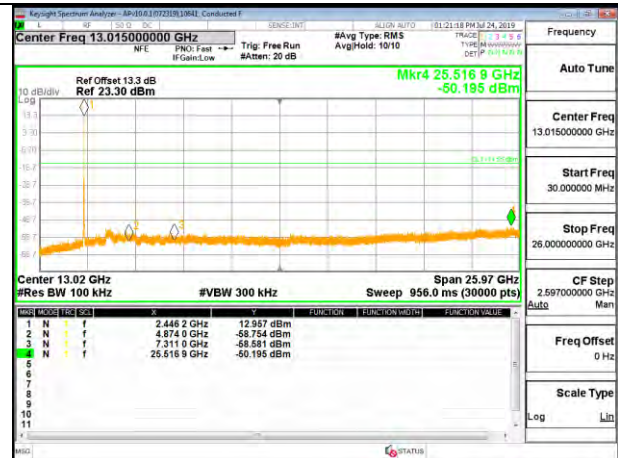
LOW CHANNEL 4 BANDEDGE ANT 4



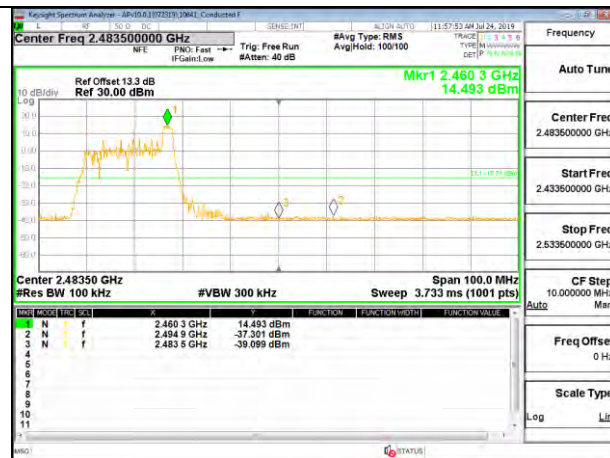
OUT-OF-BAND LOW CHANNEL 4 ANT 4



IN-BAND REFERENCE LEVEL ANT 4



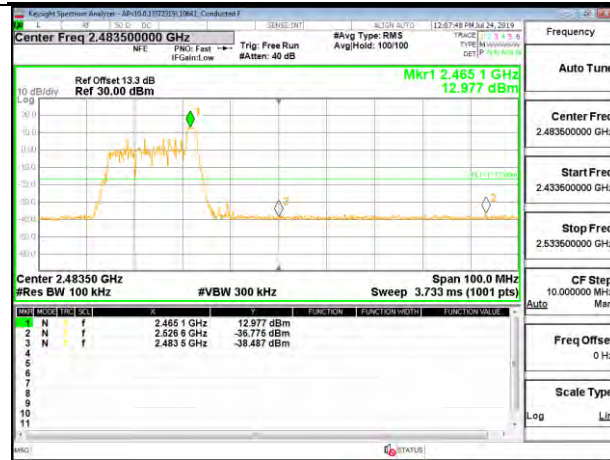
OUT-OF-BAND MID CHANNEL ANT 4



HIGH CHANNEL 9 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 9 ANT 4



HIGH CHANNEL 10 BANDEDGE ANT 4



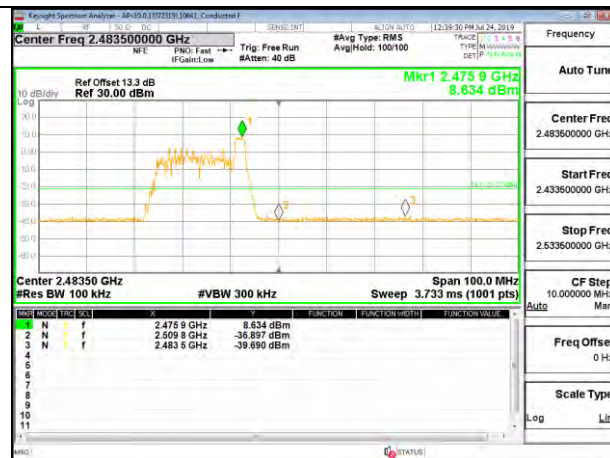
OUT-OF-BAND HIGH CHANNEL 10 ANT 4



HIGH CHANNEL 11 BANDEDGE ANT 4



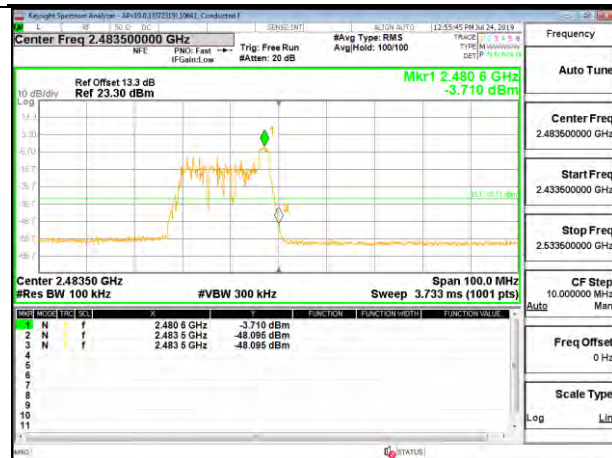
OUT-OF-BAND HIGH CHANNEL 11 ANT 4



HIGH CHANNEL 12 BANDEDGE ANT 4



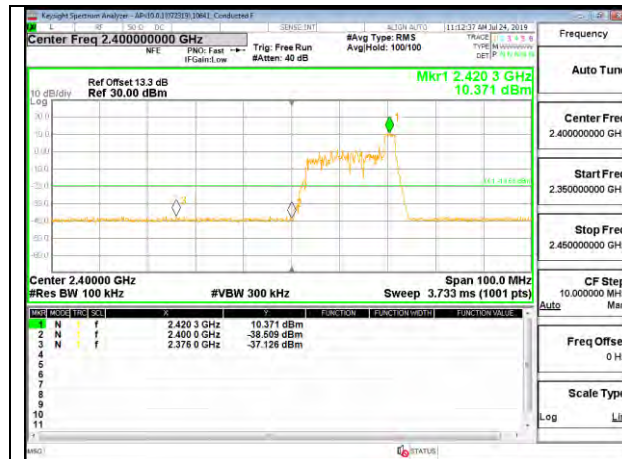
OUT-OF-BAND HIGH CHANNEL 12 ANT 4



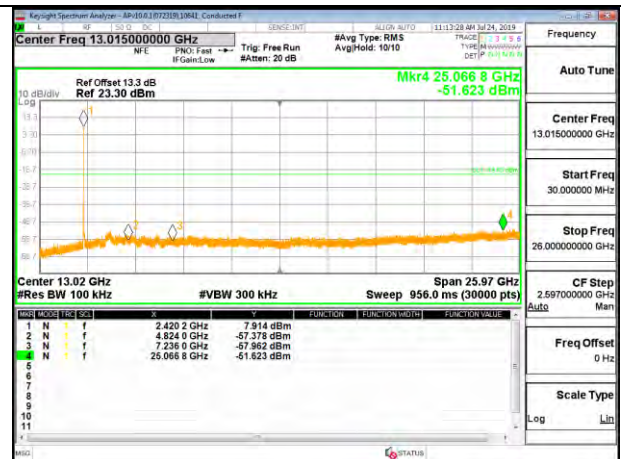
HIGH CHANNEL 13 BANDEDGE ANT 4



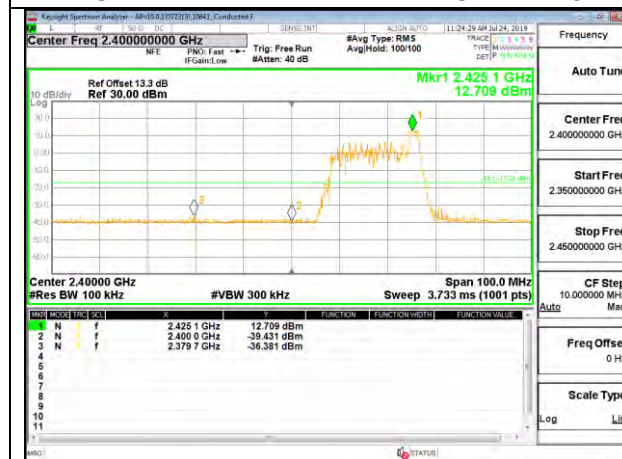
OUT-OF-BAND HIGH CHANNEL 13 ANT 4



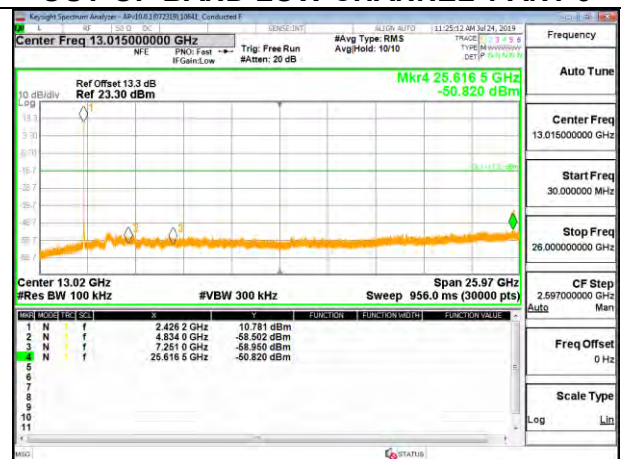
LOW CHANNEL 1 BANDEDGE ANT 3



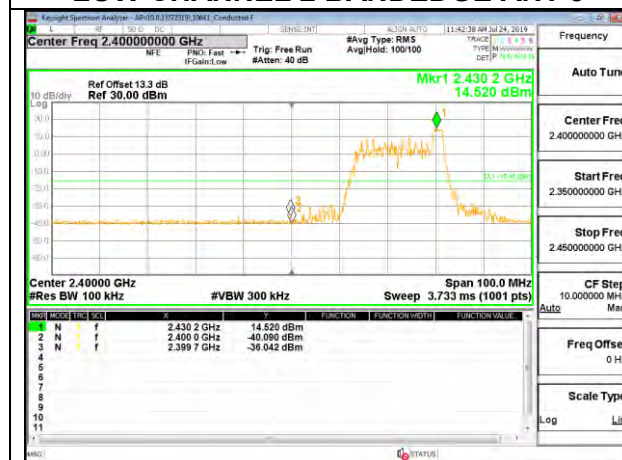
OUT-OF-BAND LOW CHANNEL 1 ANT 3



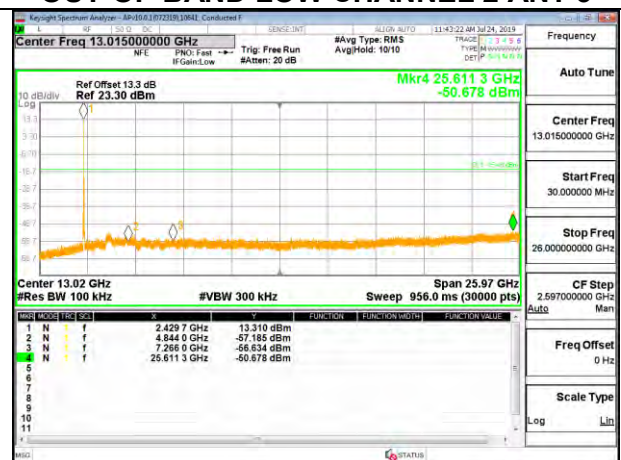
LOW CHANNEL 2 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 2 ANT 3



LOW CHANNEL 3 BANDEDGE ANT 3



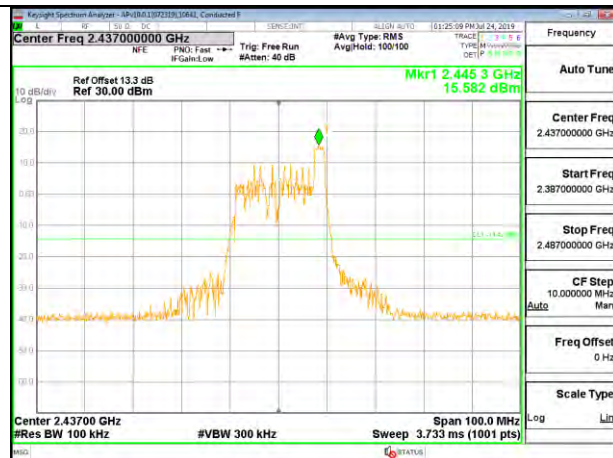
OUT-OF-BAND LOW CHANNEL 3 ANT 3



LOW CHANNEL 4 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 4 ANT 3



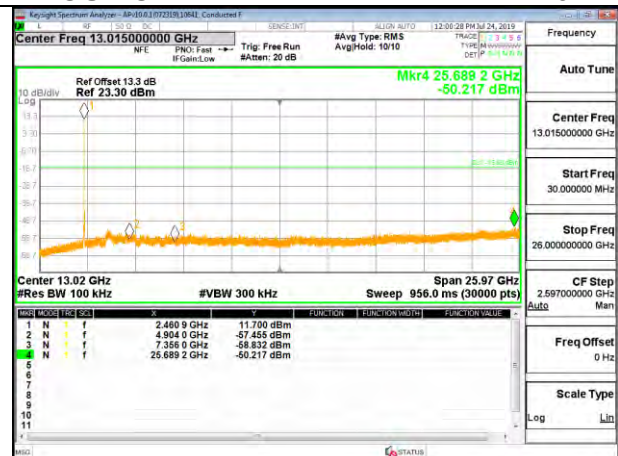
IN-BAND REFERENCE LEVEL ANT 3



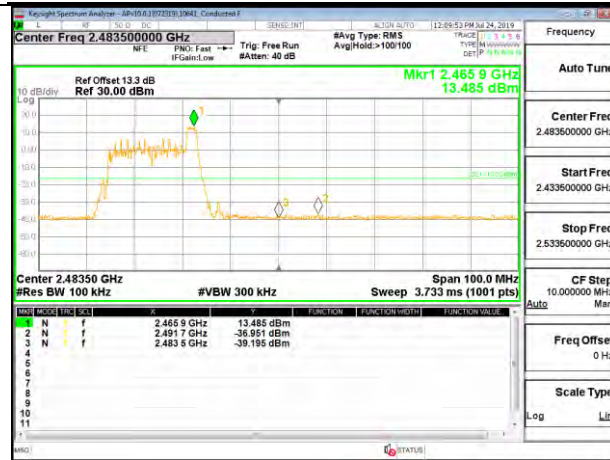
OUT-OF-BAND MID CHANNEL ANT 3



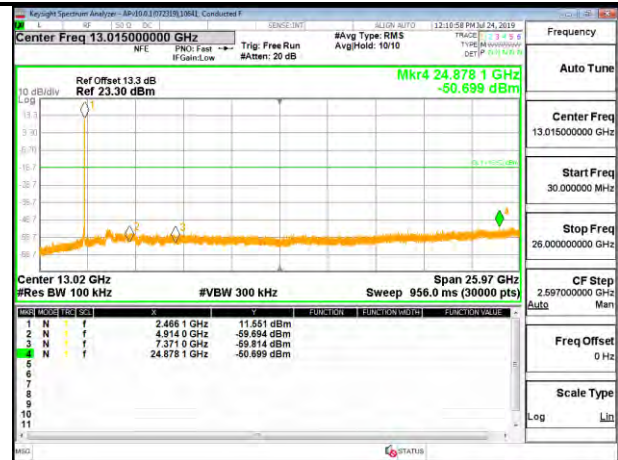
HIGH CHANNEL 9 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 9 ANT 3



HIGH CHANNEL 10 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



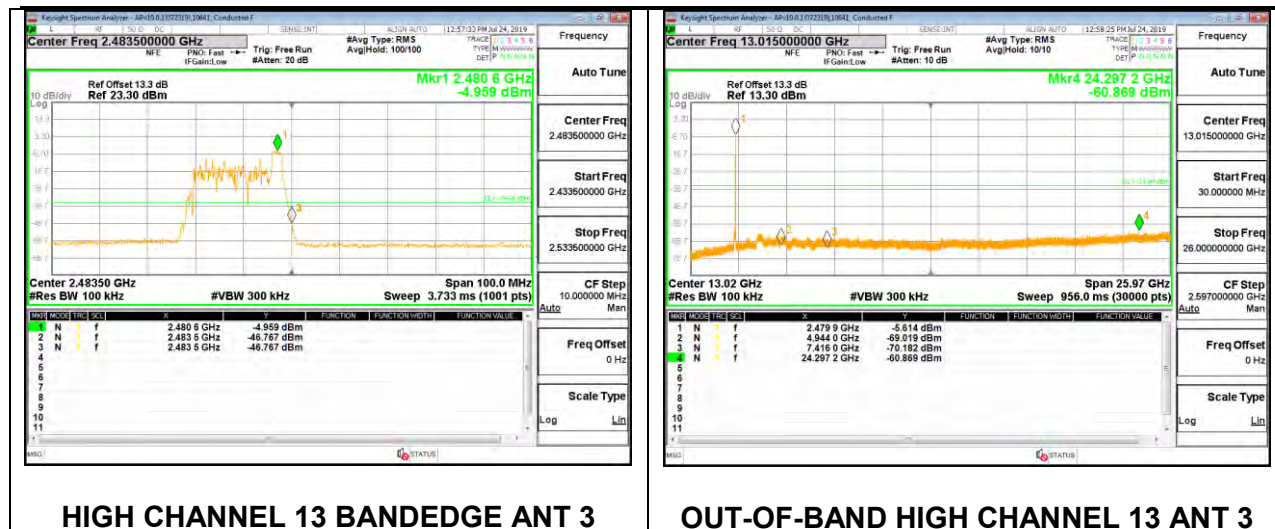
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



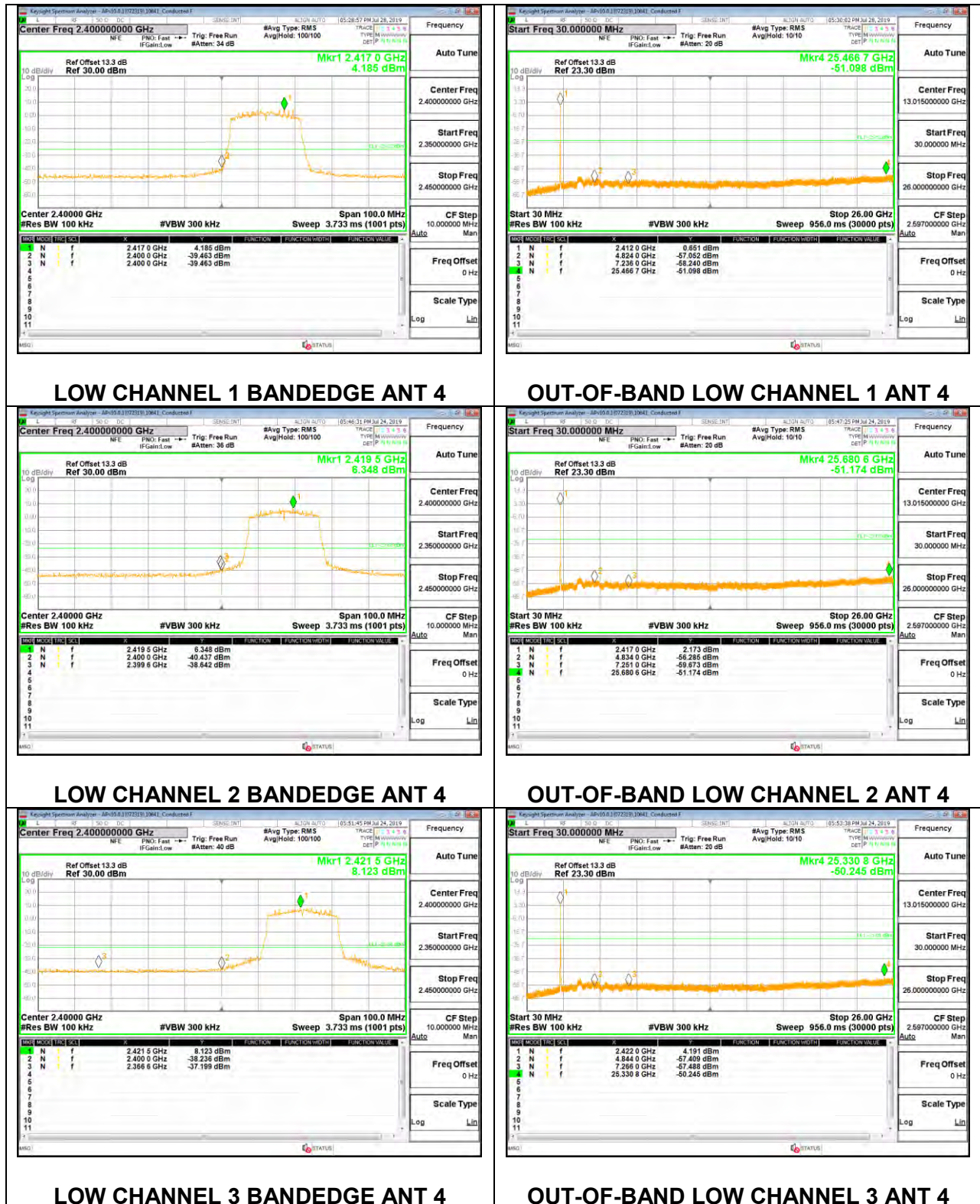
HIGH CHANNEL 12 BANDEDGE ANT 3

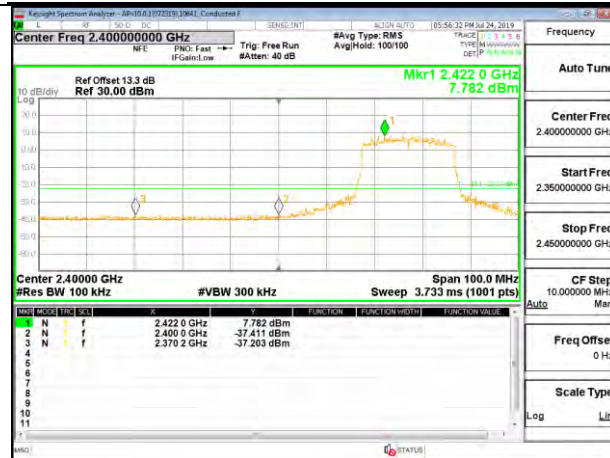


OUT-OF-BAND HIGH CHANNEL 12 ANT 3

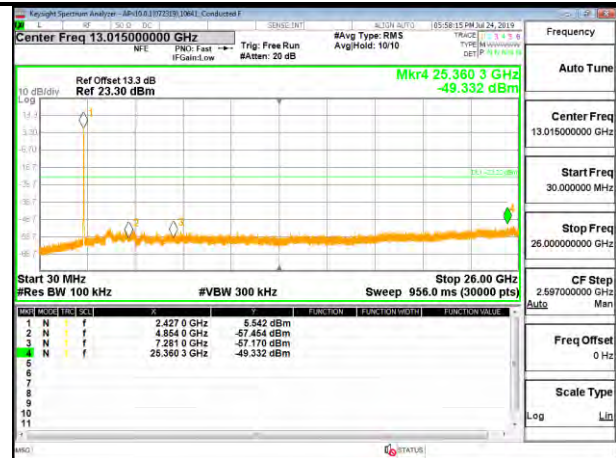


Antenna 4 + Antenna 3 2TX MODE, 242-Tone RU Index 61

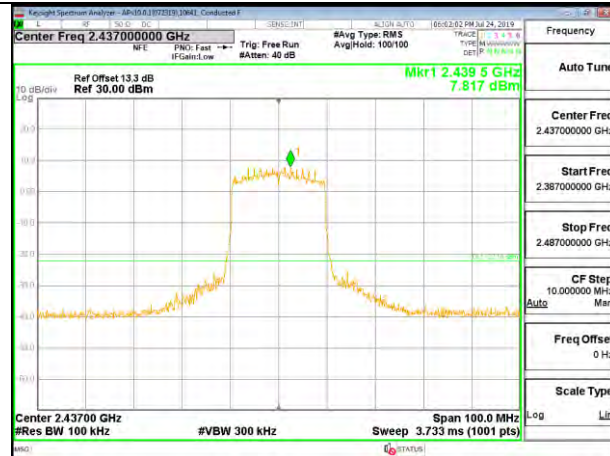




LOW CHANNEL 4 BANDEDGE ANT 4



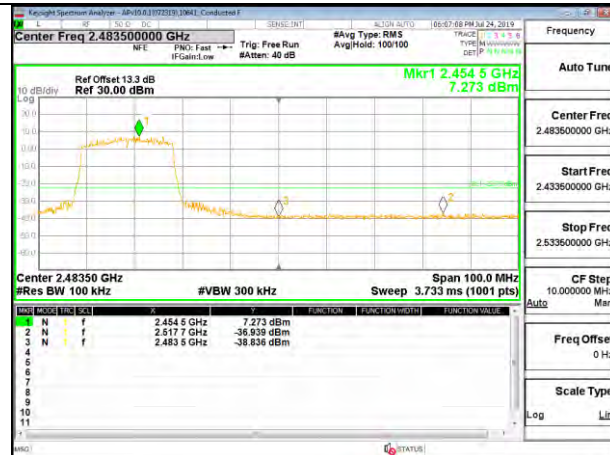
OUT-OF-BAND LOW CHANNEL 4 ANT 4



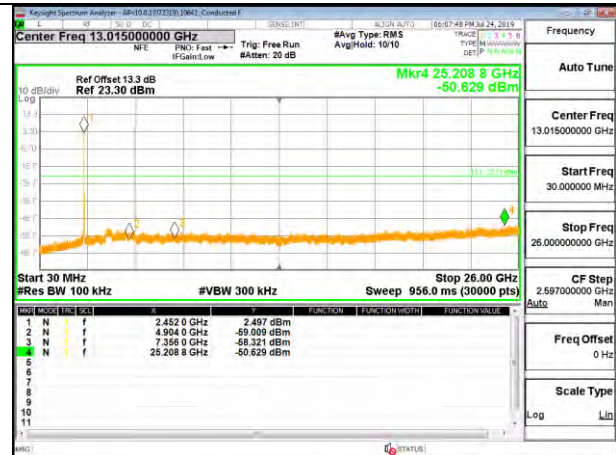
IN-BAND REFERENCE LEVEL ANT 4



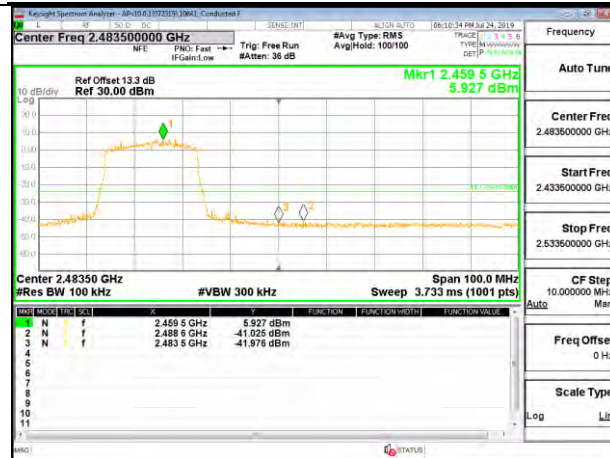
OUT-OF-BAND MID CHANNEL ANT 4



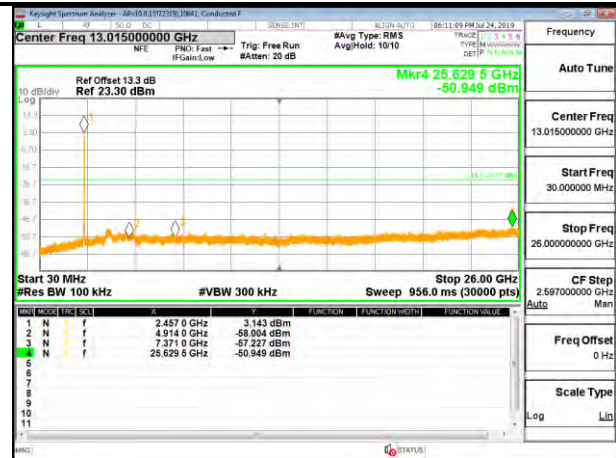
HIGH CHANNEL 9 BANDEDGE ANT 4



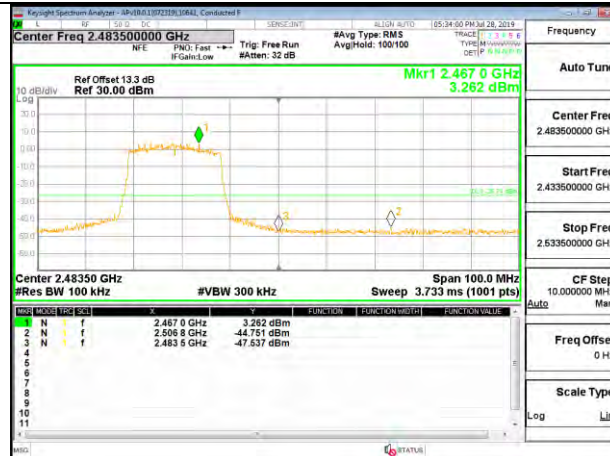
OUT-OF-BAND HIGH CHANNEL 9 ANT 4



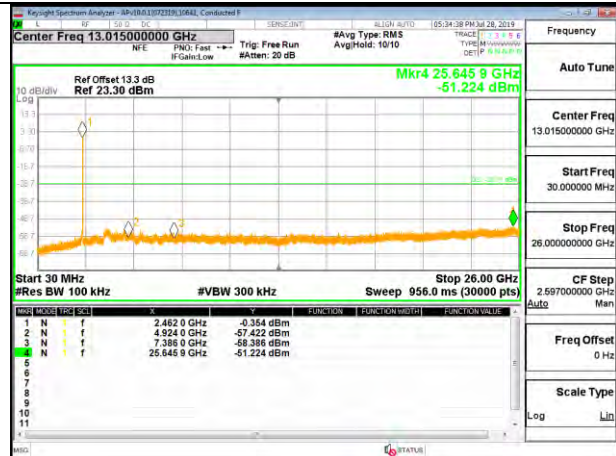
HIGH CHANNEL 10 BANDEDGE ANT 4



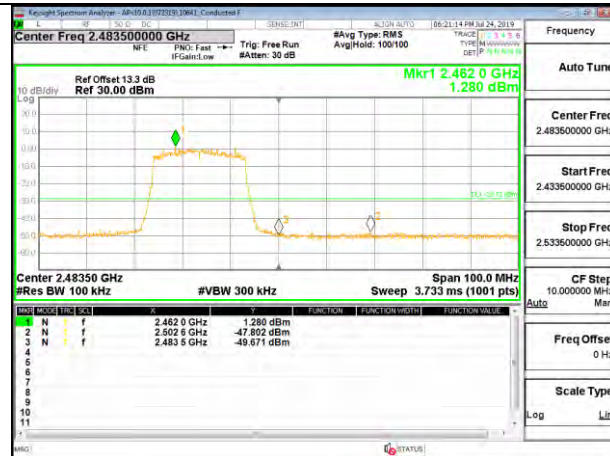
OUT-OF-BAND HIGH CHANNEL 10 ANT 4



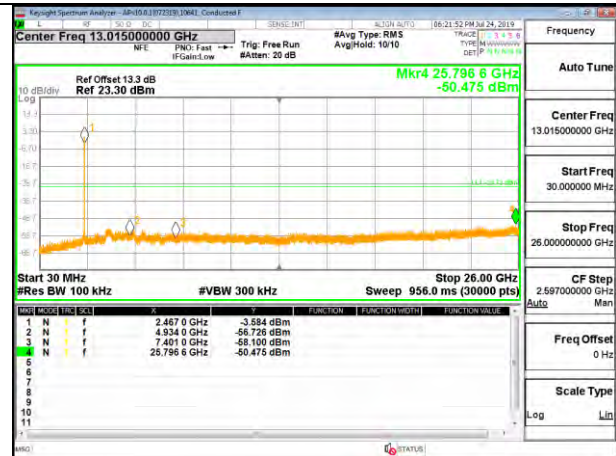
HIGH CHANNEL 11 BANDEDGE ANT 4



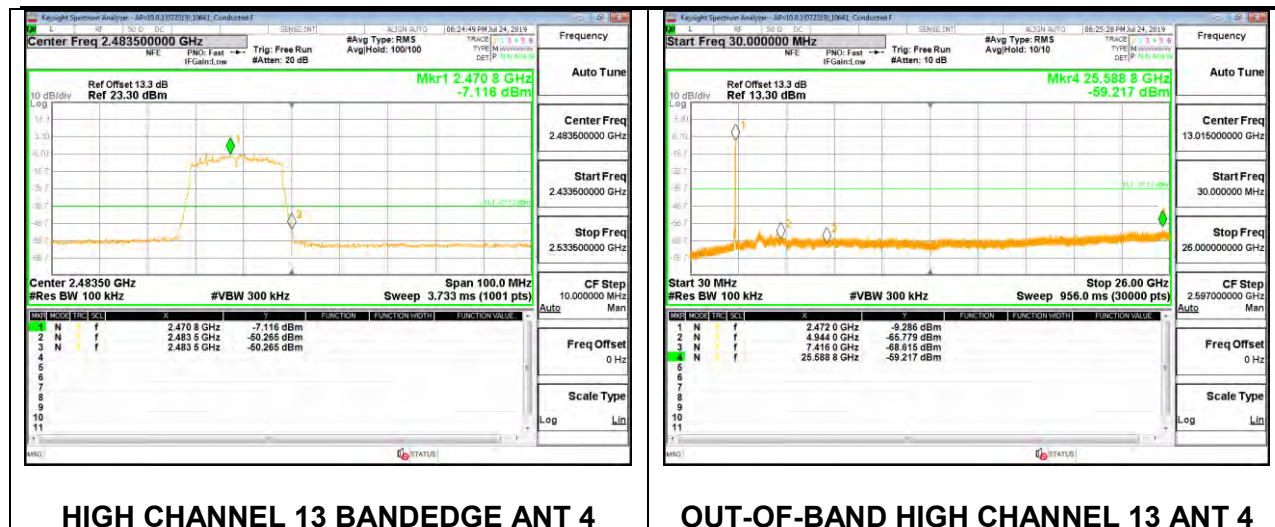
OUT-OF-BAND HIGH CHANNEL 11 ANT 4

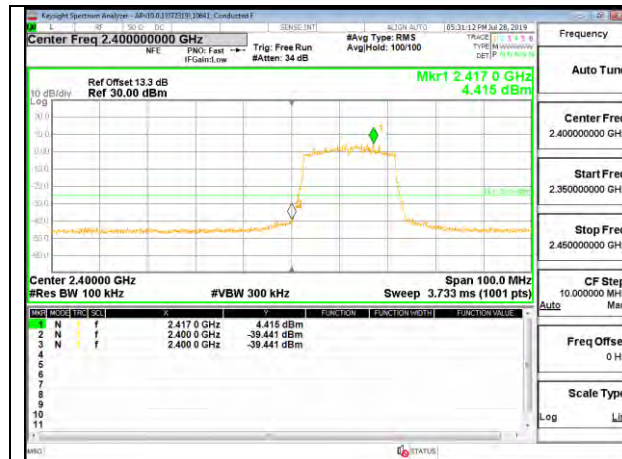


HIGH CHANNEL 12 BANDEDGE ANT 4

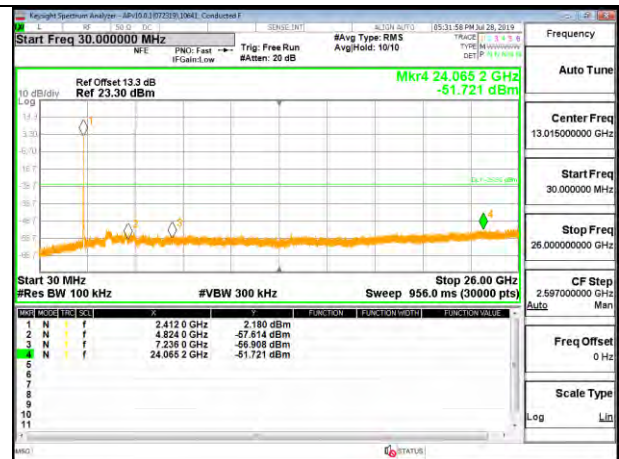


OUT-OF-BAND HIGH CHANNEL 12 ANT 4

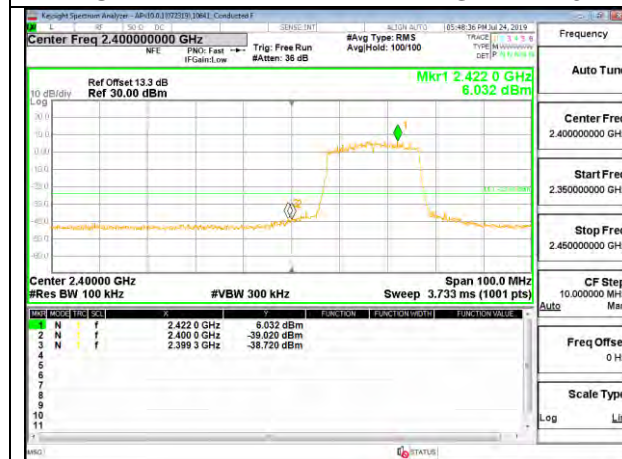




LOW CHANNEL 1 BANDEDGE ANT 3



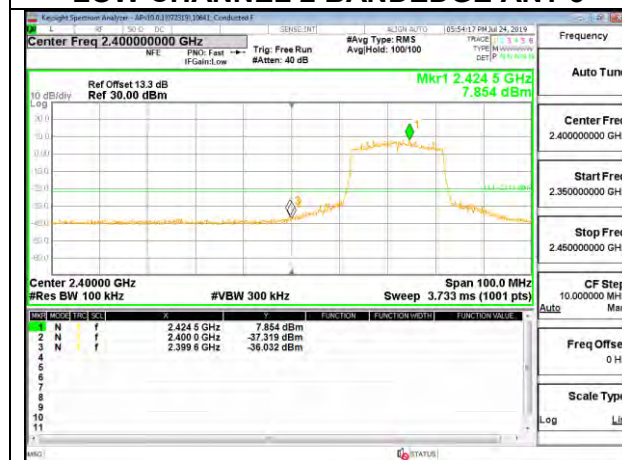
OUT-OF-BAND LOW CHANNEL 1 ANT 3



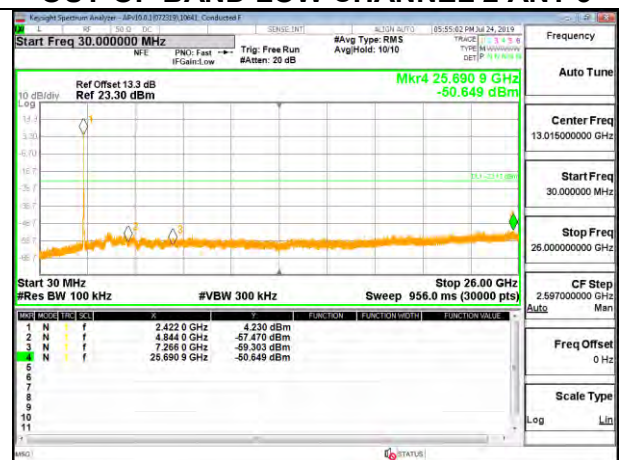
LOW CHANNEL 2 BANDEDGE ANT 3



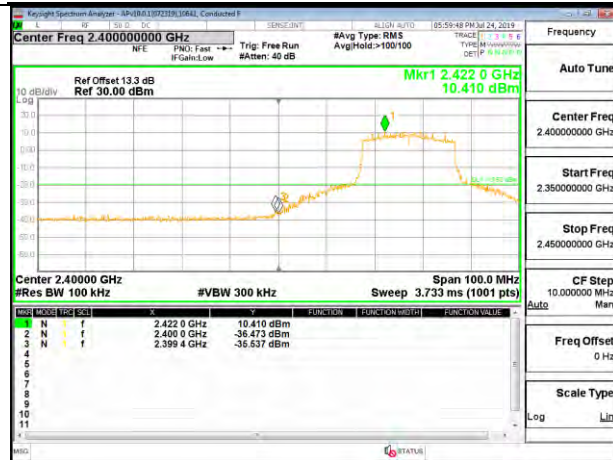
OUT-OF-BAND LOW CHANNEL 2 ANT 3



LOW CHANNEL 3 BANDEDGE ANT 3



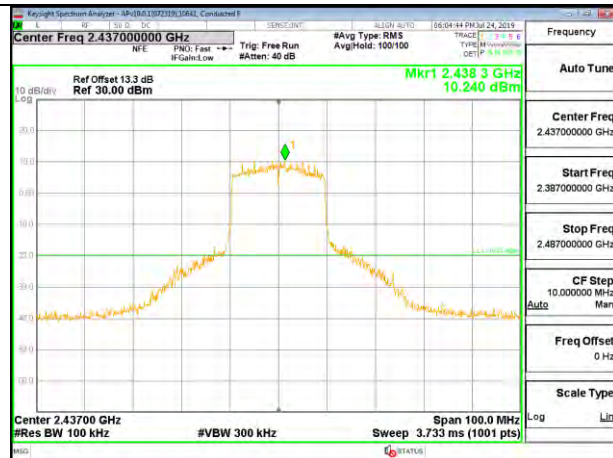
OUT-OF-BAND LOW CHANNEL 3 ANT 3



LOW CHANNEL 4 BANDEDGE ANT 3



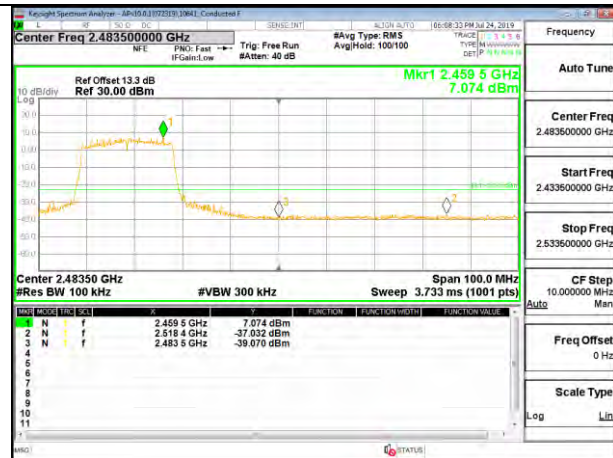
OUT-OF-BAND LOW CHANNEL 4 ANT 3



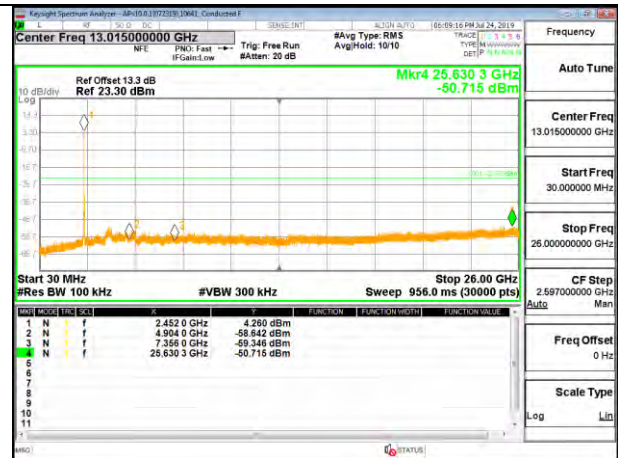
IN-BAND REFERENCE LEVEL ANT 3



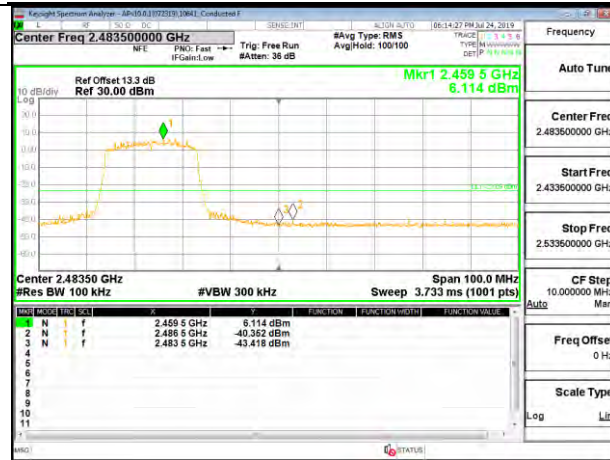
OUT-OF-BAND MID CHANNEL ANT 3



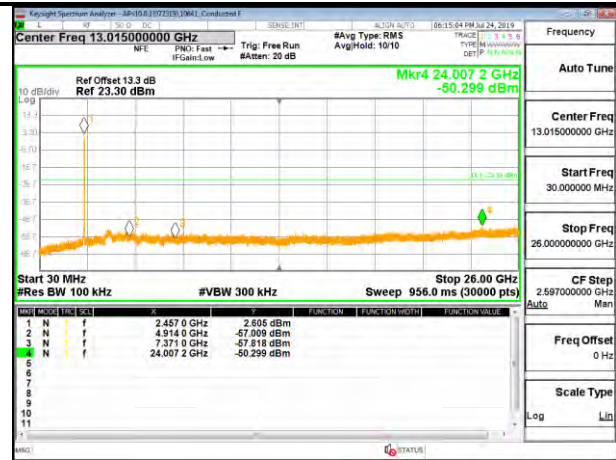
HIGH CHANNEL 9 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 9 ANT 3



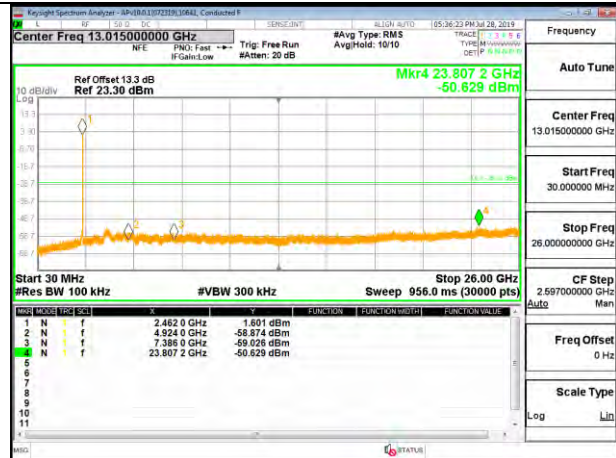
HIGH CHANNEL 10 BANDEDGE ANT 3



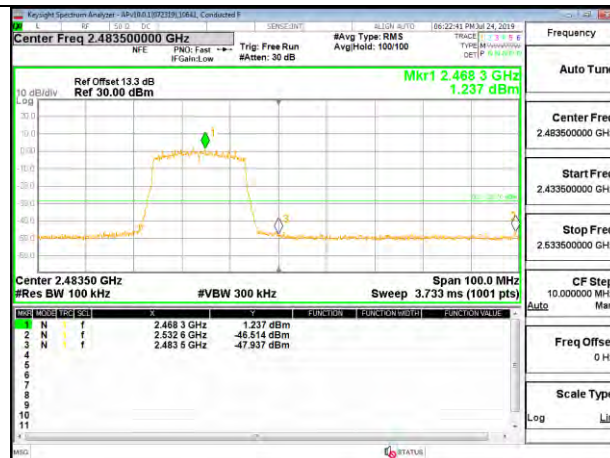
OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



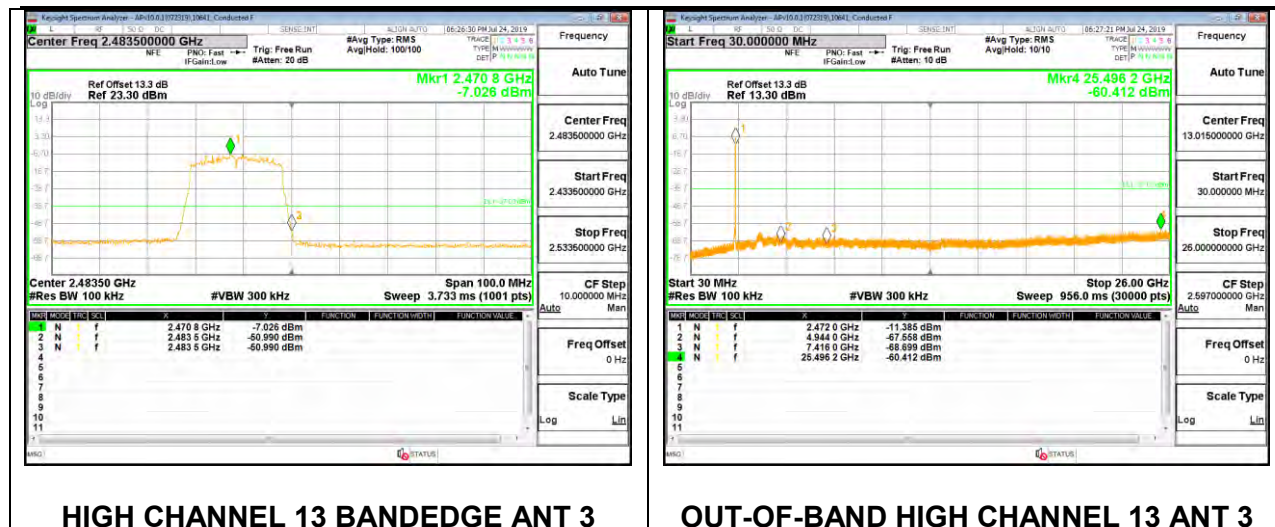
OUT-OF-BAND HIGH CHANNEL 11 ANT 3



HIGH CHANNEL 12 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 12 ANT 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.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

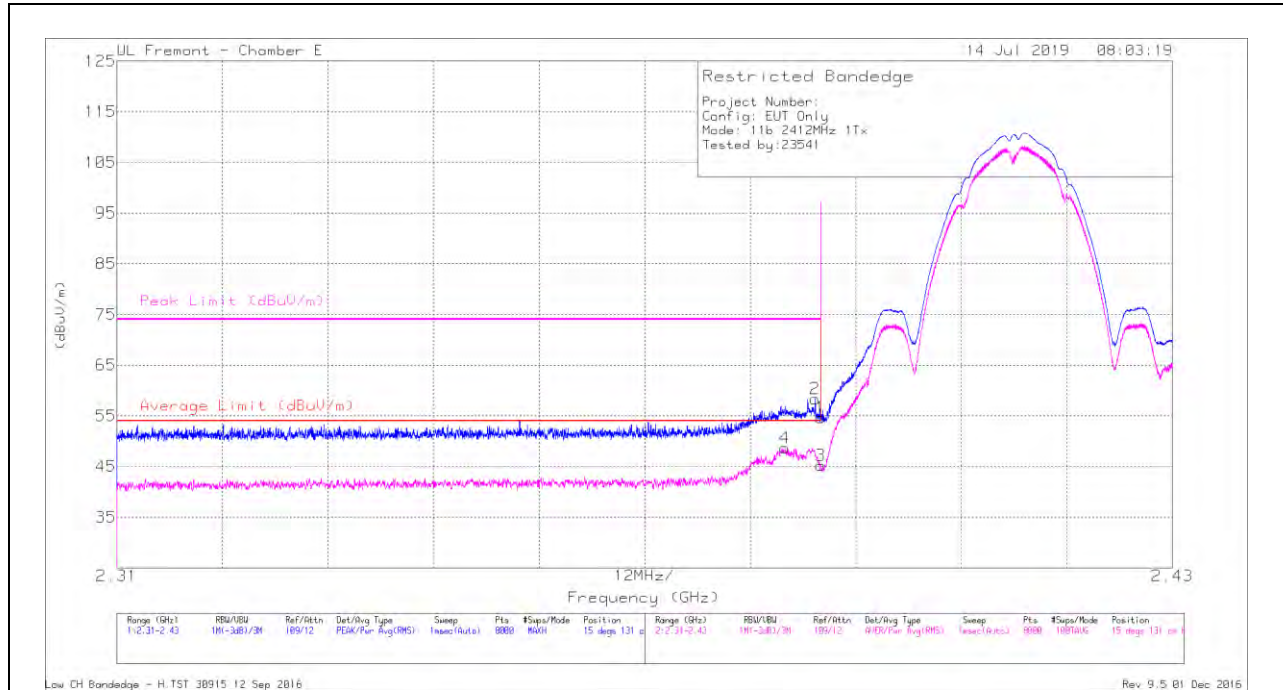
9.1. TRANSMITTER ABOVE 1 GHz

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

1TX Antenna 4 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



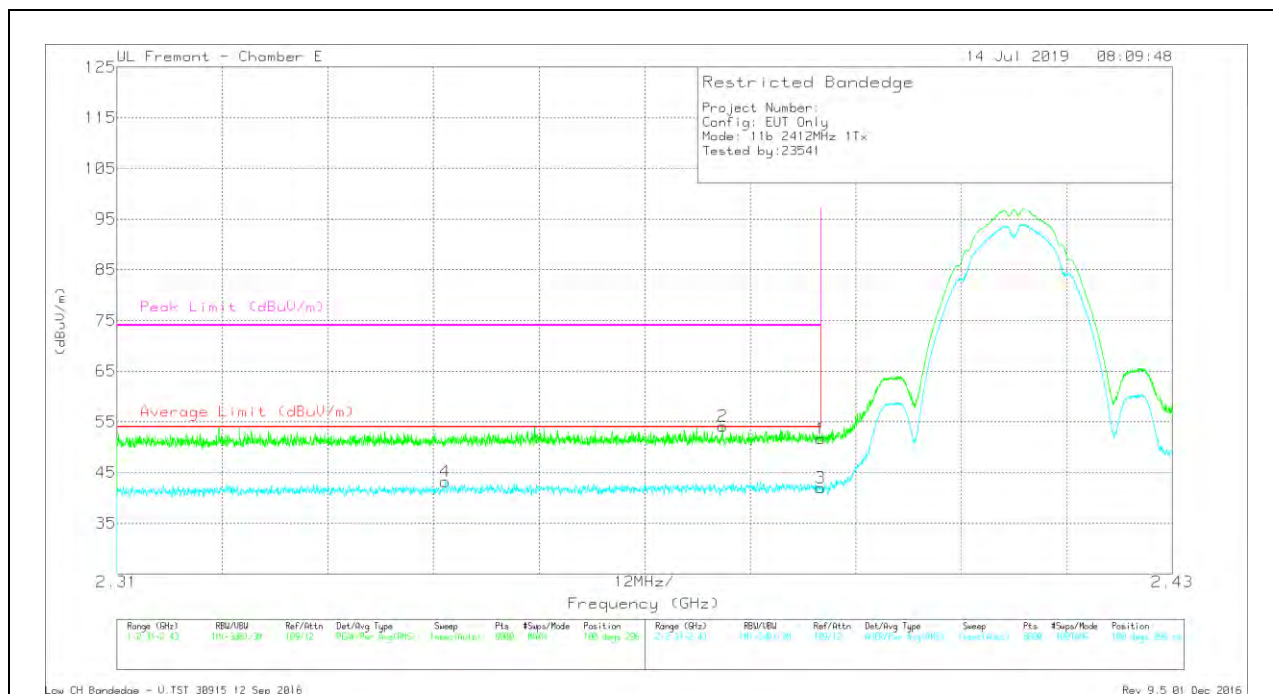
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.6	Pk	32.3	-18.3	54.6	-	-	74	-19.4	15	131	H
2	* 2.389	44.35	Pk	32.3	-18.3	58.35	-	-	74	-15.65	15	131	H
3	* 2.39	31.15	RMS	32.3	-18.3	45.15	54	-8.85	-	-	15	131	H
4	* 2.386	34.72	RMS	32.3	-18.3	48.72	54	-5.28	-	-	15	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 T119 (dB/m)	Amp/Cbl/Filtr/P ad (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	37.61	Pk	32.3	-18.3	51.61	-	-	74	-22.39	100	296	V
2	* 2.379	40.24	Pk	32.2	-18.3	54.14	-	-	74	-19.86	100	296	V
3	* 2.39	27.95	RMS	32.3	-18.3	41.95	54	-12.05	-	-	100	296	V
4	* 2.347	29.43	RMS	32	-18.2	43.23	54	-10.77	-	-	100	296	V

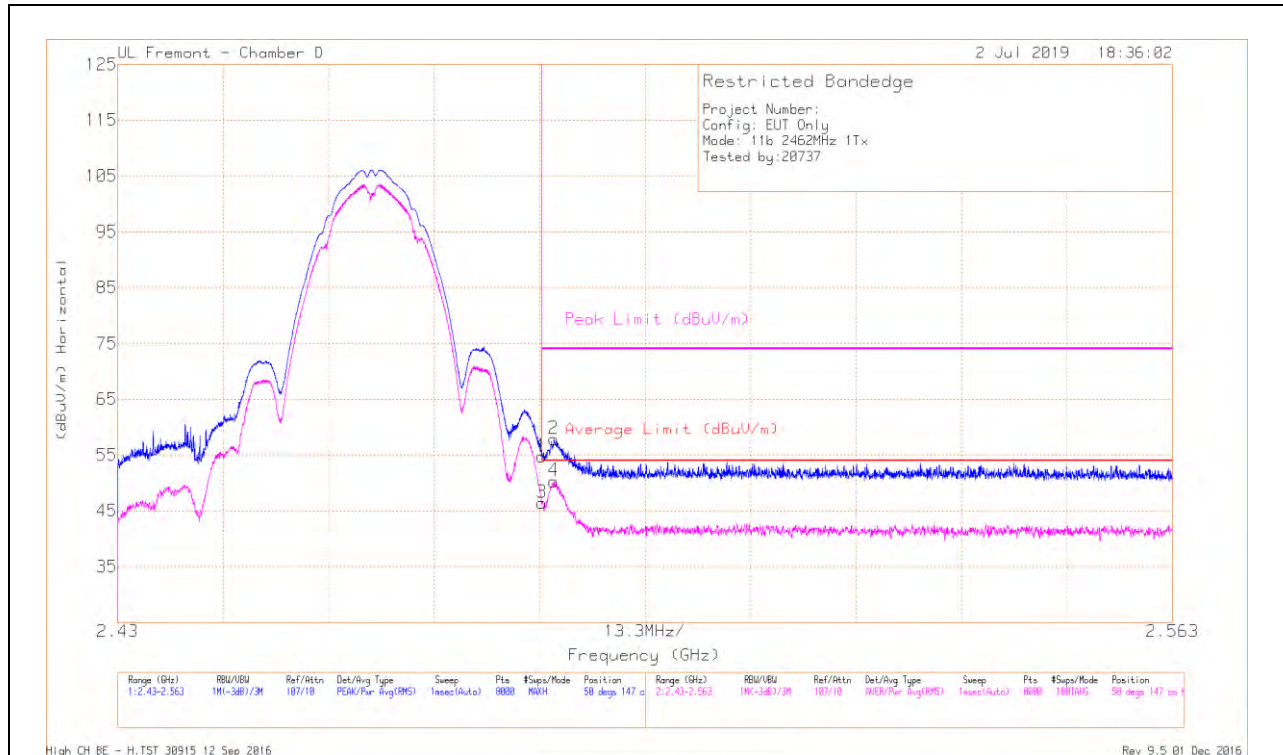
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



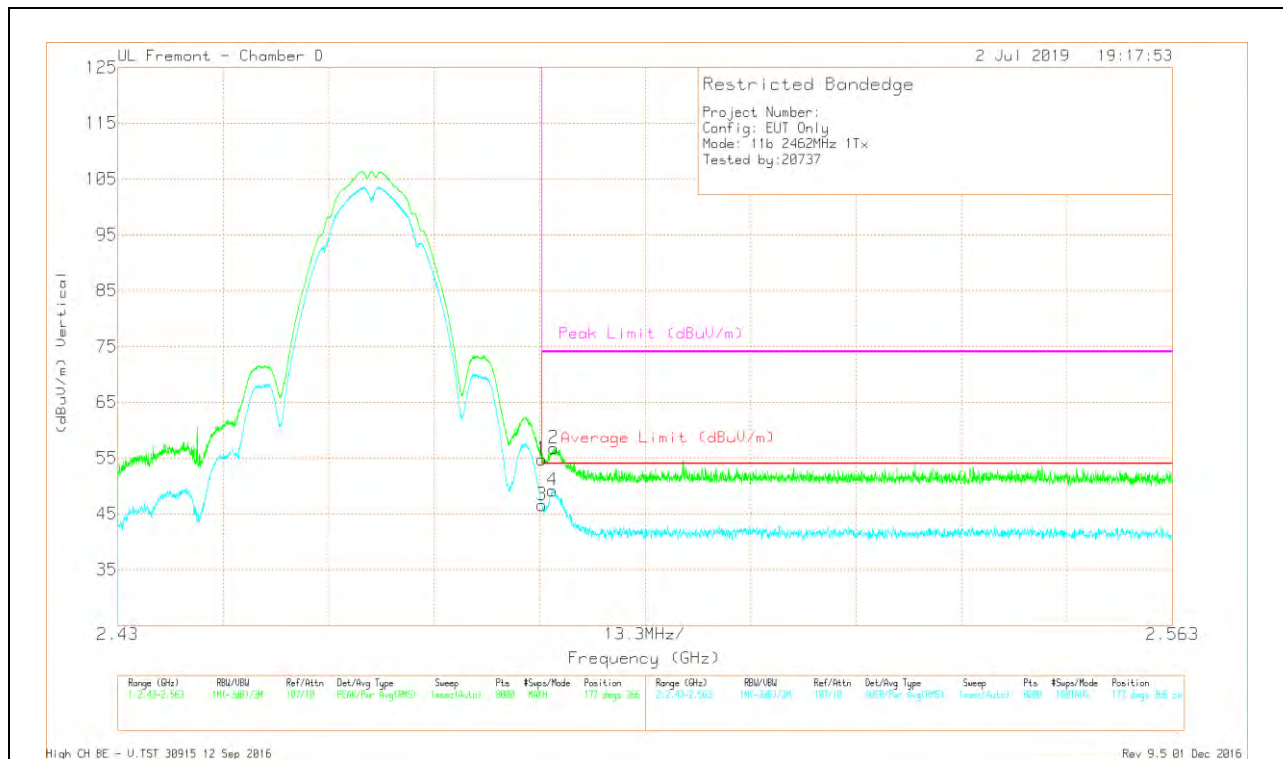
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.95	Pk	32.4	-20.6	54.75	-	-	74	-19.25	50	147	H
2	* 2.485	46.19	Pk	32.3	-20.6	57.89	-	-	74	-16.11	50	147	H
3	* 2.484	34.61	RMS	32.4	-20.6	46.41	54	-7.59	-	-	50	147	H
4	* 2.485	38.65	RMS	32.3	-20.6	50.35	54	-3.65	-	-	50	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 T712 (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	* 2.484	42.96	Pk	32.4	-20.6	54.76	-	-	74	-19.24	177	366	V
2	* 2.485	45.08	Pk	32.3	-20.6	56.78	-	-	74	-17.22	177	366	V
3	* 2.484	34.71	RMS	32.4	-20.6	46.51	54	-7.49	-	-	177	366	V
4	* 2.485	37.48	RMS	32.3	-20.6	49.18	54	-4.82	-	-	177	366	V

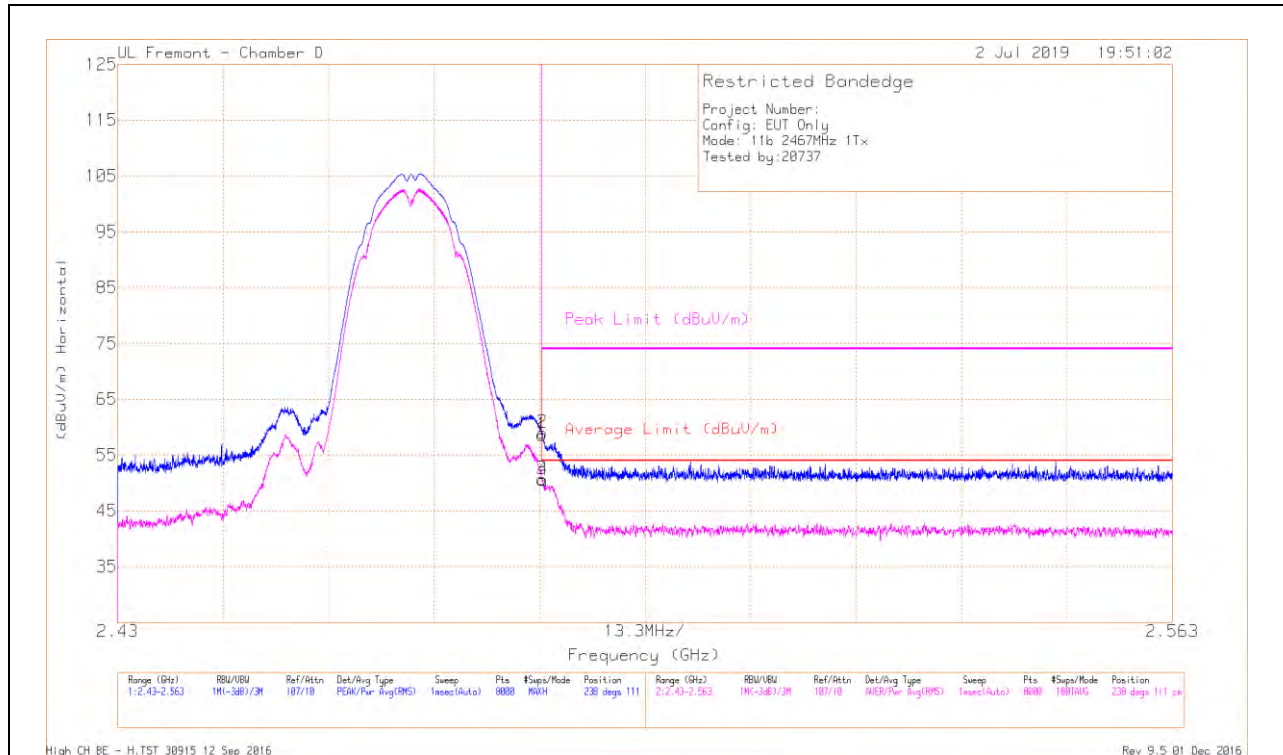
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



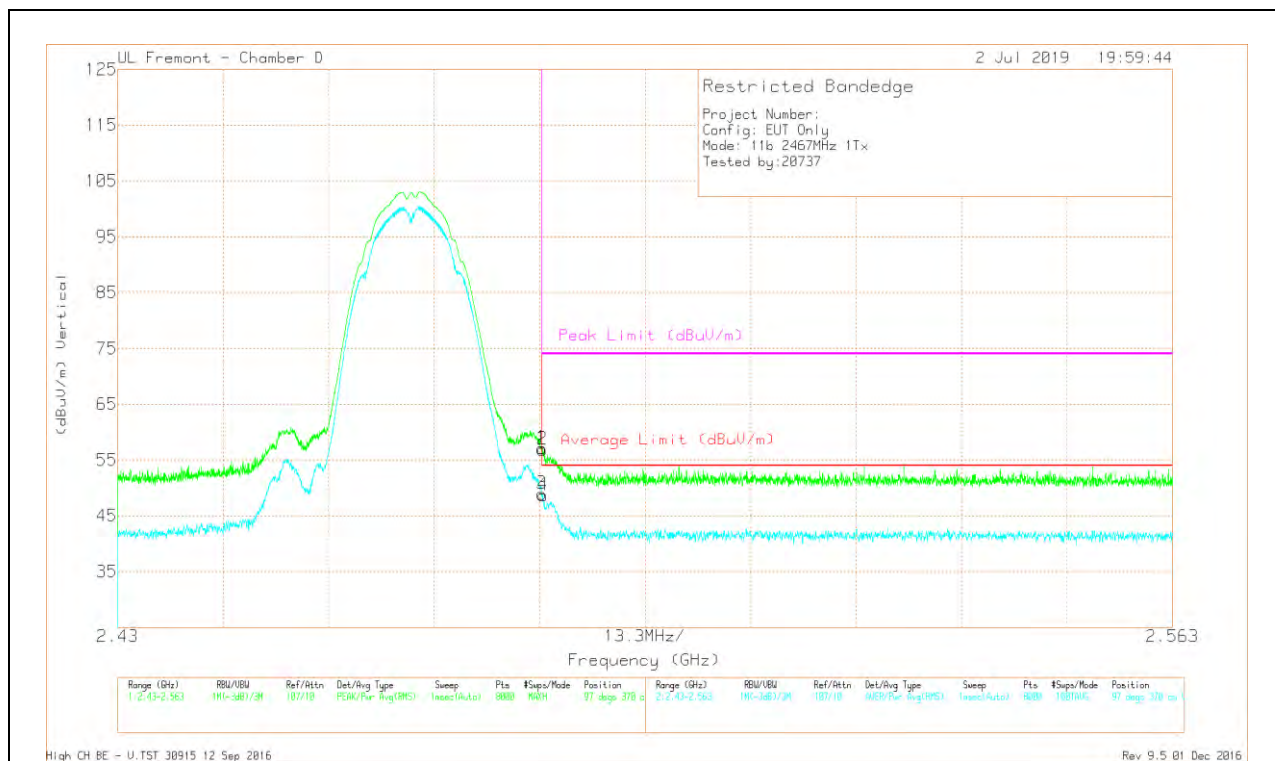
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.8	Pk	32.4	-20.6	58.6	-	-	74	-15.4	238	111	H
2	* 2.484	47.22	Pk	32.4	-20.6	59.02	-	-	74	-14.98	238	111	H
3	* 2.484	38.88	RMS	32.4	-20.6	50.68	54	-3.32	-	-	238	111	H
4	* 2.484	38.74	RMS	32.4	-20.6	50.54	54	-3.46	-	-	238	111	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 T712 (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	* 2.484	45.27	Pk	32.4	-20.6	57.07	-	-	74	-16.93	97	370	V
2	* 2.484	45.03	Pk	32.4	-20.6	56.83	-	-	74	-17.17	97	370	V
3	* 2.484	37.15	RMS	32.4	-20.6	48.95	54	-5.05	-	-	97	370	V
4	* 2.484	36.9	RMS	32.4	-20.6	48.7	54	-5.3	-	-	97	370	V

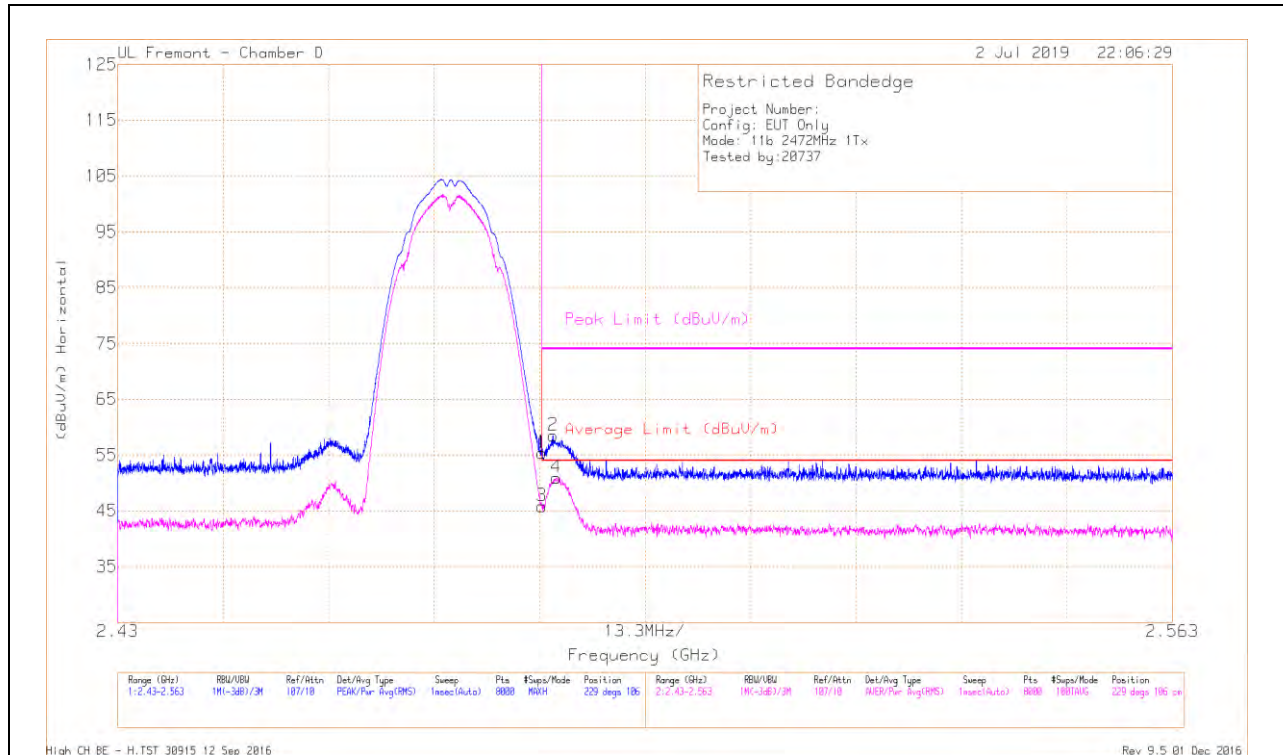
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



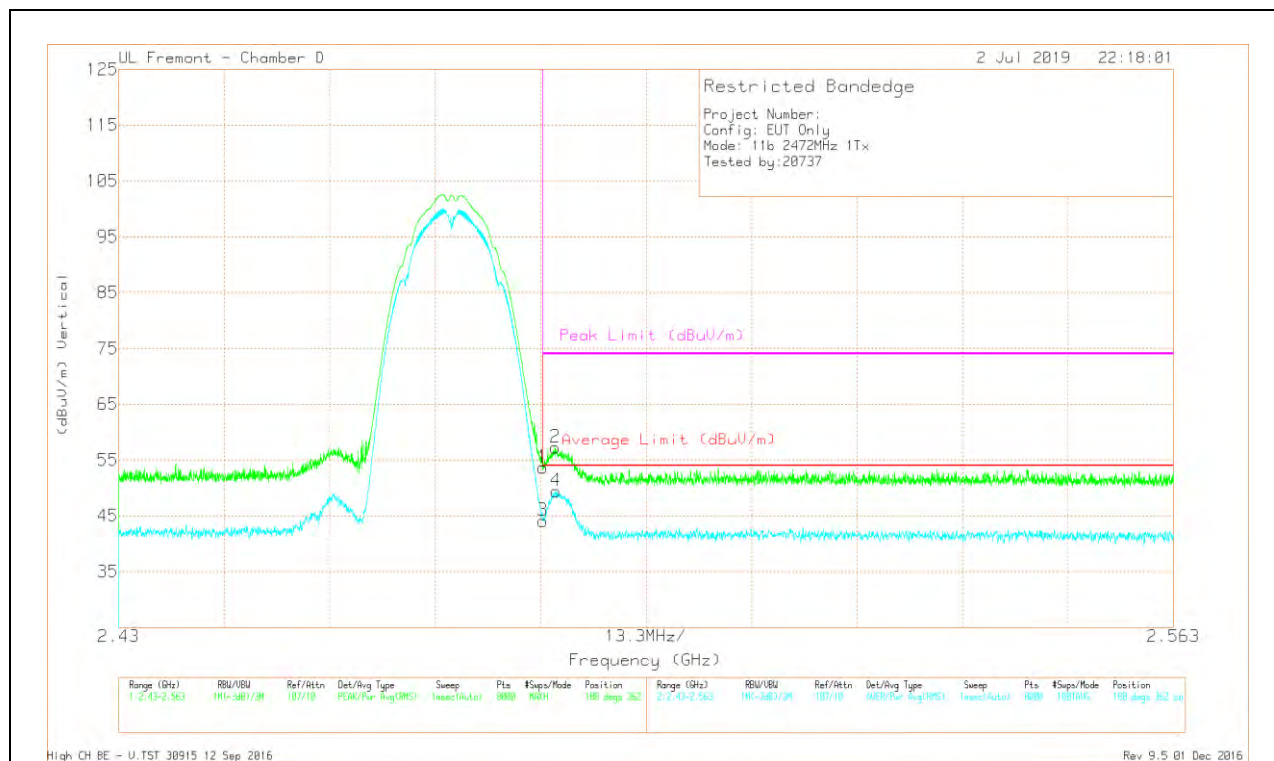
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.62	Pk	32.4	-20.6	55.42	-	-	74	-18.58	229	106	H
2	* 2.485	46.81	Pk	32.3	-20.6	58.51	-	-	74	-15.49	229	106	H
3	* 2.484	34.02	RMS	32.4	-20.6	45.82	54	-8.18	-	-	229	106	H
4	* 2.485	39.24	RMS	32.3	-20.6	50.94	54	-3.06	-	-	229	106	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 T712 (dB/m)	Amp/Cbl/Filtr/P ad (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	41.81	Pk	32.4	-20.6	53.61	-	-	74	-20.39	188	362	V
2	* 2.485	45.55	Pk	32.3	-20.6	57.25	-	-	74	-16.75	188	362	V
3	* 2.484	32.28	RMS	32.4	-20.6	44.08	54	-9.92	-	-	188	362	V
4	* 2.485	37.67	RMS	32.3	-20.6	49.37	54	-4.63	-	-	188	362	V

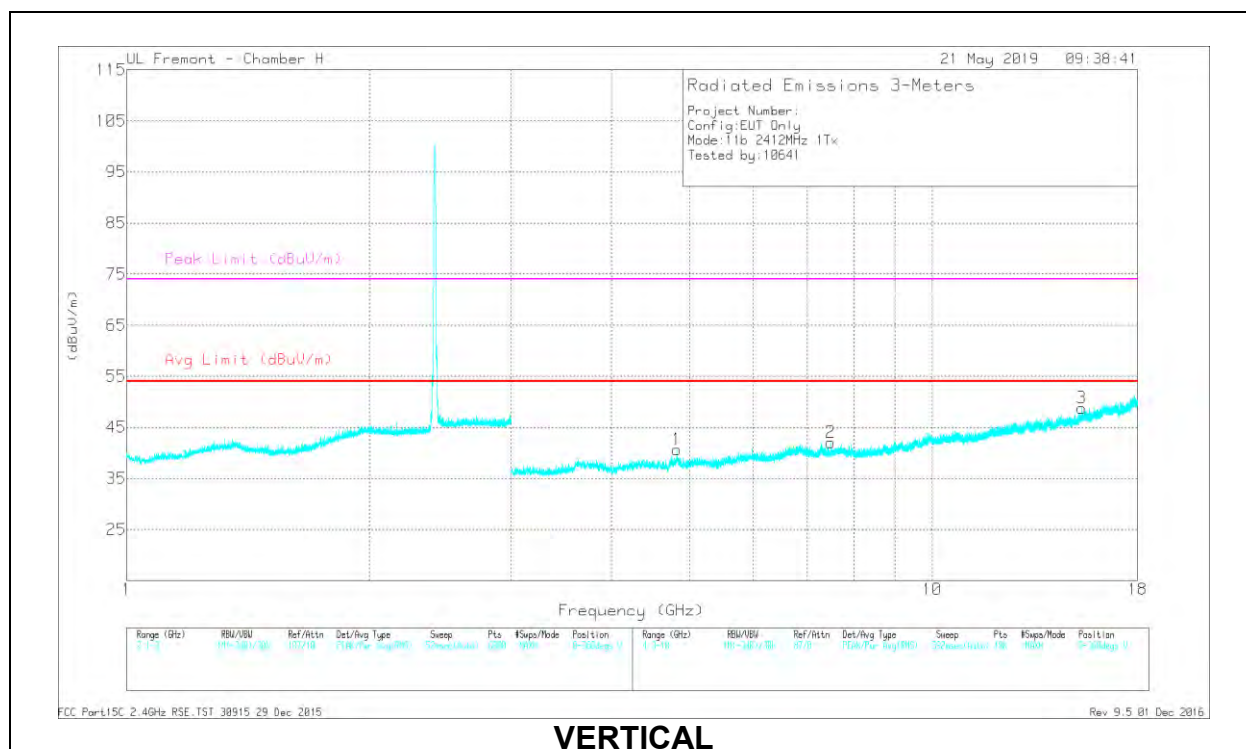
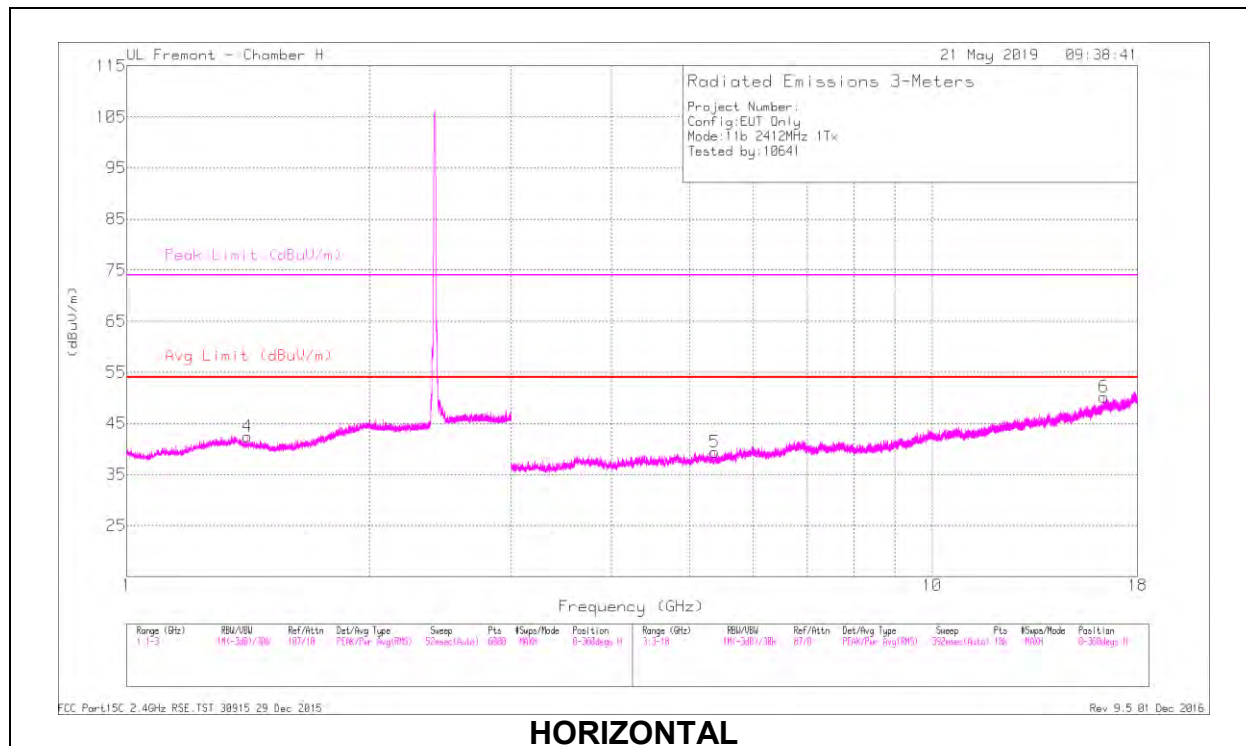
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

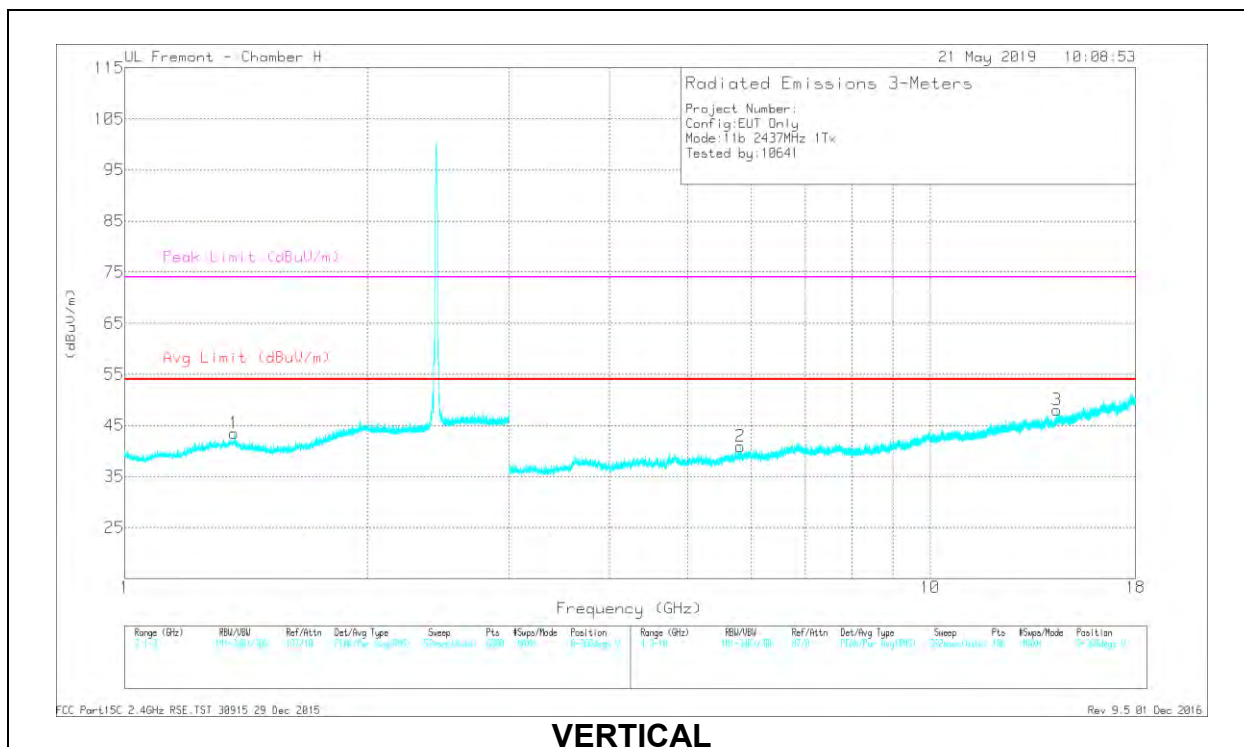
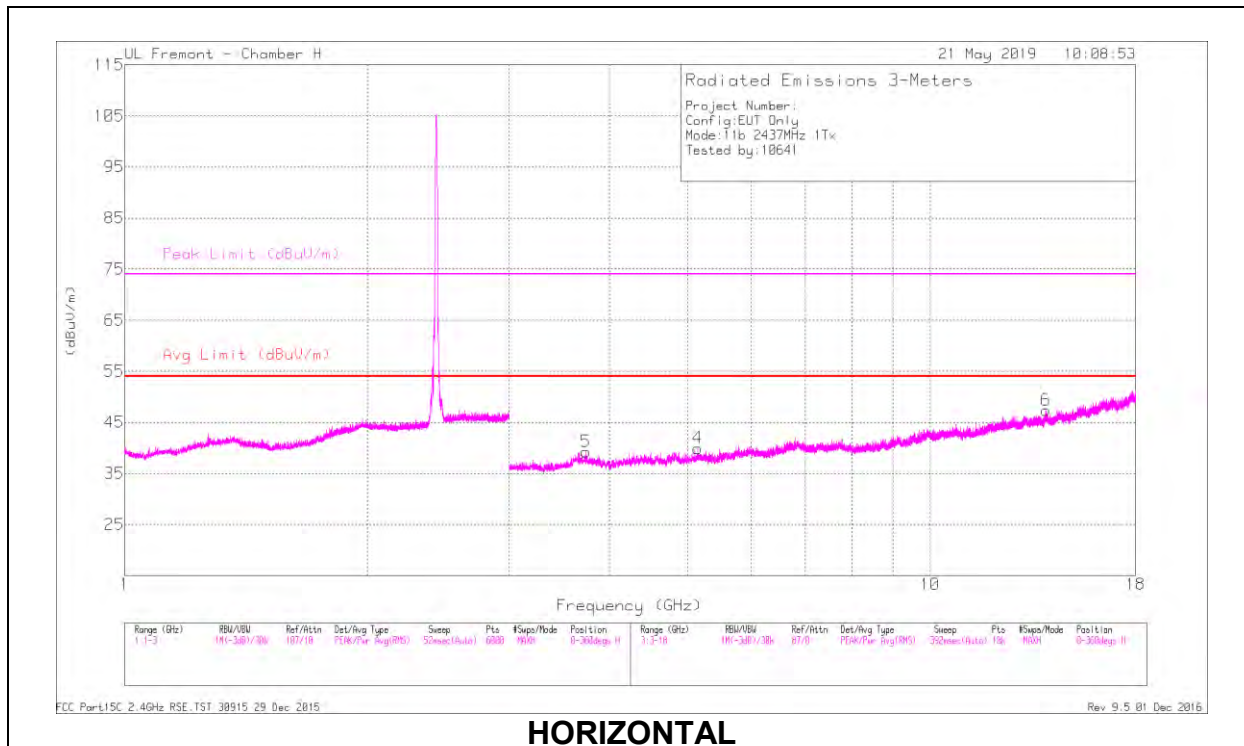
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.412	45.16	PK2	28.7	-25.1	48.76	-	-	74	-25.24	156	153	H
	* 1.411	33.47	MAv1	28.7	-25.1	37.07	54	-16.93	-	-	156	153	H
5	* 5.376	40.36	PK2	34.6	-29	45.96	-	-	74	-28.04	181	124	H
	* 5.377	29.03	MAv1	34.6	-29	34.63	54	-19.37	-	-	181	124	H
1	* 4.824	42.81	PK2	34.1	-30.3	46.61	-	-	74	-27.39	356	142	V
	* 4.824	32.09	MAv1	34.1	-30.3	35.89	54	-18.11	-	-	356	142	V
2	* 7.483	38.87	PK2	36.4	-27.5	47.77	-	-	74	-26.23	308	151	V
	* 7.482	27.57	MAv1	36.5	-27.5	36.57	54	-17.43	-	-	308	151	V
3	15.344	36.04	PK2	40.7	-21.8	54.94	-	-	74	-19.06	110	147	V
6	16.347	35.08	PK2	41.4	-20.7	55.78	-	-	74	-18.22	208	131	H

* - 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

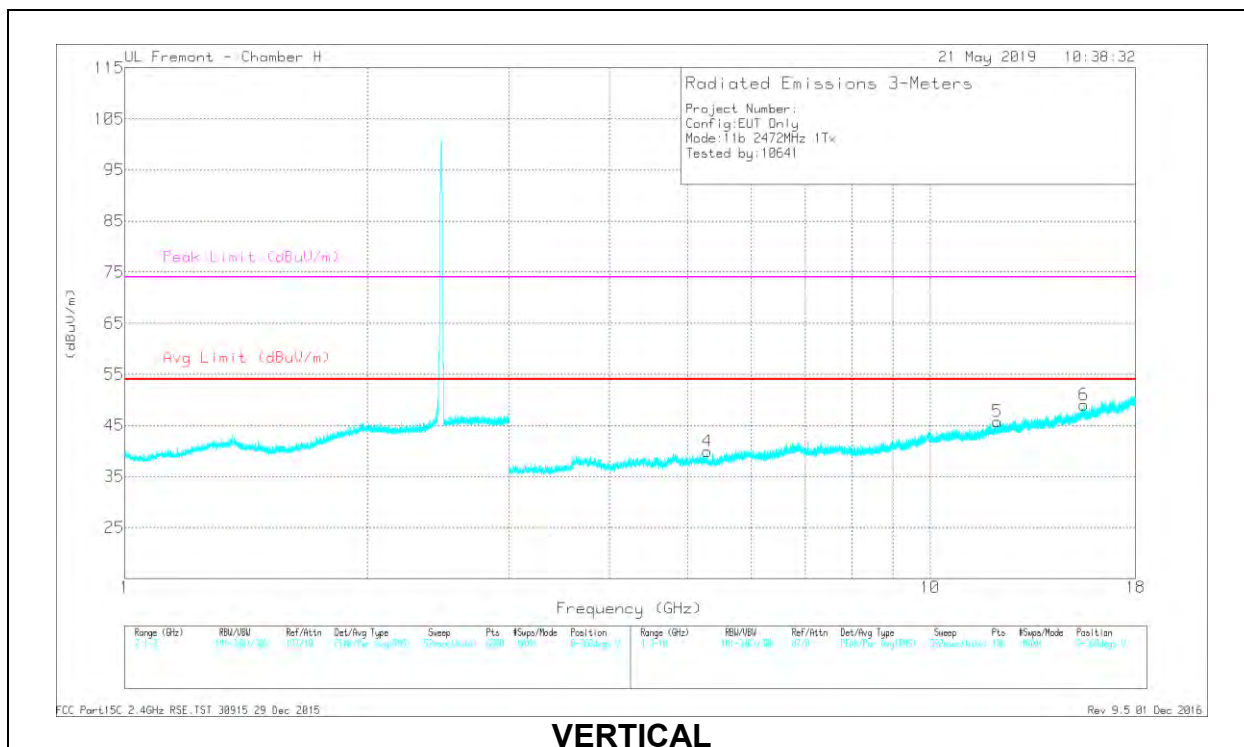
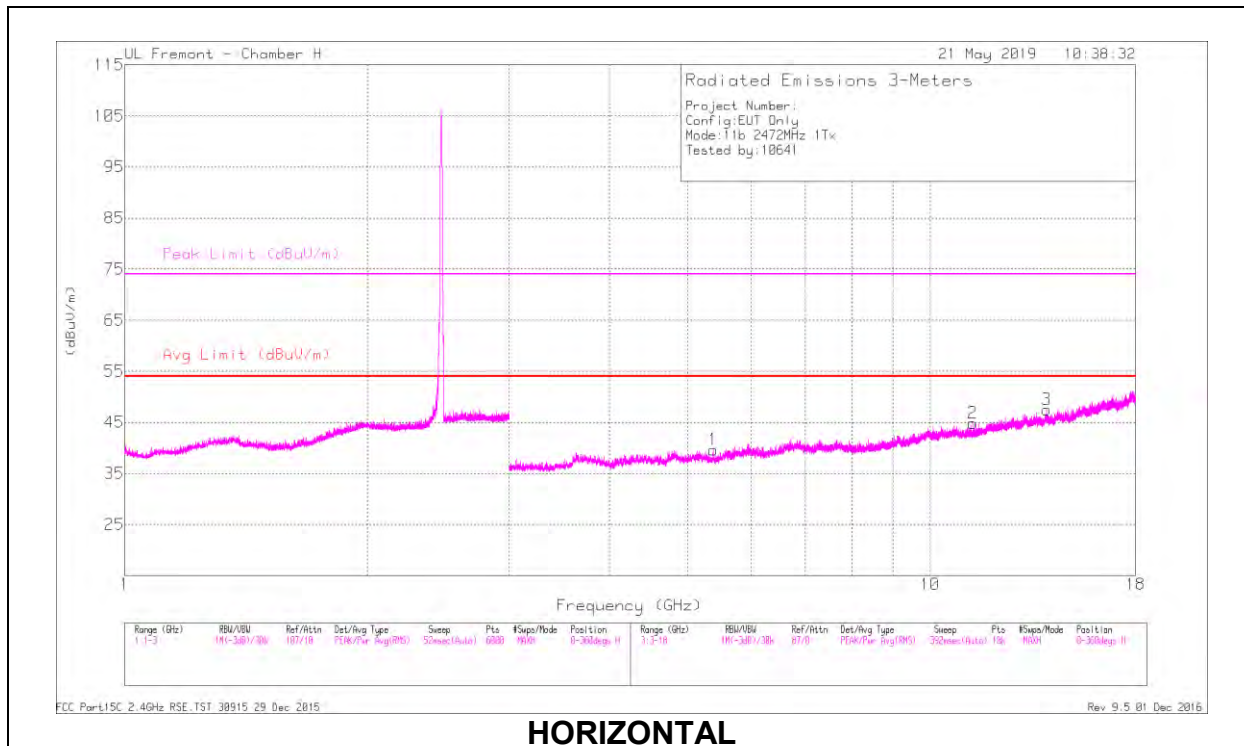
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.368	45.1	PK2	29.6	-25.2	49.5	-	-	74	-24.5	150	227	V
	* 1.366	33.66	MAv1	29.7	-25.2	38.16	54	-15.84	-	-	150	227	V
4	* 4.793	41.43	PK2	34	-30.2	45.23	-	-	74	-28.77	171	135	H
	* 4.732	30.67	MAv1	34	-29.9	34.77	54	-19.23	-	-	171	135	H
5	* 3.74	42.65	PK2	33.3	-30.9	45.05	-	-	74	-28.95	205	201	H
	* 3.739	31.24	MAv1	33.3	-30.9	33.64	54	-20.36	-	-	205	201	H
2	5.811	41.02	PK2	35.5	-29.4	47.12	-	-	74	-26.88	170	201	V
6	13.939	35.23	PK2	39.2	-21	53.43	-	-	74	-20.57	123	151	H
3	14.374	36.07	PK2	39.7	-21.7	54.07	-	-	74	-19.93	206	218	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	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.386	40.81	PK2	34.6	-29.1	46.31	-	-	74	-27.69	287	109	H
	* 5.383	29.08	MAv1	34.6	-29.1	34.58	54	-19.42	-	-	287	109	H
2	* 11.303	36.29	PK2	38	-23.6	50.69	-	-	74	-23.31	254	129	H
	* 11.306	24.99	MAv1	38	-23.6	39.39	54	-14.61	-	-	254	129	H
5	* 12.118	35.96	PK2	39	-23.1	51.86	-	-	74	-22.14	209	155	V
	* 12.121	24.86	MAv1	39	-23.1	40.76	54	-13.24	-	-	209	155	V
6	* 15.515	35.67	PK2	40.8	-21.8	54.67	-	-	74	-19.33	182	178	V
	* 15.515	24.86	MAv1	40.8	-21.8	43.86	54	-10.14	-	-	182	178	V
4	5.286	40.7	PK2	34.5	-29.5	45.7	-	-	74	-28.30	166	226	V
3	13.959	35.04	PK2	39.2	-21	53.24	-	-	74	-20.76	201	196	H

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

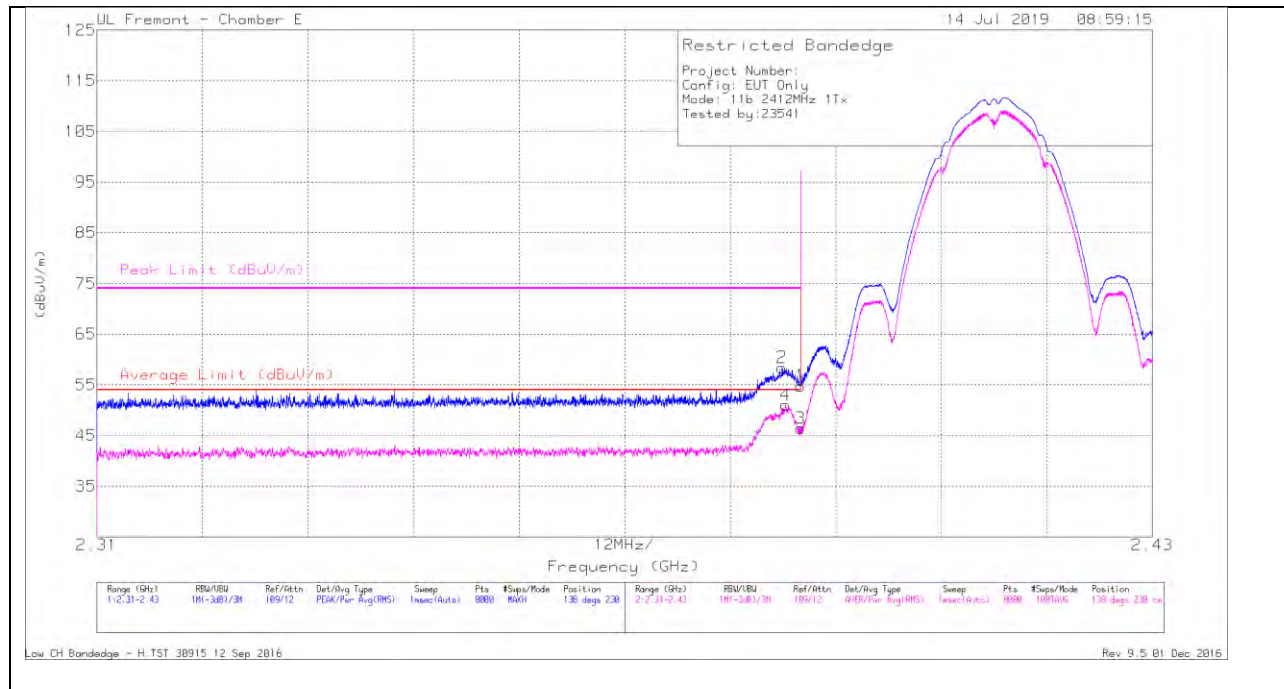
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

1TX Antenna 3 MODE

BANDEGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



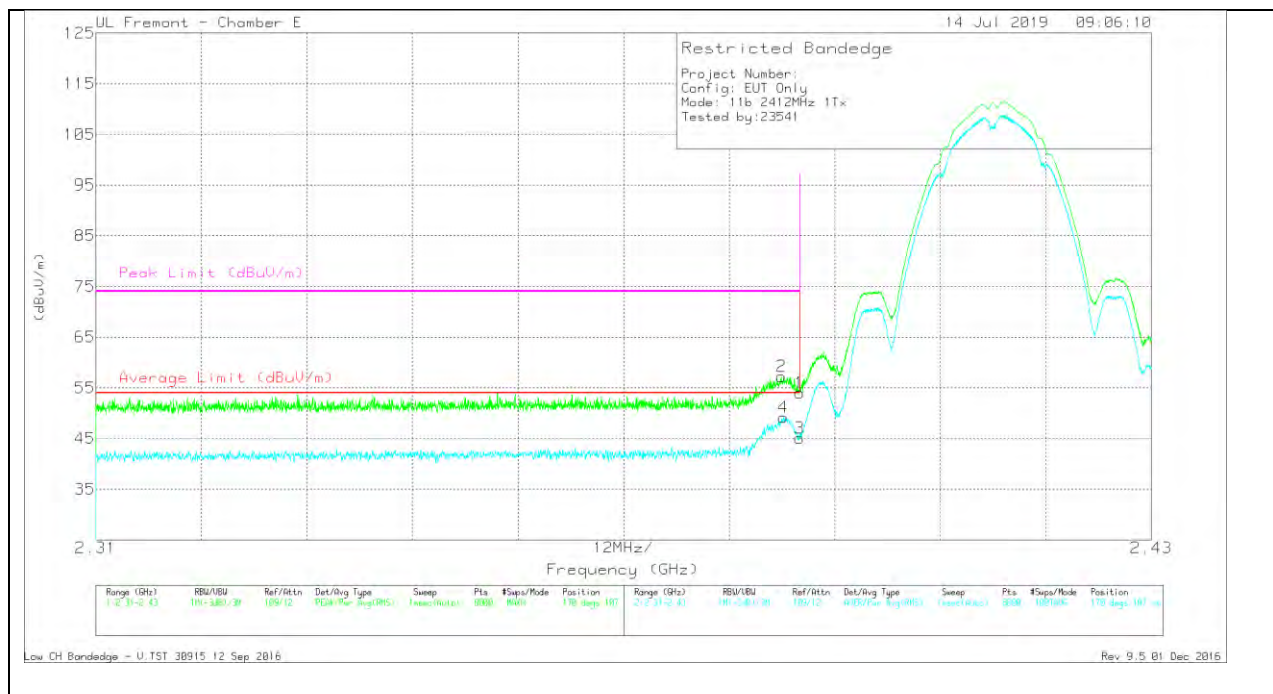
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.82	Pk	32.3	-18.3	54.82	-	-	74	-19.18	138	230	H
2	* 2.388	44.42	Pk	32.3	-18.3	58.42	-	-	74	-15.58	138	230	H
3	* 2.39	32.49	RMS	32.3	-18.3	46.49	54	-7.51	-	-	138	230	H
4	* 2.388	37.06	RMS	32.3	-18.3	51.06	54	-2.94	-	-	138	230	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 T119 (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
2	* 2.388	43.24	Pk	32.3	-18.3	57.24	-	-	74	-16.76	170	107	V
4	* 2.388	35.16	RMS	32.3	-18.3	49.16	54	-4.84	-	-	170	107	V
1	* 2.39	40.07	Pk	32.3	-18.3	54.07	-	-	74	-19.93	170	107	V
3	* 2.39	31.09	RMS	32.3	-18.3	45.09	54	-8.91	-	-	170	107	V

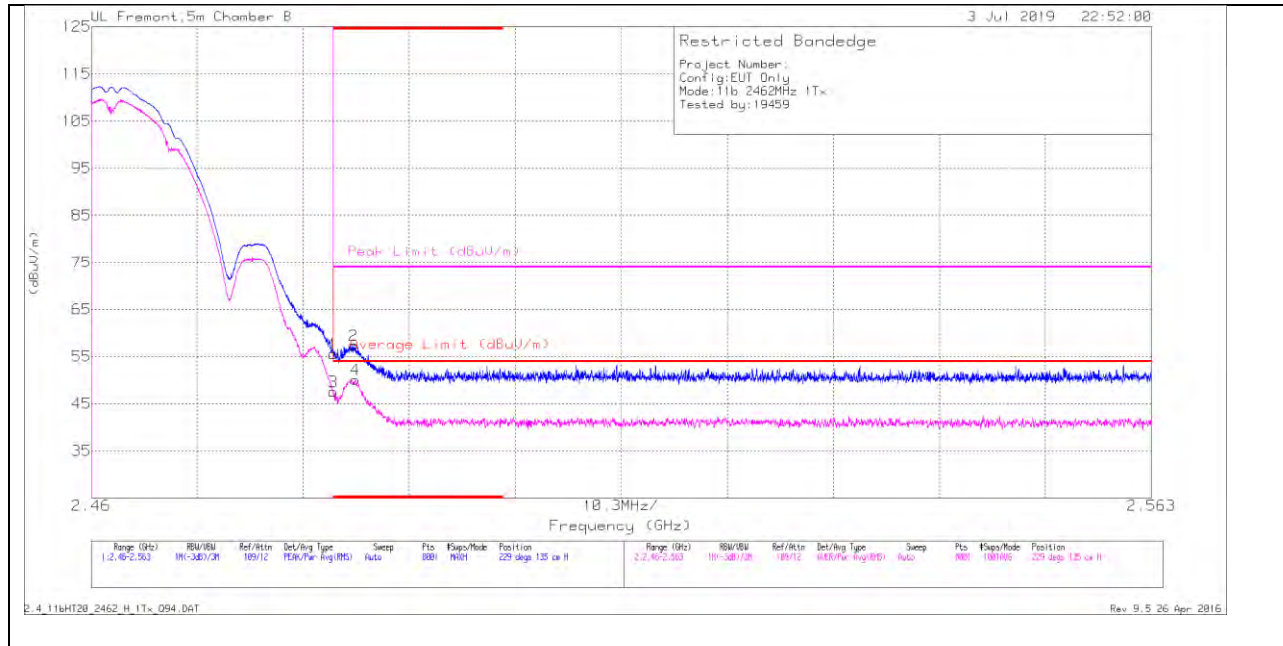
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



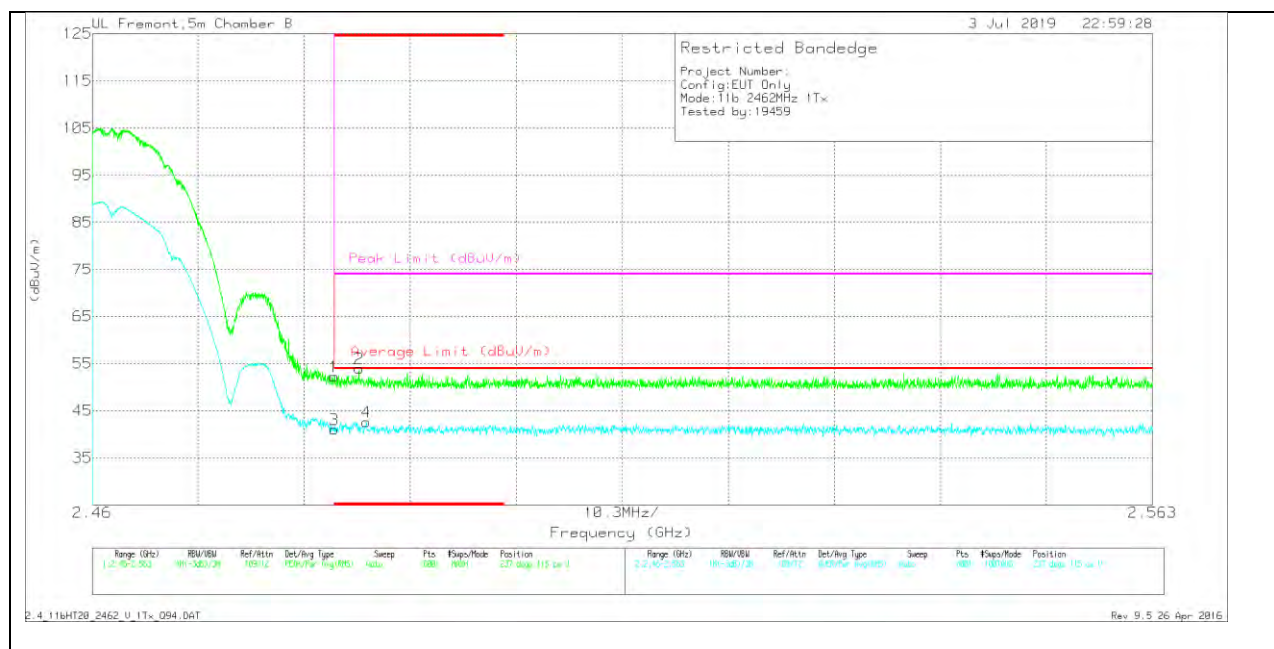
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filt/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.21	Pk	32.3	-18.9	55.61	-	-	74	-18.39	229	135	H
2	* 2.486	44.03	Pk	32.3	-18.9	57.43	-	-	74	-16.57	229	135	H
3	* 2.484	34.18	RMS	32.3	-18.9	47.58	54	-6.42	-	-	229	135	H
4	* 2.486	36.74	RMS	32.3	-18.9	50.14	54	-3.86	-	-	229	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 T344 (dB/m)	Amp/Cbl/Filtr/P ad (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	38.89	Pk	32.3	-18.9	52.29	-	-	74	-21.71	237	115	V
2	* 2.486	40.58	Pk	32.3	-18.9	53.98	-	-	74	-20.02	237	115	V
3	* 2.484	27.65	RMS	32.3	-18.9	41.05	54	-12.95	-	-	237	115	V
4	* 2.487	29.27	RMS	32.3	-18.9	42.67	54	-11.33	-	-	237	115	V

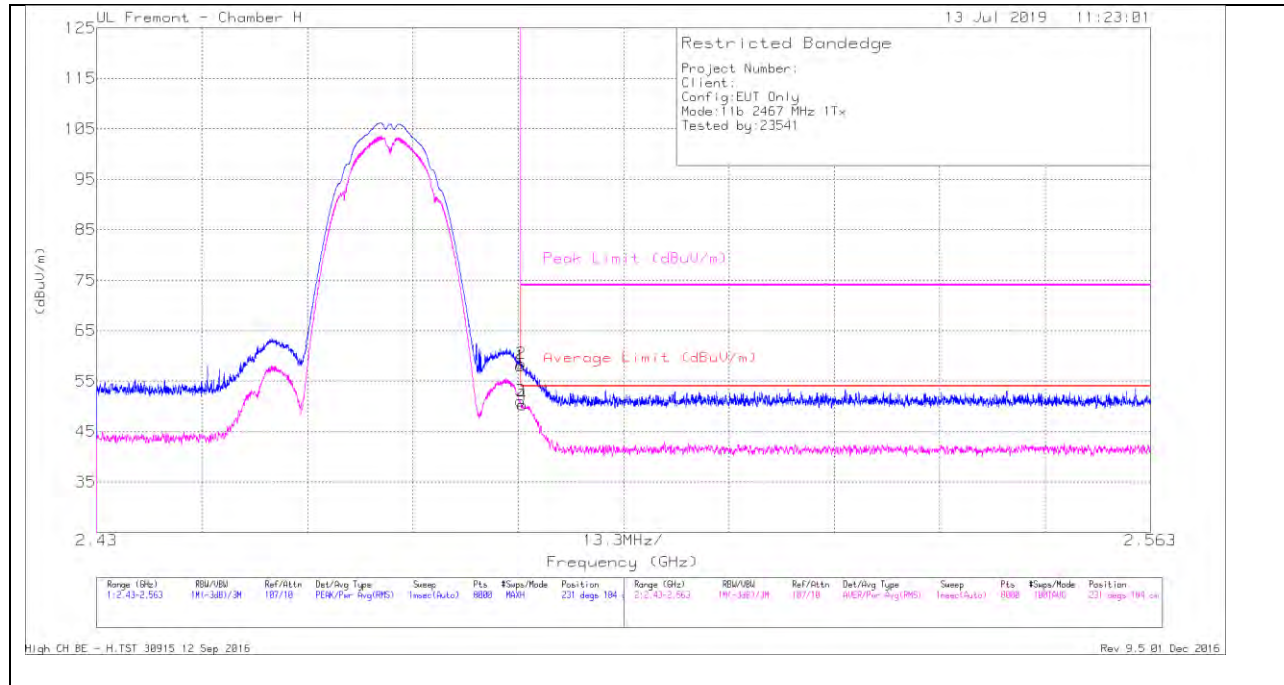
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



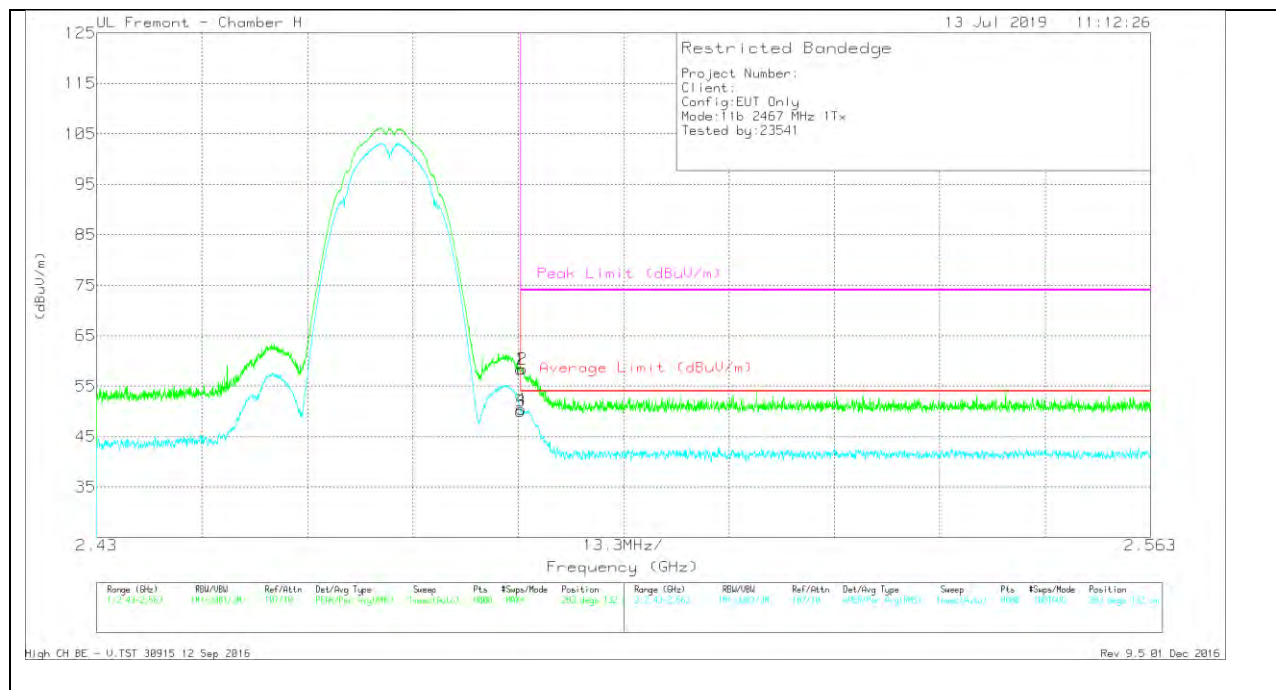
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.77	Pk	32.5	-23.3	57.97	-	-	74	-16.03	231	184	H
2	* 2.484	49.26	Pk	32.5	-23.3	58.46	-	-	74	-15.54	231	184	H
3	* 2.484	41.9	RMS	32.5	-23.3	51.1	54	-2.9	-	-	231	184	H
4	* 2.484	41.08	RMS	32.5	-23.3	50.28	54	-3.72	-	-	231	184	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/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.21	Pk	32.5	-23.3	58.41	-	-	74	-15.59	283	132	V
2	* 2.484	49.18	Pk	32.5	-23.3	58.38	-	-	74	-15.62	283	132	V
3	* 2.484	40.85	RMS	32.5	-23.3	50.05	54	-3.95	-	-	283	132	V
4	* 2.484	41.27	RMS	32.5	-23.3	50.47	54	-3.53	-	-	283	132	V

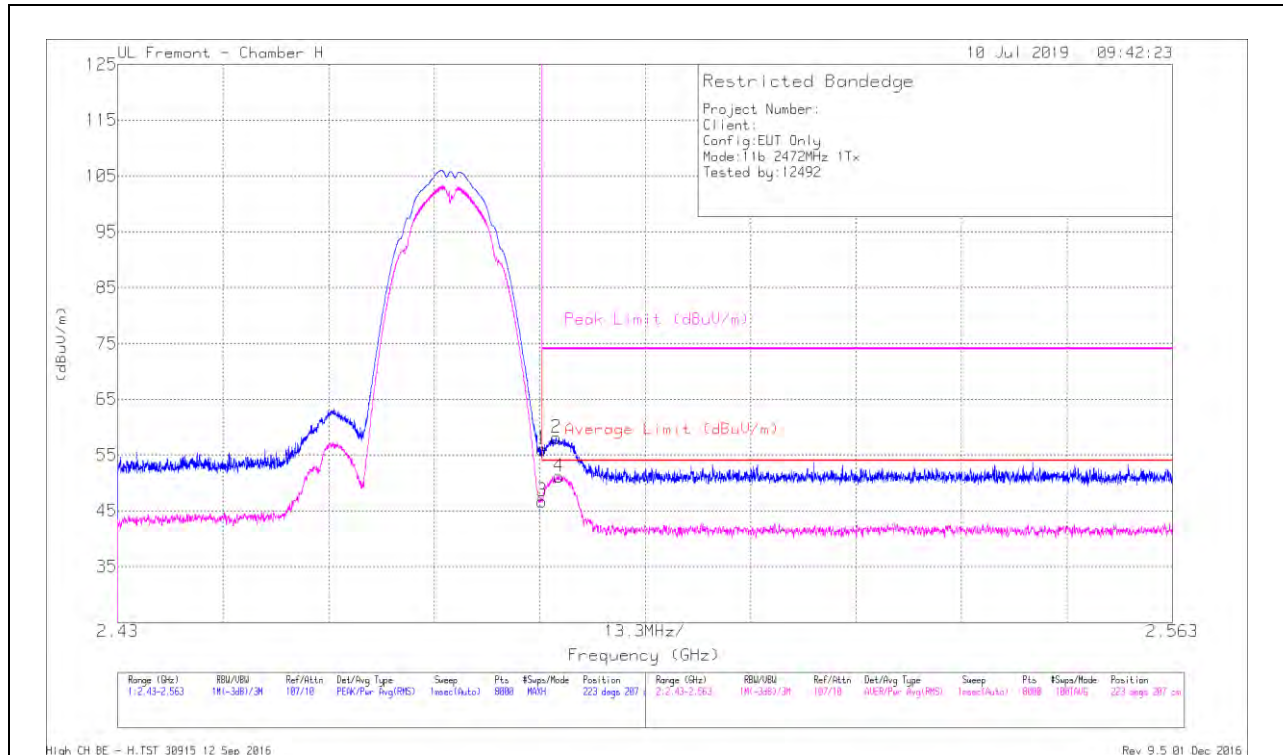
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



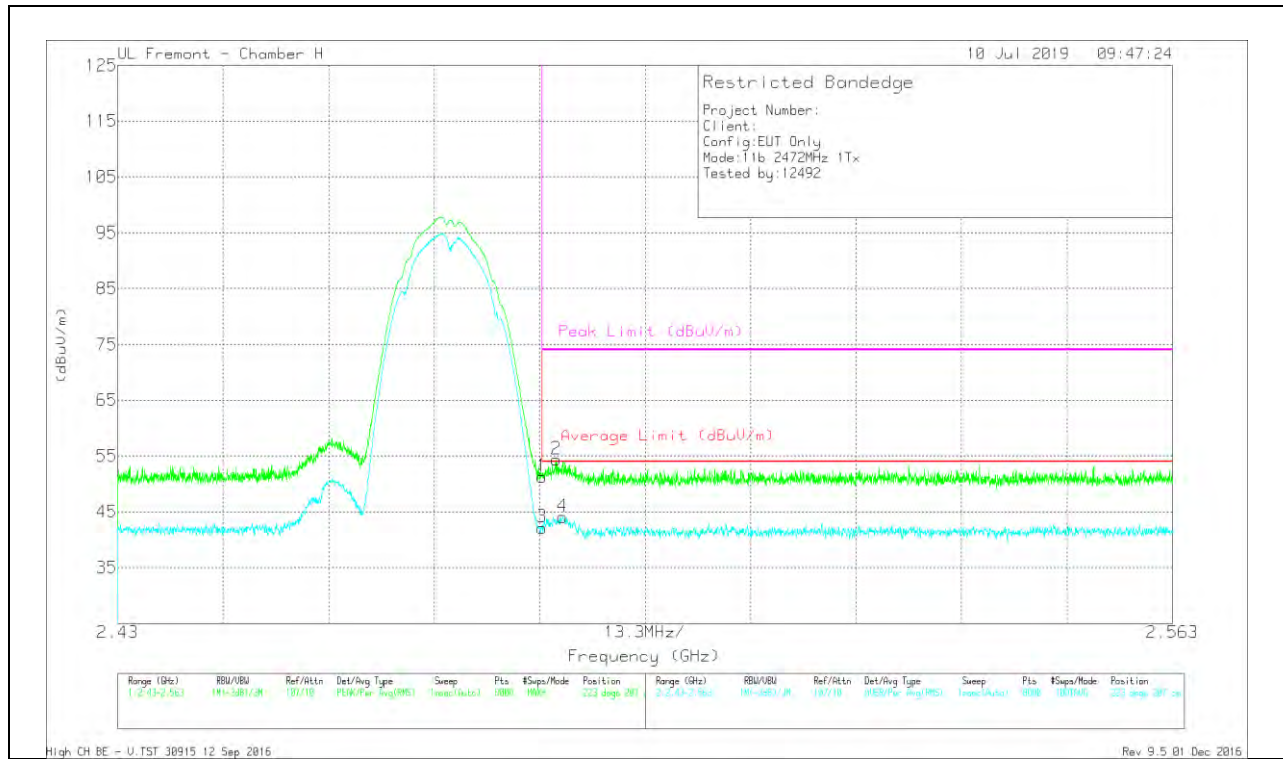
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.86	Pk	32.5	-23.3	56.06	-	-	74	-17.94	223	207	H
2	* 2.485	48.87	Pk	32.5	-23.3	58.07	-	-	74	-15.93	223	207	H
3	* 2.484	37.55	RMS	32.5	-23.3	46.75	54	-7.25	-	-	223	207	H
4	* 2.486	42.01	RMS	32.5	-23.3	51.21	54	-2.79	-	-	223	207	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 (dBm)	Amp/Cbl/Filtri/ad (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	42.07	Pk	32.5	-23.3	51.27	-	-	74	-22.73	223	207	V
2	* 2.485	45.23	Pk	32.5	-23.3	54.43	-	-	74	-19.57	223	207	V
3	* 2.484	32.96	RMS	32.5	-23.3	42.16	54	-11.84	-	-	223	207	V
4	* 2.486	34.9	RMS	32.5	-23.3	44.1	54	-9.9	-	-	223	207	V

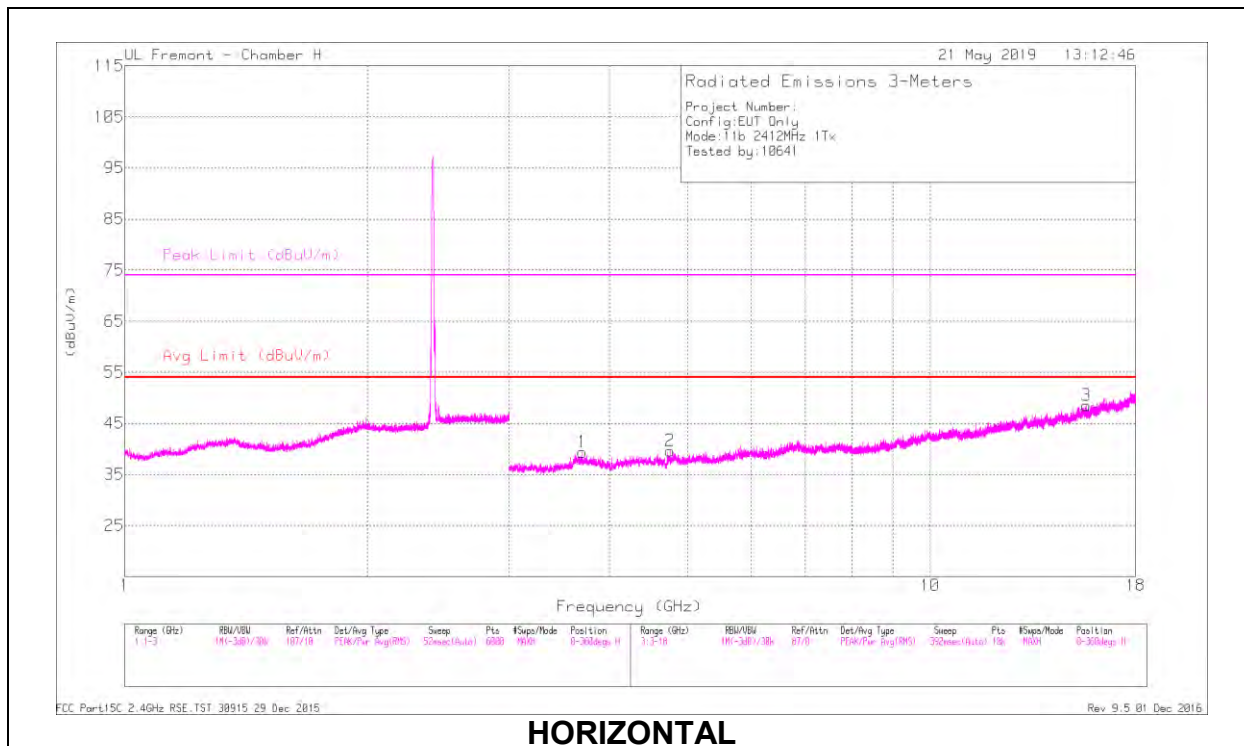
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

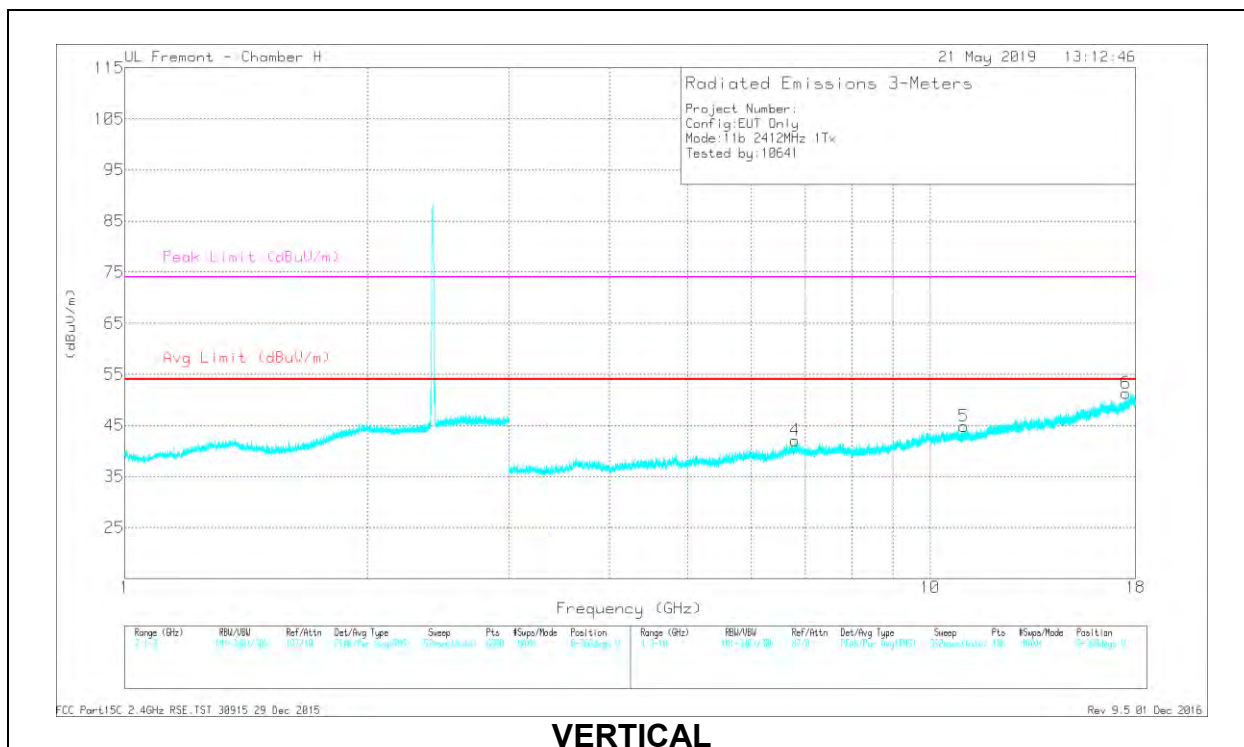
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

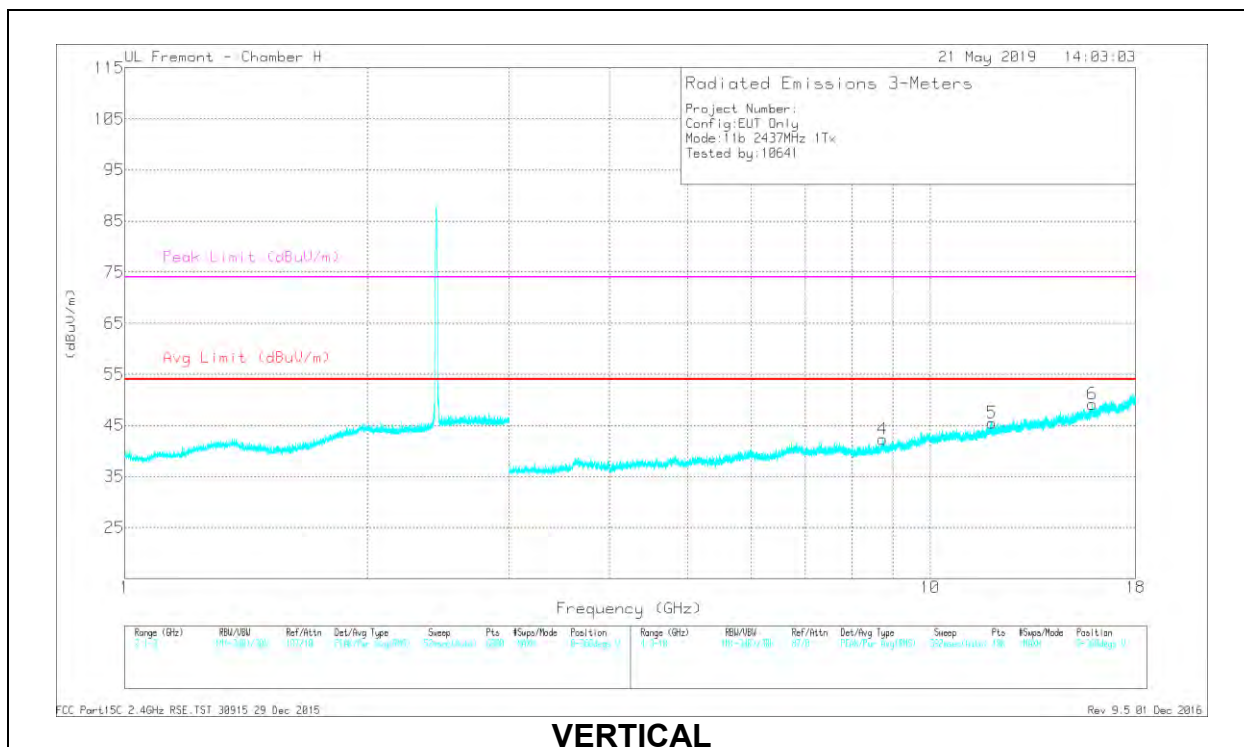
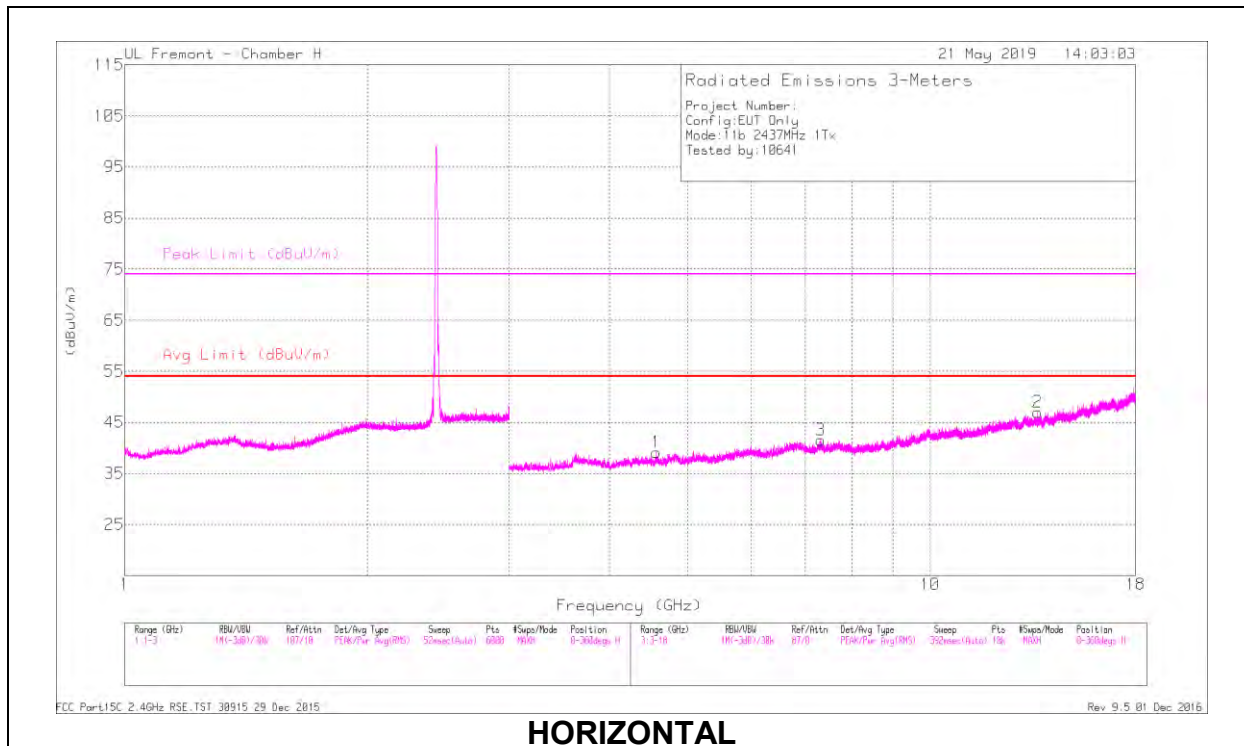
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.699	41.39	PK2	33.1	-30.4	44.09	-	-	74	-29.91	86	117	H
	* 3.701	30.69	MAv1	33.1	-30.4	33.39	54	-20.61	-	-	86	117	H
2	* 4.753	42.15	PK2	34.1	-30	46.25	-	-	74	-27.75	124	147	H
	* 4.753	30.78	MAv1	34.1	-30	34.88	54	-19.12	-	-	124	147	H
3	* 15.635	36.67	PK2	40.7	-22.5	54.87	-	-	74	-19.13	160	129	H
	* 15.636	25.24	MAv1	40.7	-22.5	43.44	54	-10.56	-	-	160	129	H
5	* 11.014	36.57	PK2	37.8	-23.5	50.87	-	-	74	-23.13	203	149	V
	* 11.014	25.05	MAv1	37.8	-23.5	39.35	54	-14.65	-	-	203	149	V
4	6.802	39.96	PK2	36.9	-28.6	48.26	-	-	74	-25.74	169	166	V
6	17.521	35.24	PK2	41.3	-19.9	56.64	-	-	74	-17.36	218	179	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

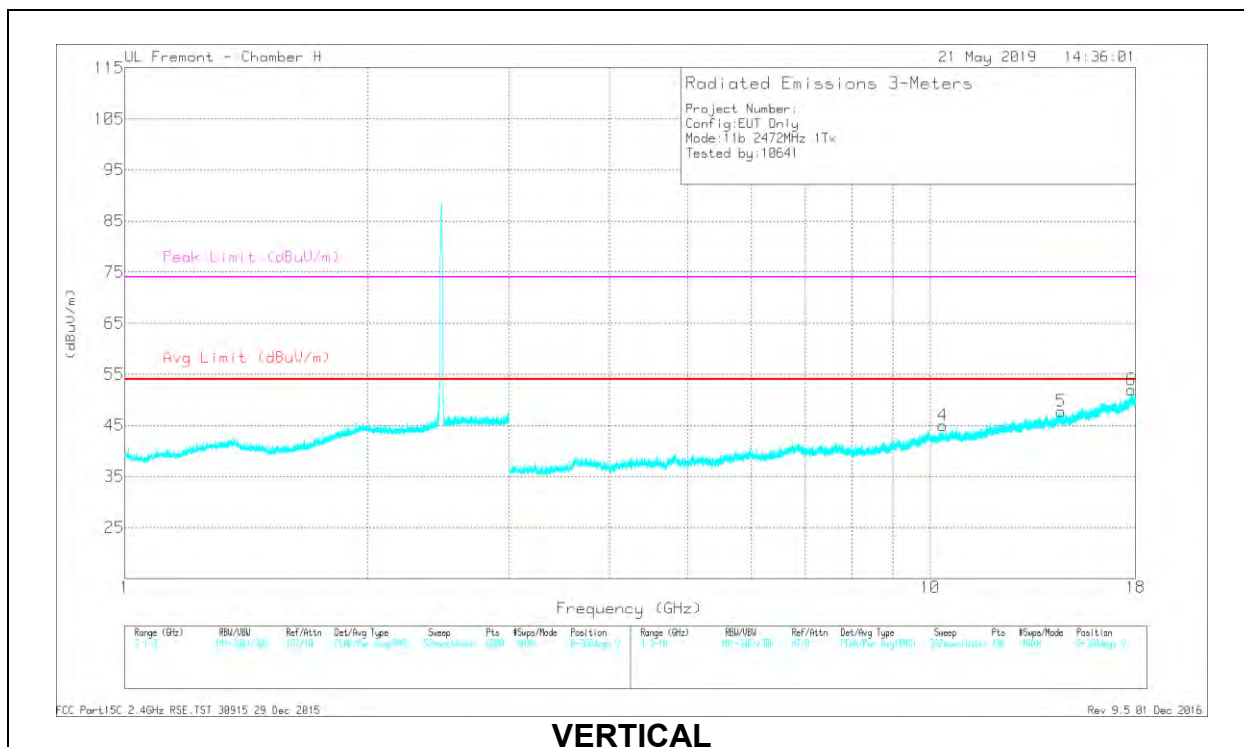
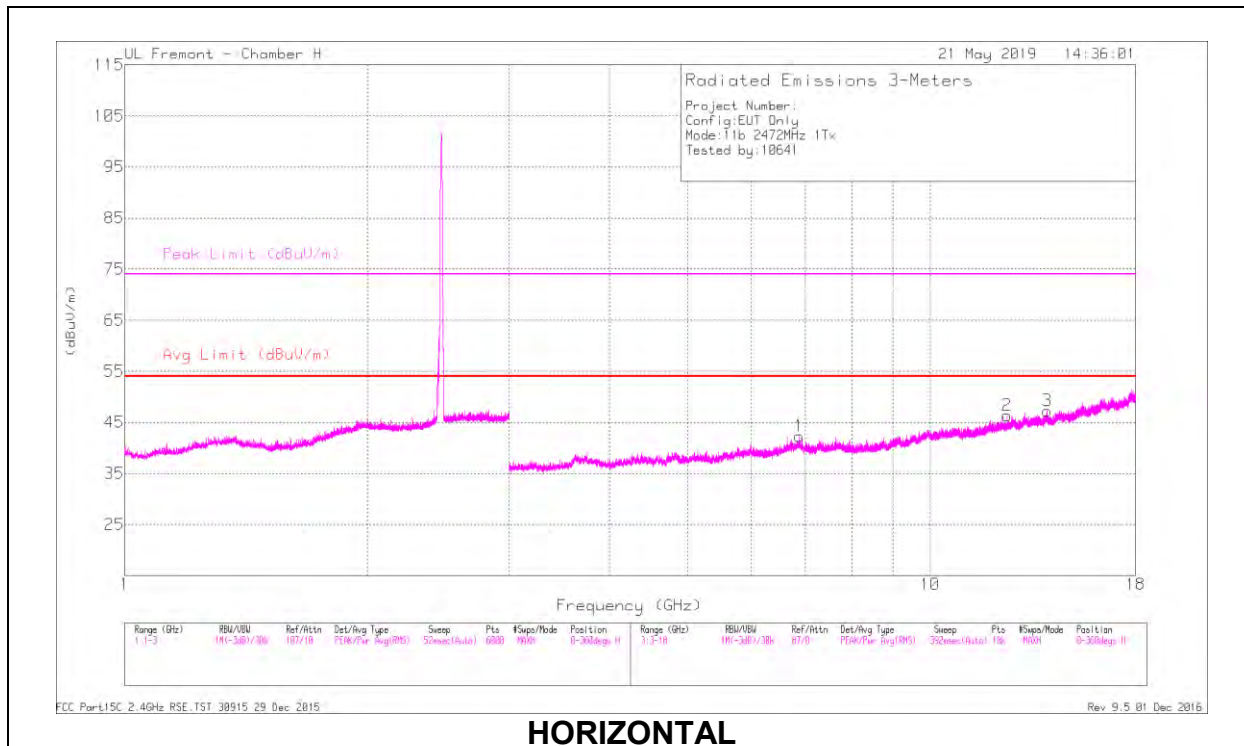
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.572	41.8	PK2	34.1	-30.2	45.7	-	-	74	-28.3	64	124	H
	* 4.574	30.5	MAv1	34.1	-30.2	34.4	54	-19.6	-	-	64	124	H
3	* 7.317	38.69	PK2	36.3	-26.4	48.59	-	-	74	-25.41	109	205	H
	* 7.314	27.1	MAv1	36.4	-26.5	37	54	-17	-	-	109	205	H
5	* 11.937	36.31	PK2	38.8	-23.2	51.91	-	-	74	-22.09	64	227	V
	* 11.939	24.8	MAv1	38.8	-23.2	40.4	54	-13.6	-	-	64	227	V
6	* 15.902	35.3	PK2	40.7	-20.5	55.5	-	-	74	-18.5	123	246	V
	* 15.902	24.13	MAv1	40.7	-20.5	44.33	54	-9.67	-	-	123	246	V
4	8.729	36.81	PK2	36	-24.8	48.01	-	-	74	-25.99	114	131	V
2	13.605	35.47	PK2	39.2	-21.6	53.07	-	-	74	-20.93	114	126	H

* - 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/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
2	* 12.464	36.84	PK2	39.2	-23.4	52.64	-	-	74	-21.36	231	119	H
	* 12.465	25.16	MAv1	39.2	-23.4	40.96	54	-13.04	-	-	231	119	H
6	* 17.798	35.25	PK2	41.8	-19	58.05	-	-	74	-15.95	178	147	V
	* 17.798	24.12	MAv1	41.9	-19	47.02	54	-6.98	-	-	178	147	V
1	6.884	38.12	PK2	36.6	-26.9	47.82	-	-	74	-26.18	231	166	H
4	10.368	35.5	PK2	37.5	-22.9	50.1	-	-	74	-23.90	191	259	V
3	13.979	35.77	PK2	39.2	-21	53.97	-	-	74	-20.03	250	180	H
5	14.542	35.9	PK2	40	-21.7	54.2	-	-	74	-19.80	209	246	V

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

PK2 - KDB558074 Method: Maximum Peak

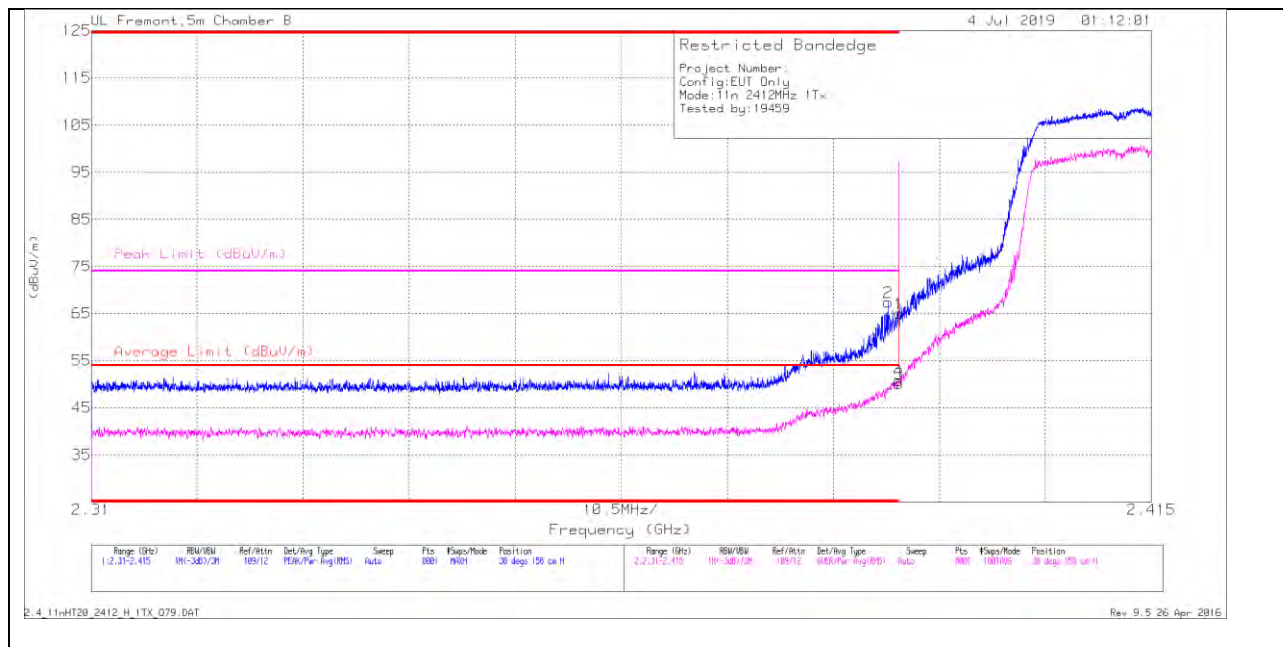
MAv1 - KDB558074 Option 1 Maximum RMS Average

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

1TX Antenna 4 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/P ad (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	52.01	Pk	31.9	-18.9	65.01	-	-	74	-8.99	38	158	H
2	* 2.389	54.41	Pk	31.9	-18.9	67.41	-	-	74	-6.59	38	158	H
3	* 2.39	37.18	RMS	31.9	-18.9	50.18	54	-3.82	-	-	38	158	H
4	* 2.39	37.73	RMS	31.9	-18.9	50.73	54	-3.27	-	-	38	158	H

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

Pk - Peak detector

RMS - RMS detection

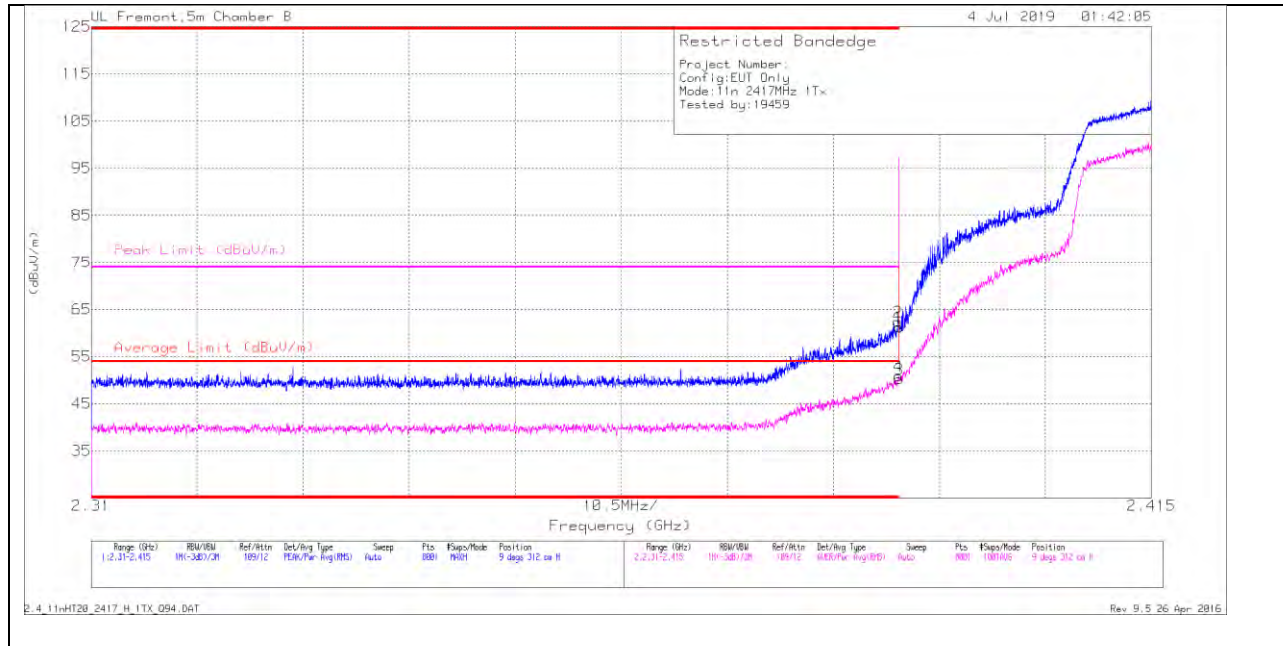
[illegible]

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 2.39	43.43	Pk	31.9	-18.9	56.43	-	-	74	-17.57	68	205	V
2	* 2.39	47.81	Pk	31.9	-18.9	60.81	-	-	74	-13.19	68	205	V
3	* 2.39	32.07	RMS	31.9	-18.9	45.07	54	-8.93	-	-	68	205	V
4	* 2.39	33.01	RMS	31.9	-18.9	46.01	54	-7.99	-	-	68	205	V

Pk - Peak detector
RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 2)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filt/P ad (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	48.28	Pk	31.9	-18.9	61.28	-	-	74	-12.72	9	312	H
2	* 2.39	49.44	Pk	31.9	-18.9	62.44	-	-	74	-11.56	9	312	H
3	* 2.39	37.28	RMS	31.9	-18.9	50.28	54	-3.72	-	-	9	312	H
4	* 2.39	37.9	RMS	31.9	-18.9	50.9	54	-3.1	-	-	9	312	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont, 5m Chamber B

4 Jul 2019 01:48:21

Restricted Bandedge

Project Number:
Config: EUT Only
Mode: 11n 2417MHz ITx
Tested by: 19459

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

10.5MHz/
Frequency (GHz)

Range (Hz)	RBW/VBW	Ref/Att'n	Det/ing type	Sweep	Freq	Flags/Mode	Position
1.2-315.415	100-500/20	100dB/12	12dB/12	100dB/12	100dB/12	100dB/12	100dB/12
2.4-115.415	100-500/20	100dB/12	12dB/12	100dB/12	100dB/12	100dB/12	100dB/12

2.4 11nHT20_2417_U_ITX_094.Dat

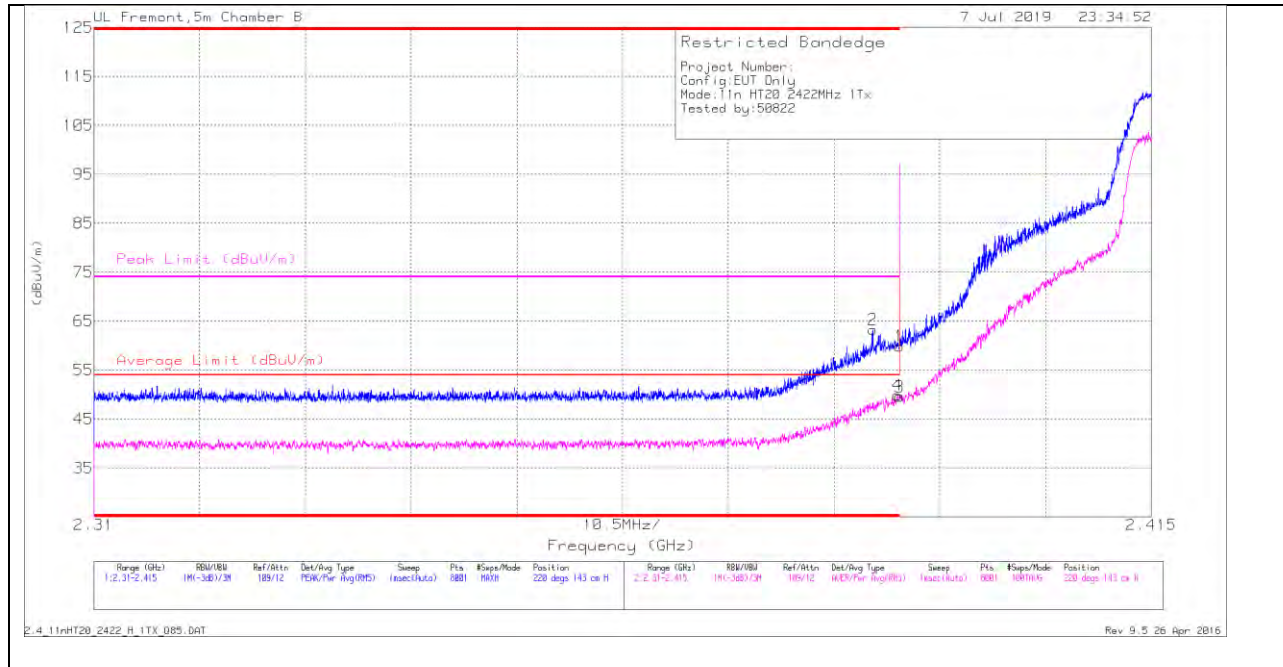
Rev 9.5 26 Apr 2016

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 2.39	41.01	Pk	31.9	-18.9	54.01	-	-	74	-19.99	196	377	V
2	* 2.39	41.14	Pk	31.9	-18.9	54.14	-	-	74	-19.86	196	377	V
3	* 2.39	29.6	RMS	31.9	-18.9	42.6	54	-11.4	-	-	196	377	V
4	* 2.39	30.72	RMS	31.9	-18.9	43.72	54	-10.28	-	-	196	377	V

Pk - Peak detector
RMS - RMS detection

BANDEGE (HIGH CHANNEL, CH 3)

HORIZONTAL RESULT



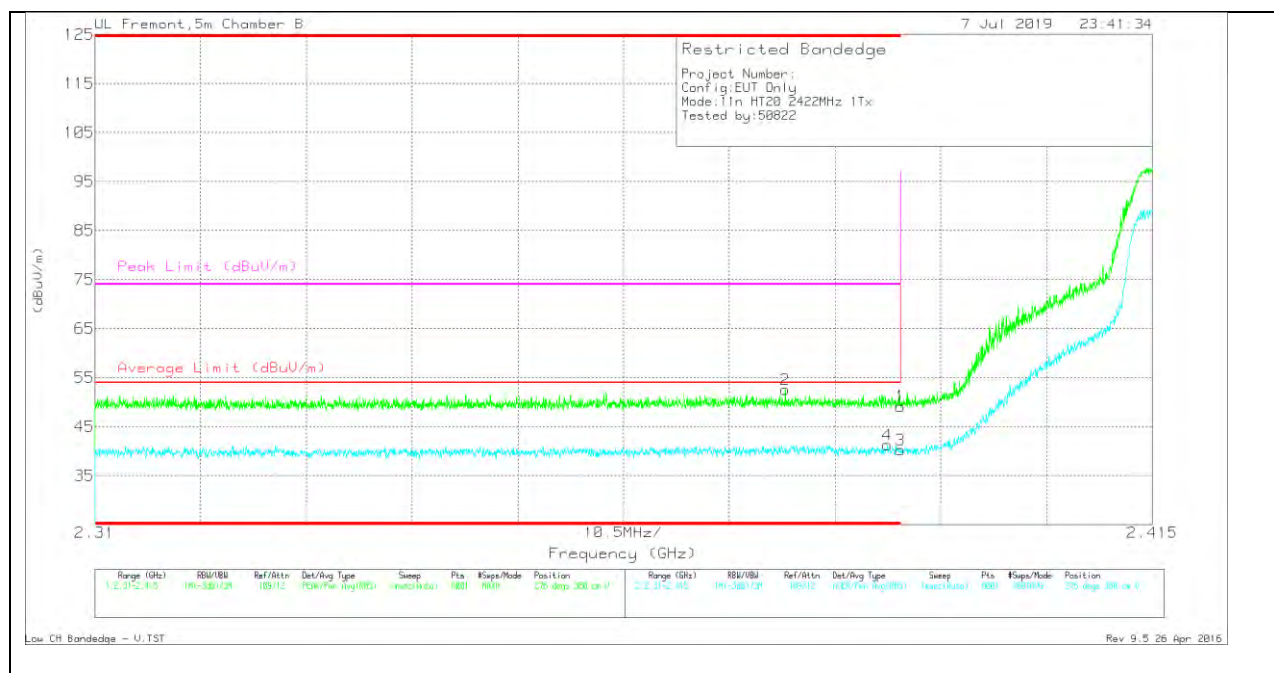
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dBm)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.94	Pk	31.9	-18.9	59.94	-	-	74	-14.06	220	143	H
2	* 2.387	50.4	Pk	31.8	-18.9	63.3	-	-	74	-10.7	220	143	H
3	* 2.39	36.61	RMS	31.9	-18.9	49.61	54	-4.39	-	-	220	143	H
4	* 2.39	36.92	RMS	31.9	-18.9	49.92	54	-4.08	-	-	220	143	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 T344 (dB/m)	Amp/Cbl/Filtr/P ad (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	36.17	Pk	31.9	-18.9	49.17	-	-	74	-24.83	276	380	V
2	* 2.379	39.58	Pk	31.8	-18.8	52.58	-	-	74	-21.42	276	380	V
3	* 2.39	27.27	RMS	31.9	-18.9	40.27	54	-13.73	-	-	276	380	V
4	* 2.389	28.3	RMS	31.9	-18.9	41.3	54	-12.7	-	-	276	380	V

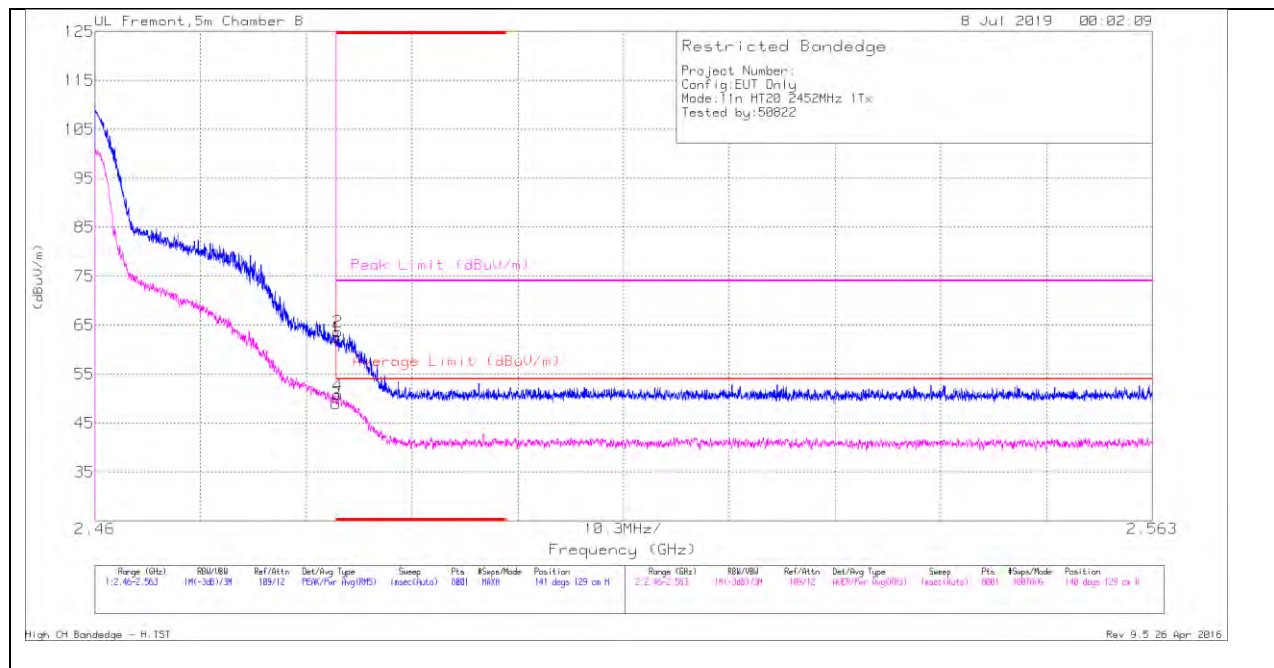
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 9)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbf/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.18	Pk	32.3	-18.9	62.58	-	-	74	-11.42	141	129	H
2	* 2.484	50.26	Pk	32.3	-18.9	63.66	-	-	74	-10.34	141	129	H
3	* 2.484	35.56	RMS	32.3	-18.9	48.96	54	-5.04	-	-	140	129	H
4	* 2.484	37.37	RMS	32.3	-18.9	50.77	54	-3.23	-	-	140	129	H

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

Pk - Peak detector

RMS - RMS detection