

## 8.12.6. OUT-OF-BAND EMISSIONS

### LIMITS

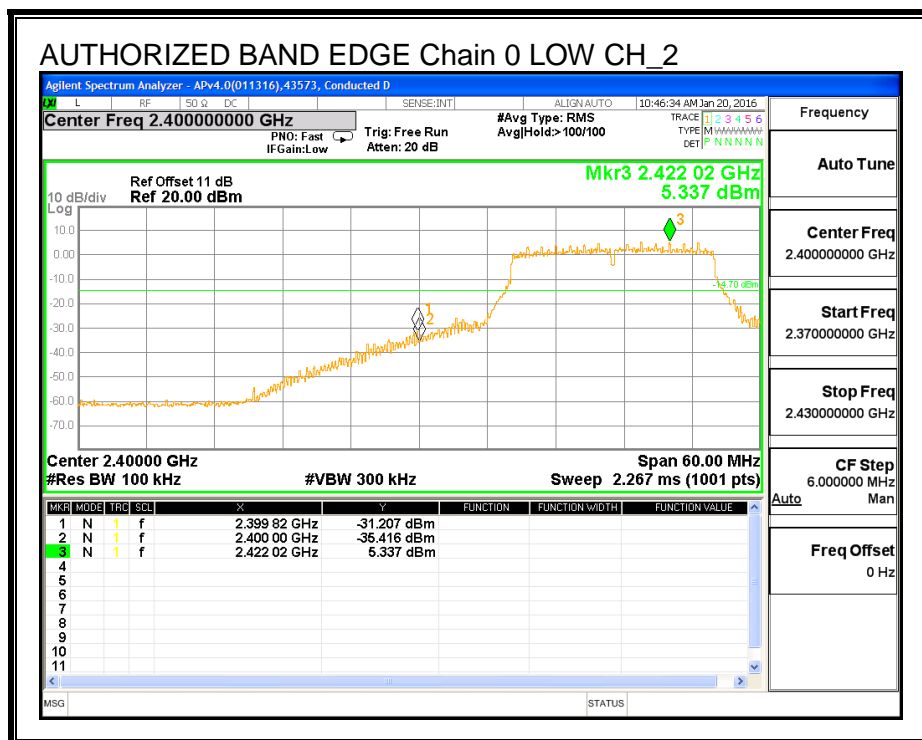
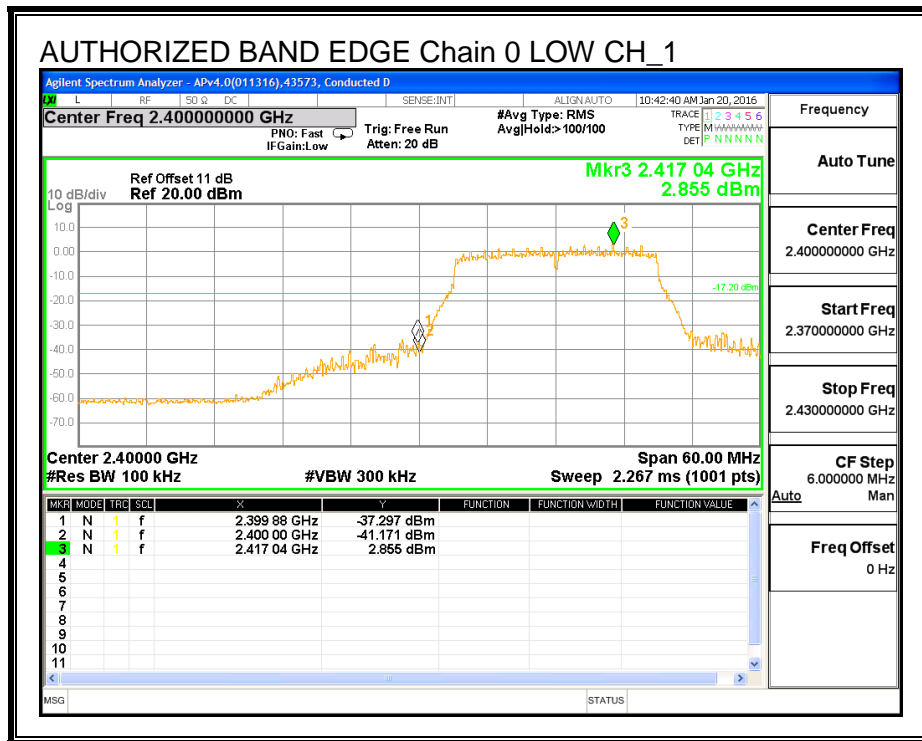
FCC §15.247 (d)

IC RSS-247 (5.5)

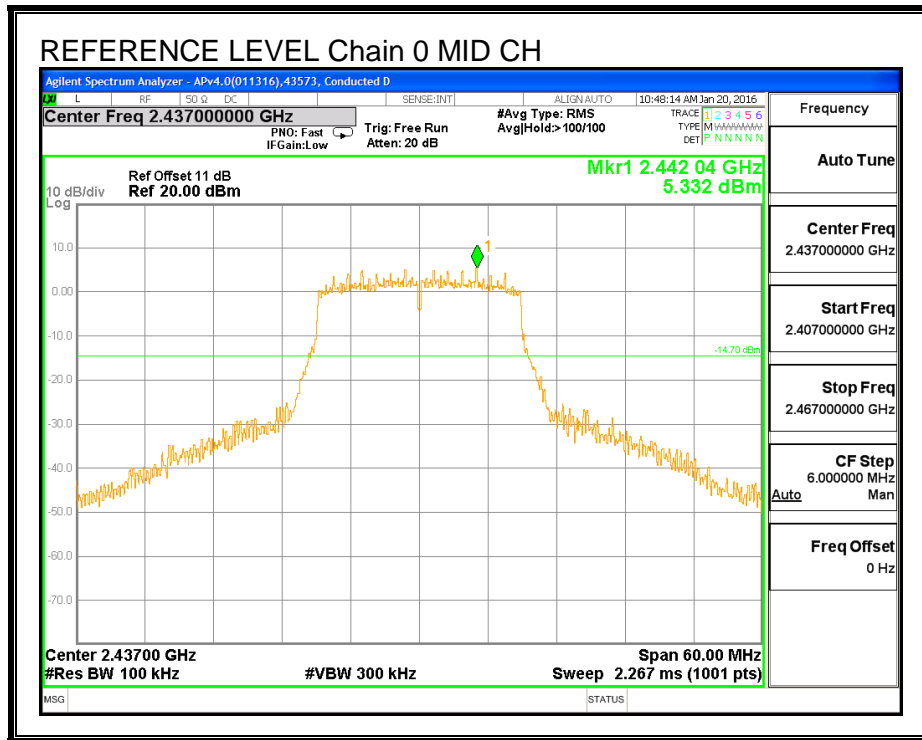
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

**RESULTS**

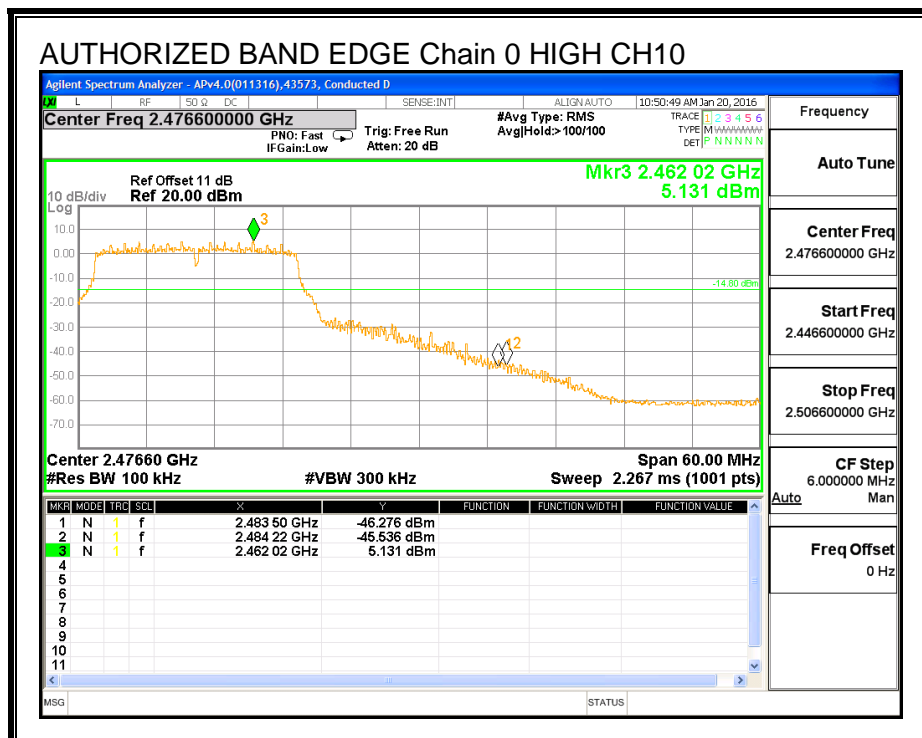
**LOW CHANNEL BANDEDGE, Antenna A**

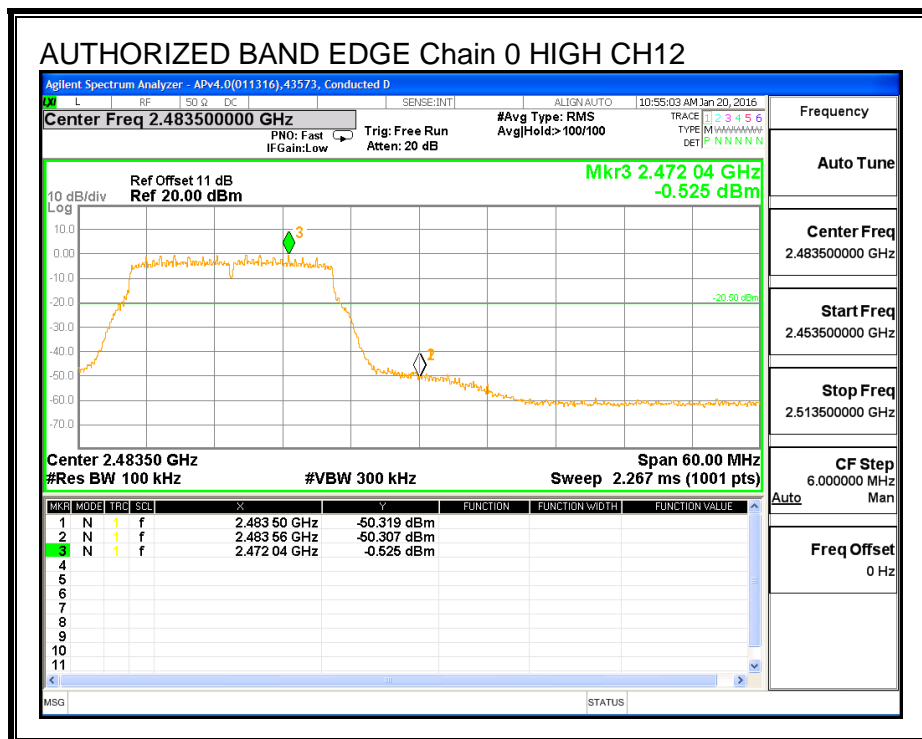
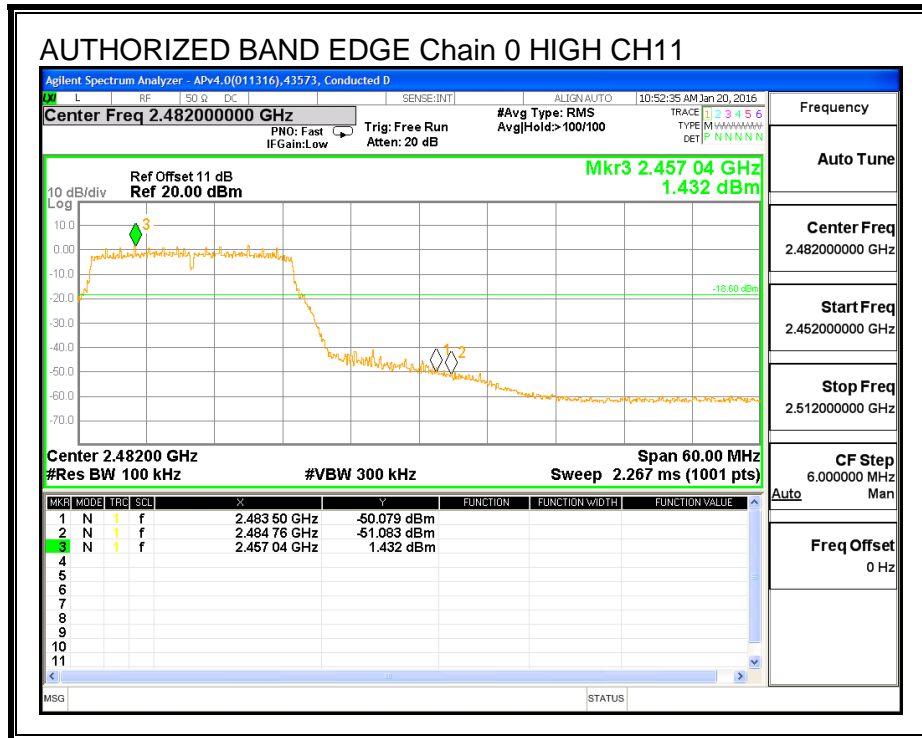


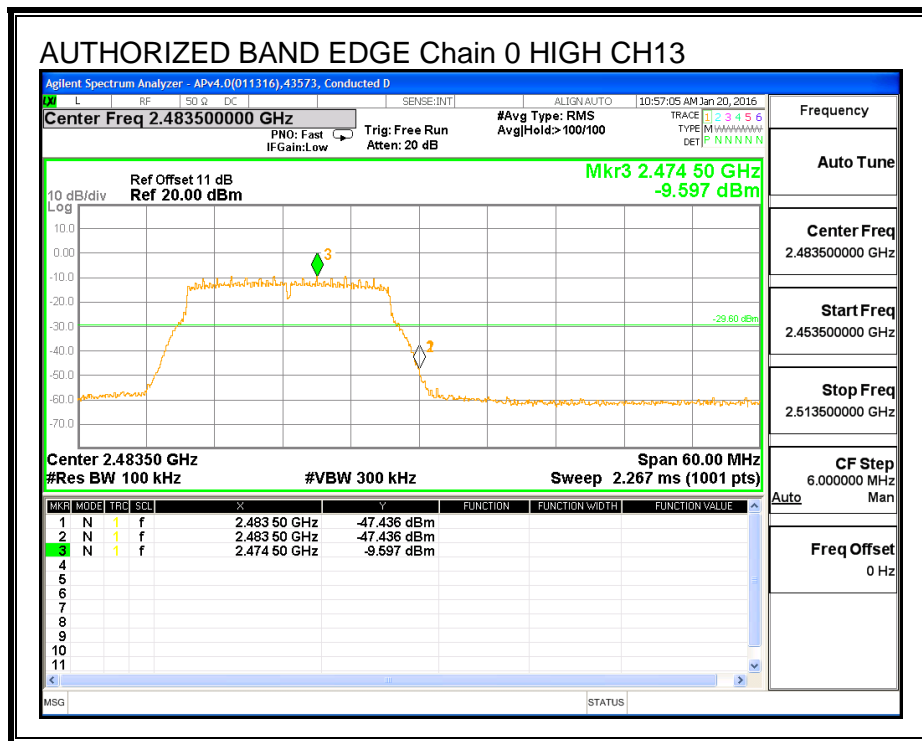
**MID CHANNEL BANDEDGE, Antenna A**



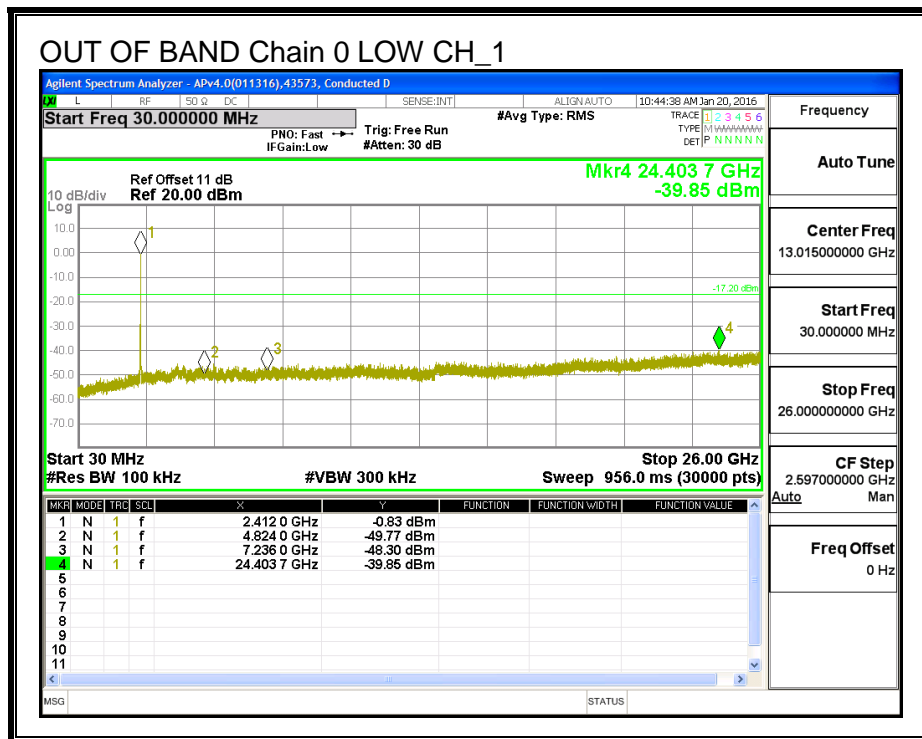
**HIGH CHANNEL BANDEDGE, Antenna A**

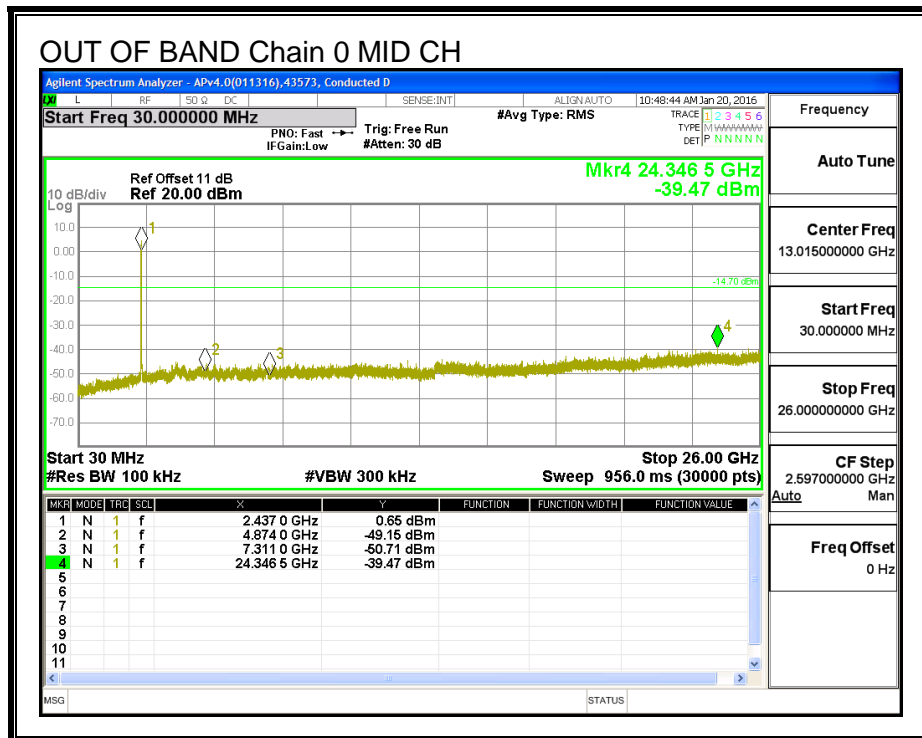
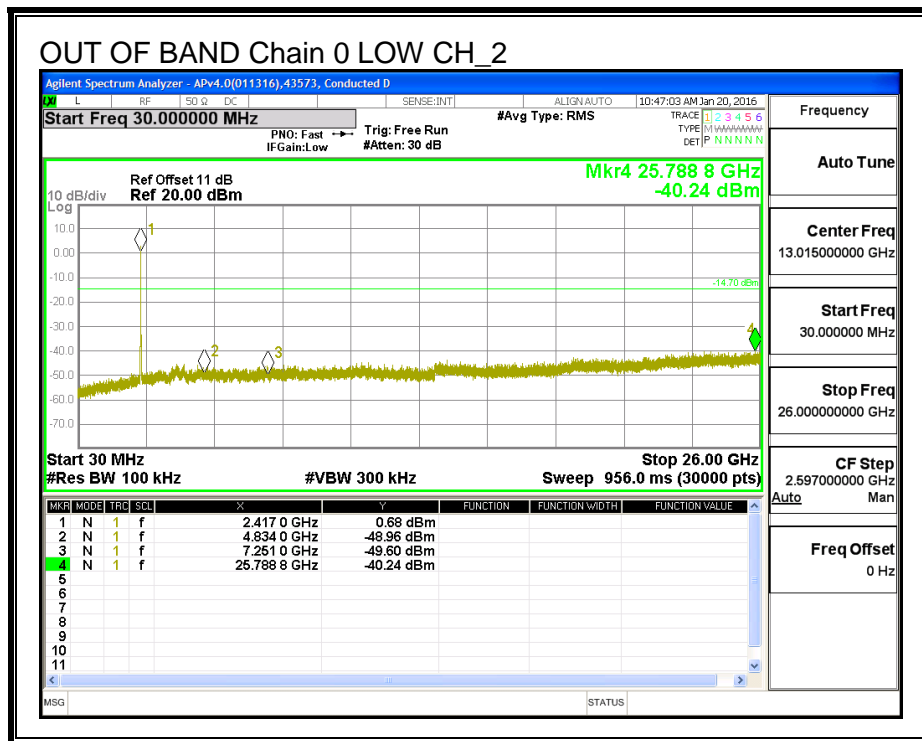


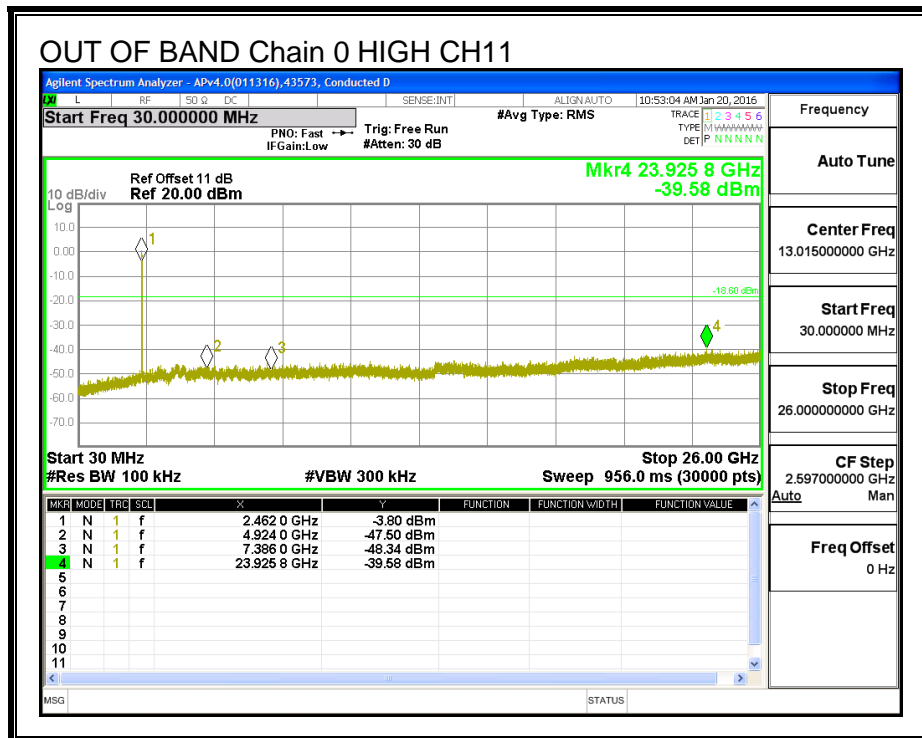
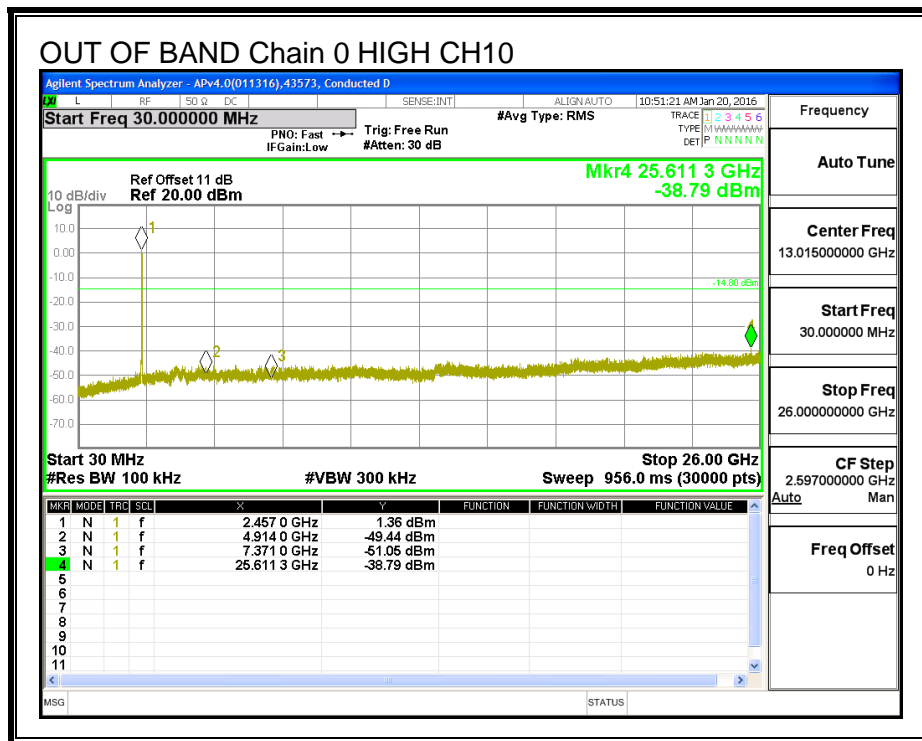




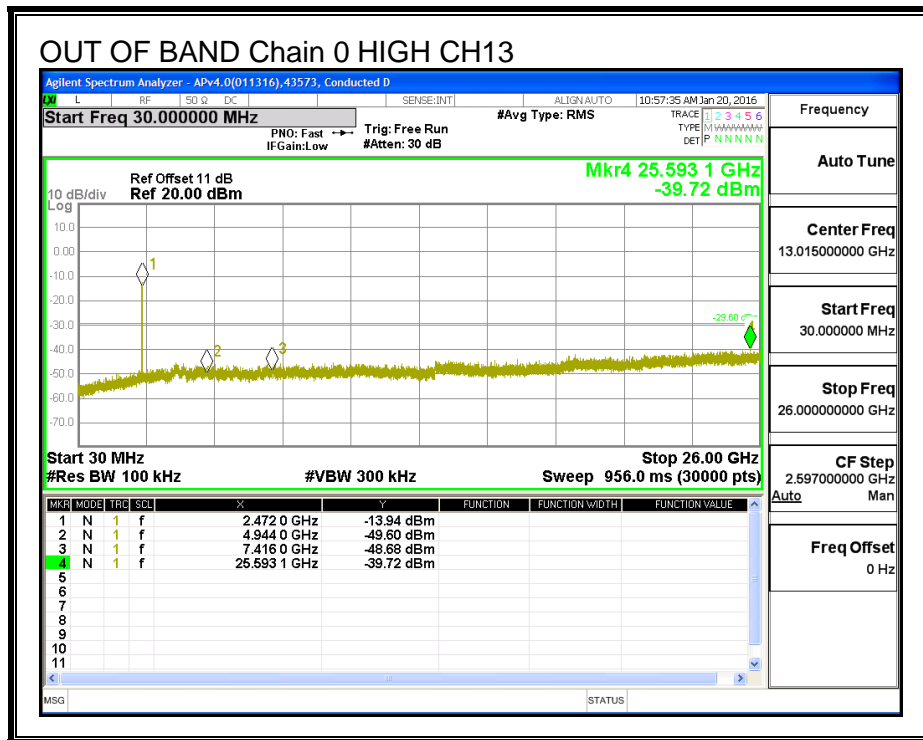
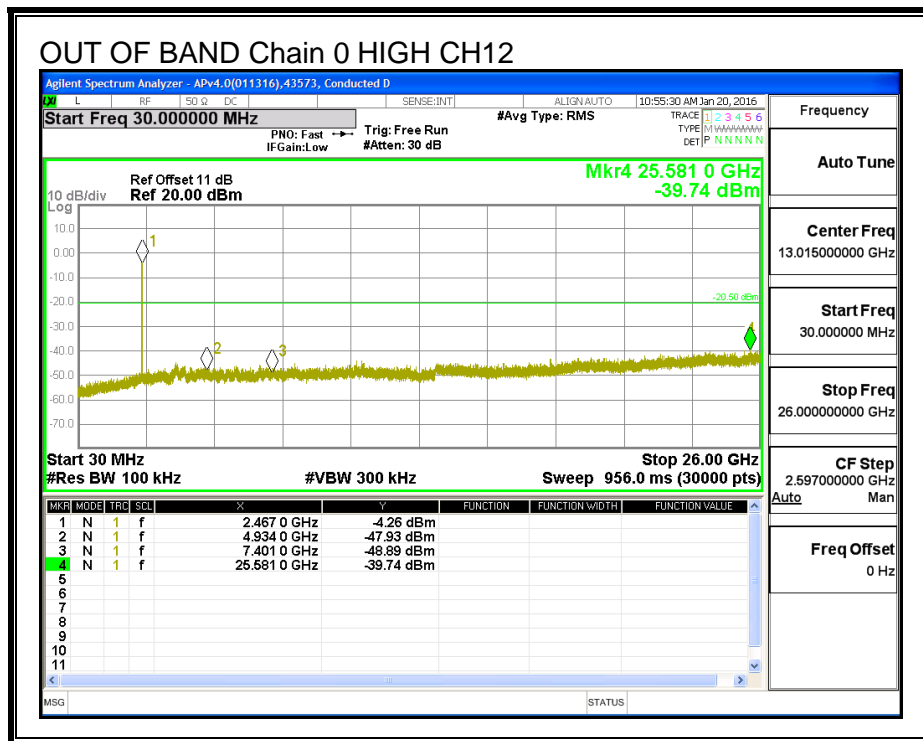
**OUT-OF-BAND EMISSIONS, Antenna A**



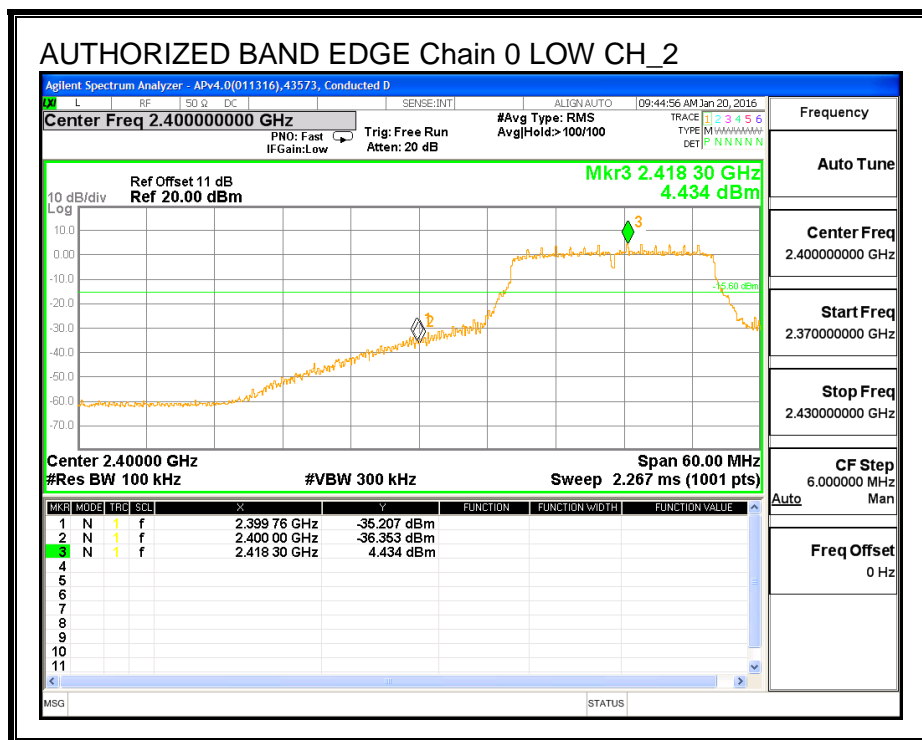
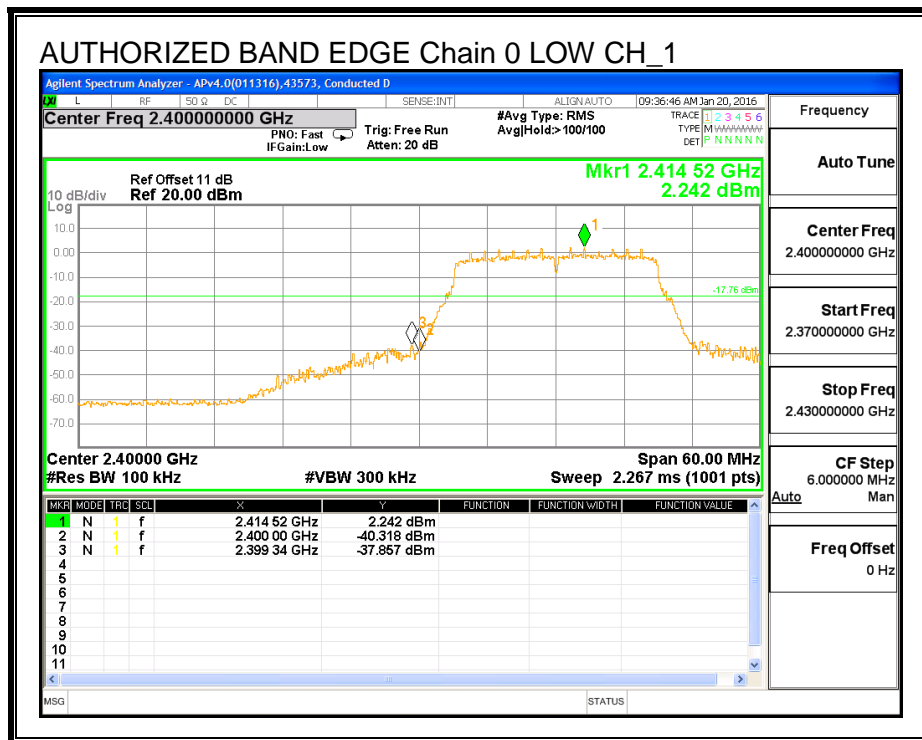




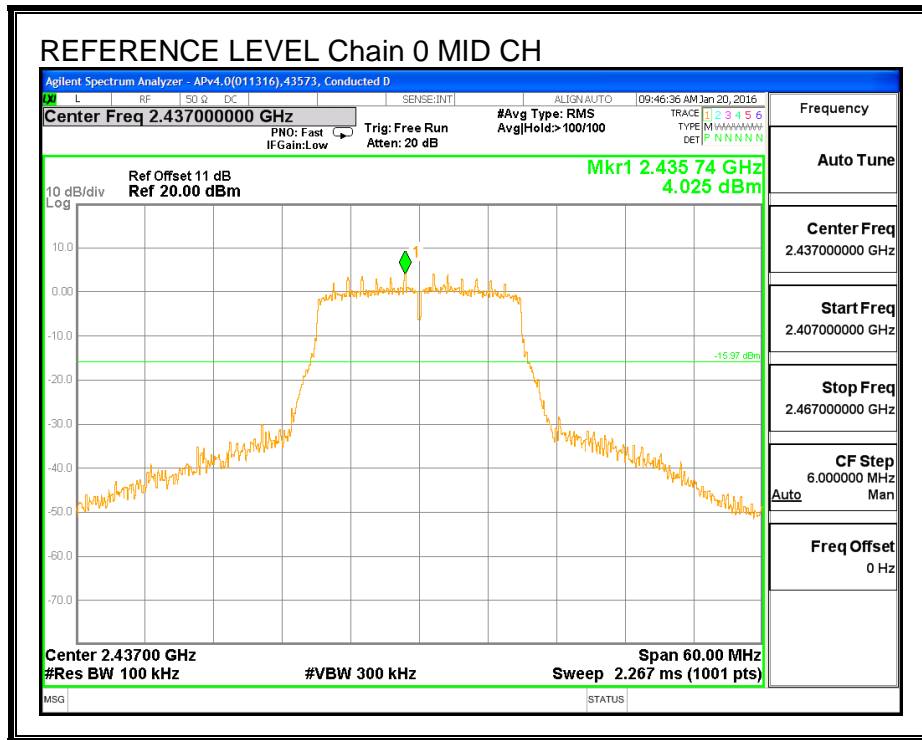




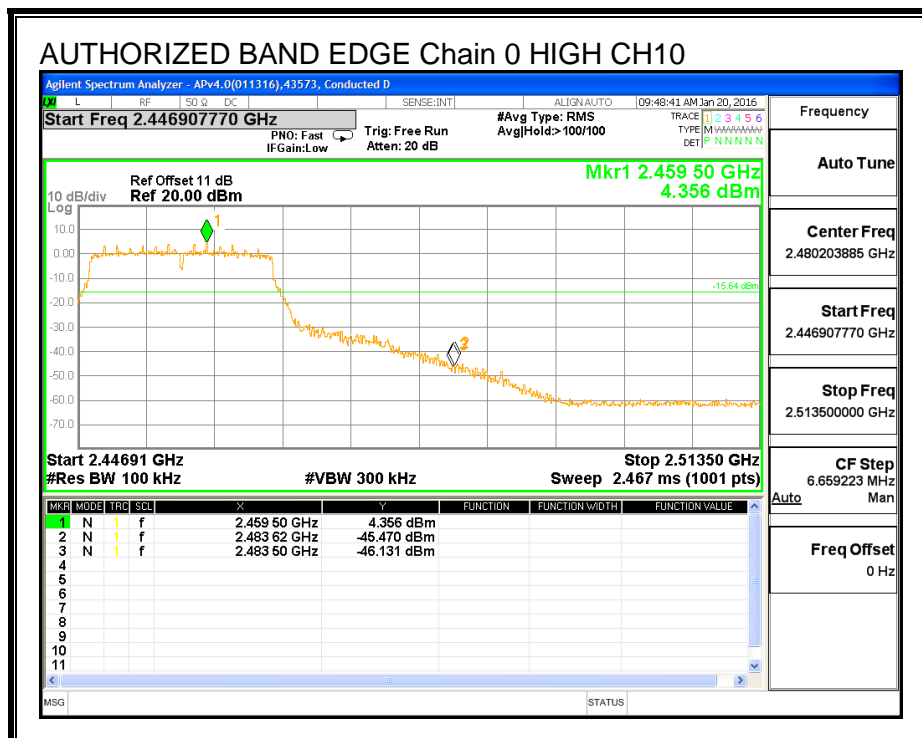
**LOW CHANNEL BANDEDGE, Antenna B**

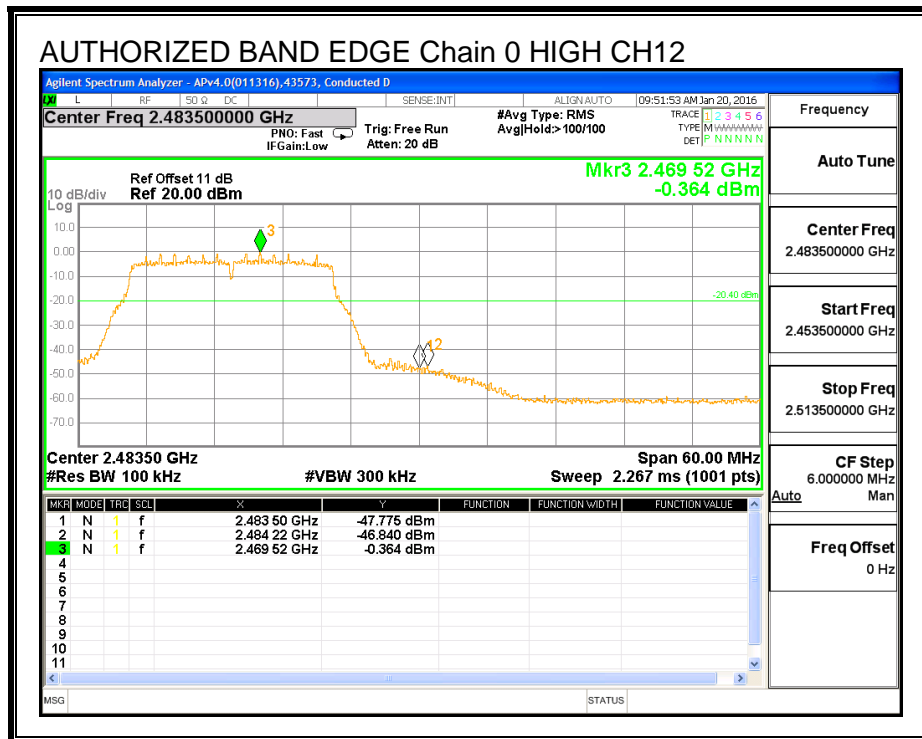
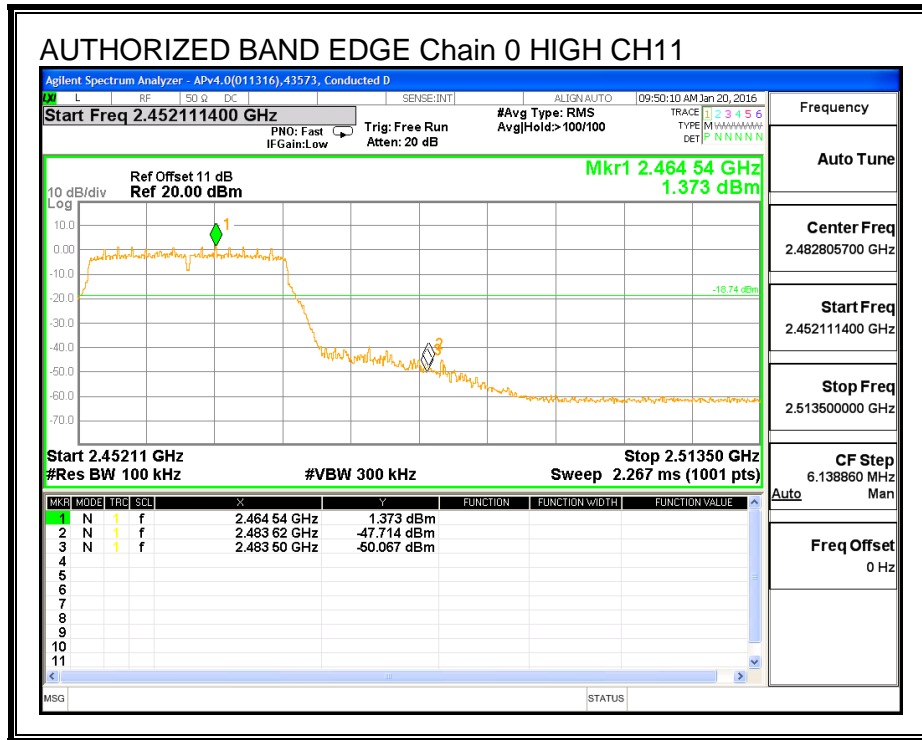


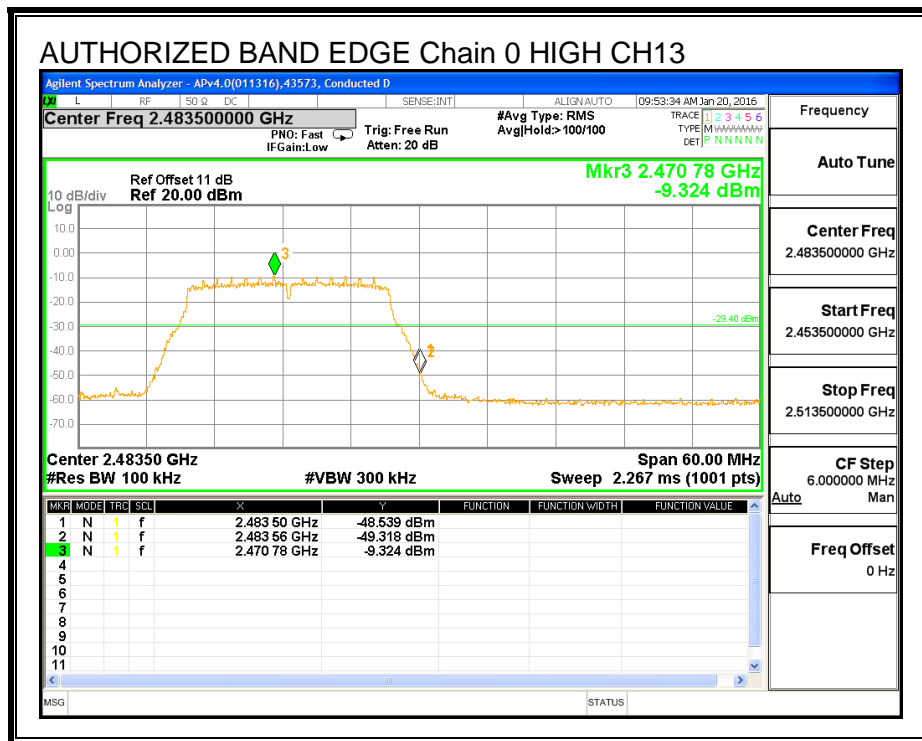
**MID CHANNEL BANDEDGE, Antenna B**



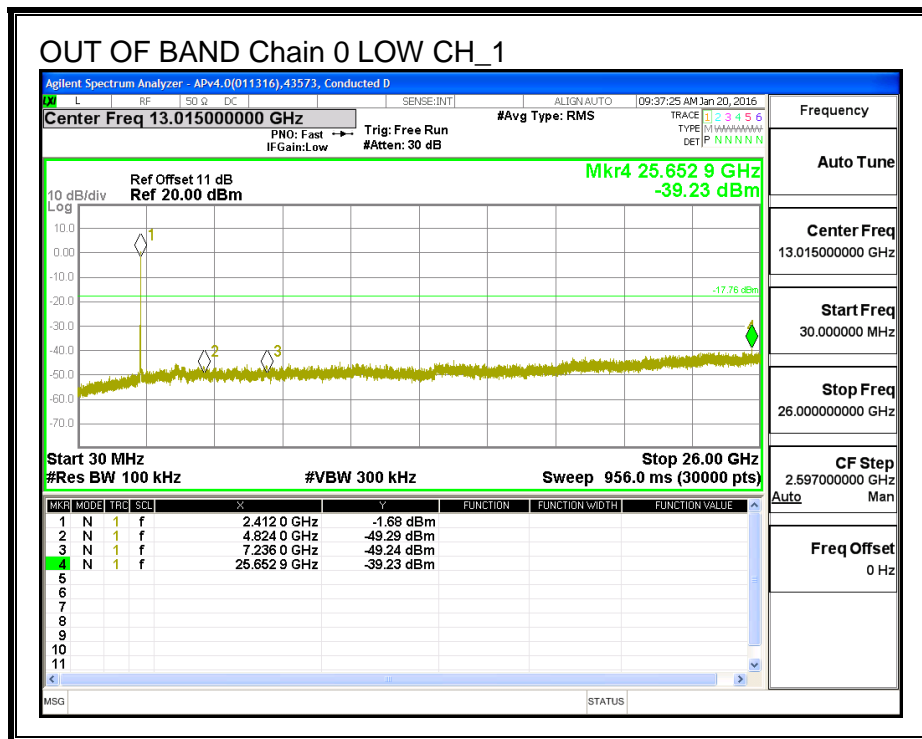
**HIGH CHANNEL BANDEDGE, Antenna B**

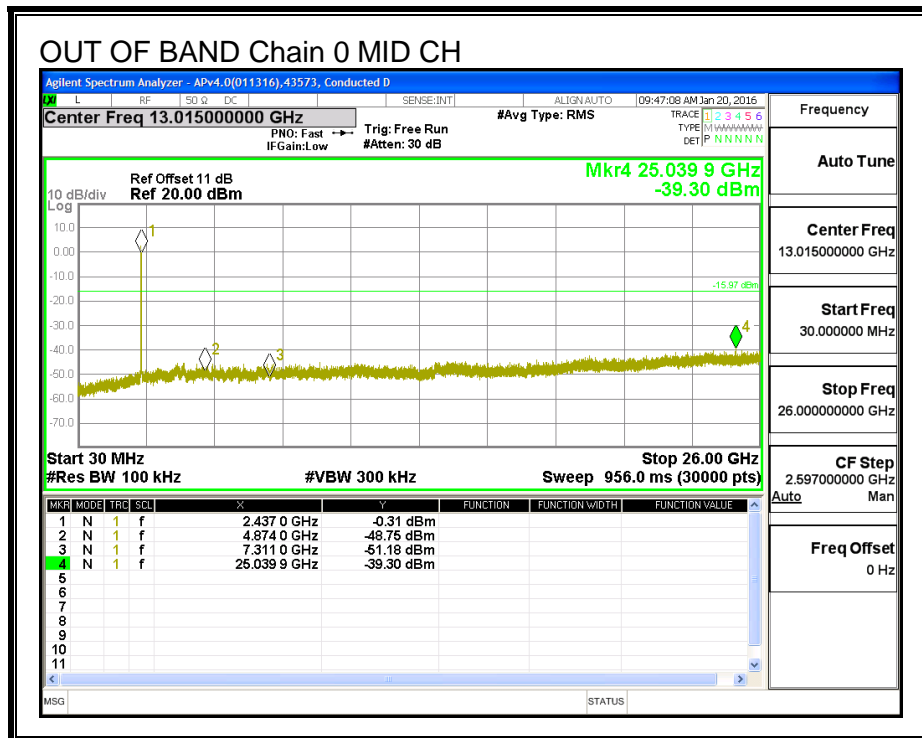
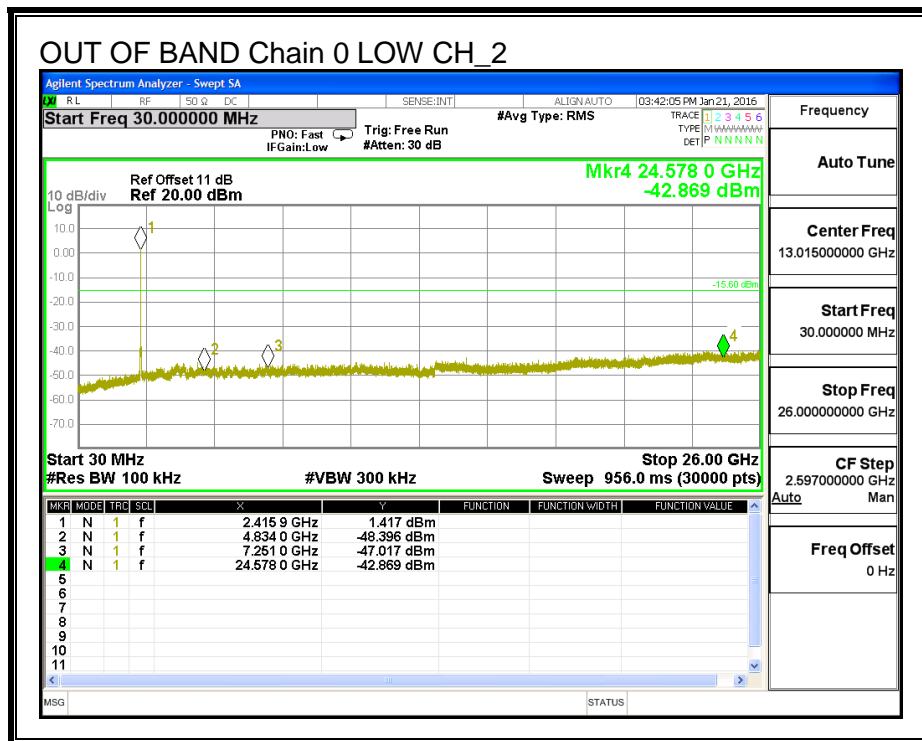


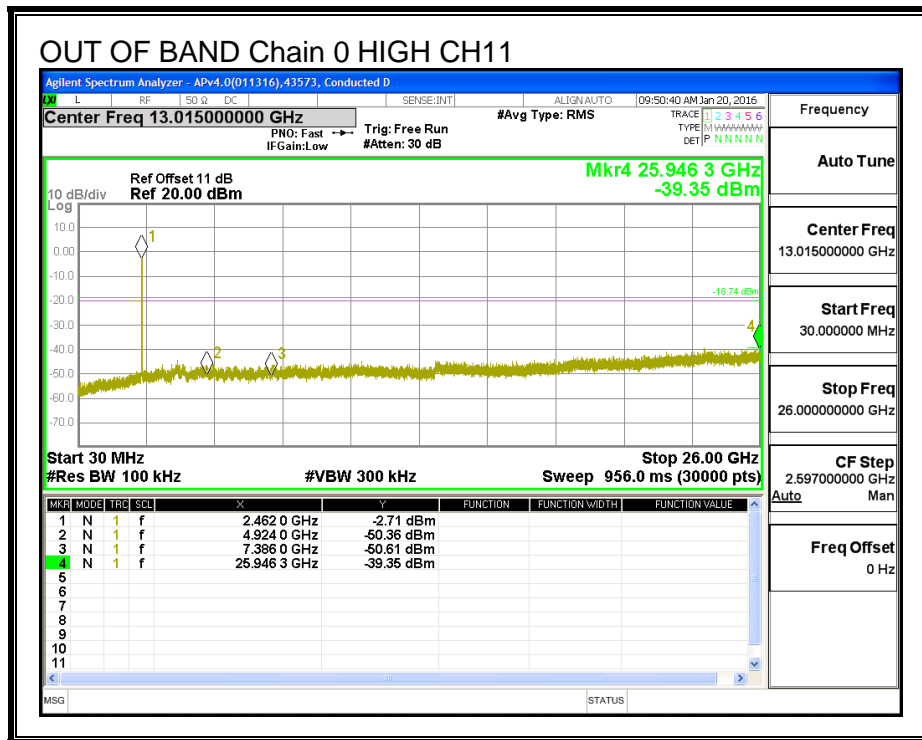
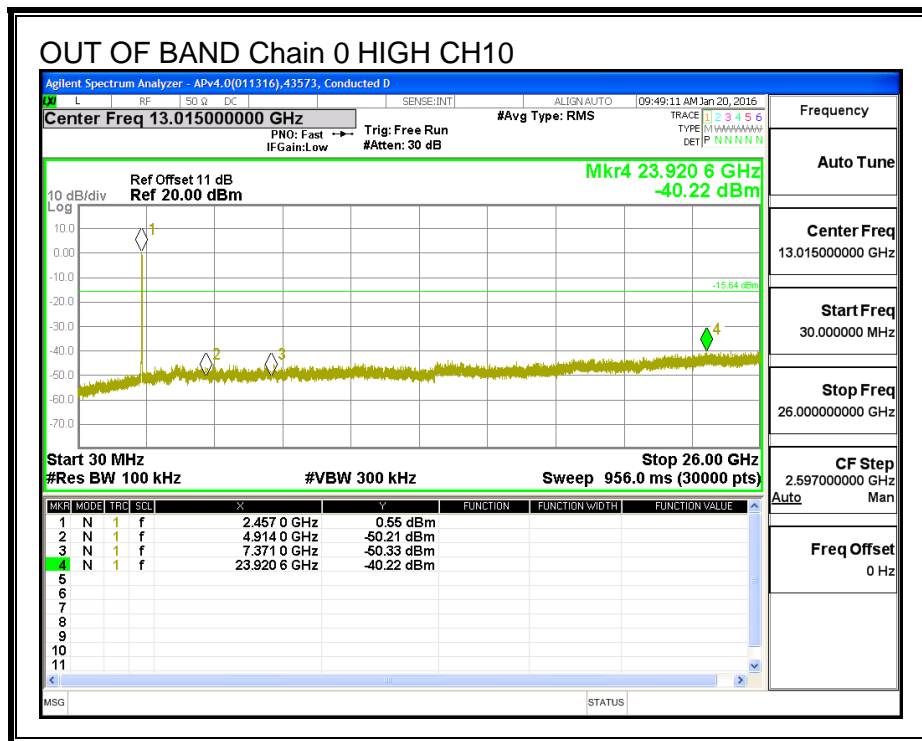


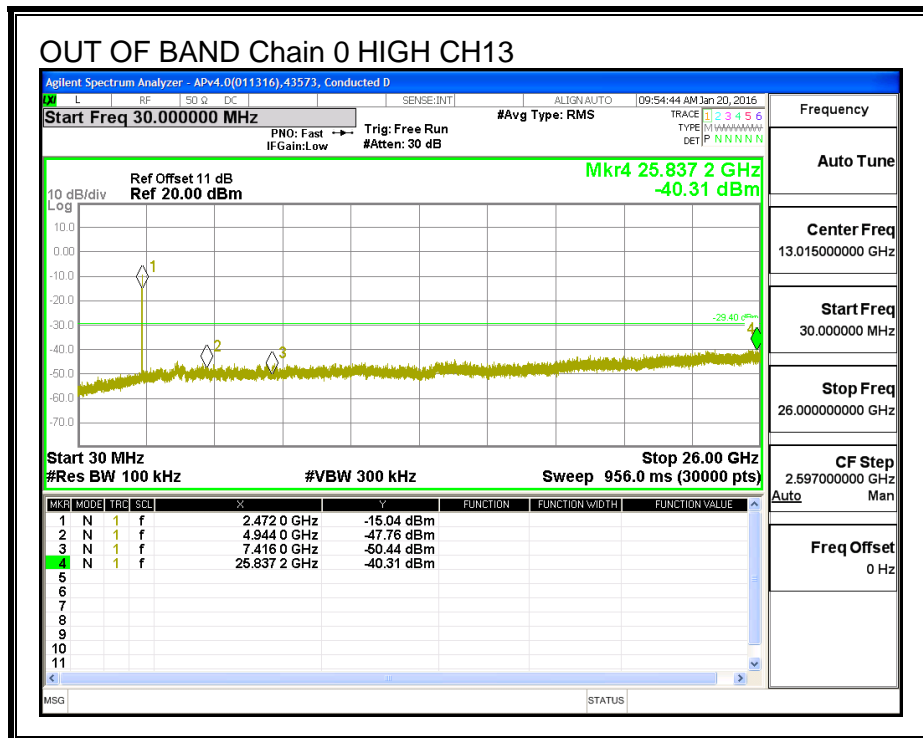
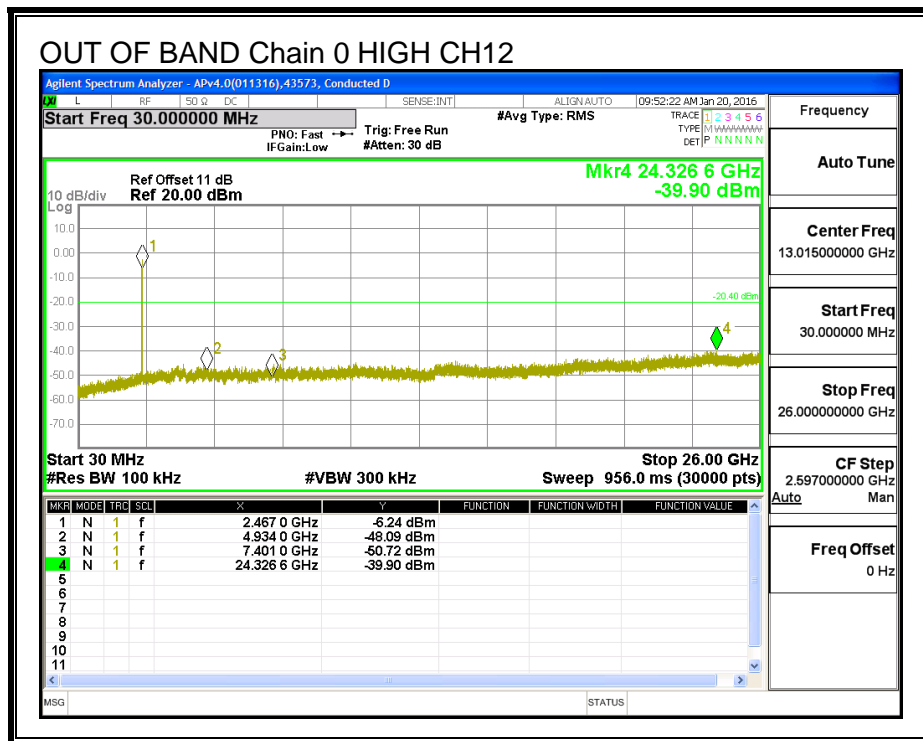


**OUT-OF-BAND EMISSIONS, Antenna B**











**8.13. 802.11g 2TX CDD MODE IN THE 2.4 GHz BAND (ANTENNA  
A+ANTENNA D)**

**Noted:** 802.11n HT20 2TX CDD MODE IN THE 2.4 GHz BAND (ANTENNA A+ANTENNA D)

## 8.14. 802.11n HT20 2TX CDD MODE IN THE 2.4 GHz BAND (ANTENNA A+ANTENNA D)

### 8.14.1. 6 dB BANDWIDTH

#### LIMITS

FCC §15.247 (a) (2)

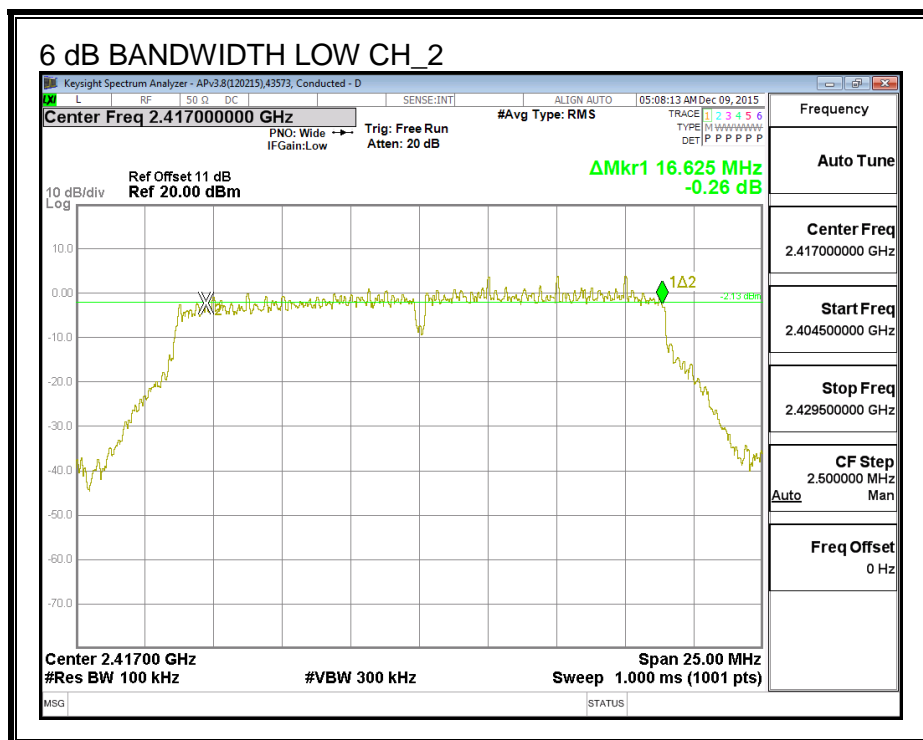
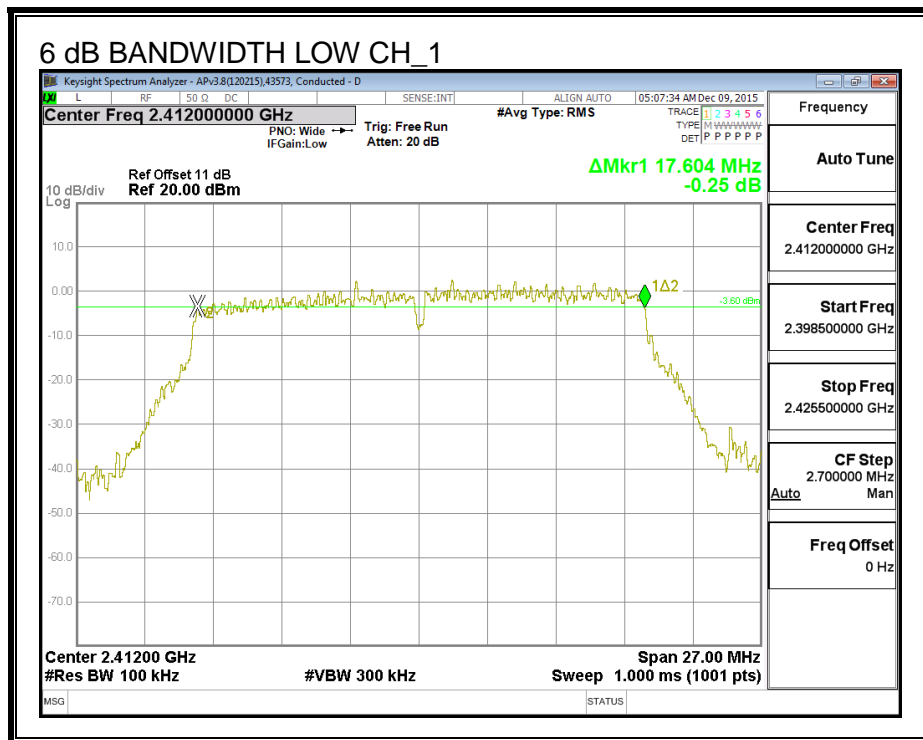
IC RSS-247 (5.2) (1)

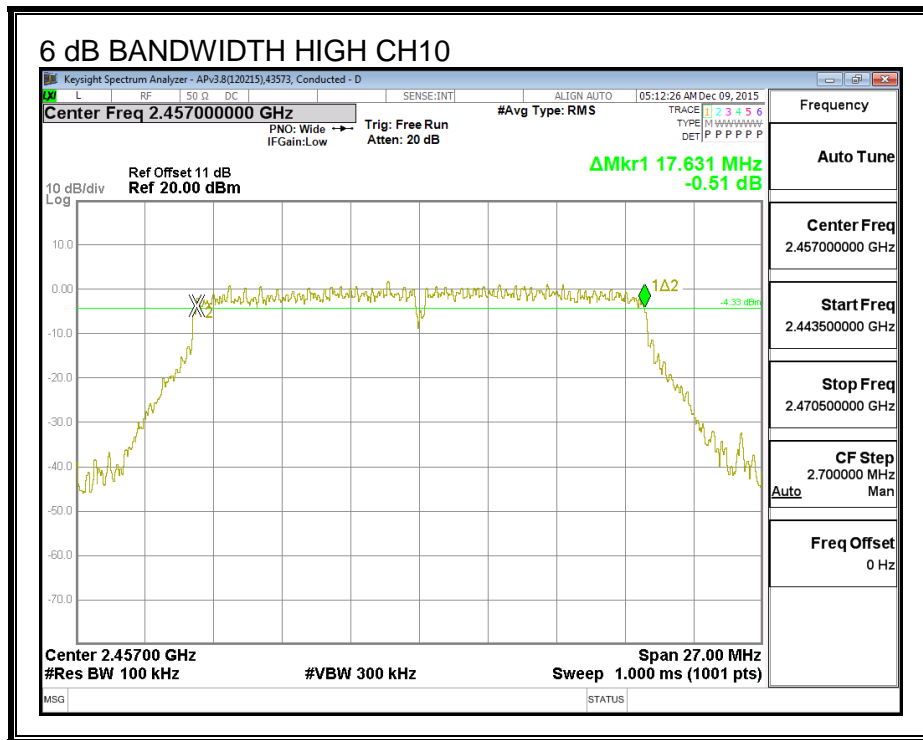
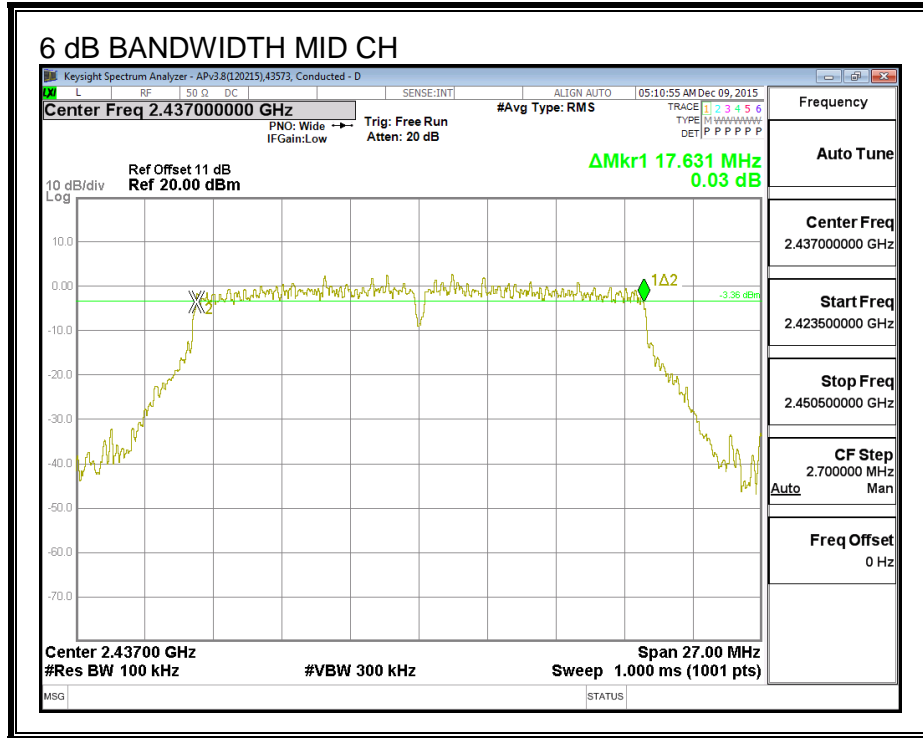
The minimum 6 dB bandwidth shall be at least 500 kHz.

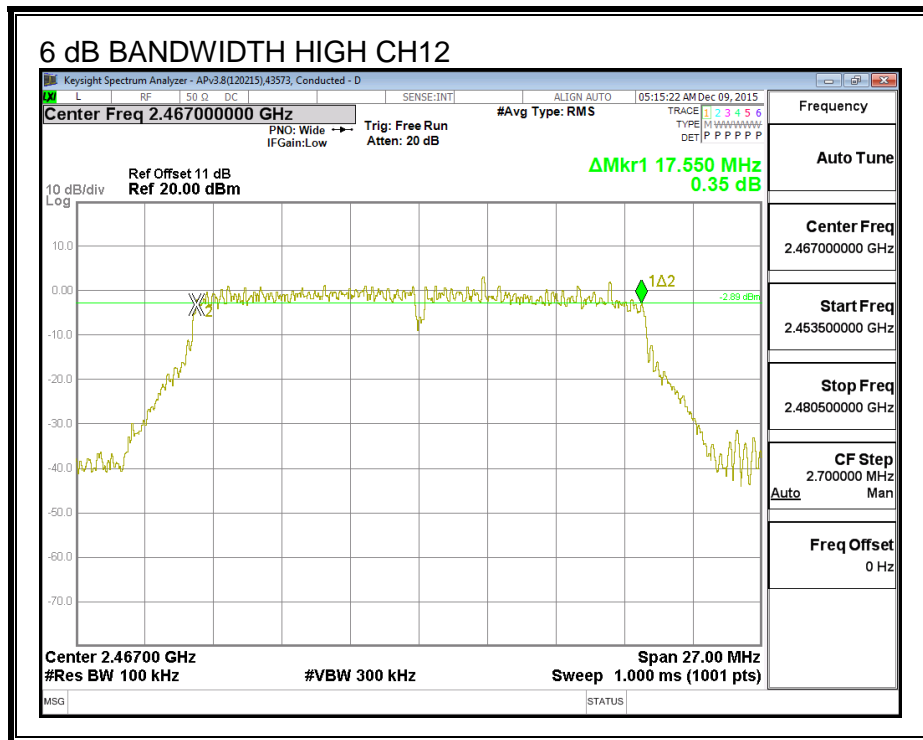
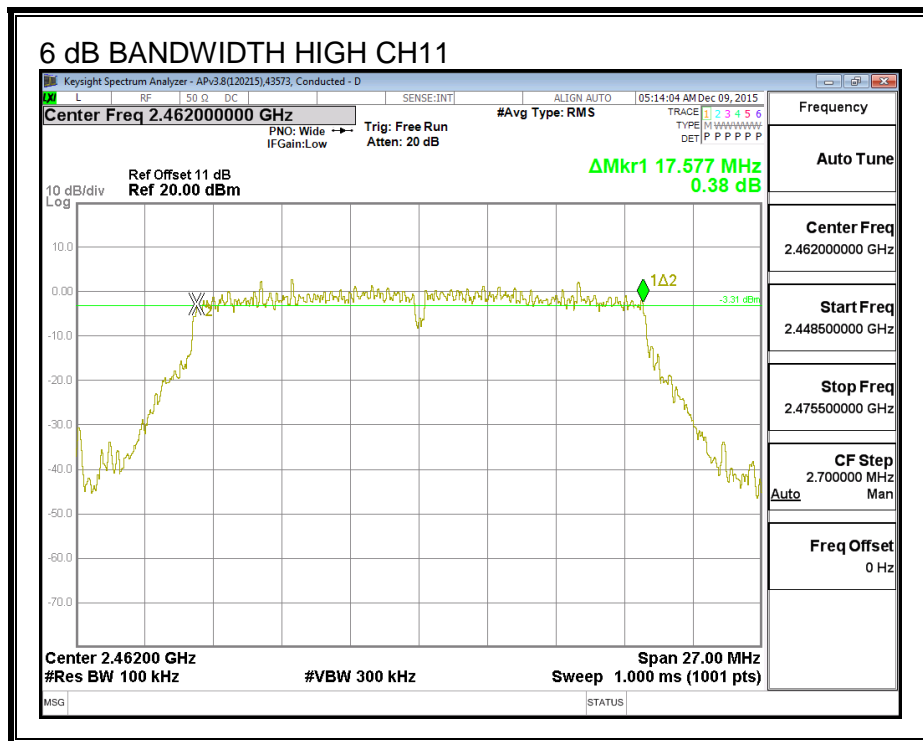
#### RESULTS

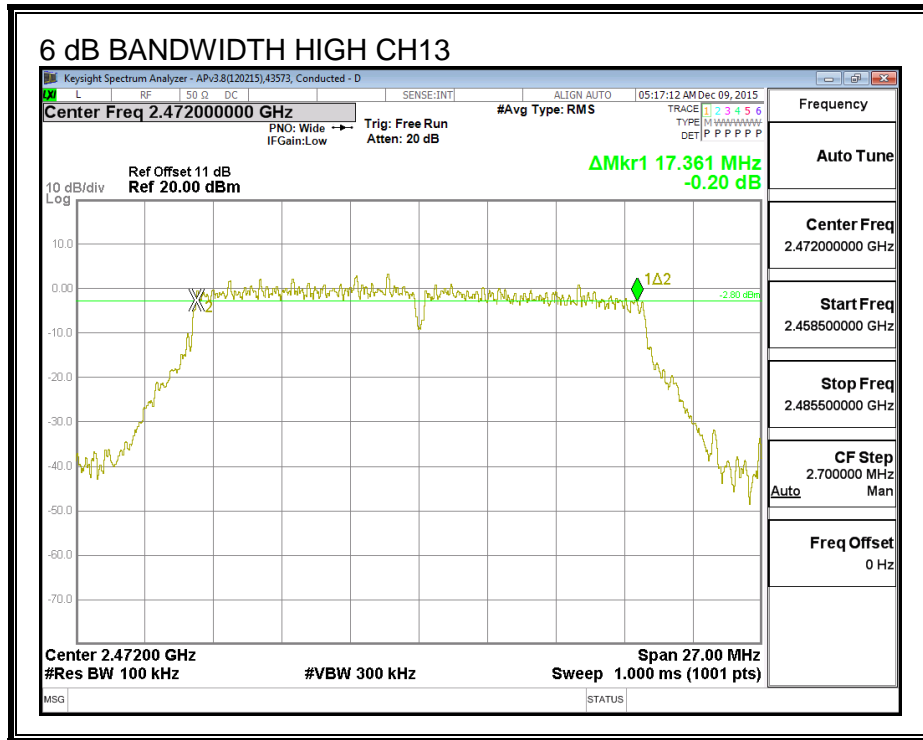
Channel	Frequency (MHz)	6 dB BW Antenna A (MHz)	6 dB BW Antenna D (MHz)	Minimum Limit (MHz)
Low_1	2412	17.60	17.33	0.5
Low_2	2417	16.63	17.32	0.5
Mid	2437	17.63	17.58	0.5
High_10	2457	17.63	17.58	0.5
High_11	2462	17.58	17.58	0.5
High_12	2467	17.55	17.55	0.5
High_13	2472	17.36	17.33	0.5

**6 dB BANDWIDTH, ANTENNA A**

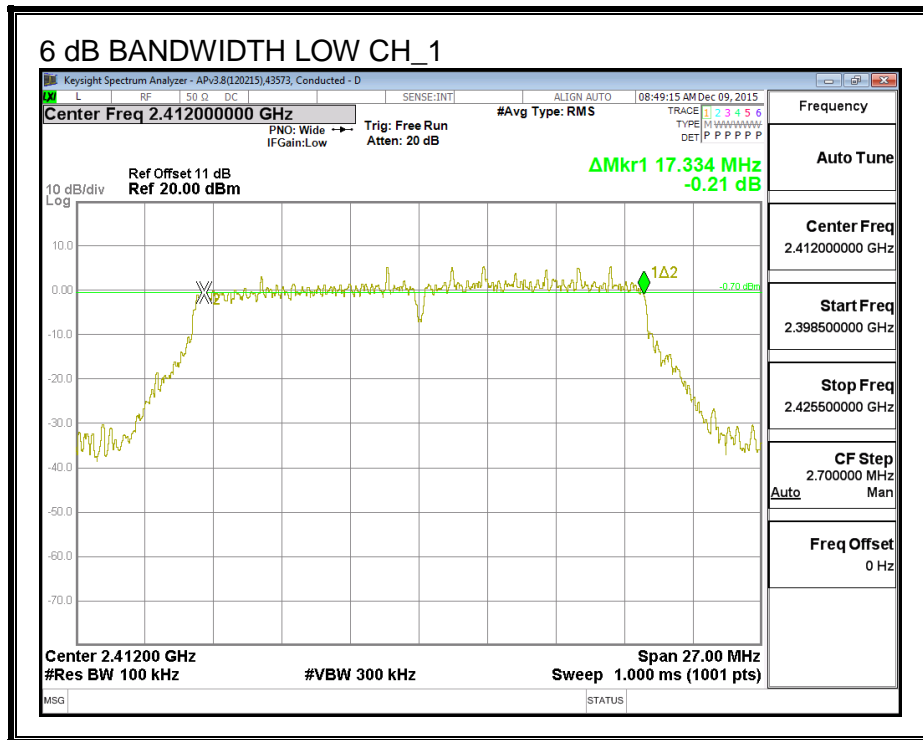


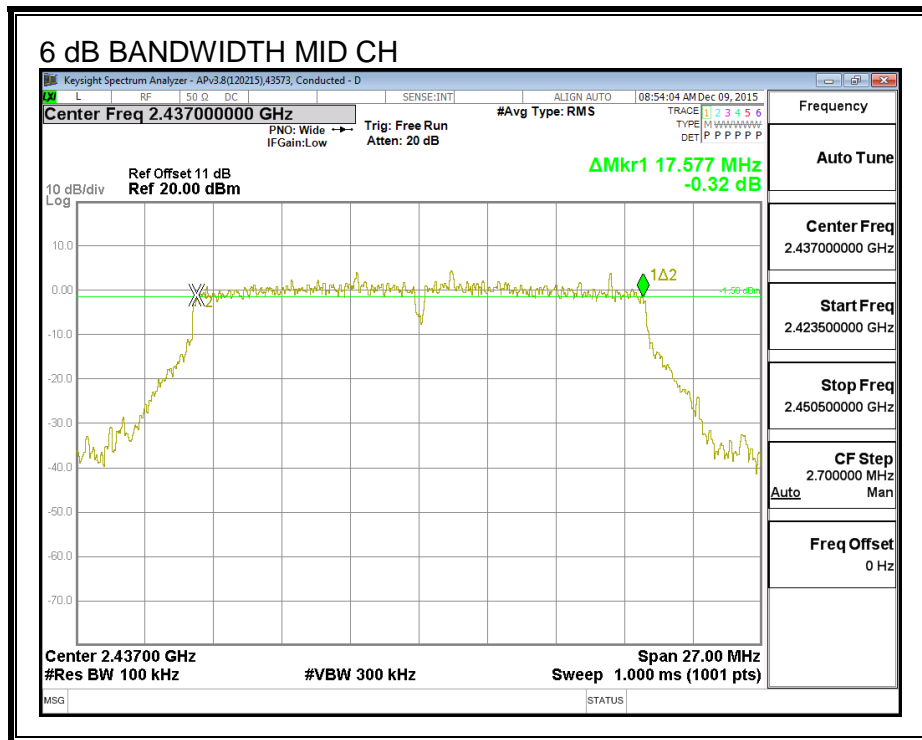
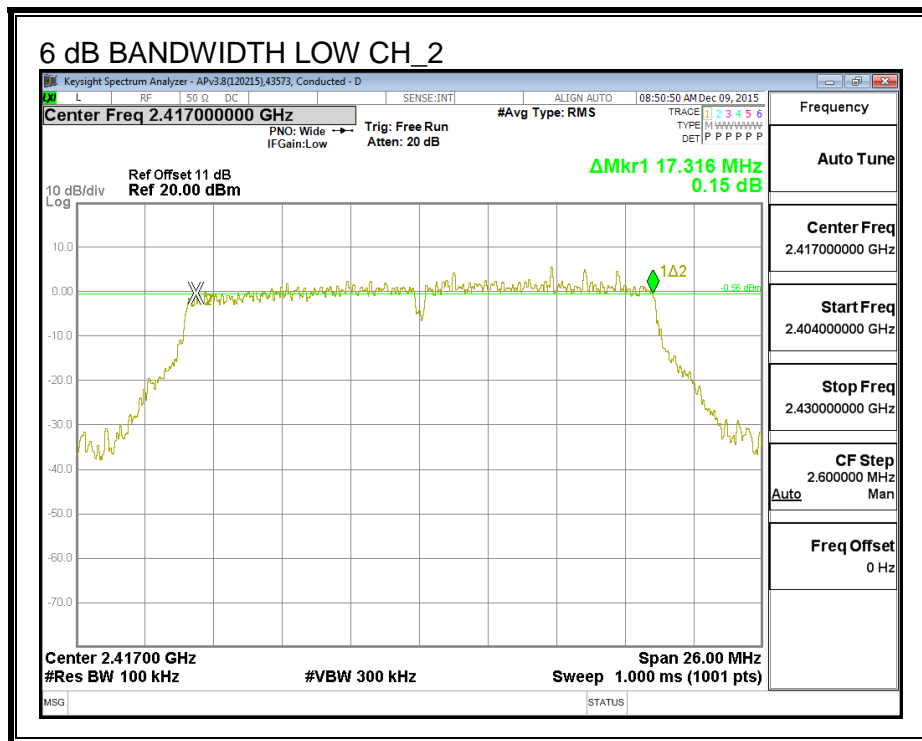


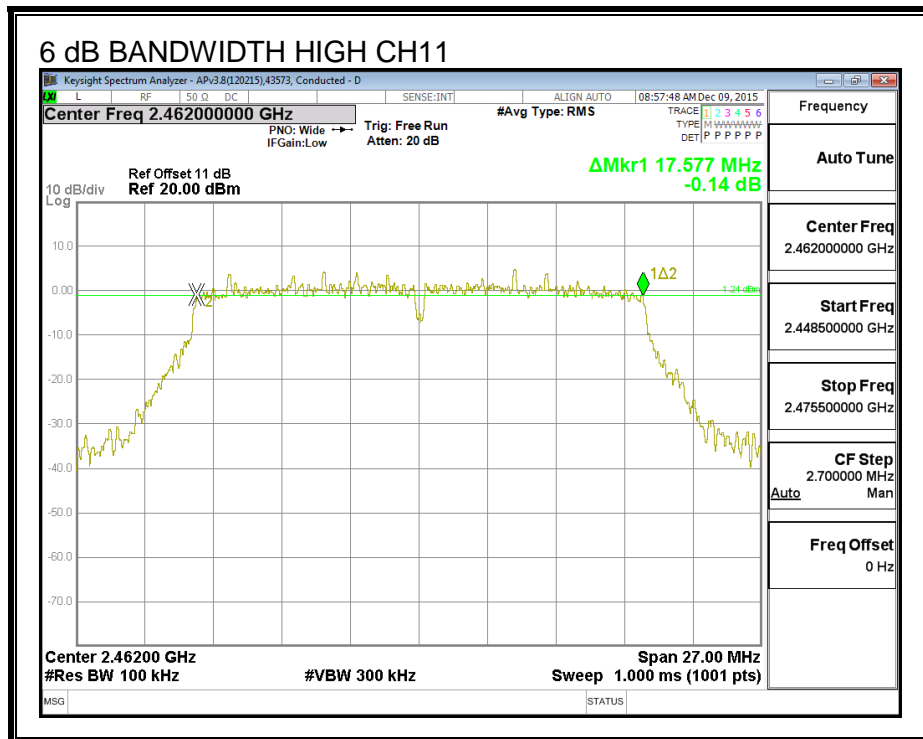
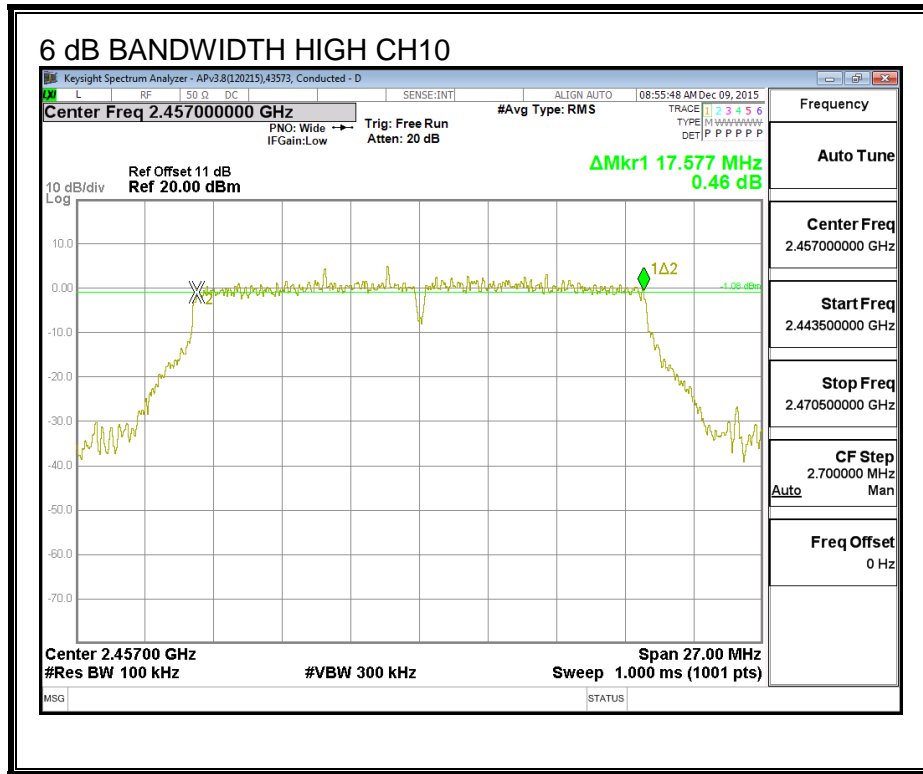




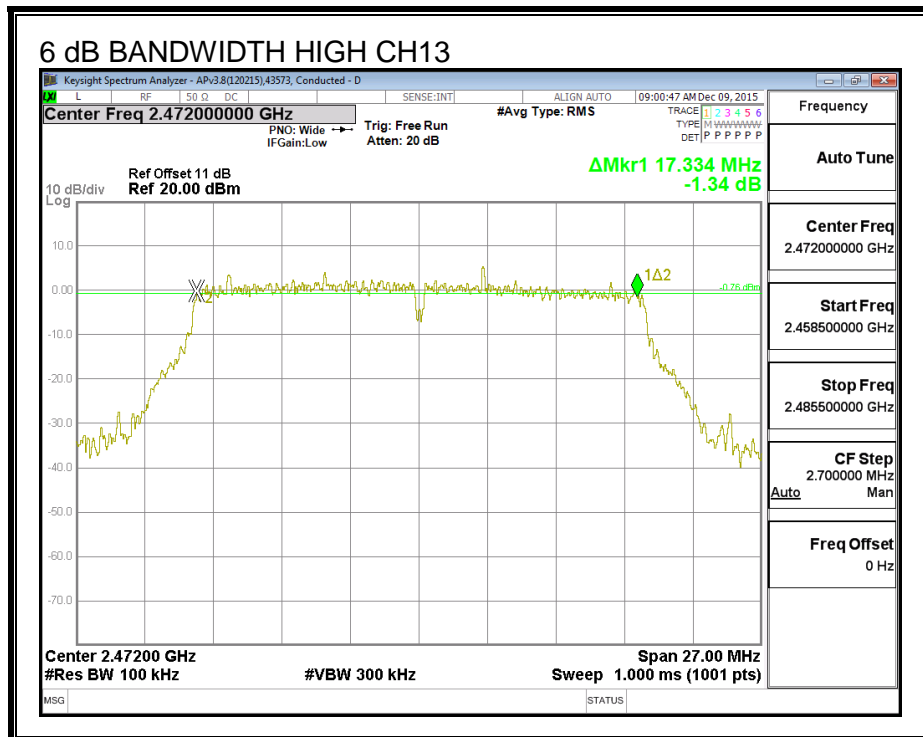
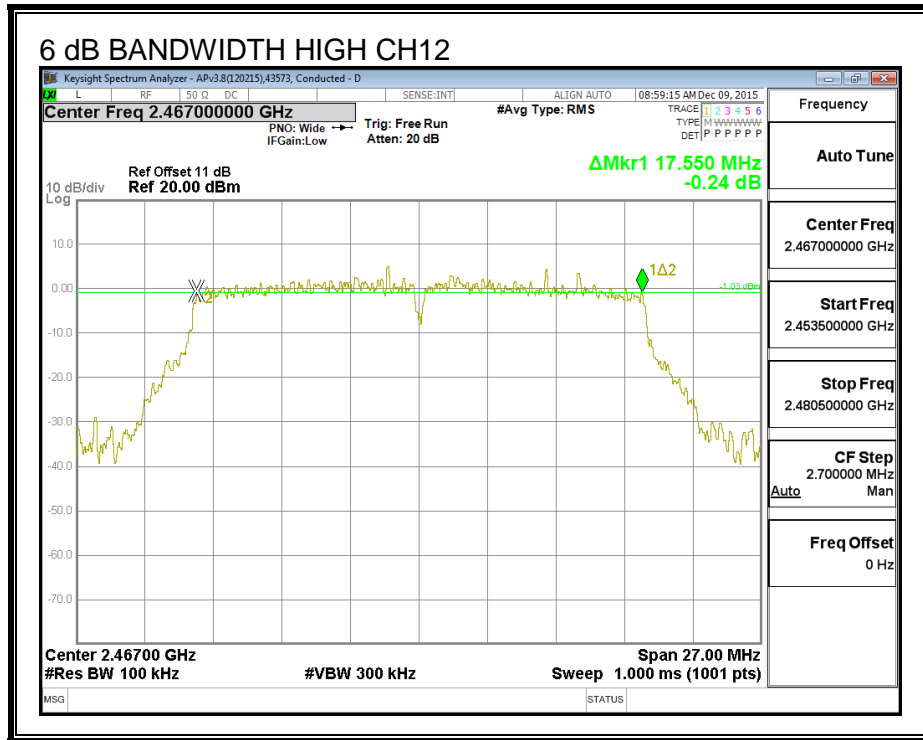
### 6 dB BANDWIDTH, ANTENNA D











### 8.14.2. 99% BANDWIDTH

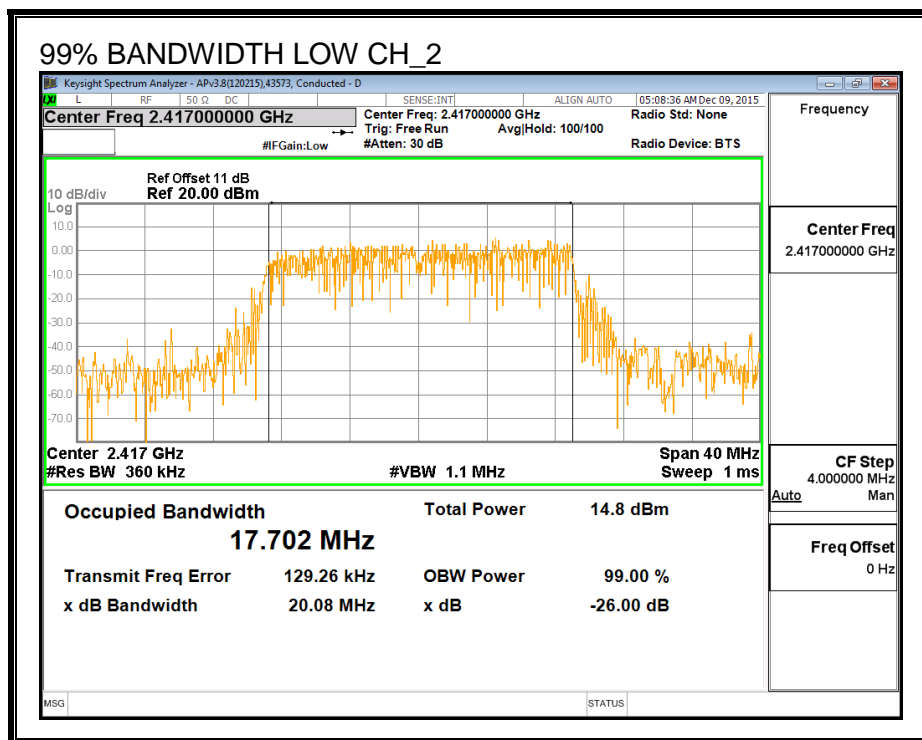
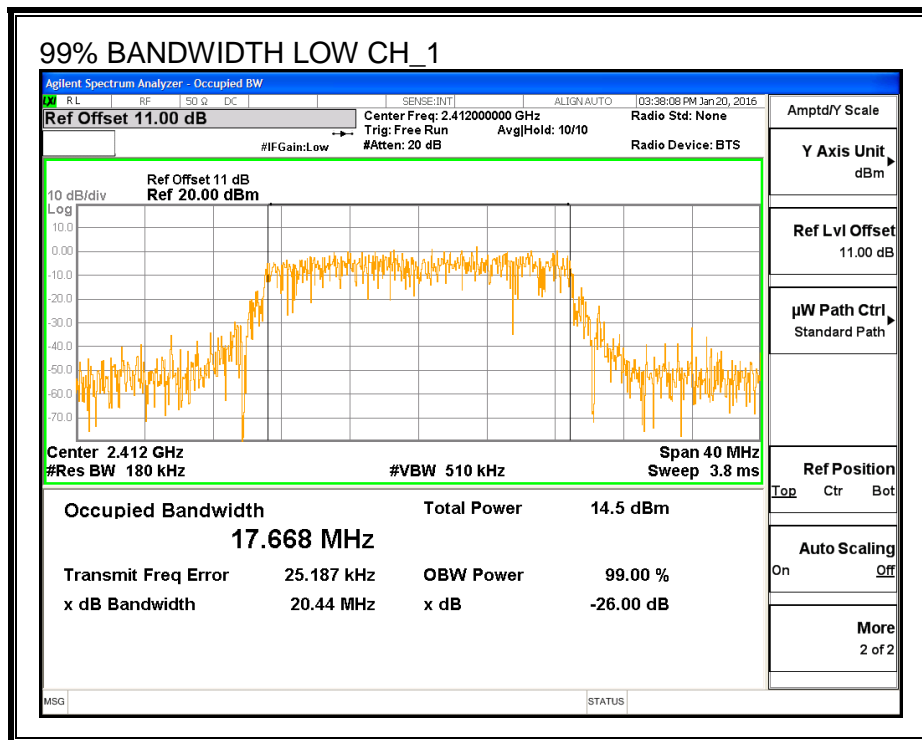
#### LIMITS

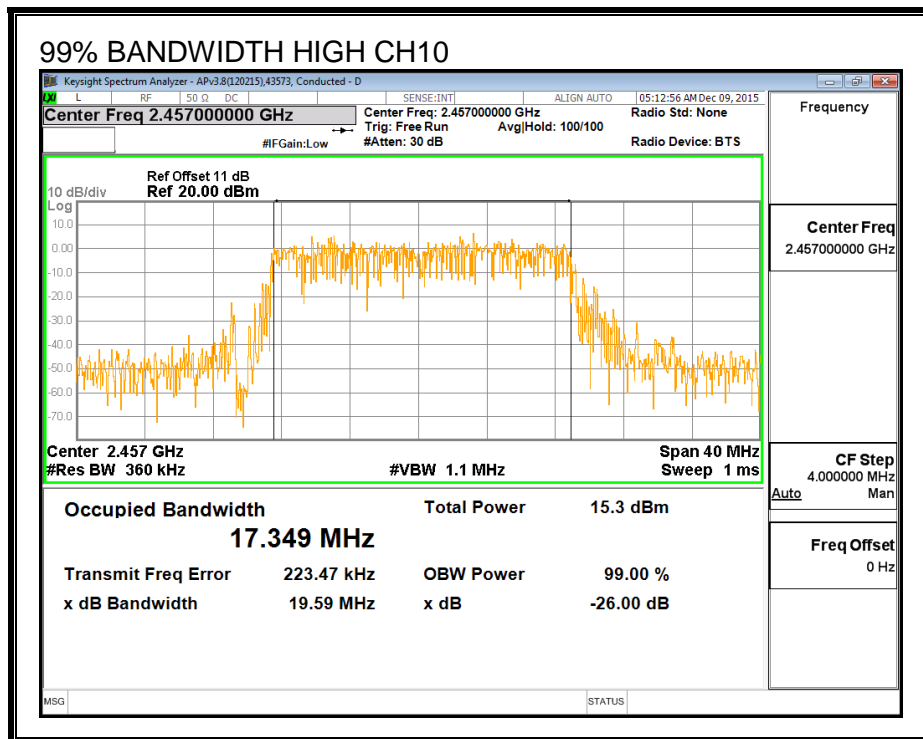
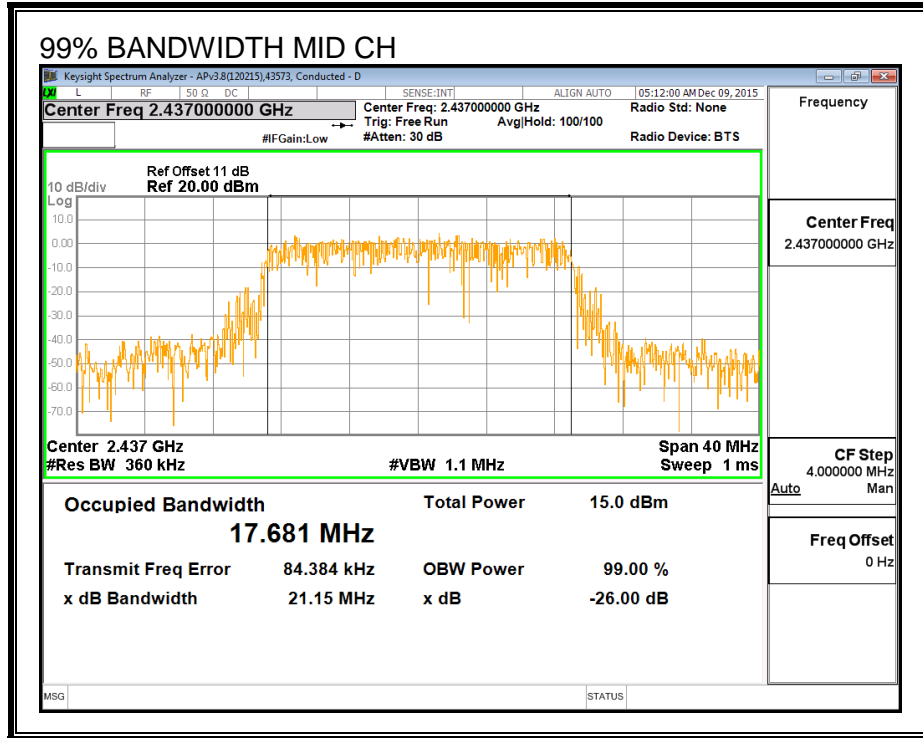
None; for reporting purposes only.

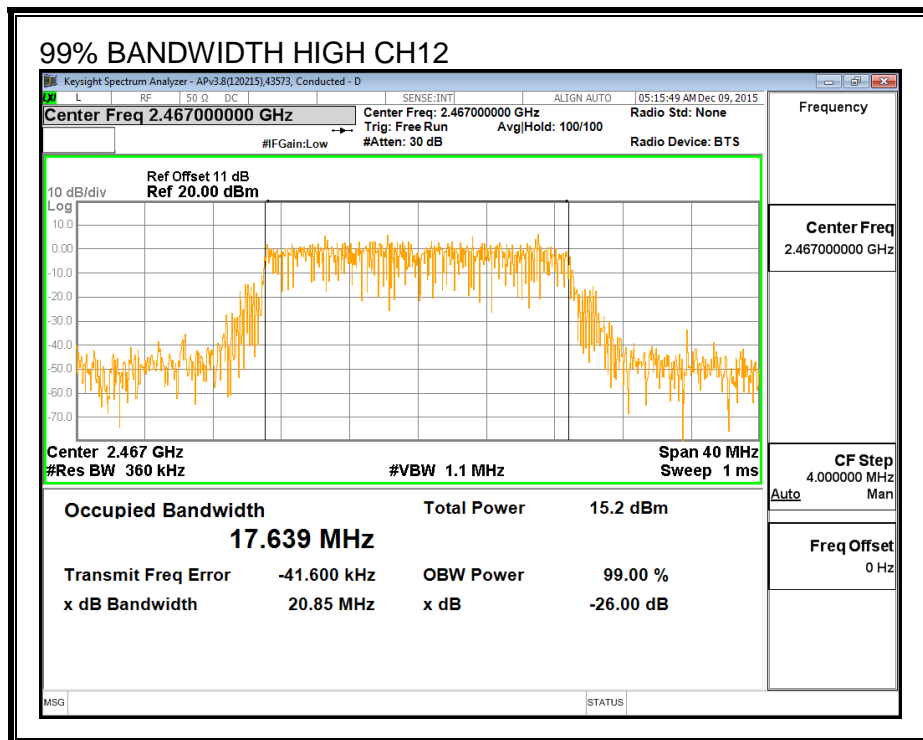
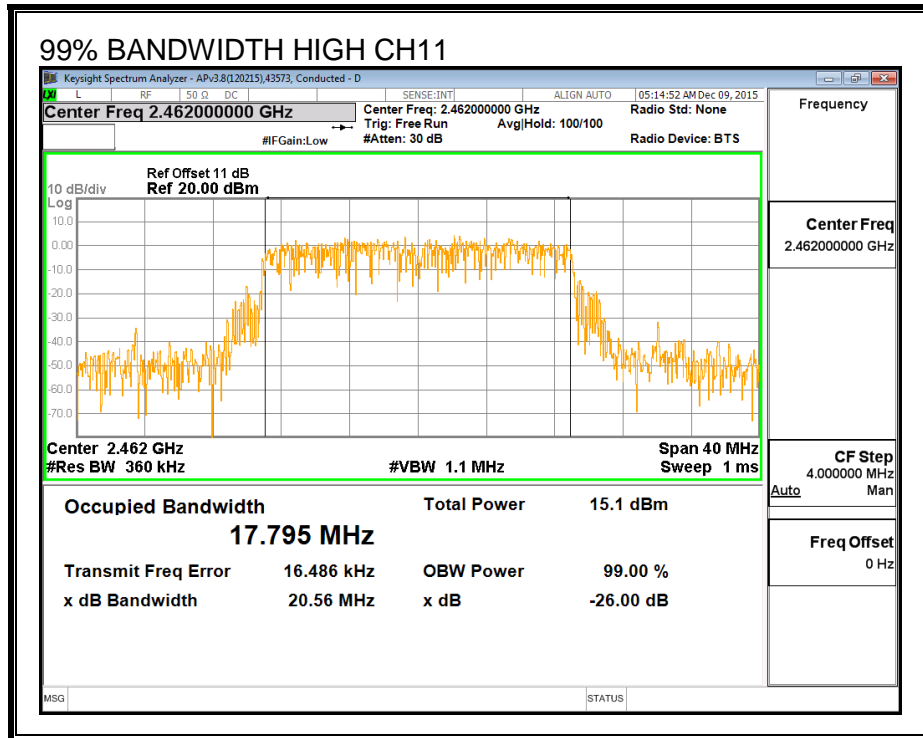
#### RESULTS

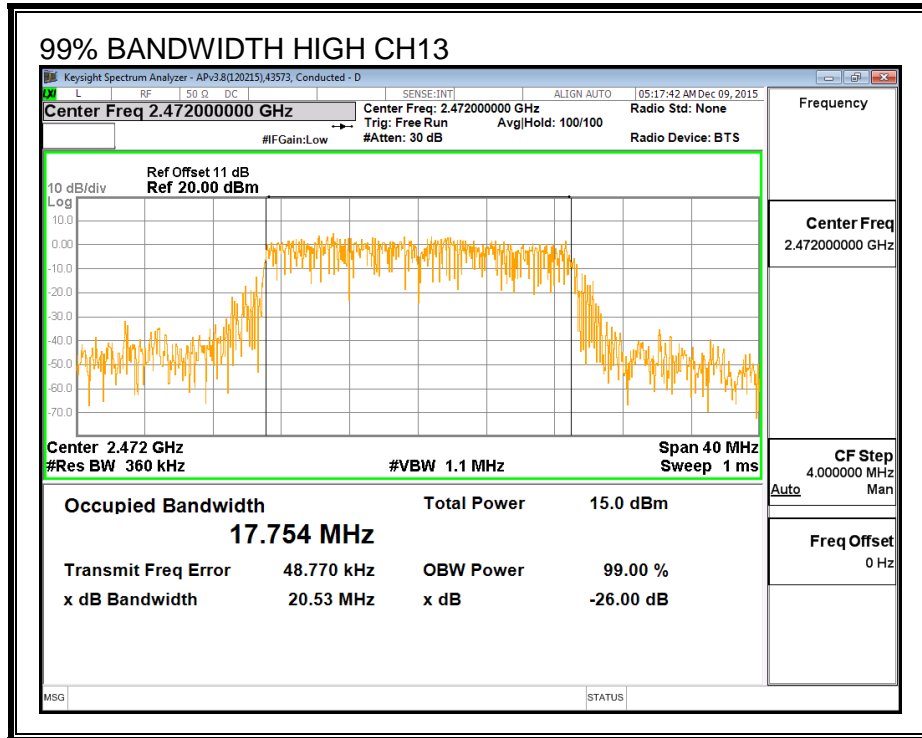
Channel	Frequency (MHz)	99% BW Antenna A (MHz)	99% BW Antenna D (MHz)
Low_1	2412	17.668	16.488
Low_2	2417	17.702	17.784
Mid	2437	17.681	17.742
High_10	2457	17.349	17.683
High_11	2462	17.795	17.751
High_12	2467	17.639	17.689
High_13	2472	17.754	17.630

**99% BANDWIDTH, ANTENNA A**

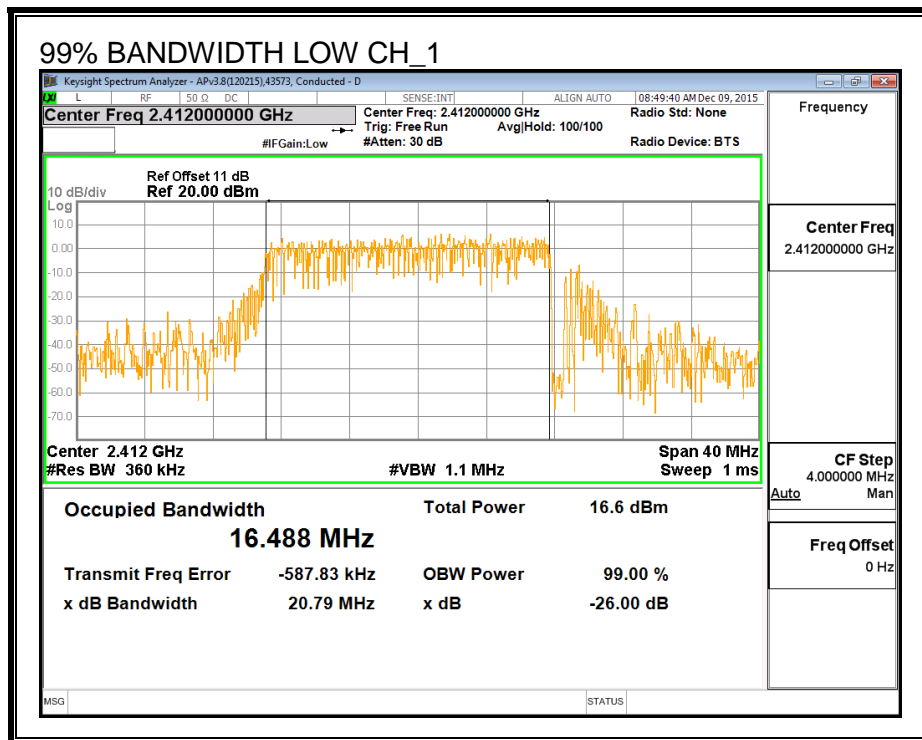


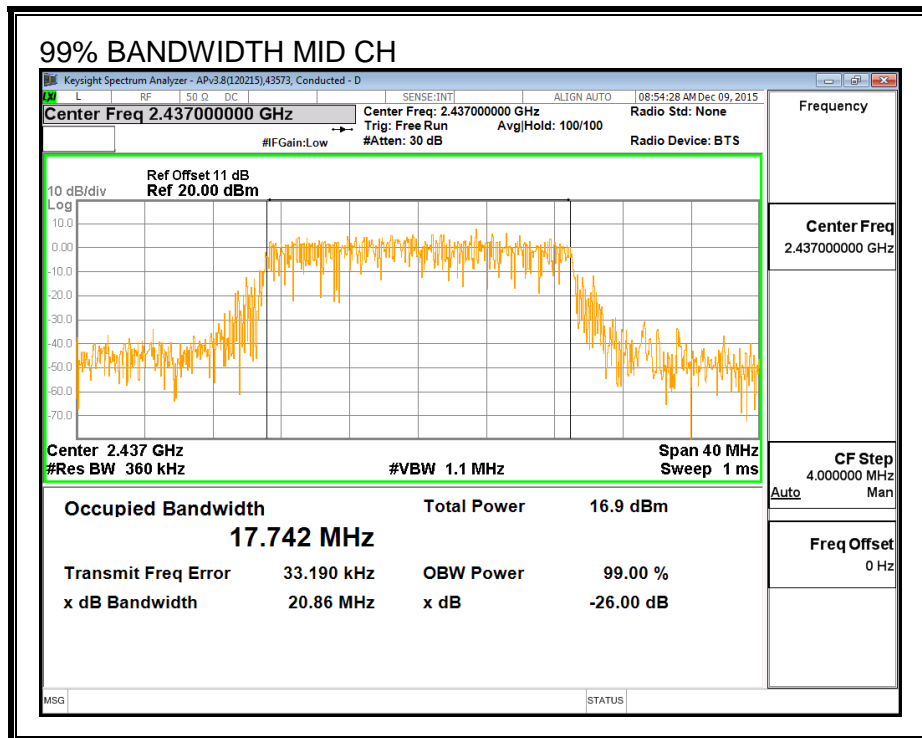
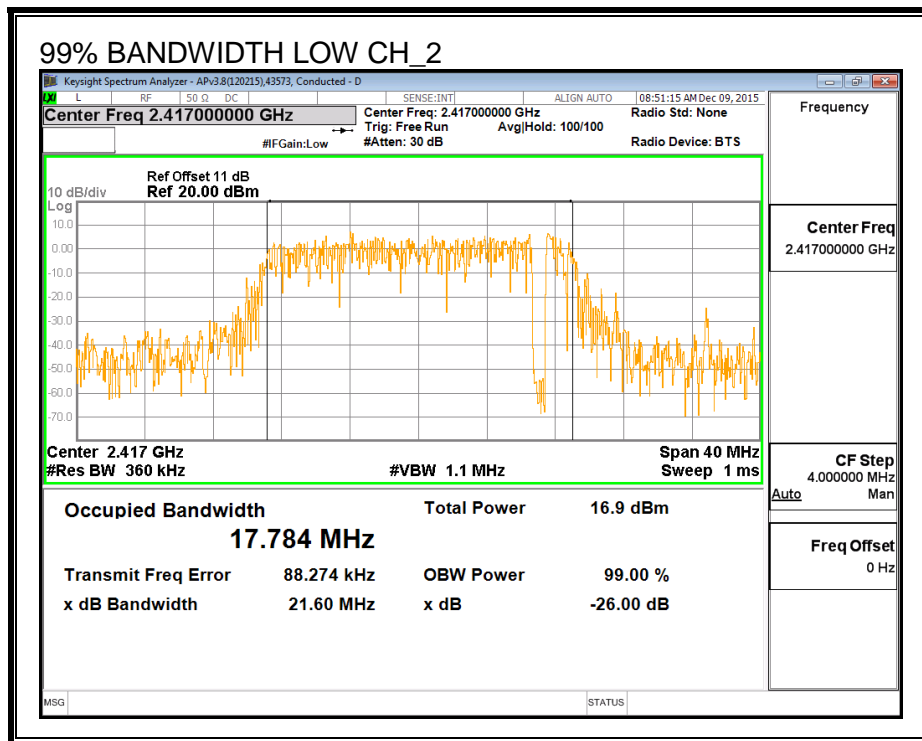


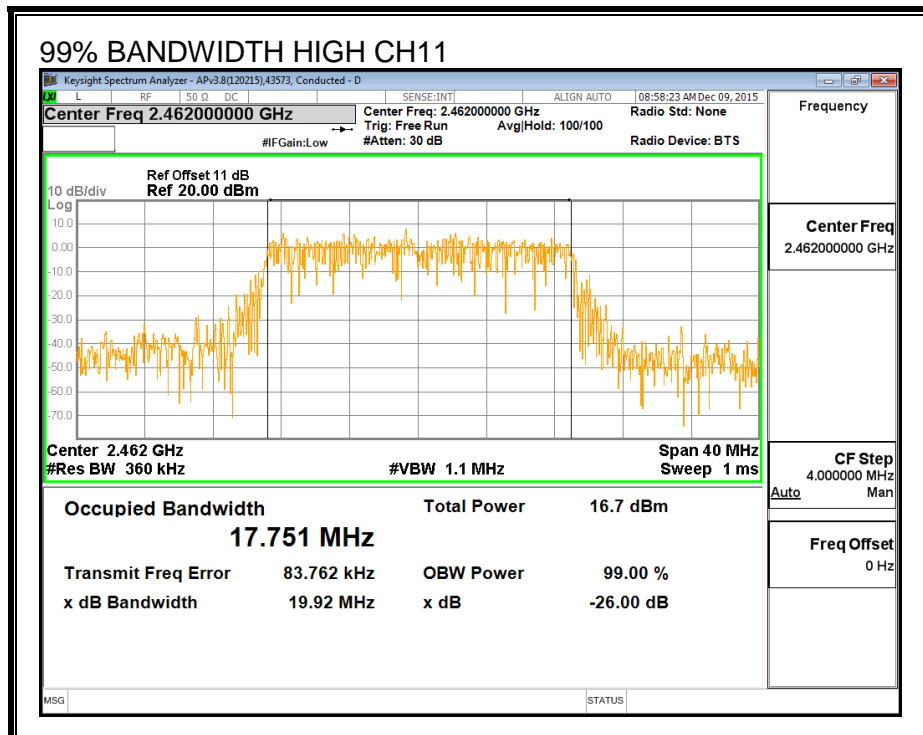
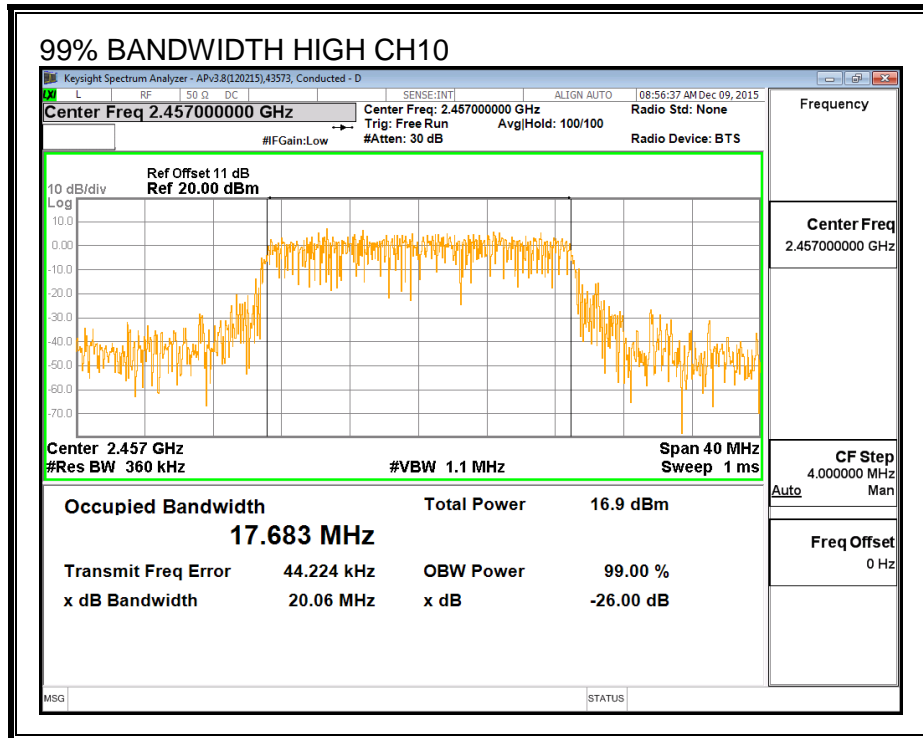




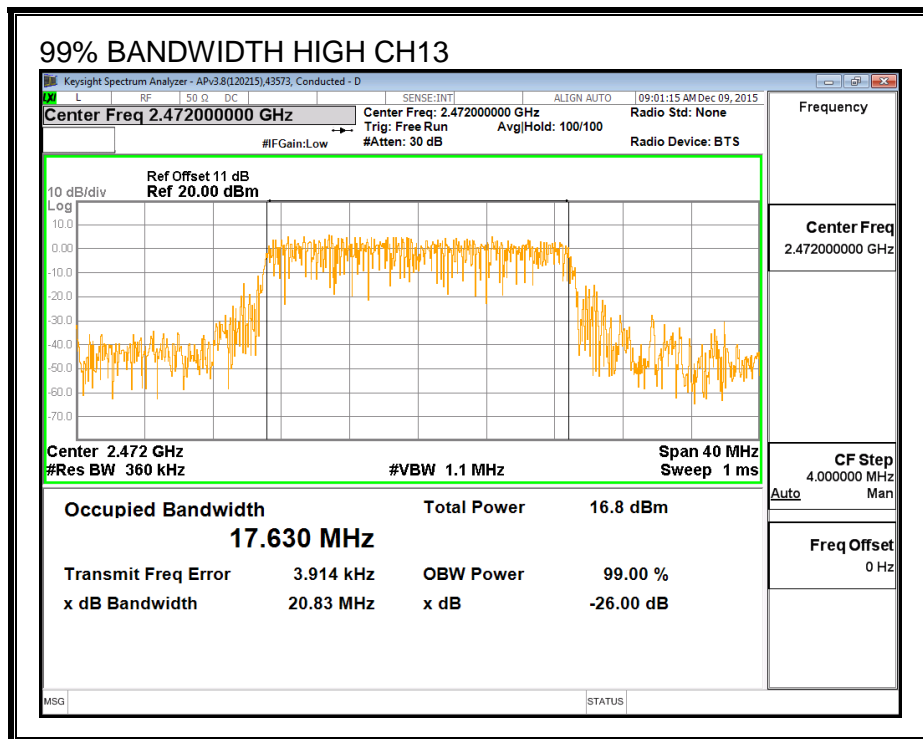
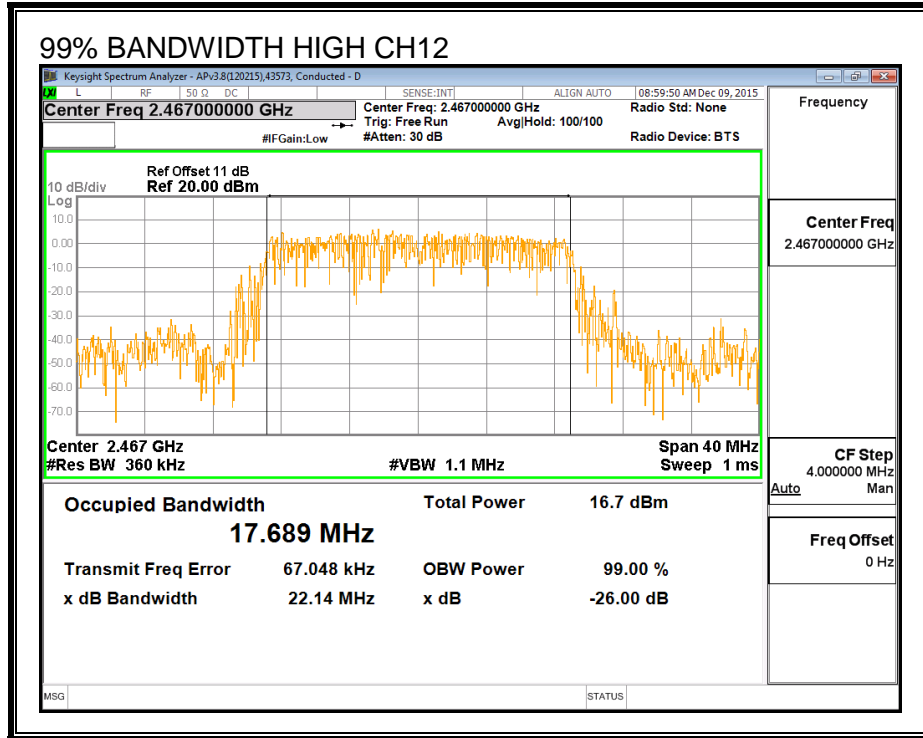
**99% BANDWIDTH, ANTENNA D**











### 8.14.3. AVERAGE POWER

#### LIMITS

None; for reporting purposes only.

#### RESULTS

Channel	Frequency (MHz)	Antenna A Power (dBm)	Antenna D Power (dBm)	Total Power (dBm)
Low_1	2412	13.96	10.92	15.71
Low_2	2417	16.47	10.93	17.54
Mid	2437	16.45	10.93	17.52
High_10	2457	16.37	10.91	17.46
High_11	2462	12.94	10.97	15.08
High_12	2467	10.92	10.88	13.91
High_13	2472	1.88	1.95	4.93

### 8.14.4. OUTPUT POWER

#### LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

<b>Antenna A Antenna Gain (dBi)</b>	<b>Antenna D Antenna Gain (dBi)</b>	<b>Uncorrelated Chains Directional Gain (dBi)</b>
-0.18	0.96	0.43

**RESULTS**

**Limits**

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low_1	2412	0.43	30.00	30	36	30.00
Low_2	2417	0.43	30.00	30	36	30.00
Mid	2437	0.43	30.00	30	36	30.00
High_10	2457	0.43	30.00	30	36	30.00
High_11	2462	0.43	30.00	30	36	30.00
High_12	2467	0.43	30.00	30	36	30.00
High_13	2472	0.43	30.00	30	36	30.00

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power</b>
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**Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna D Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low_1	2412	22.23	19.53	24.10	30.00	-5.90
Low_2	2417	24.49	19.55	25.70	30.00	-4.30
Mid	2437	24.48	19.54	25.69	30.00	-4.31
High_10	2457	24.43	19.50	25.64	30.00	-4.36
High_11	2462	21.62	19.59	23.73	30.00	-6.27
High_12	2467	19.79	19.49	22.65	30.00	-7.35
High_13	2472	10.87	11.02	13.96	30.00	-16.04

### 8.14.5. POWER SPECTRAL DENSITY

#### LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

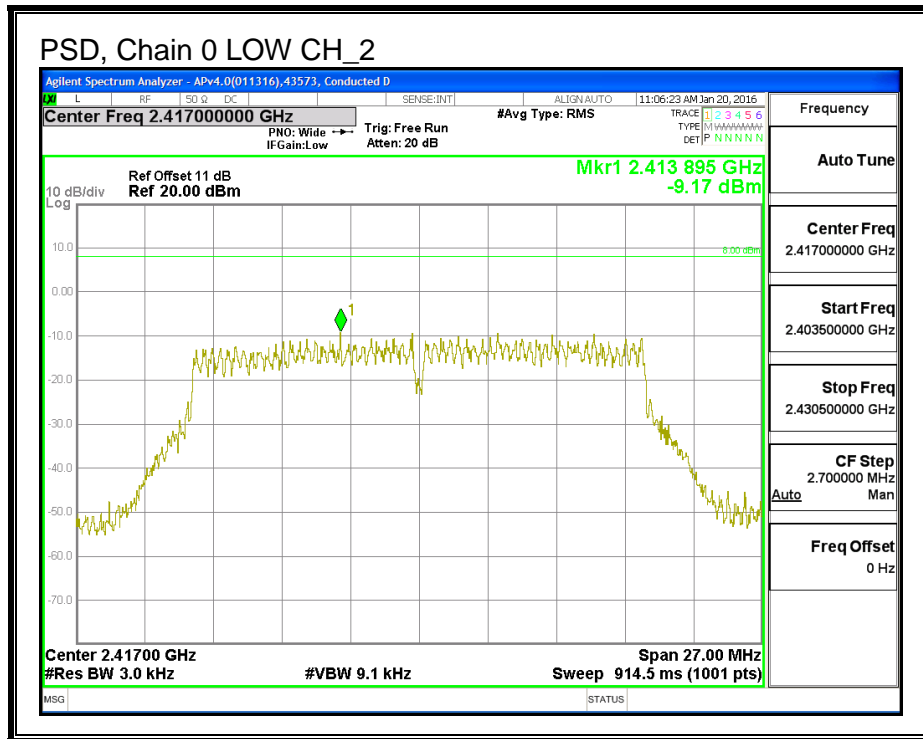
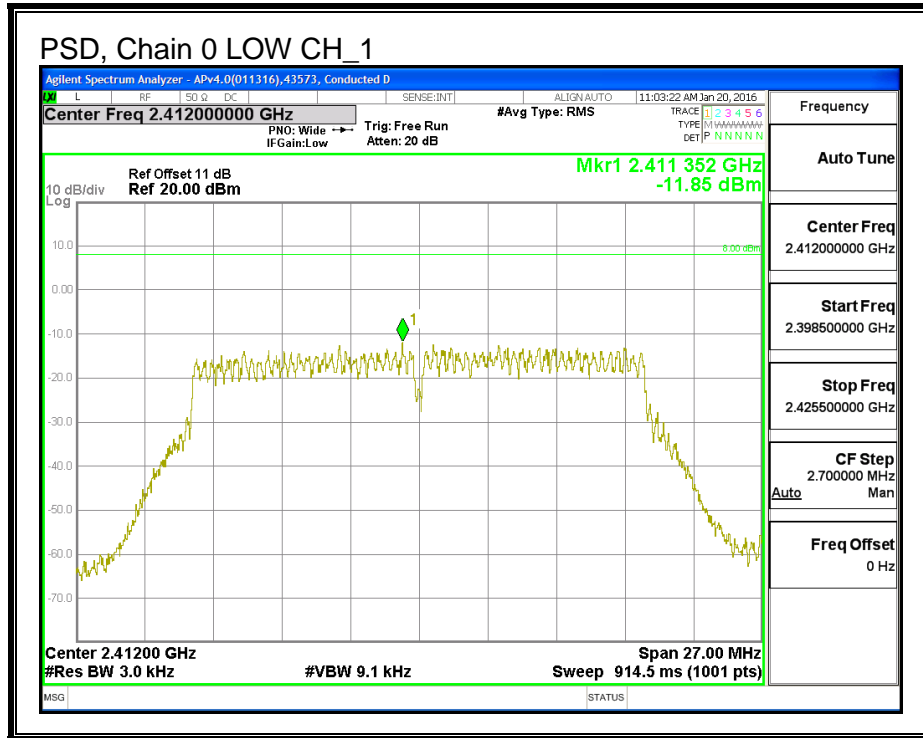
#### RESULTS

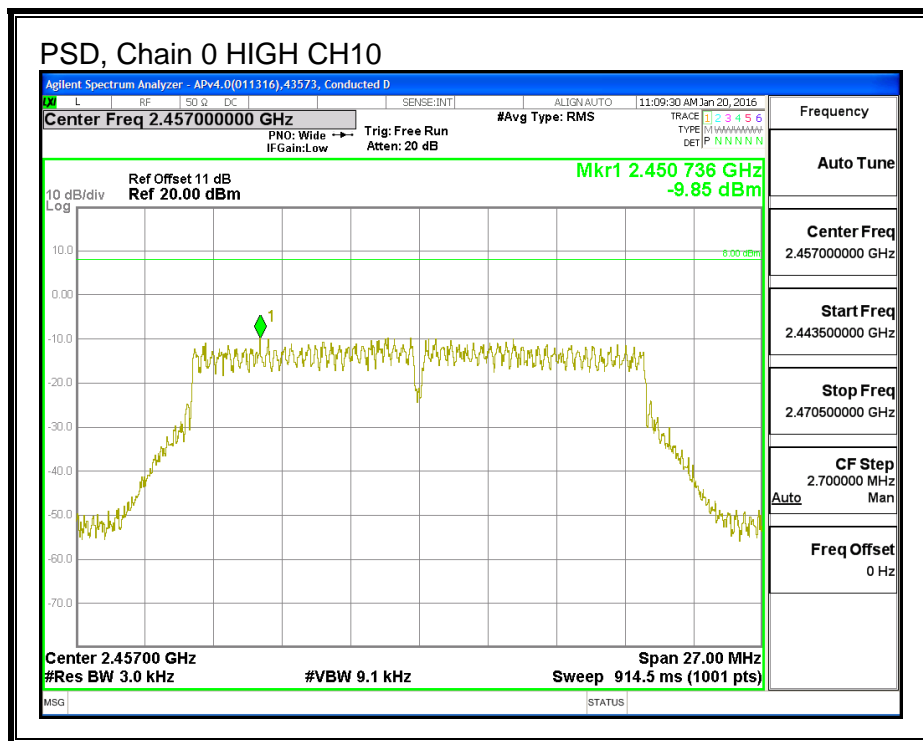
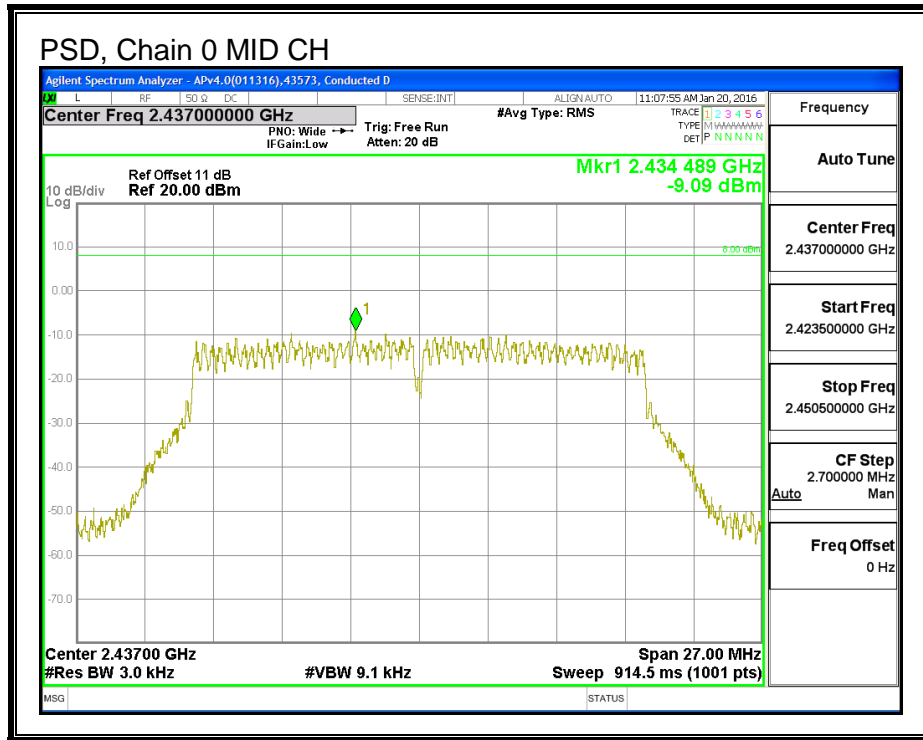
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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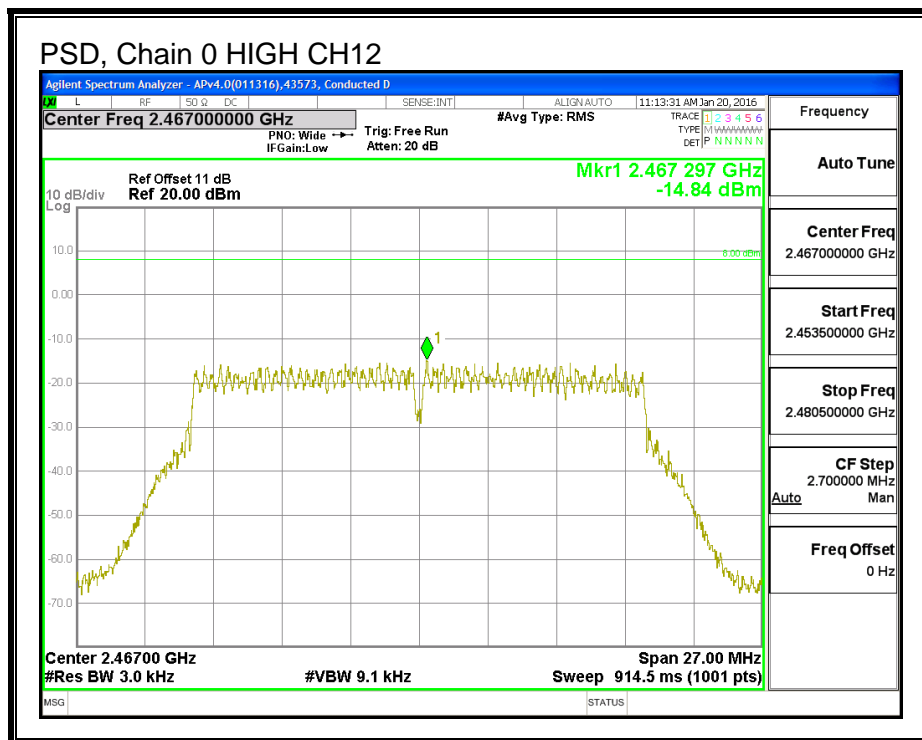
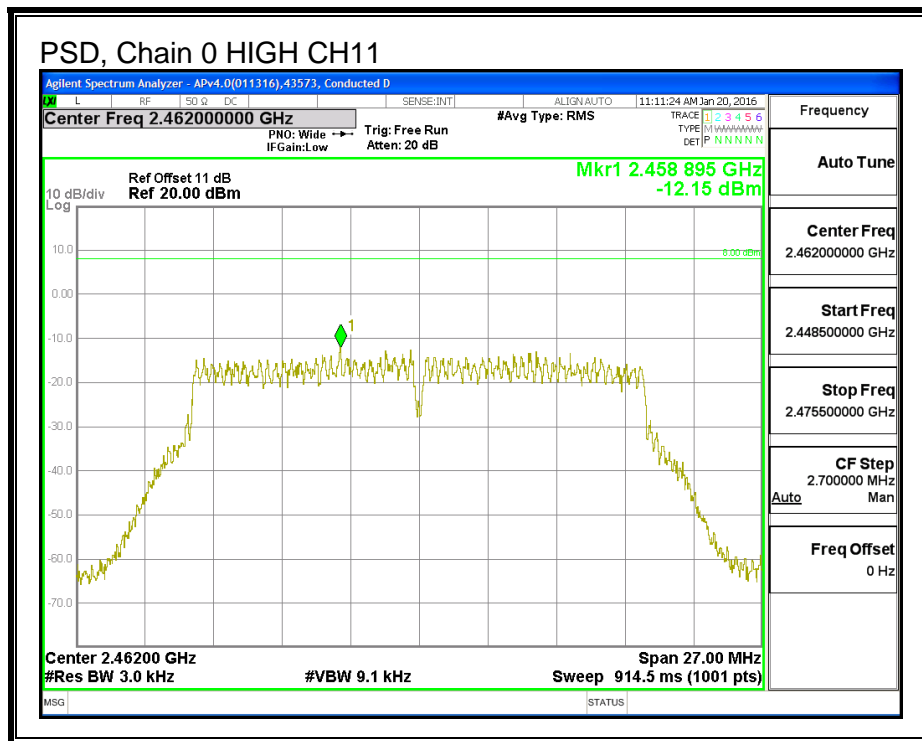
#### PSD Results

Channel	Frequency (MHz)	Antenna A Meas (dBm)	Antenna D Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-11.85	-14.64	-10.01	8.0	-18.0
Low_2	2417	-9.17	-14.59	-8.07	8.0	-16.1
Mid	2437	-9.09	-14.27	-7.94	8.0	-15.9
High_10	2457	-9.85	-14.21	-8.49	8.0	-16.5
High_11	2462	-12.15	-14.69	-10.23	8.0	-18.2
High_12	2467	-14.84	-14.55	-11.68	8.0	-19.7
High_13	2472	-23.76	-22.14	-19.86	8.0	-27.9

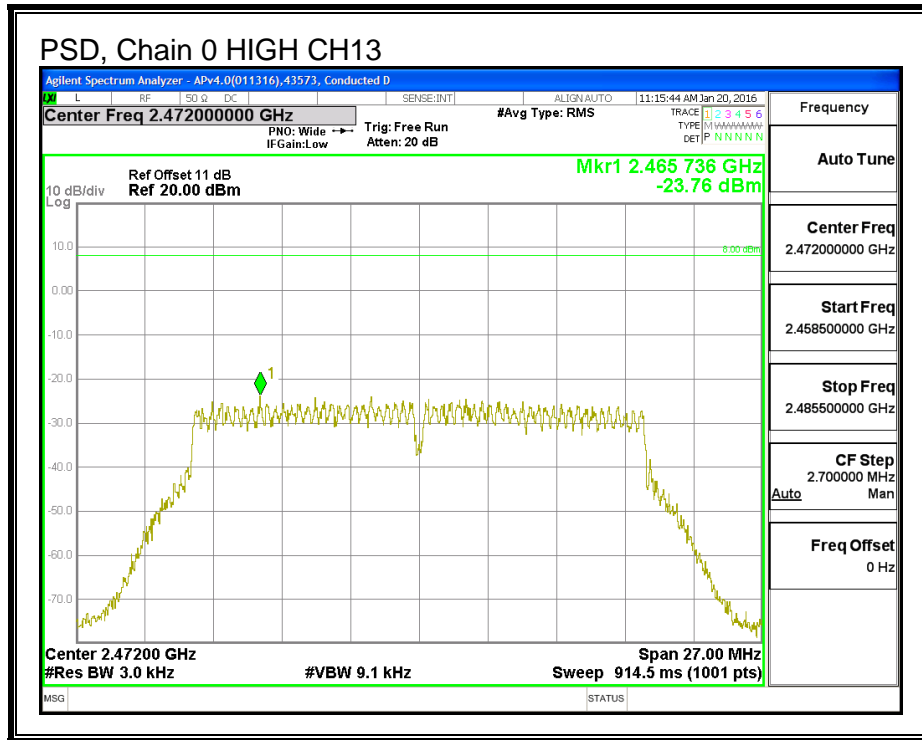
**PSD, Antenna A**



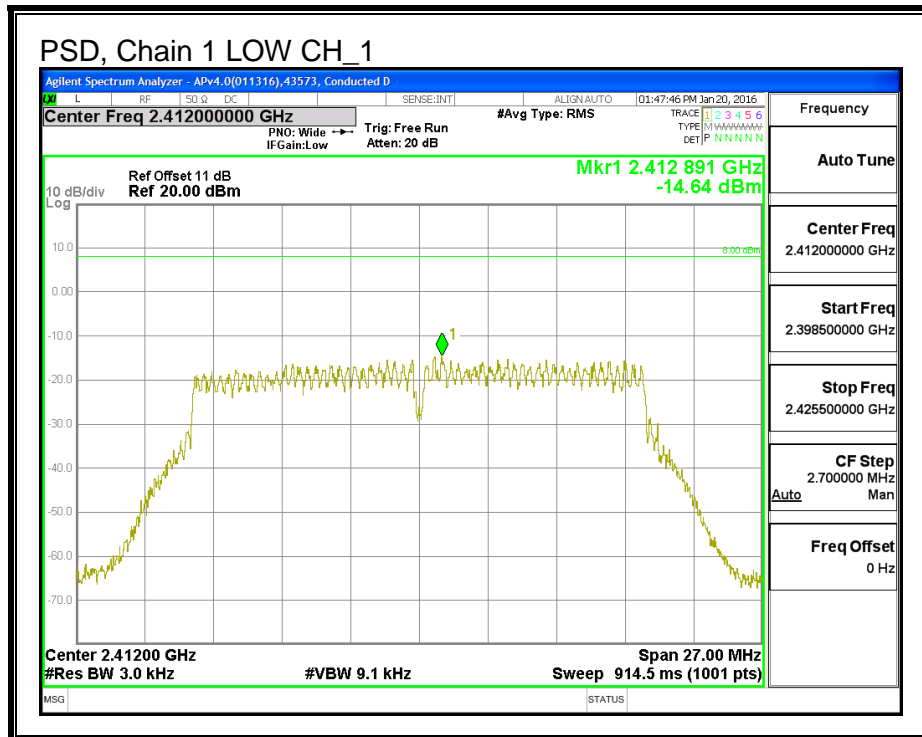


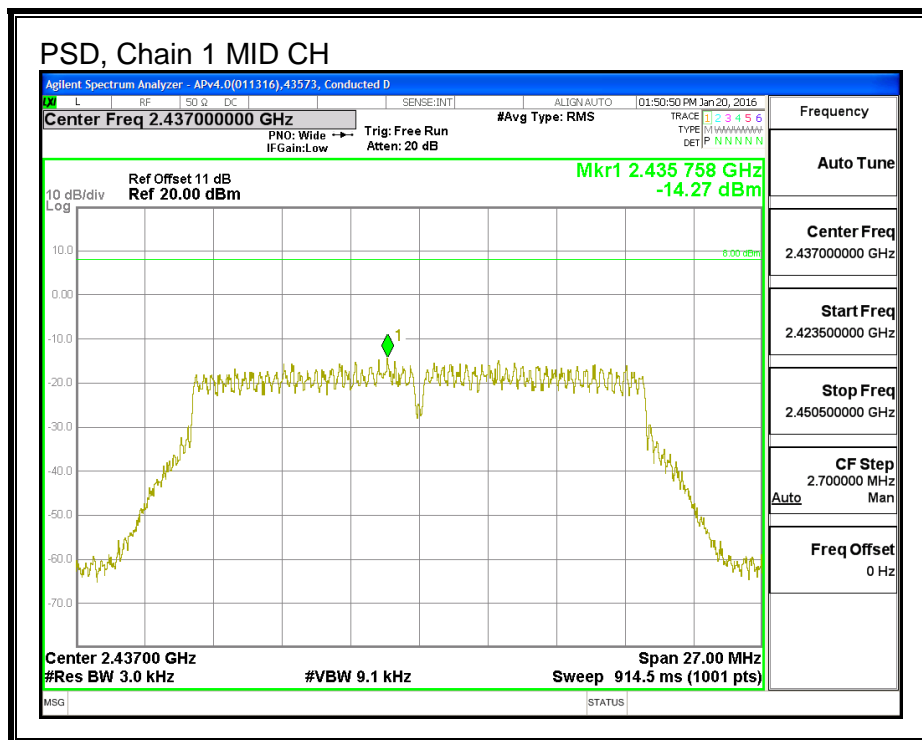
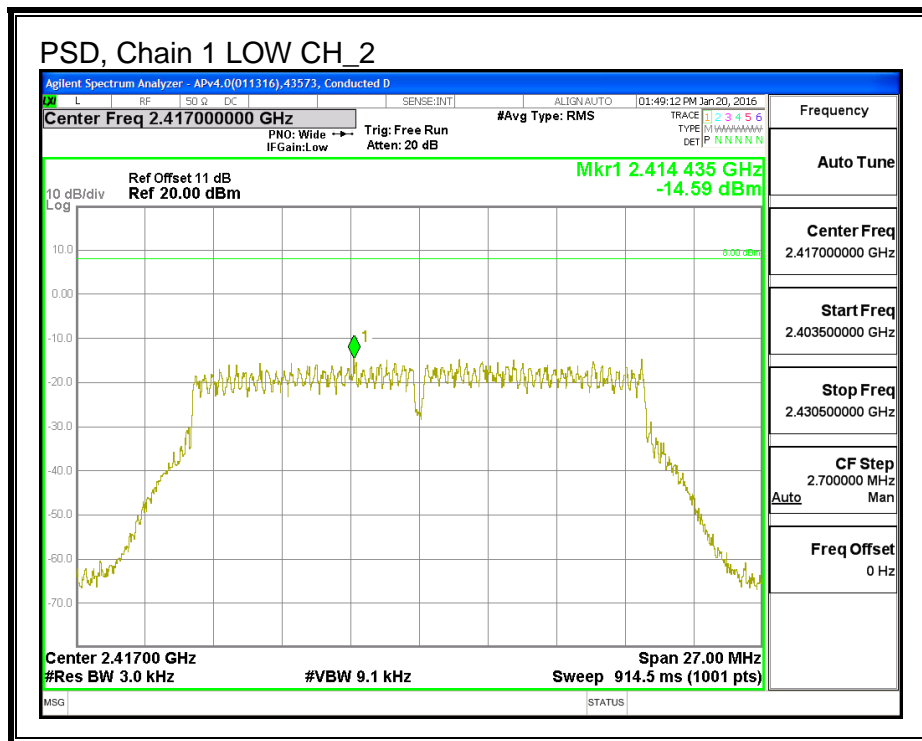


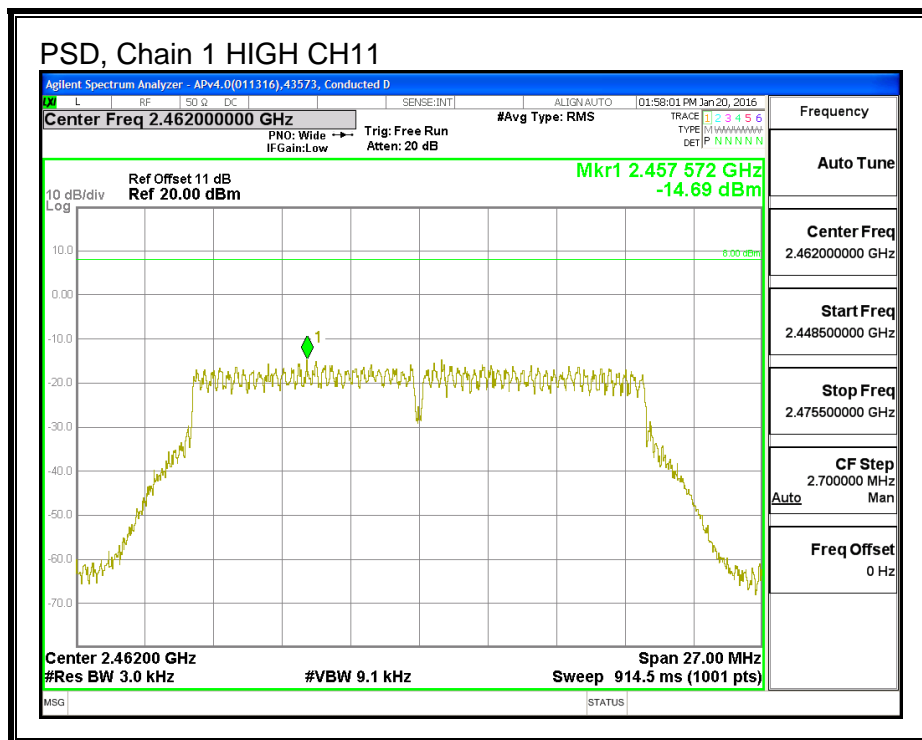
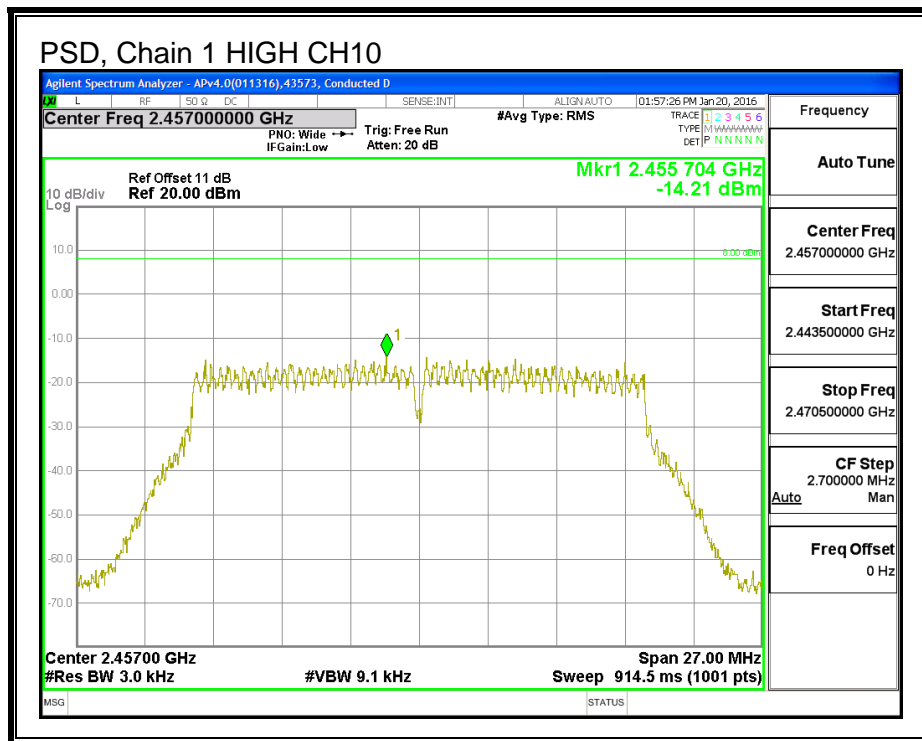


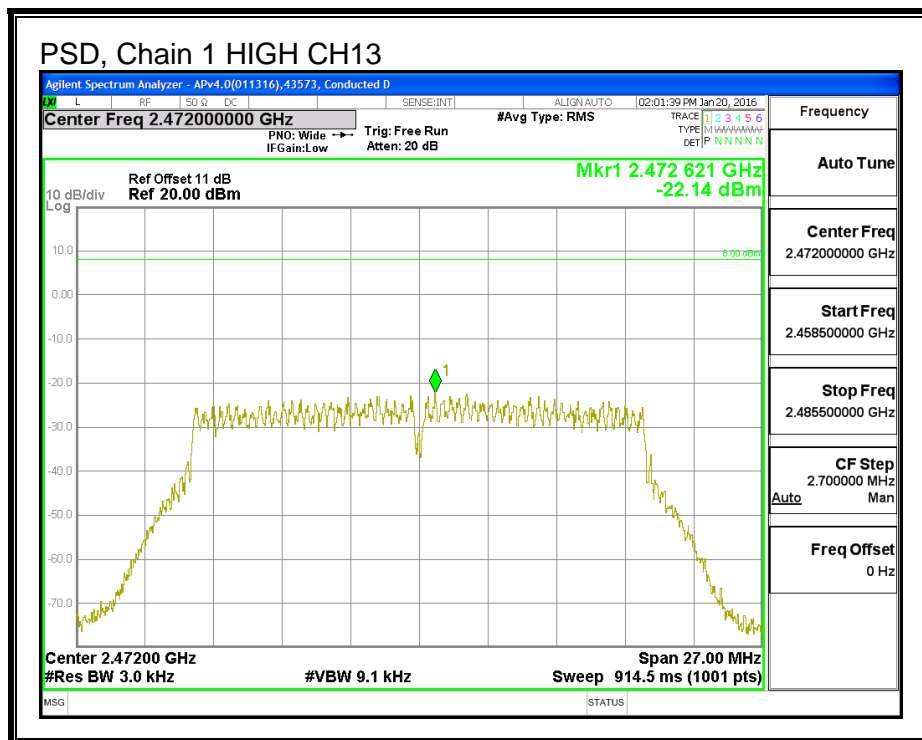
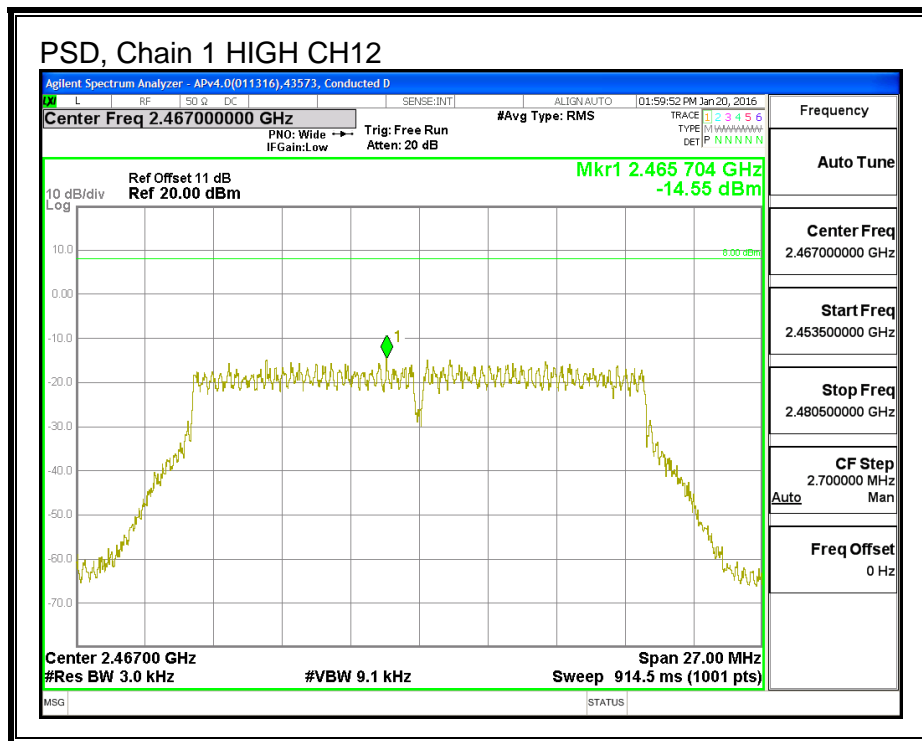


PSD, Antenna D









### 8.14.6. OUT-OF-BAND EMISSIONS

#### LIMITS

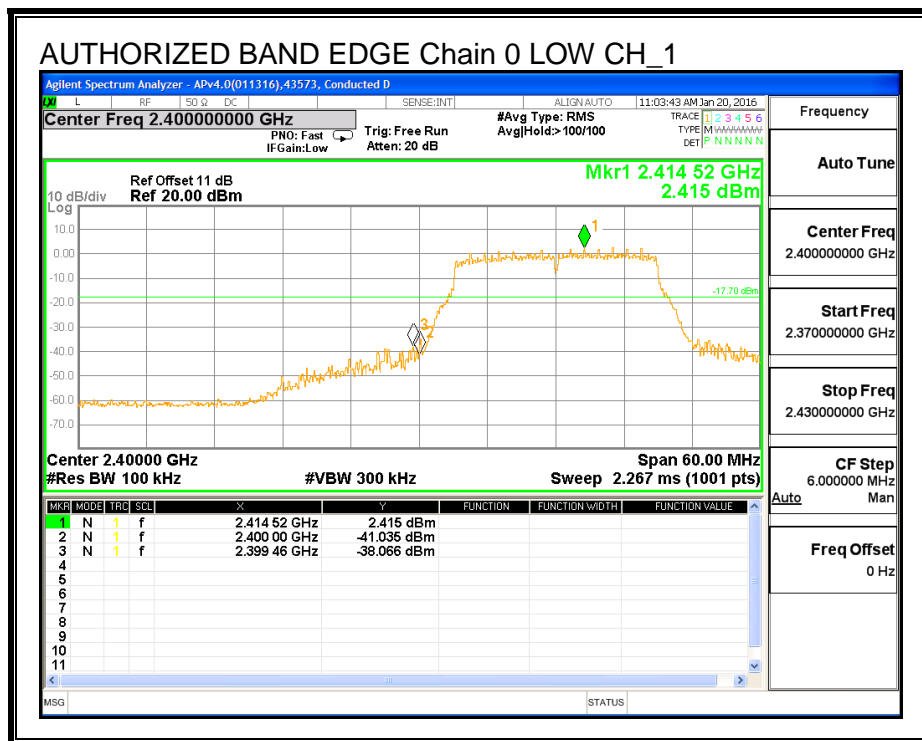
FCC §15.247 (d)

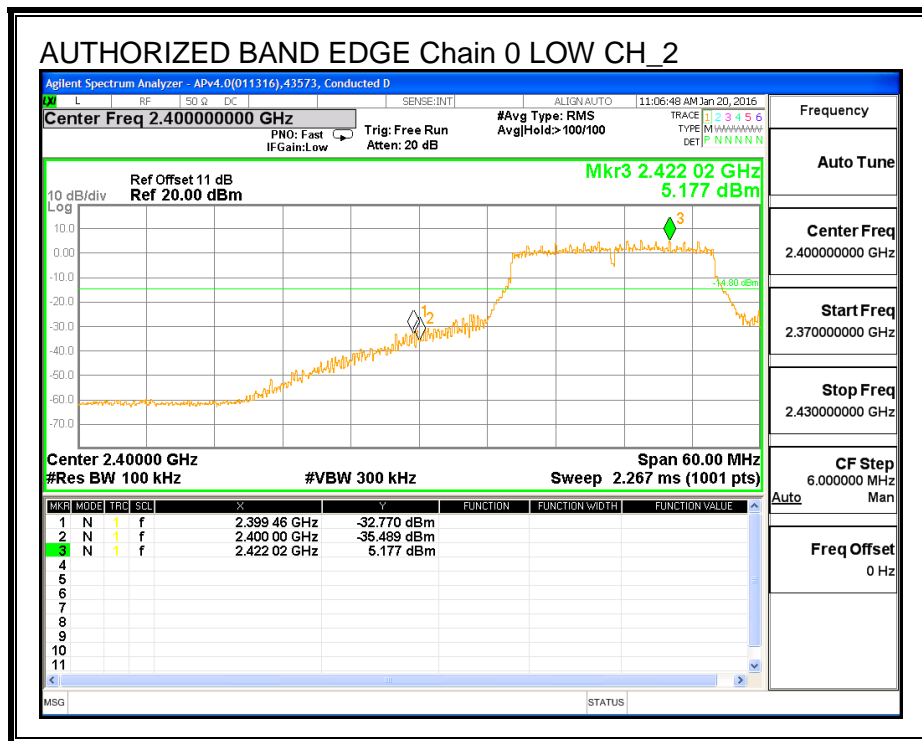
IC RSS-247 (5.5)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

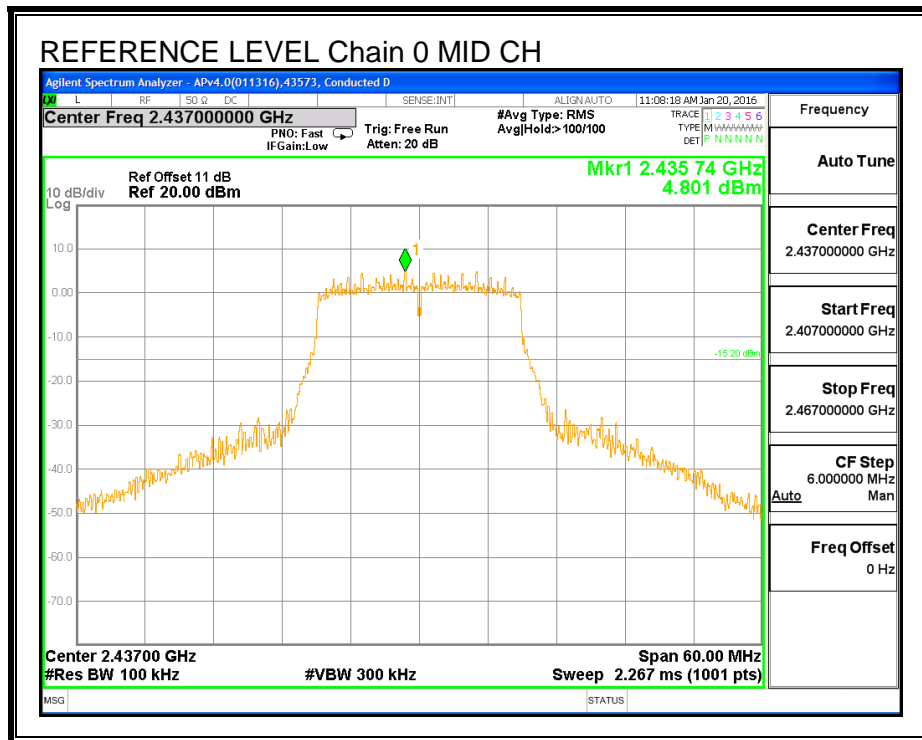
#### RESULTS

##### LOW CHANNEL BANDEDGE, Antenna A

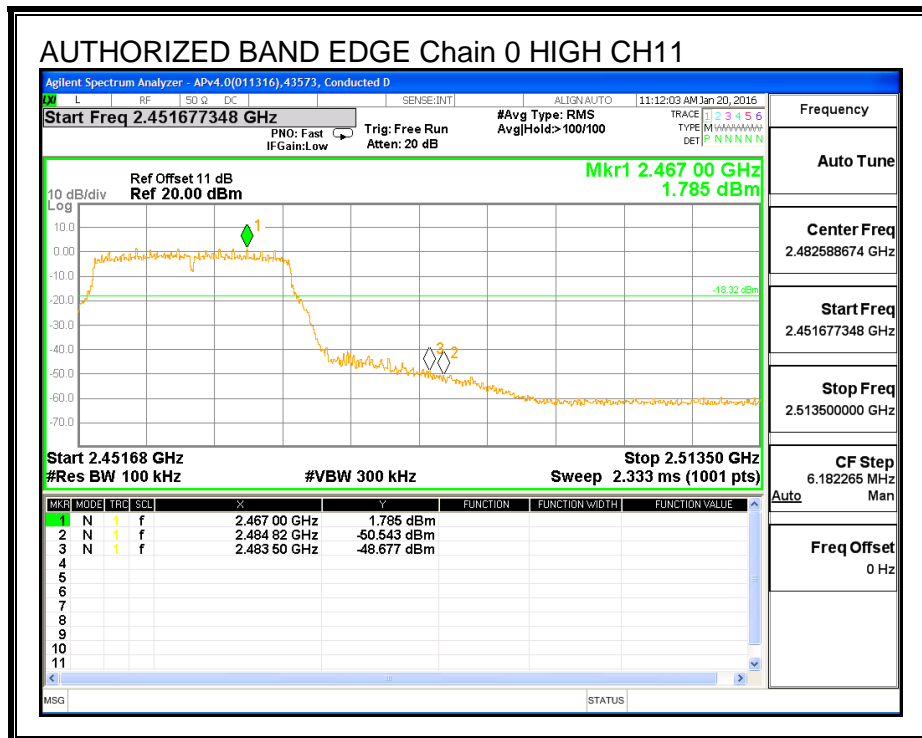
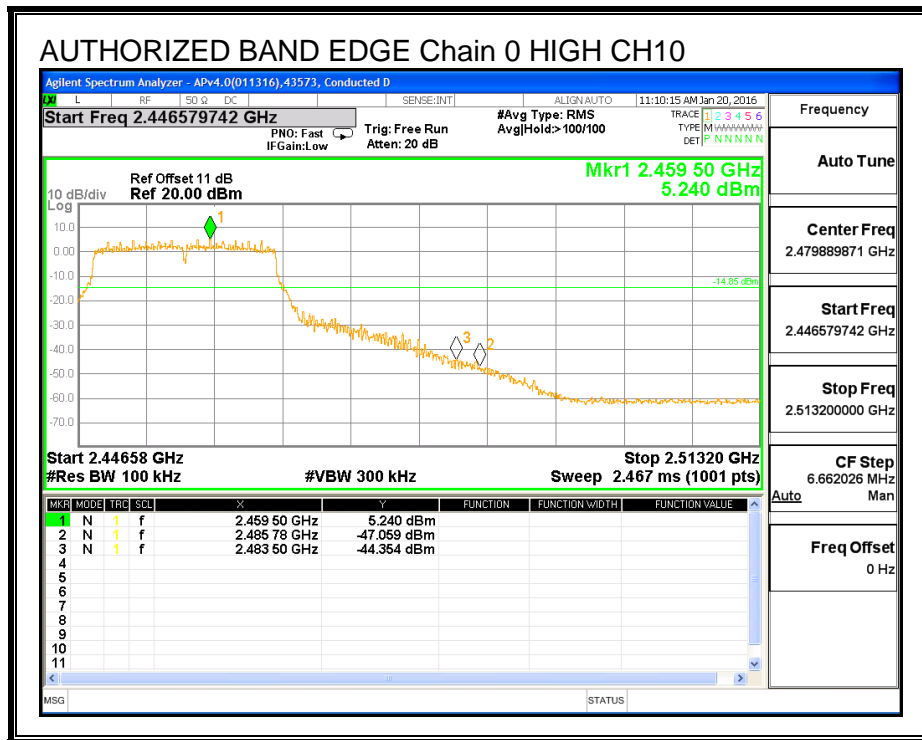


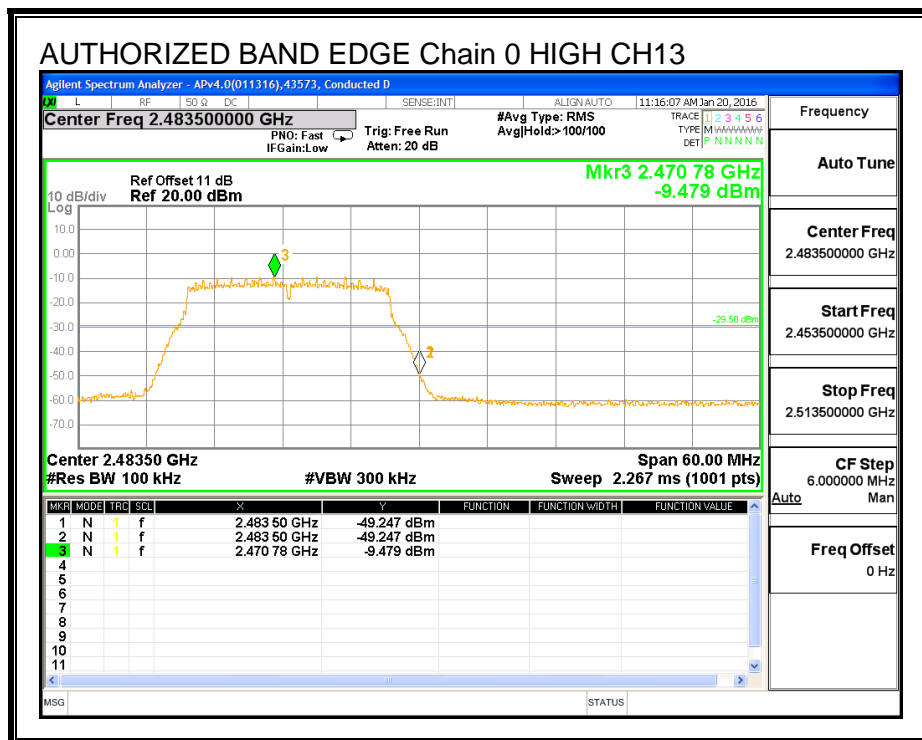
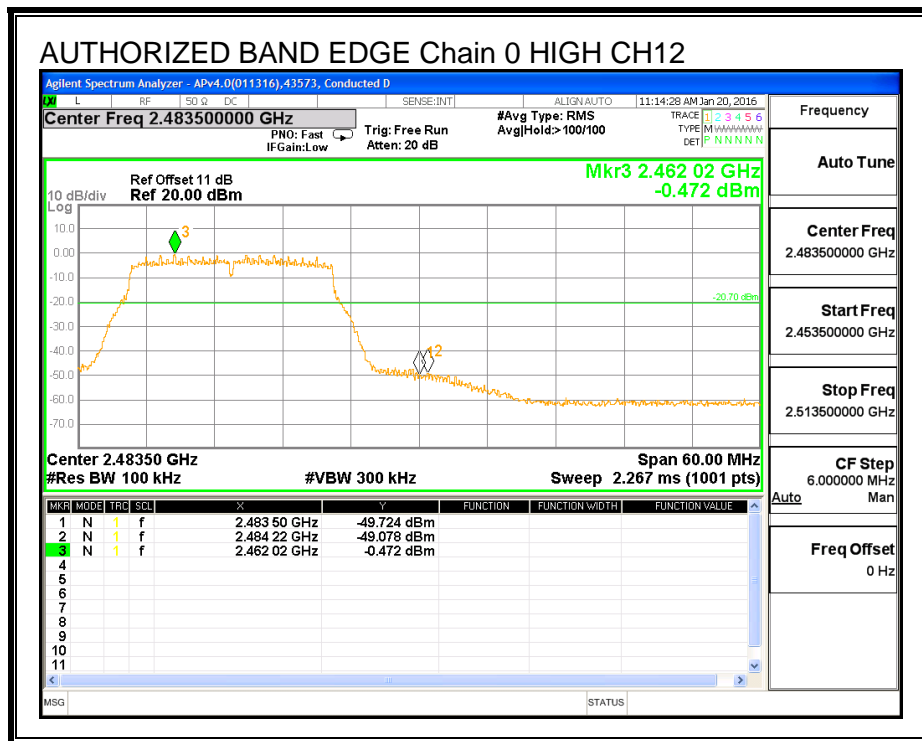


**MID CHANNEL BANDEDGE, Antenna A**



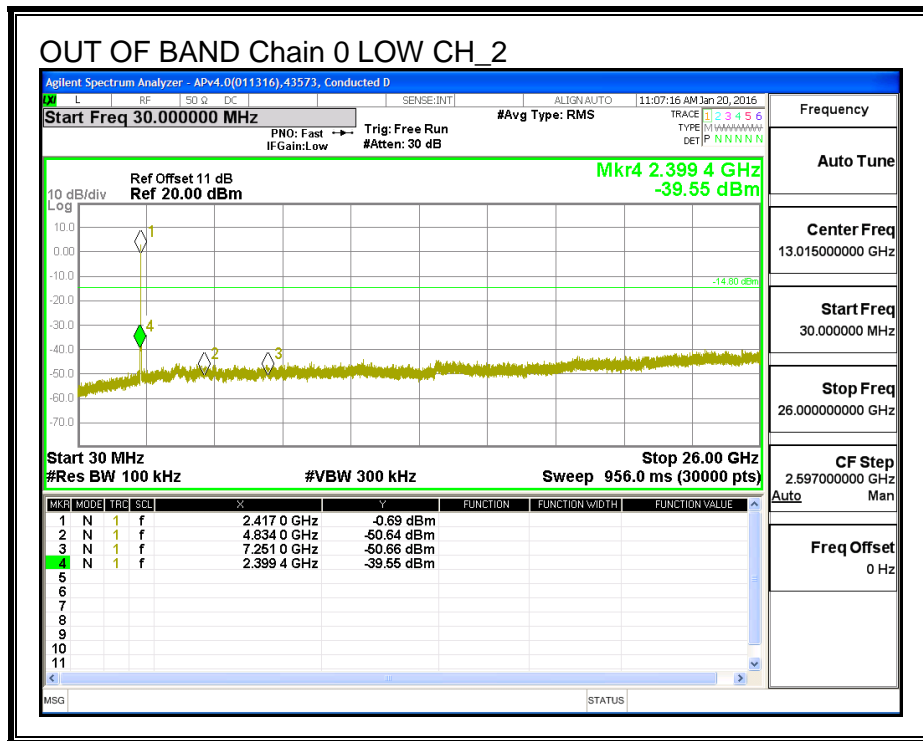
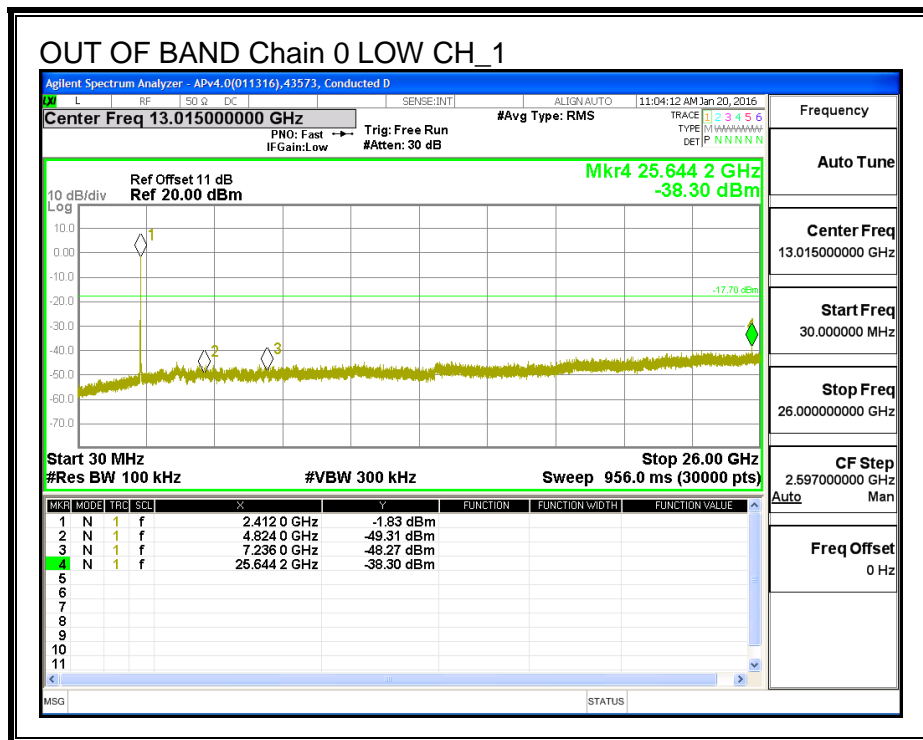
**HIGH CHANNEL BANDEDGE, Antenna A**

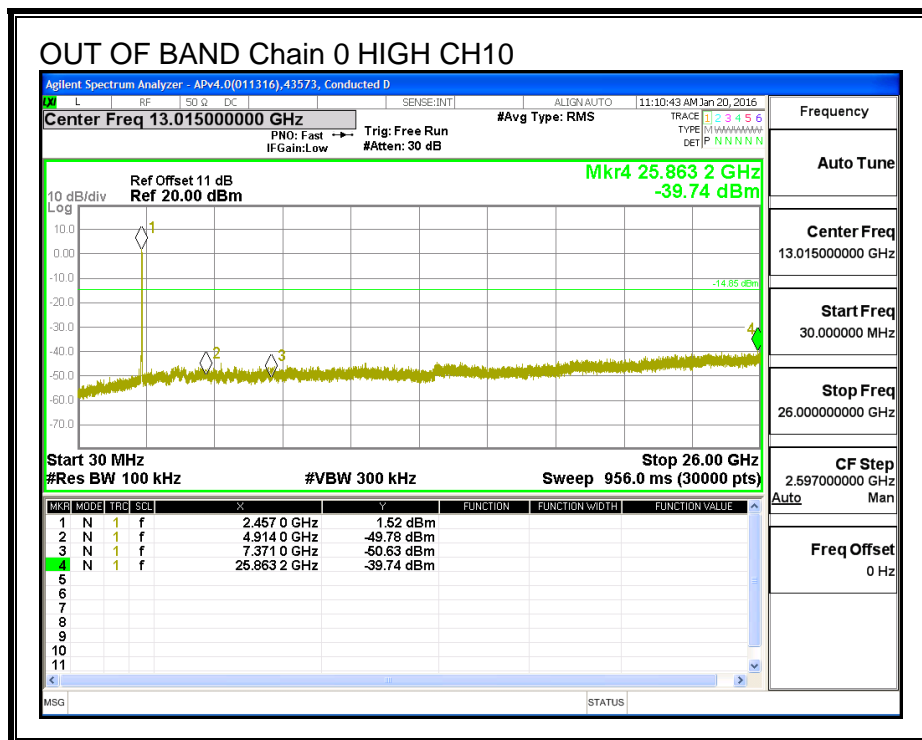
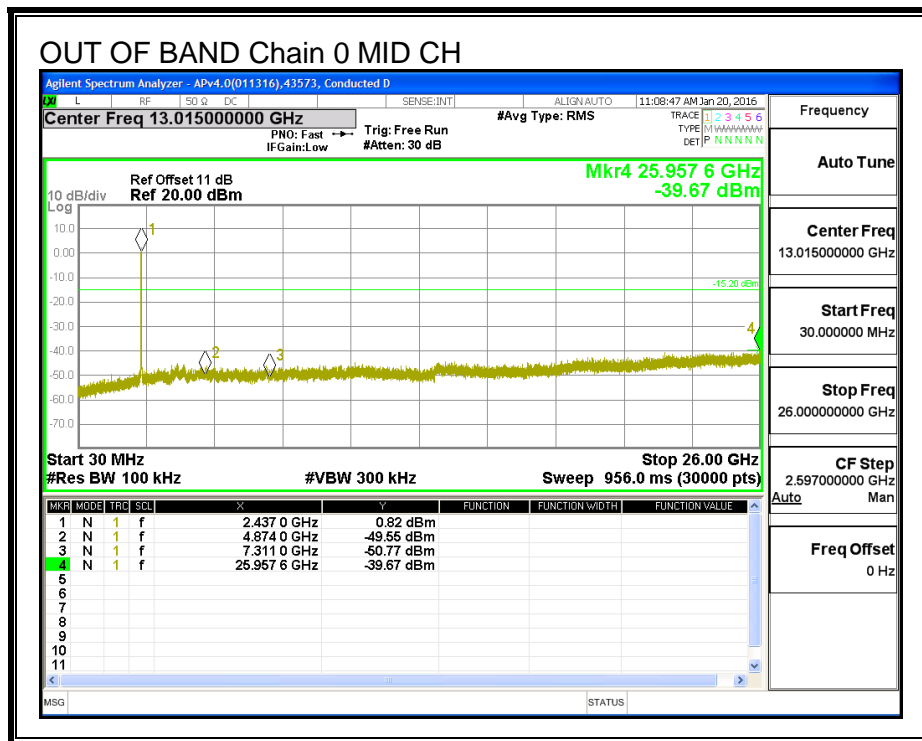


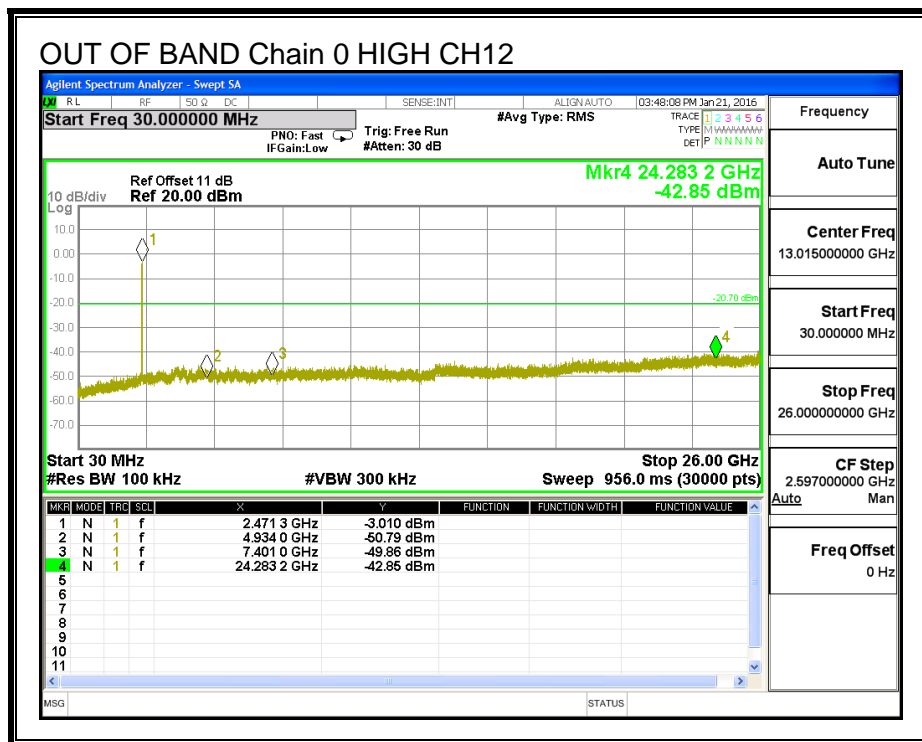
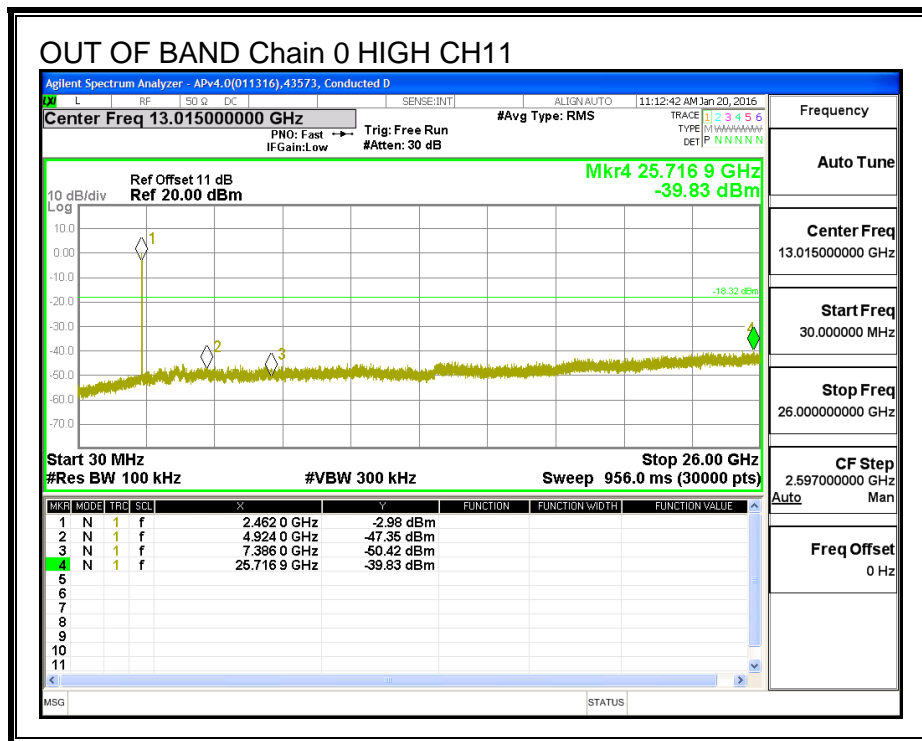


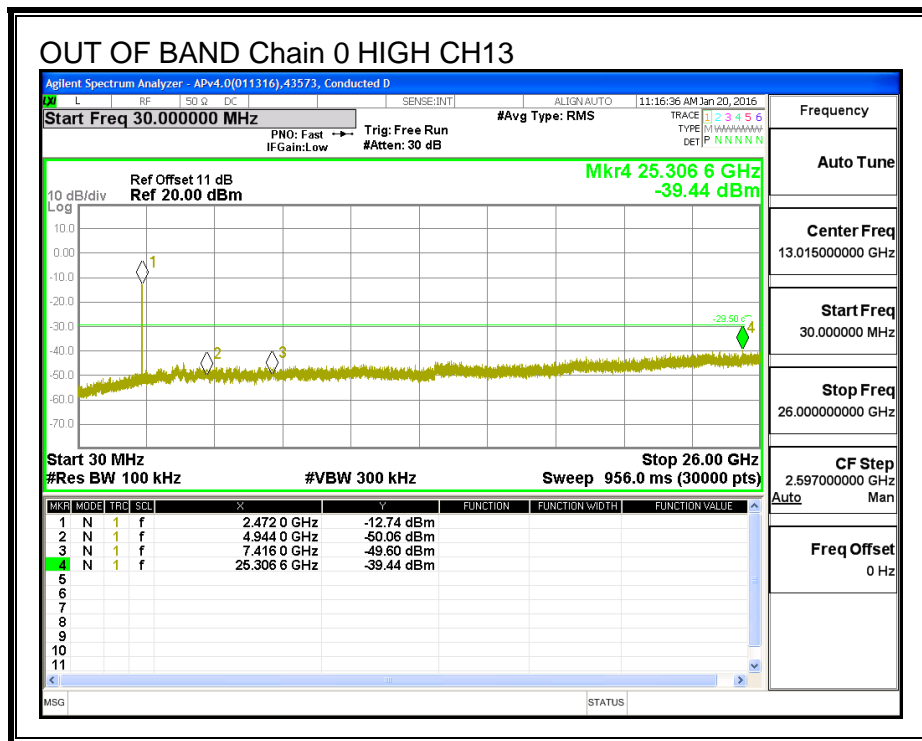


**OUT-OF-BAND EMISSIONS, Antenna A**

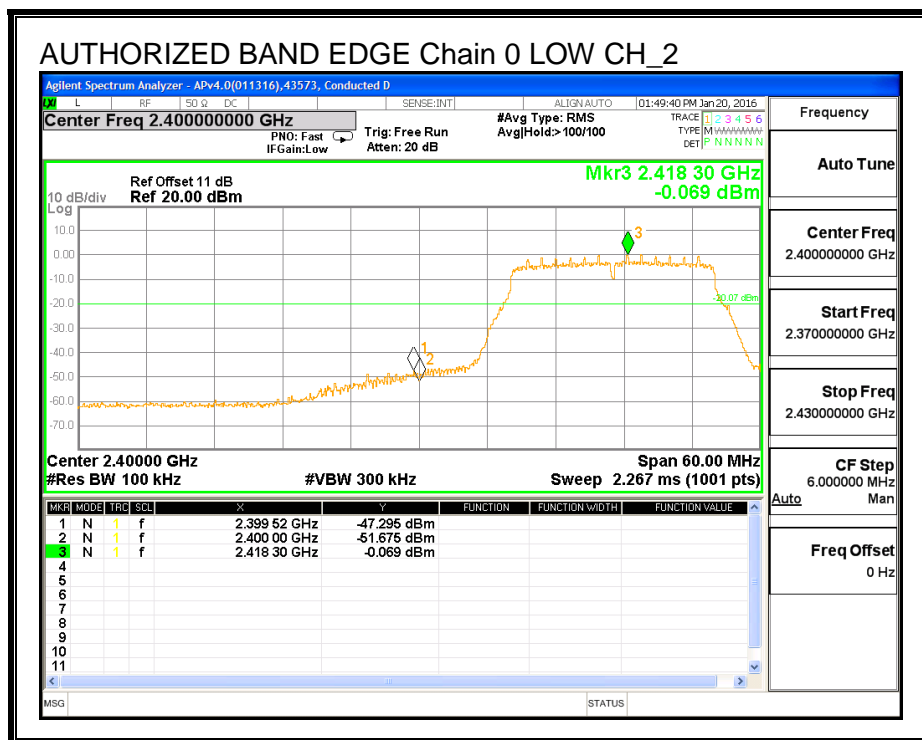
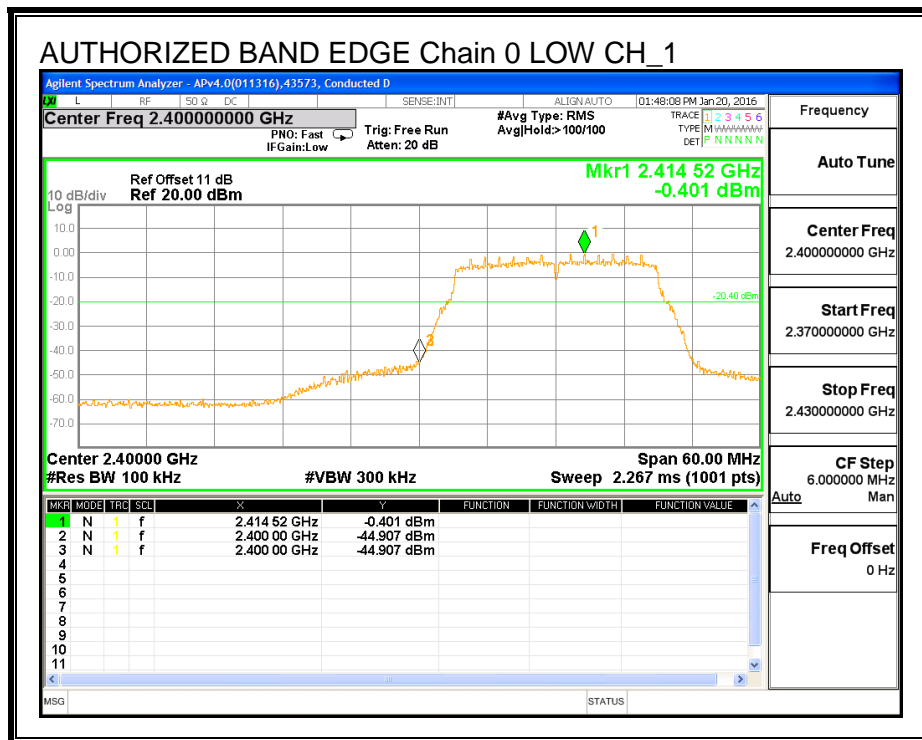




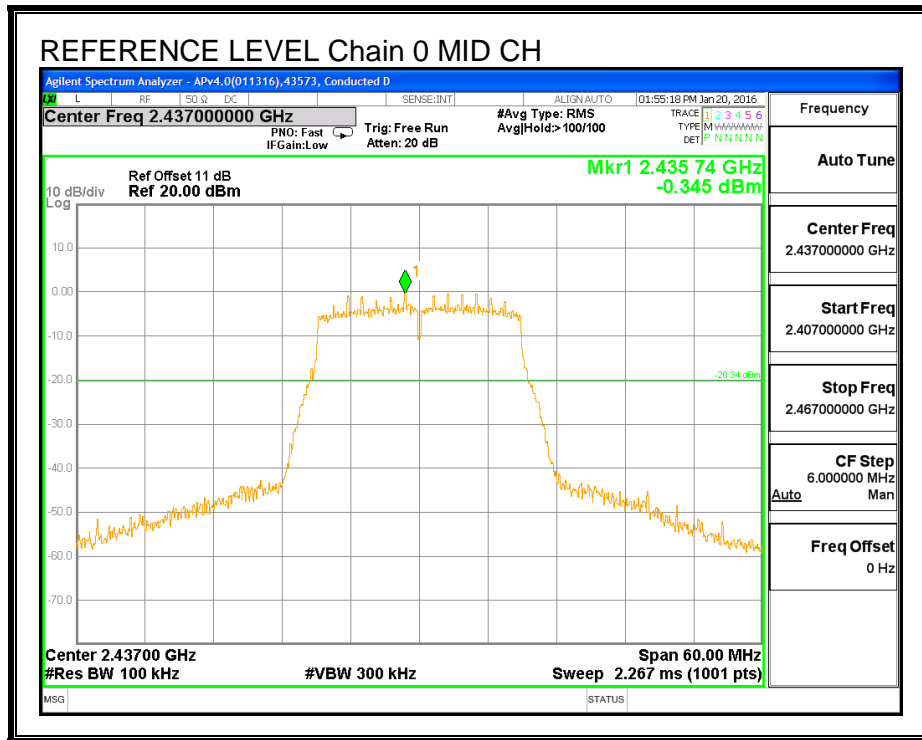




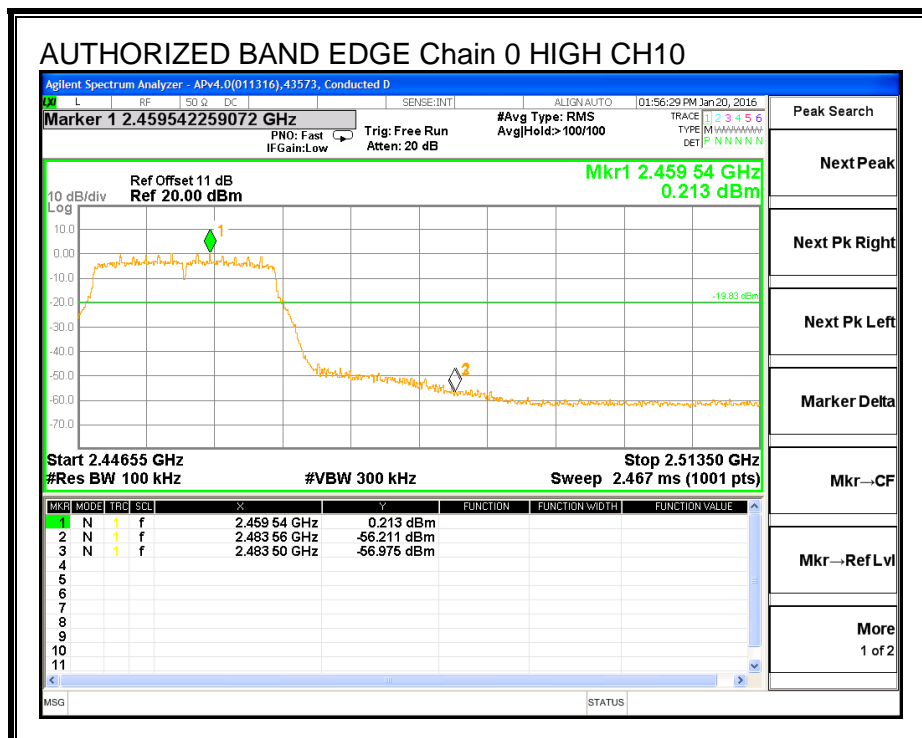
**LOW CHANNEL BANDEDGE, Antenna D**

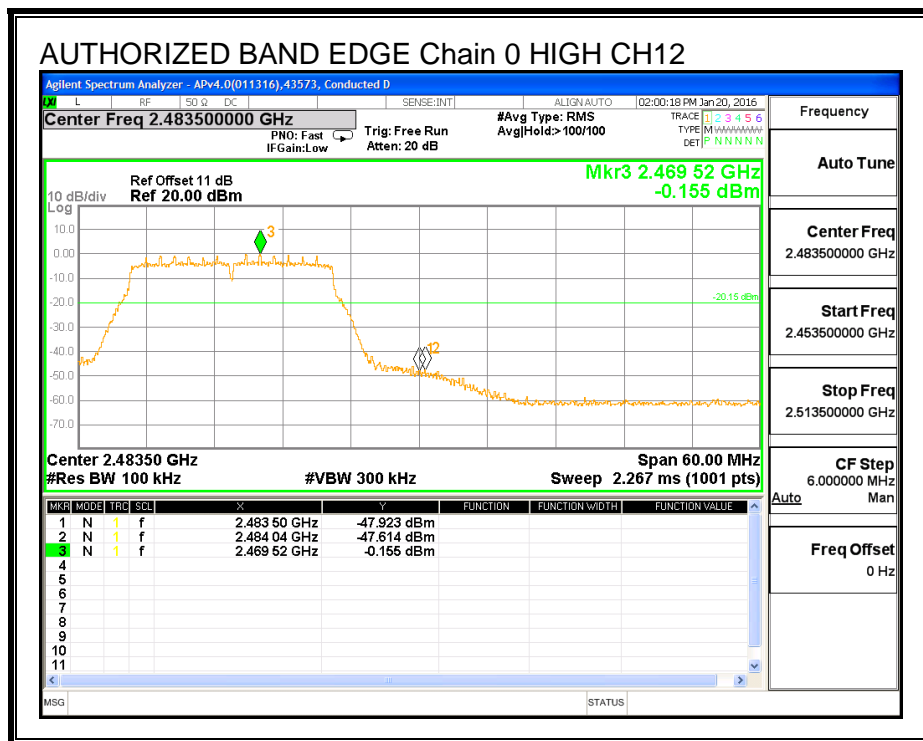
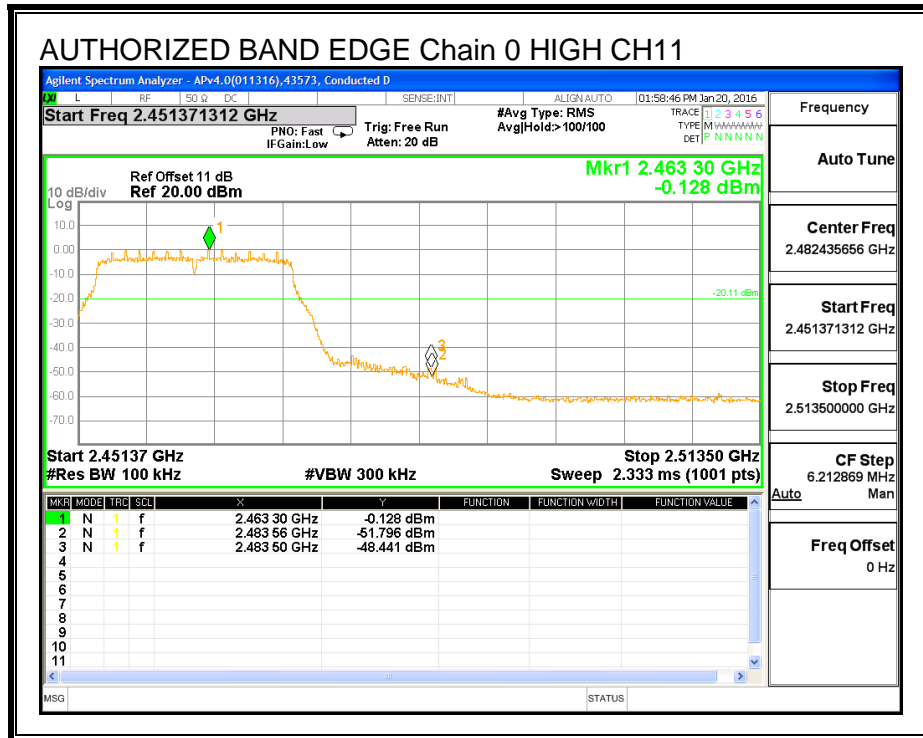


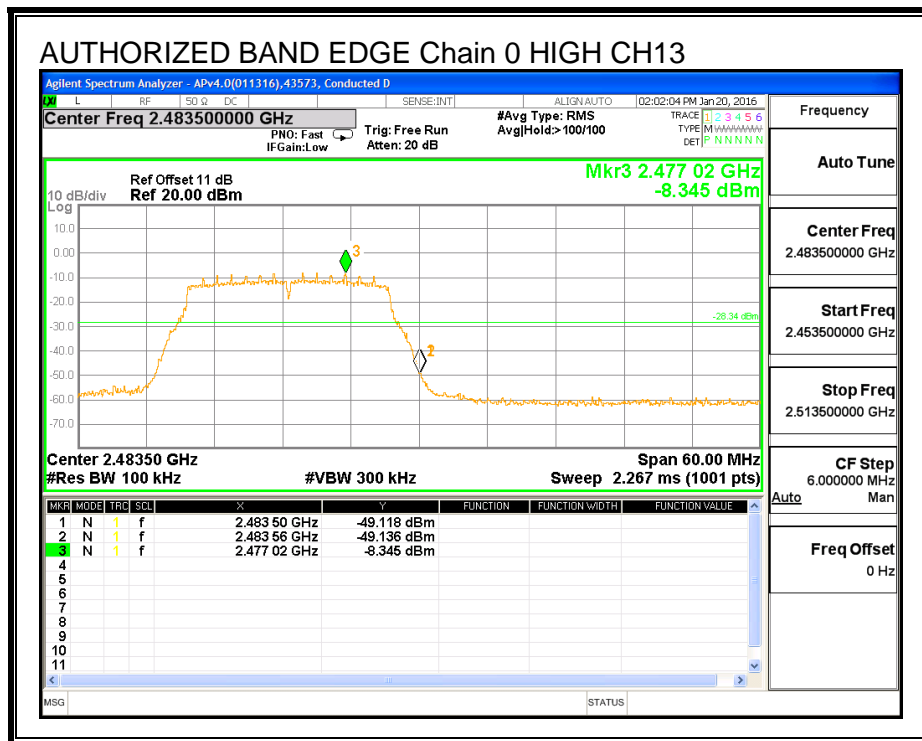
**MID CHANNEL BANDEDGE, Antenna D**



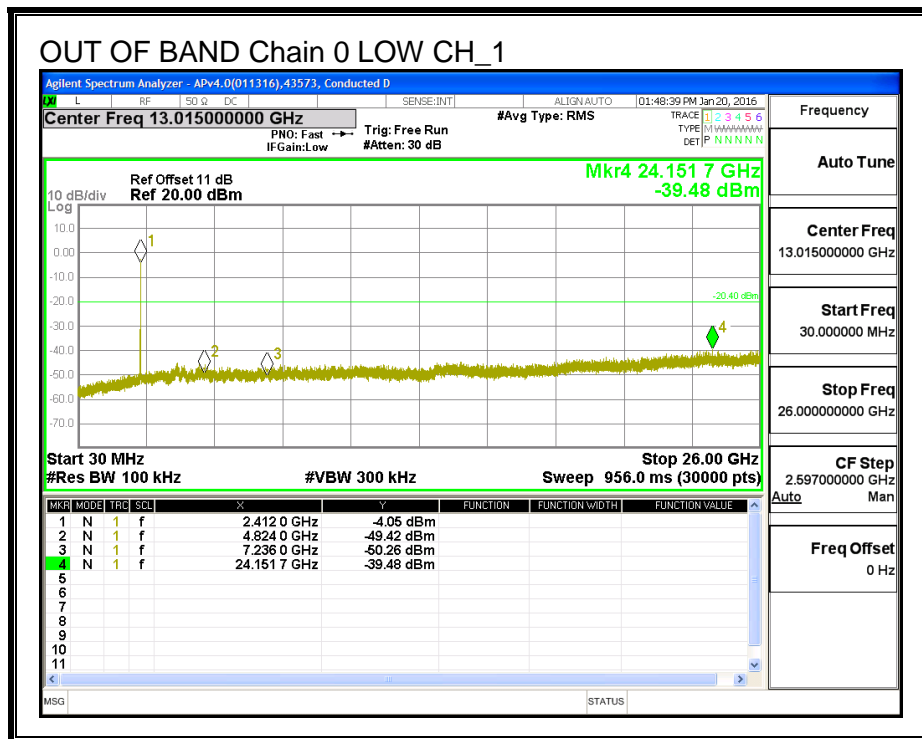
**HIGH CHANNEL BANDEDGE, Antenna D**



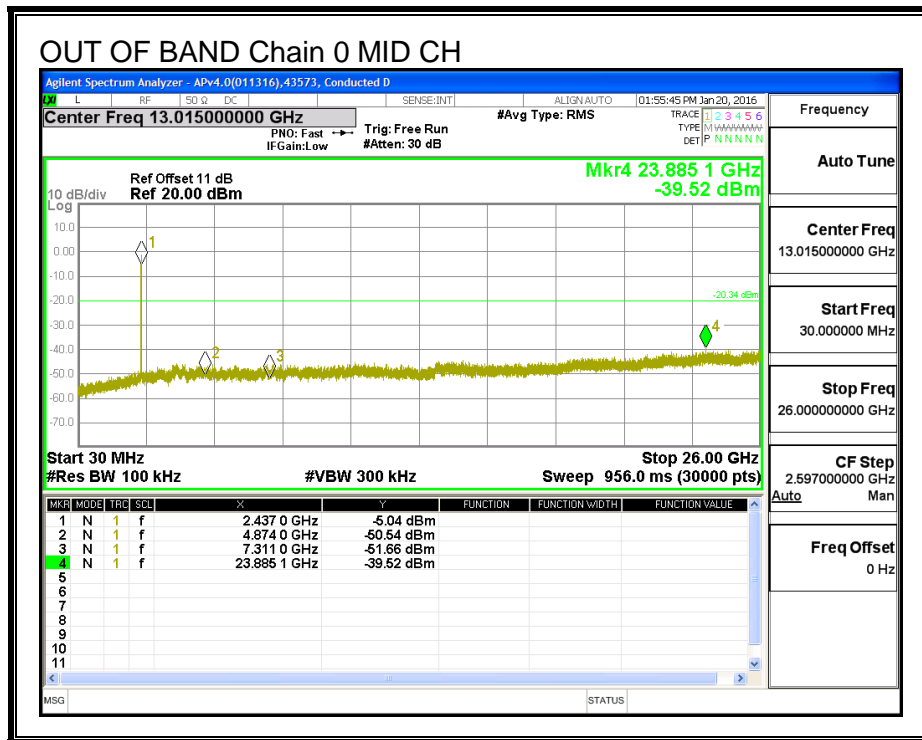
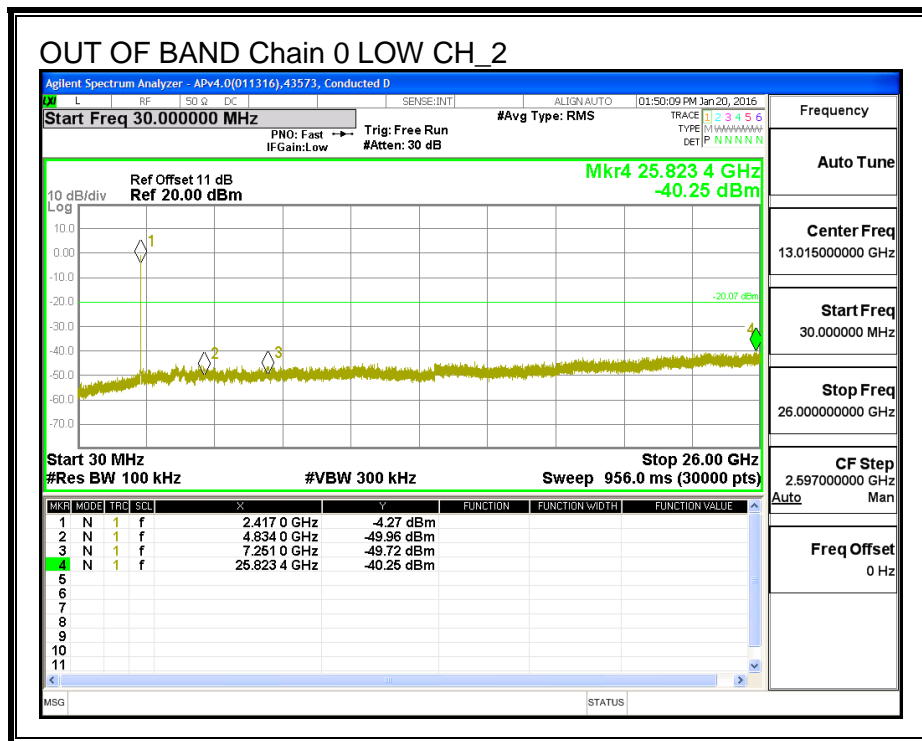


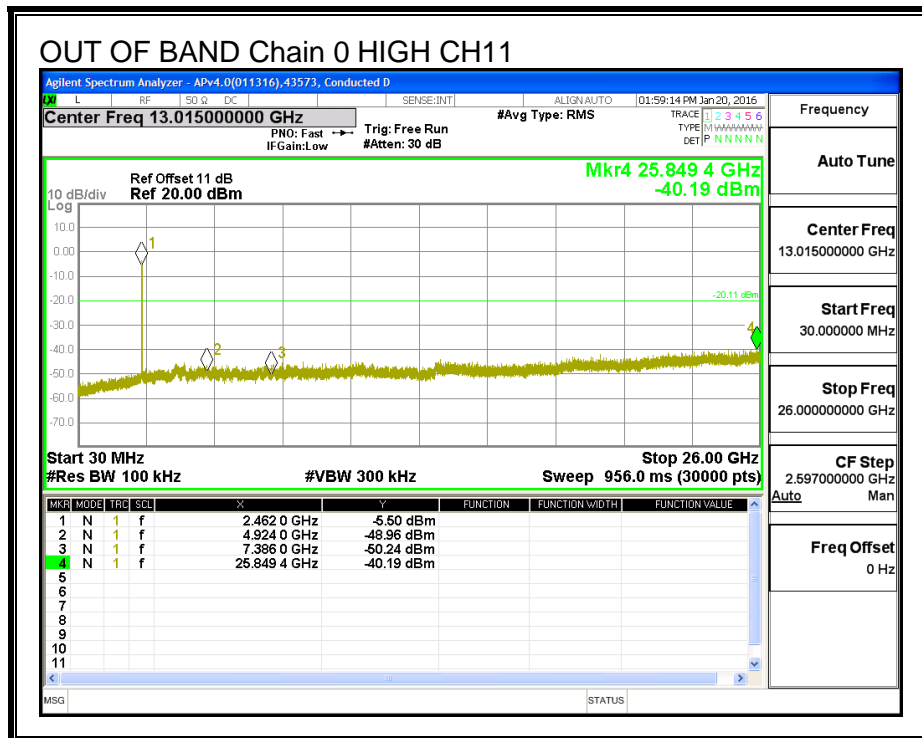
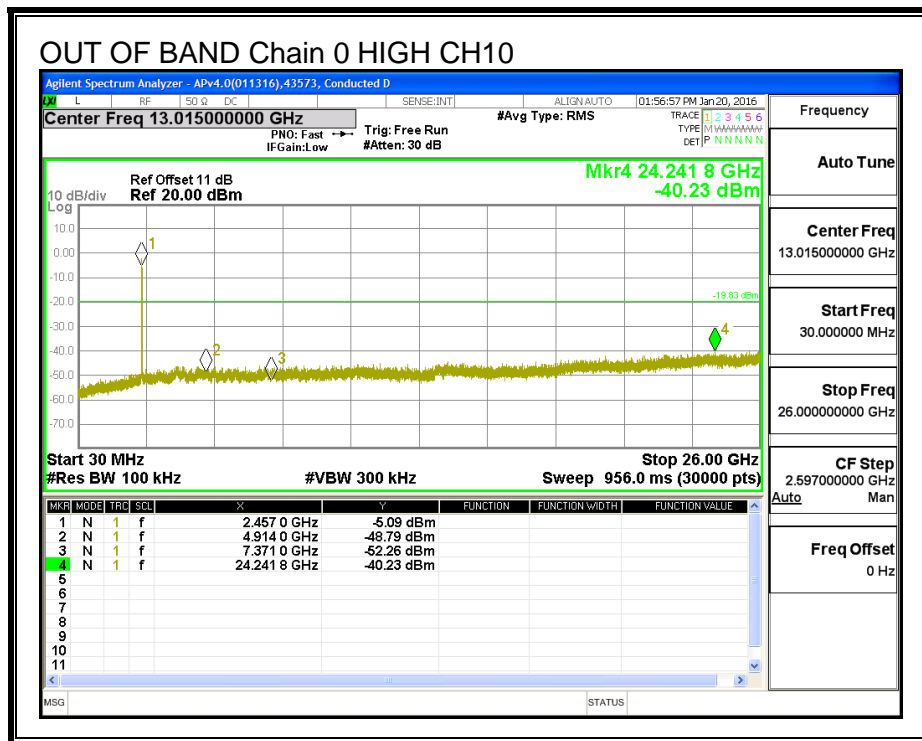


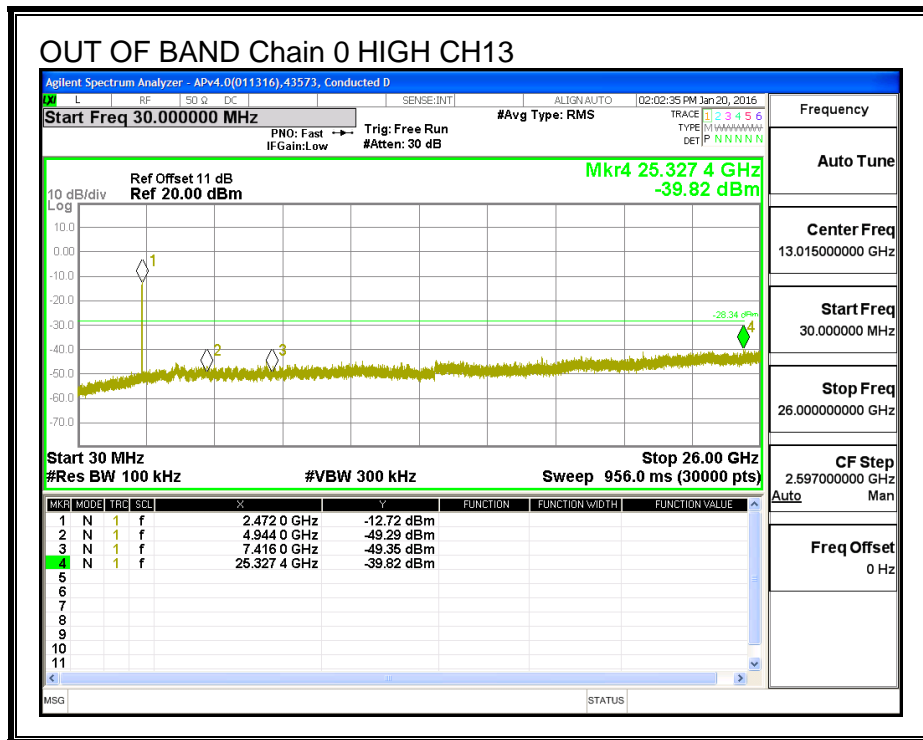
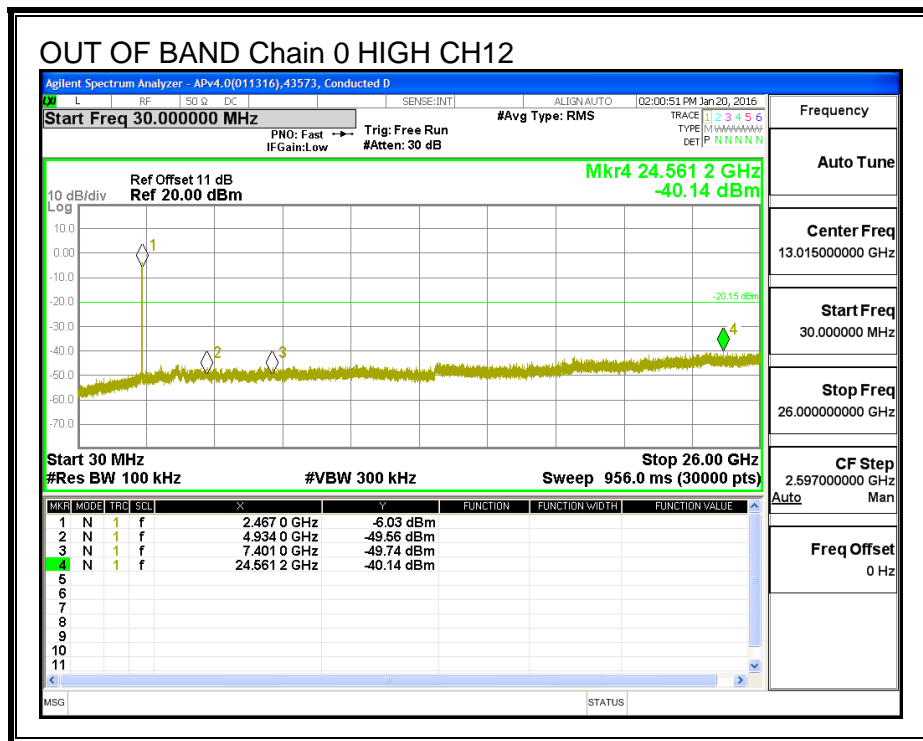
**OUT-OF-BAND EMISSIONS, Antenna D**











## 9. RADIATED TEST RESULTS

### 9.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

IC 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
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 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.

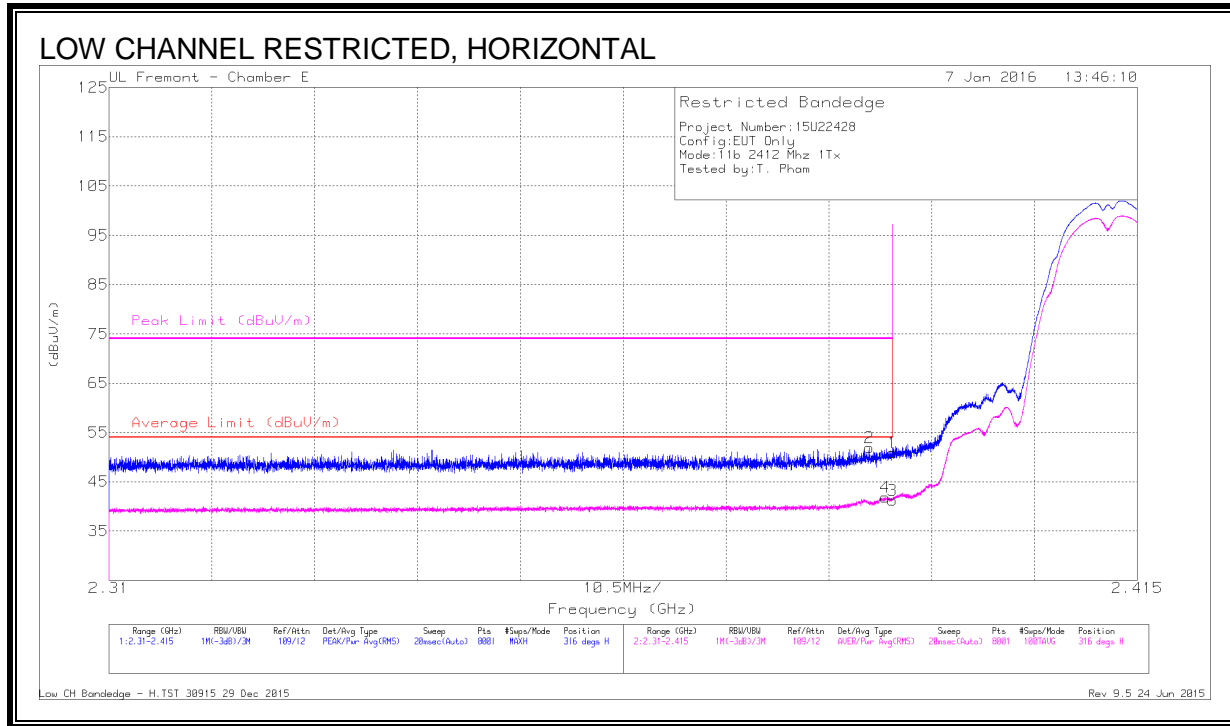
For 2.4 GHz band, the spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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

## 9.2. TRANSMITTER ABOVE 1 GHz

### 9.2.1. 802.11b 1Tx MODE IN THE 2.4 GHz BAND (ANTENNA B)

#### RESTRICTED BANDEGE (LOW CHANNEL, CH 1)



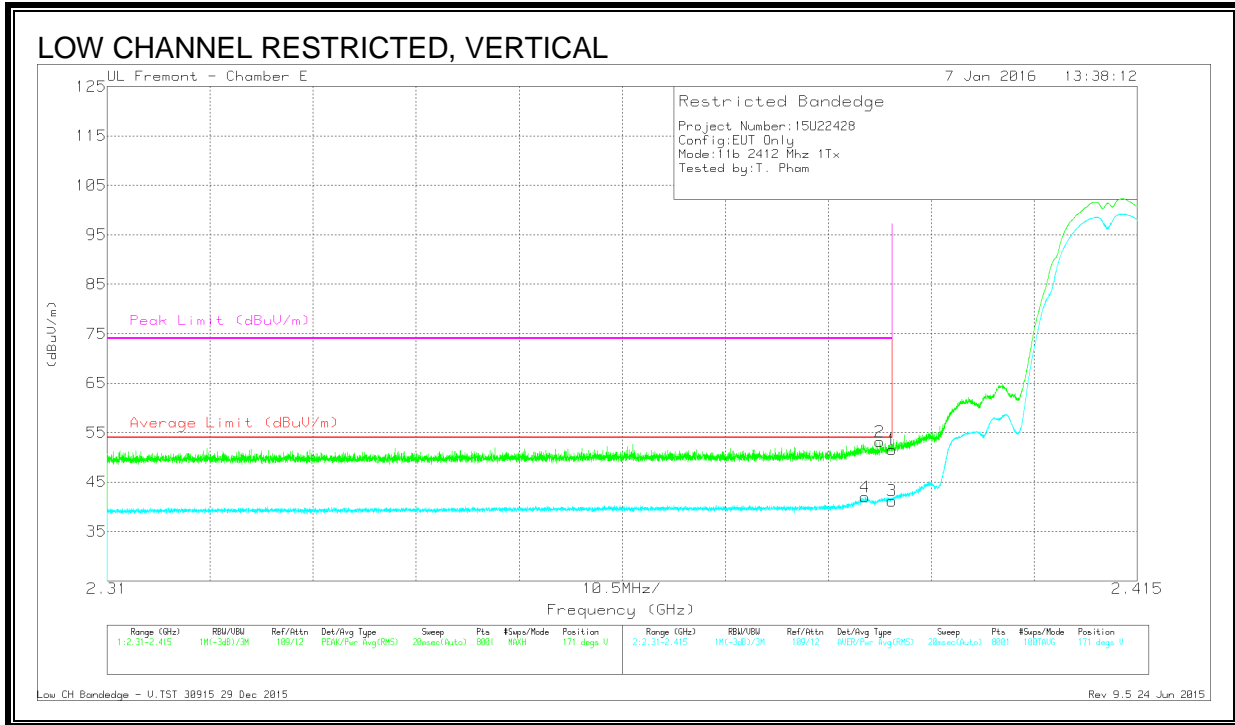
#### Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Ftr/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	39.74	Pk	32.1	-19.9	51.94	-	-	74	-22.06	316	244	H
4	* 2.389	29.67	RMS	32.1	-19.9	41.87	54	-12.13	-	-	316	244	H
1	* 2.39	38.74	Pk	32.1	-19.9	50.94	-	-	74	-23.06	316	244	H
3	* 2.39	29	RMS	32.1	-19.9	41.2	54	-12.8	-	-	316	244	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

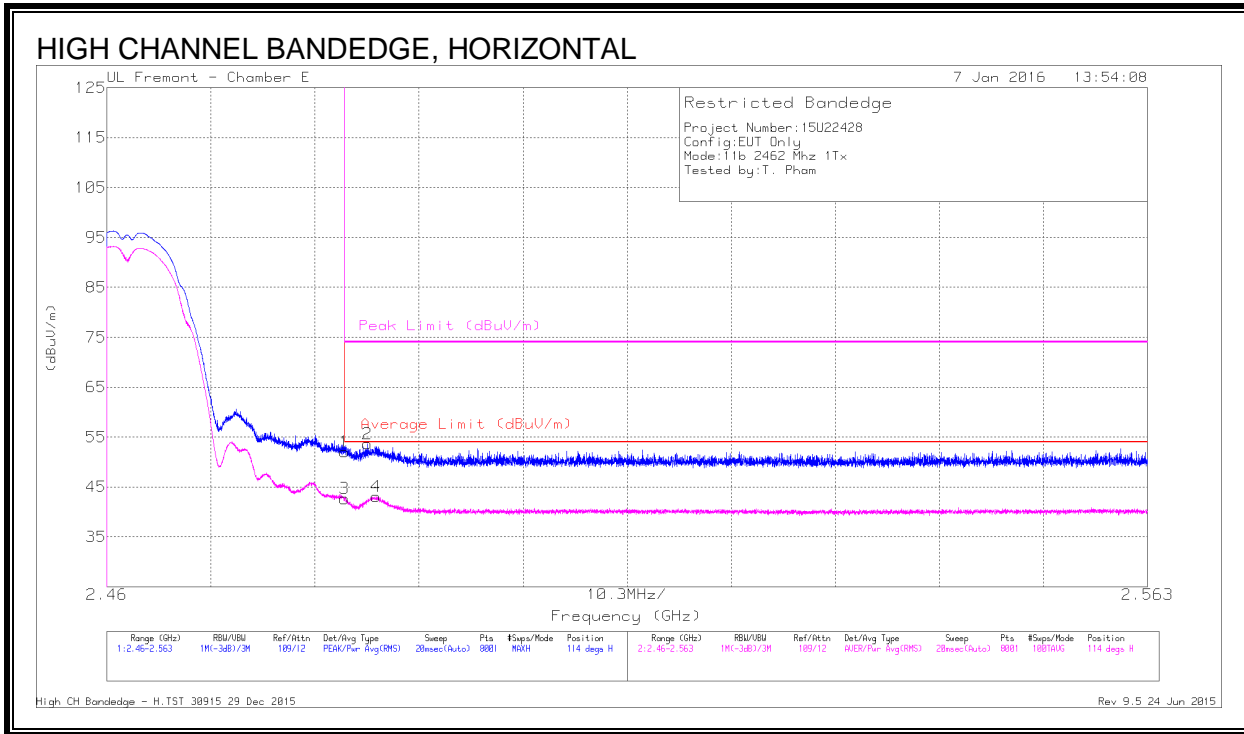
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.387	29.72	RMS	32.1	-19.9	41.92	54	-12.08	-	-	171	326	V
2	* 2.389	40.99	Pk	32.1	-19.9	53.19	-	-	74	-20.81	171	326	V
1	* 2.39	39.39	Pk	32.1	-19.9	51.59	-	-	74	-22.41	171	326	V
3	* 2.39	28.97	RMS	32.1	-19.9	41.17	54	-12.83	-	-	171	326	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)**



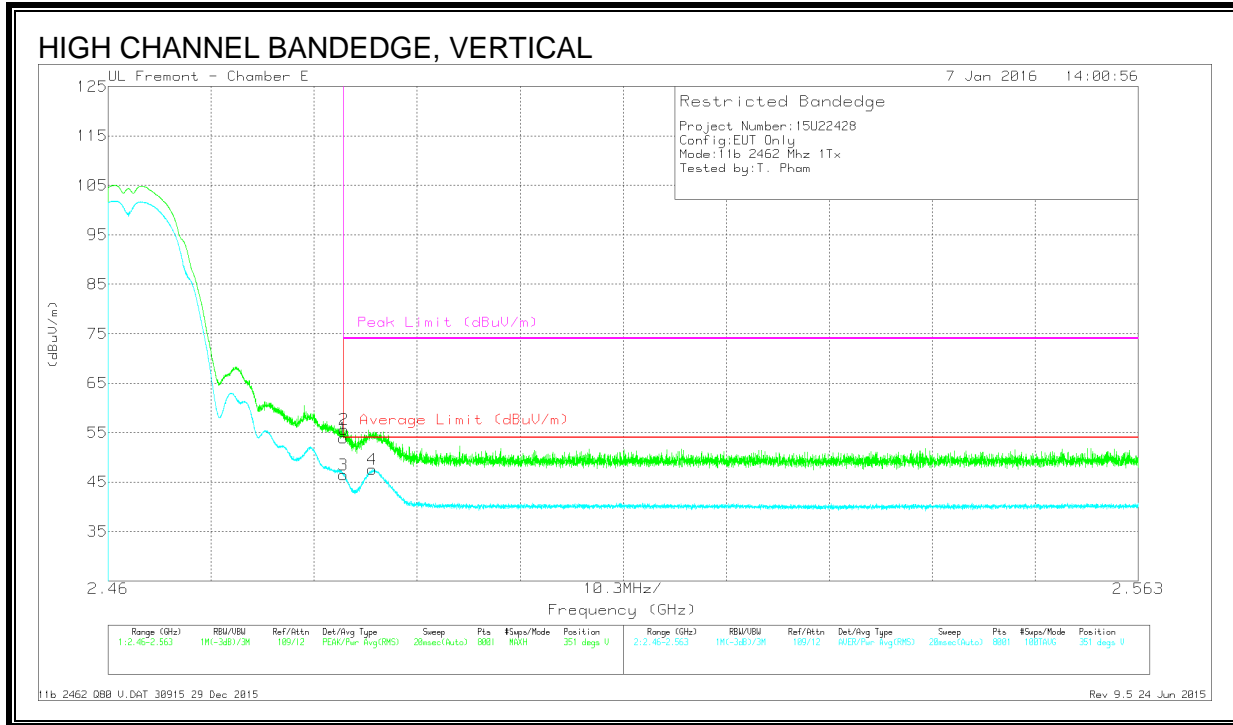
**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Ftr/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	39.79	Pk	32.2	-20	51.99	-	-	74	-22.01	114	264	H
3	* 2.484	30.46	RMS	32.2	-20	42.66	54	-11.34	-	-	114	264	H
2	* 2.486	41.6	Pk	32.2	-20.1	53.7	-	-	74	-20.3	114	264	H
4	* 2.487	30.94	RMS	32.2	-20.1	43.04	54	-10.96	-	-	114	264	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.484	41.66	Pk	32.2	-20	53.86	-	-	74	-20.14	351	294	V
2	* 2.484	43.41	Pk	32.2	-20	55.61	-	-	74	-18.39	351	294	V
3	* 2.484	34.19	RMS	32.2	-20	46.39	54	-7.61	-	-	351	294	V
4	* 2.486	35.5	RMS	32.2	-20.1	47.6	54	-6.4	-	-	351	294	V

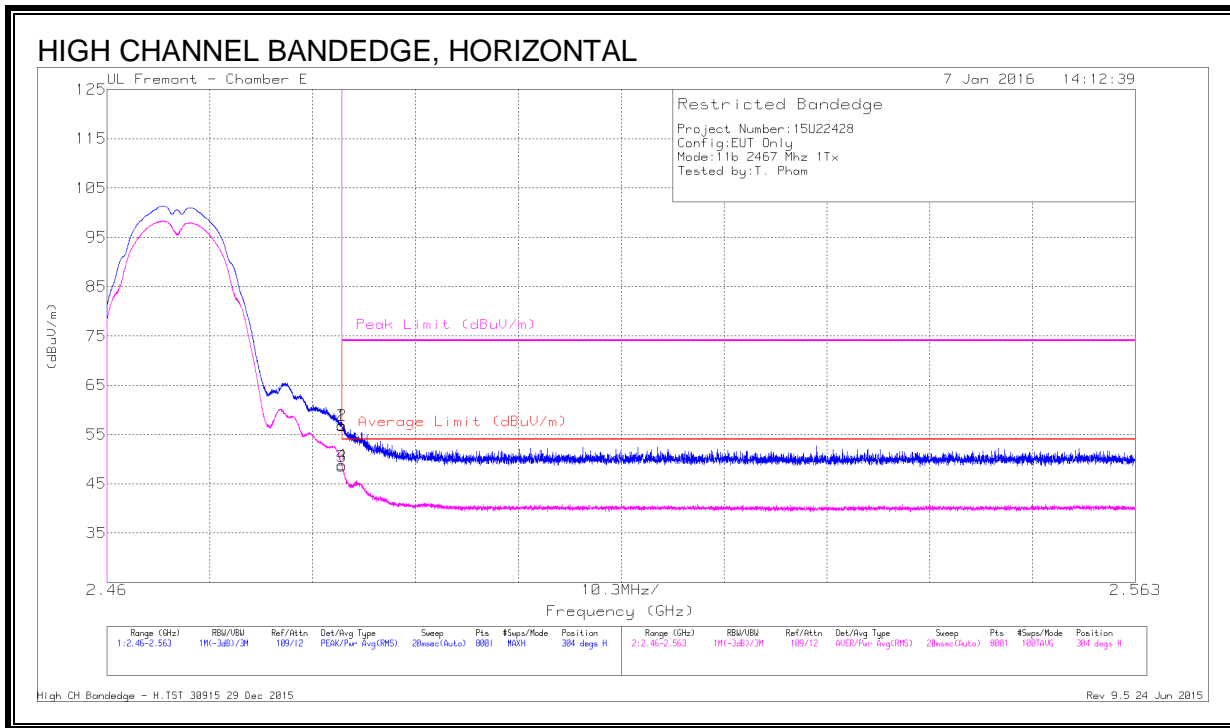
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**AUTHORIZED BANDEGE (HIGH CHANNEL, CH 12)**



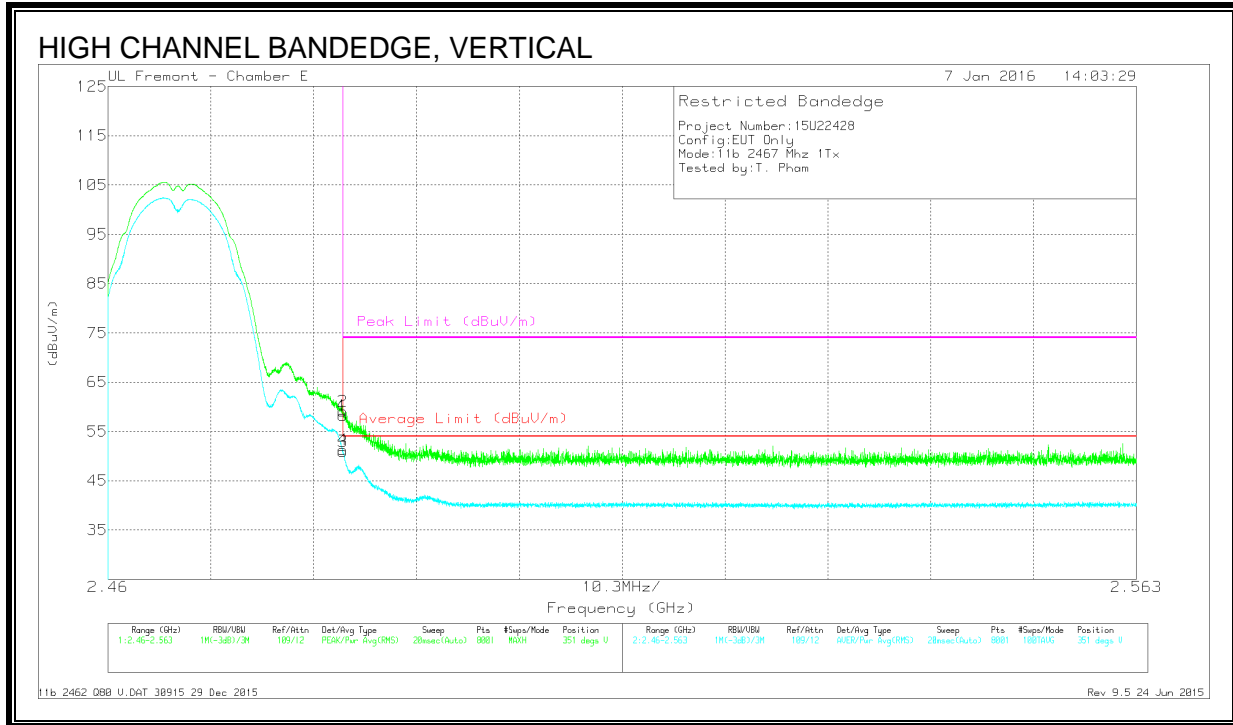
**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	44.51	Pk	32.2	-20	56.71	-	-	74	-17.29	304	222	H
2	* 2.484	44.71	Pk	32.2	-20	56.91	-	-	74	-17.09	304	222	H
3	* 2.484	36.34	RMS	32.2	-20	48.54	54	-5.46	-	-	304	222	H
4	* 2.484	36.57	RMS	32.2	-20	48.77	54	-5.23	-	-	304	222	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

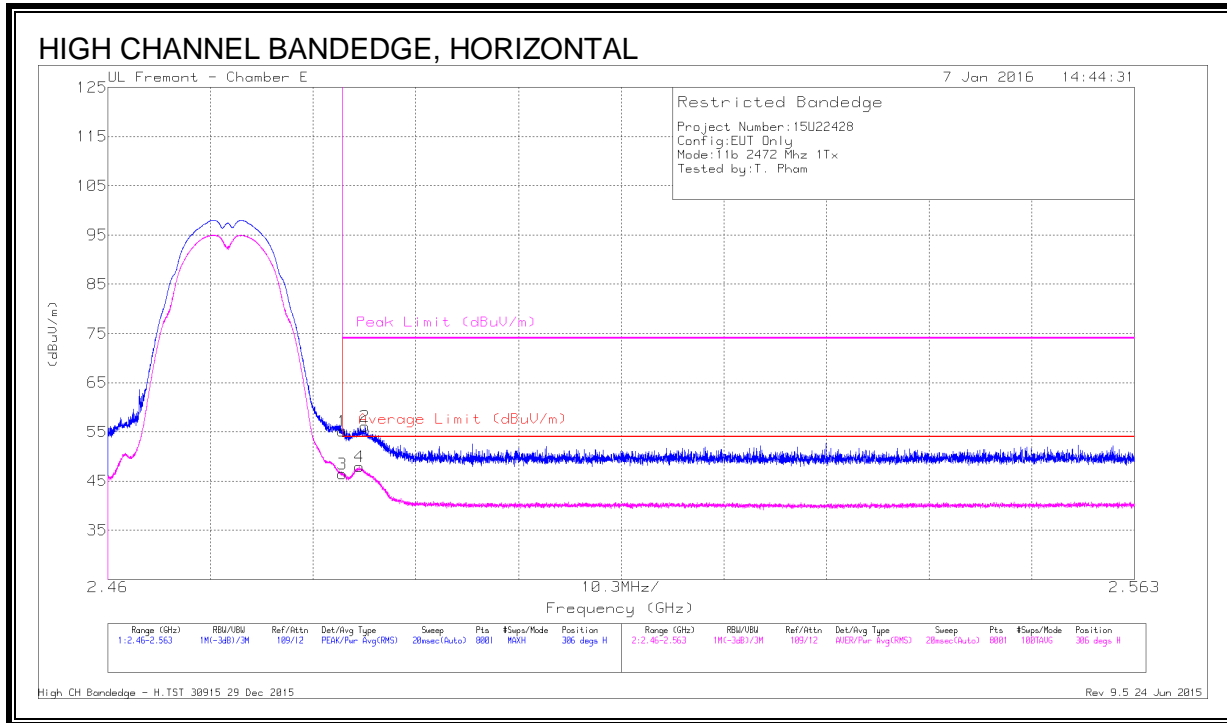
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.01	Pk	32.2	-20	58.21	-	-	74	-15.79	351	294	V
2	* 2.484	46.95	Pk	32.2	-20	59.15	-	-	74	-14.85	351	294	V
3	* 2.484	38.77	RMS	32.2	-20	50.97	54	-3.03	-	-	351	294	V
4	* 2.484	39.1	RMS	32.2	-20	51.3	54	-2.7	-	-	351	294	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEGE (HIGH CHANNEL, CH 13)**



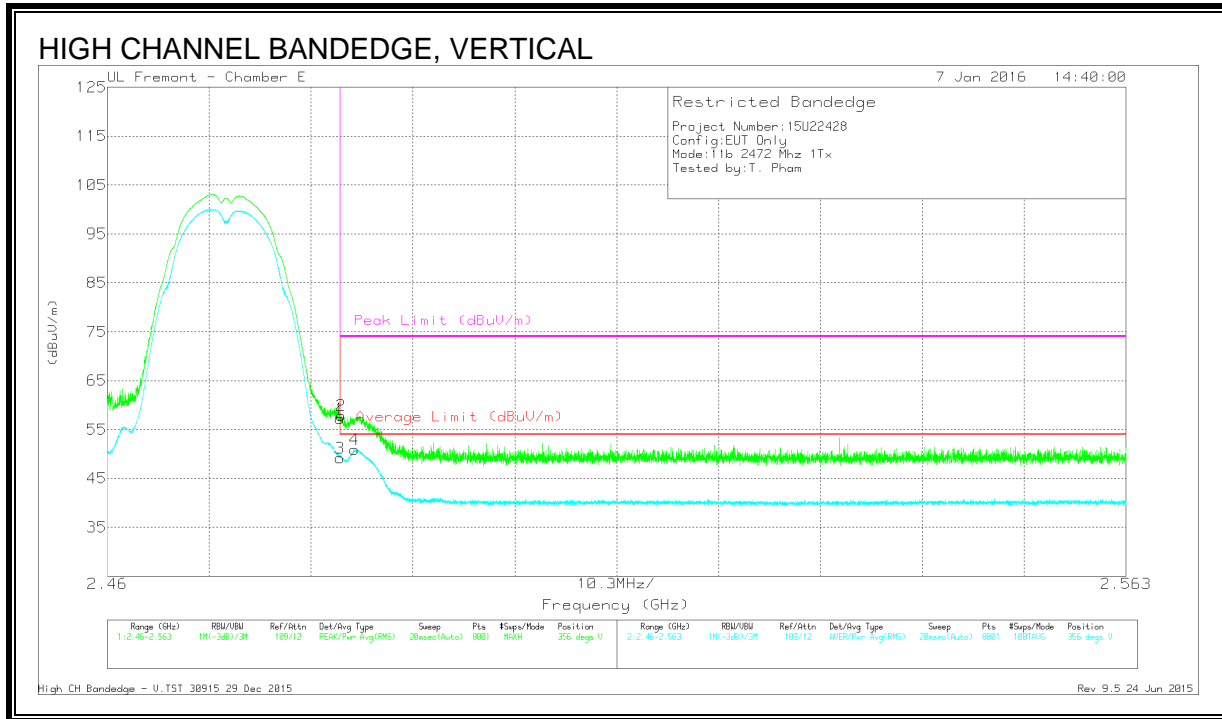
**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.484	42.9	Pk	32.2	-20	55.1	-	-	74	-18.9	306	320	H
3	* 2.484	34.21	RMS	32.2	-20	46.41	54	-7.59	-	-	306	320	H
4	* 2.485	35.79	RMS	32.2	-20.1	47.89	54	-6.11	-	-	306	320	H
2	* 2.486	44.07	Pk	32.2	-20.1	56.17	-	-	74	-17.83	306	320	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

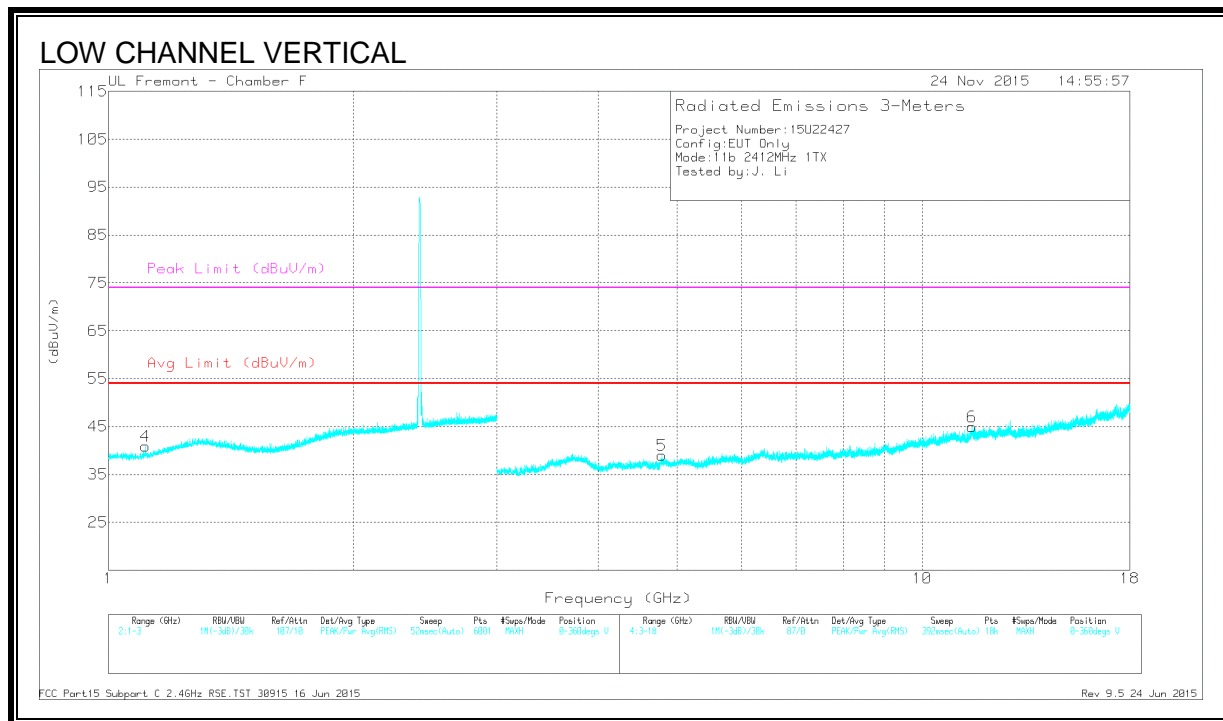
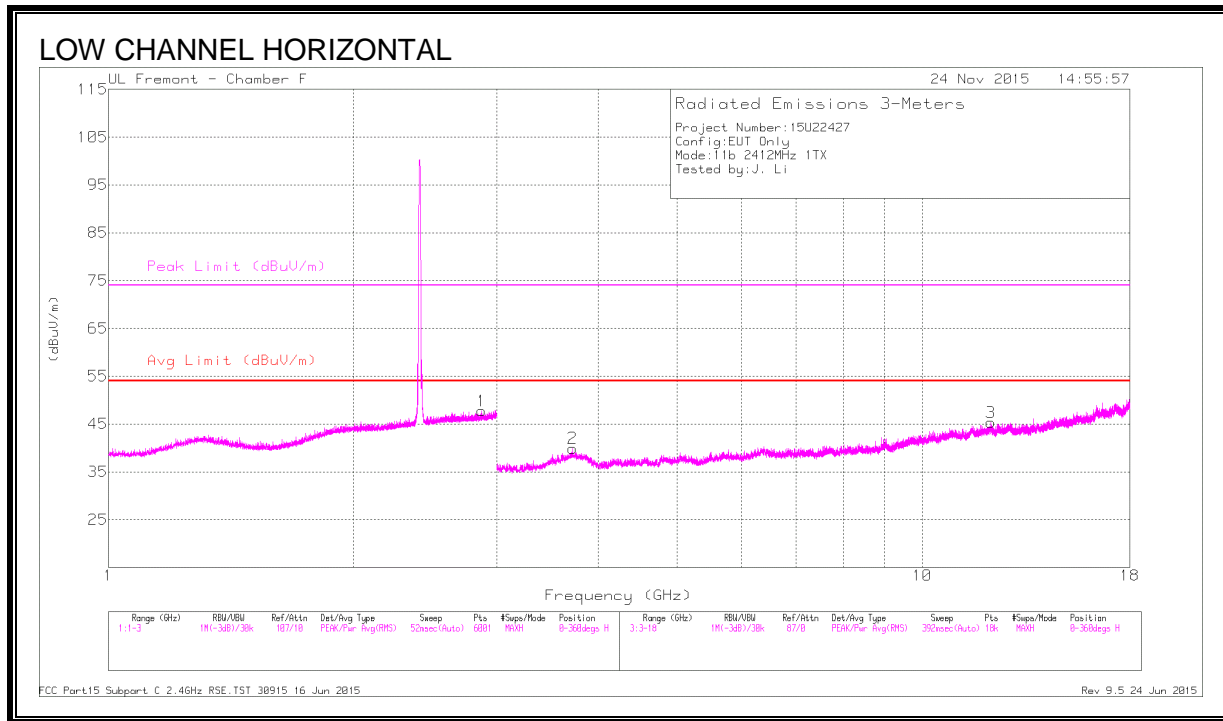
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.06	Pk	32.2	-20	57.26	-	-	74	-16.74	356	294	V
2	* 2.484	45.66	Pk	32.2	-20	57.86	-	-	74	-16.14	356	294	V
3	* 2.484	36.95	RMS	32.2	-20	49.15	54	-4.85	-	-	356	294	V
4	* 2.485	38.8	RMS	32.2	-20.1	50.9	54	-3.1	-	-	356	294	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1**



**DATA**

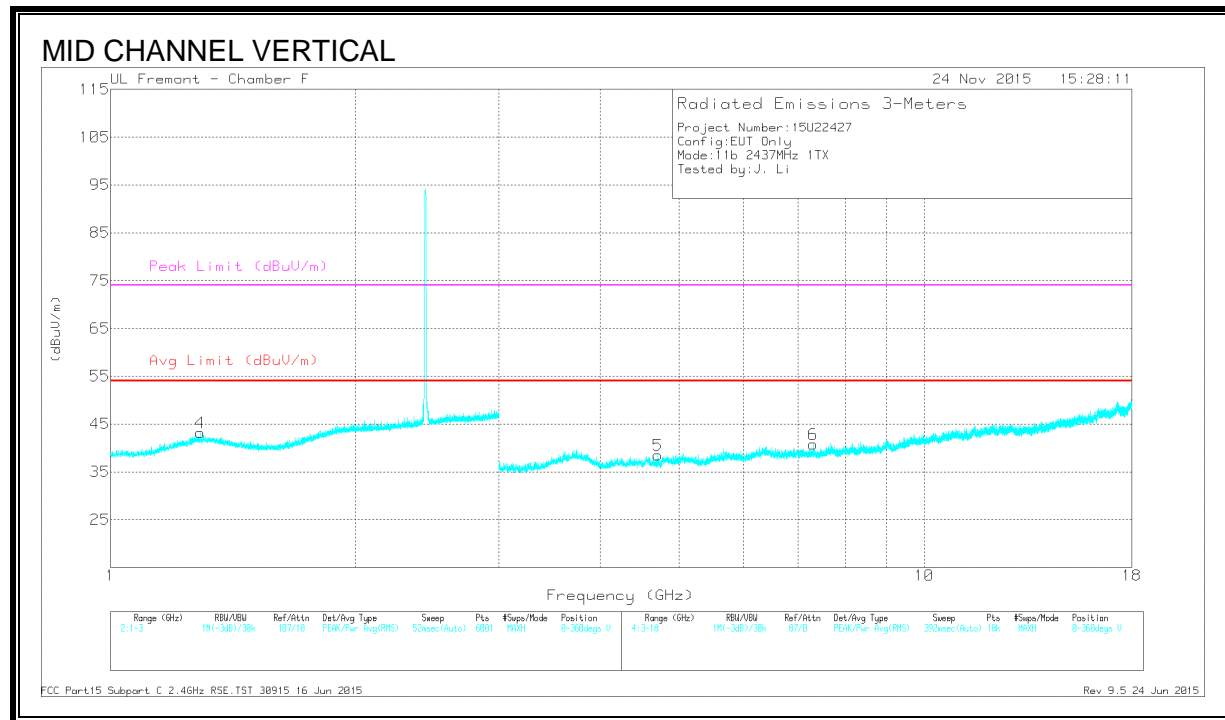
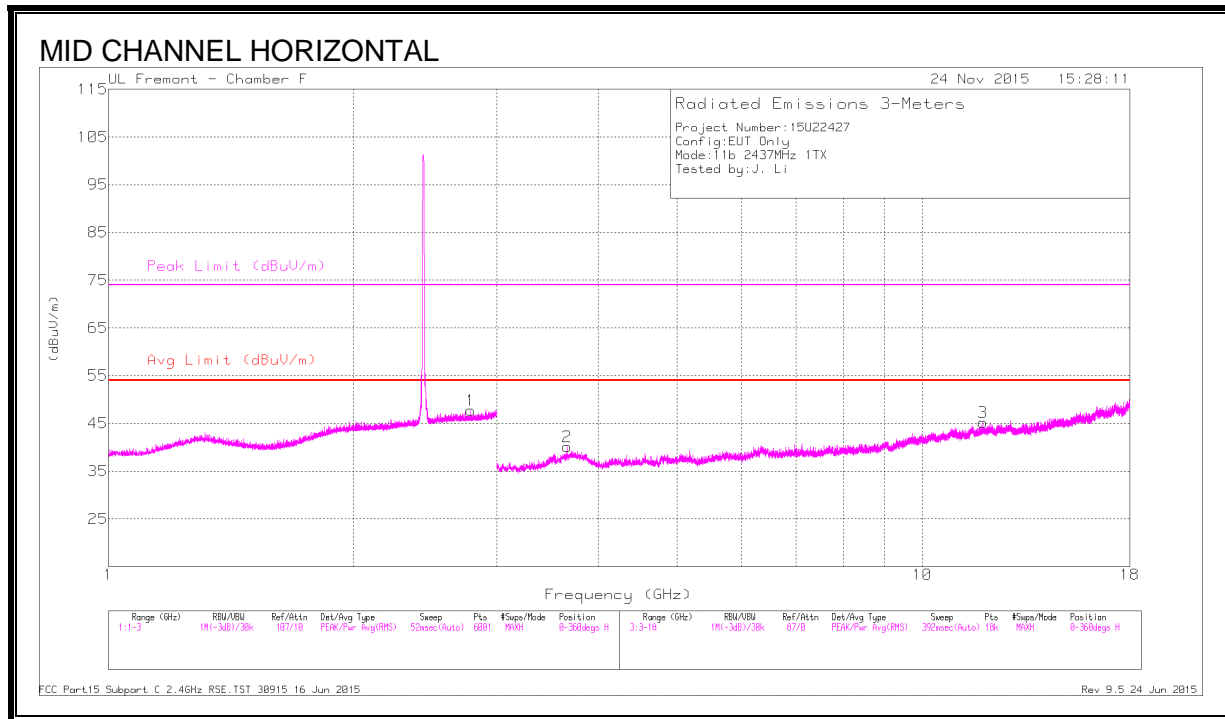
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.878	41.61	PK2	32.8	-20.5	53.91	-	-	74	-20.09	77	241	H
	* 2.878	30.19	MAv1	32.8	-20.5	42.49	54	-11.51	-	-	77	241	H
4	* 1.109	42.54	PK2	27.4	-22.8	47.14	-	-	74	-26.86	350	133	V
	* 1.111	30.82	MAv1	27.4	-22.8	35.42	54	-18.58	-	-	350	133	V
2	* 3.717	40.43	PK2	34.6	-29.4	45.63	-	-	74	-28.37	221	235	H
	* 3.718	28.18	MAv1	34.6	-29.4	33.38	54	-20.62	-	-	221	235	H
3	* 12.141	34.19	PK2	39.1	-21.9	51.39	-	-	74	-22.61	271	166	H
	* 12.139	23.34	MAv1	39.1	-21.9	40.54	54	-13.46	-	-	271	166	H
5	* 4.786	38.55	PK2	34.1	-28	44.65	-	-	74	-29.35	89	143	V
	* 4.787	27.94	MAv1	34.1	-28	34.04	54	-19.96	-	-	89	143	V
6	* 11.518	34.18	PK2	38.6	-21.2	51.58	-	-	74	-22.42	114	211	V
	* 11.517	23.05	MAv1	38.6	-21.2	40.45	54	-13.55	-	-	114	211	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6**



**DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 2.785	41.84	PK2	32.7	-20.6	53.94	-	-	74	-20.06	135	144	H
	* 2.785	30.14	MAv1	32.7	-20.6	42.24	54	-11.76	-	-	135	144	H
4	* 1.291	42.59	PK2	29.9	-22.2	50.29	-	-	74	-23.71	46	132	V
	* 1.289	30.57	MAv1	29.9	-22.3	38.17	54	-15.83	-	-	46	132	V
2	* 3.661	38.59	PK2	34.8	-29.4	43.99	-	-	74	-30.01	292	233	H
	* 3.664	27.67	MAv1	34.8	-29.4	33.07	54	-20.93	-	-	292	233	H
3	* 11.871	34.77	PK2	39	-22.2	51.57	-	-	74	-22.43	116	231	H
	* 11.873	23.47	MAv1	39	-22.2	40.27	54	-13.73	-	-	116	231	H
5	* 4.709	39.27	PK2	34	-28.7	44.57	-	-	74	-29.43	72	198	V
	* 4.71	28.14	MAv1	34	-28.7	33.44	54	-20.56	-	-	72	198	V
6	* 7.3	37.88	PK2	35.7	-26.7	46.88	-	-	74	-27.12	200	178	V
	* 7.302	26.44	MAv1	35.7	-26.7	35.44	54	-18.56	-	-	200	178	V

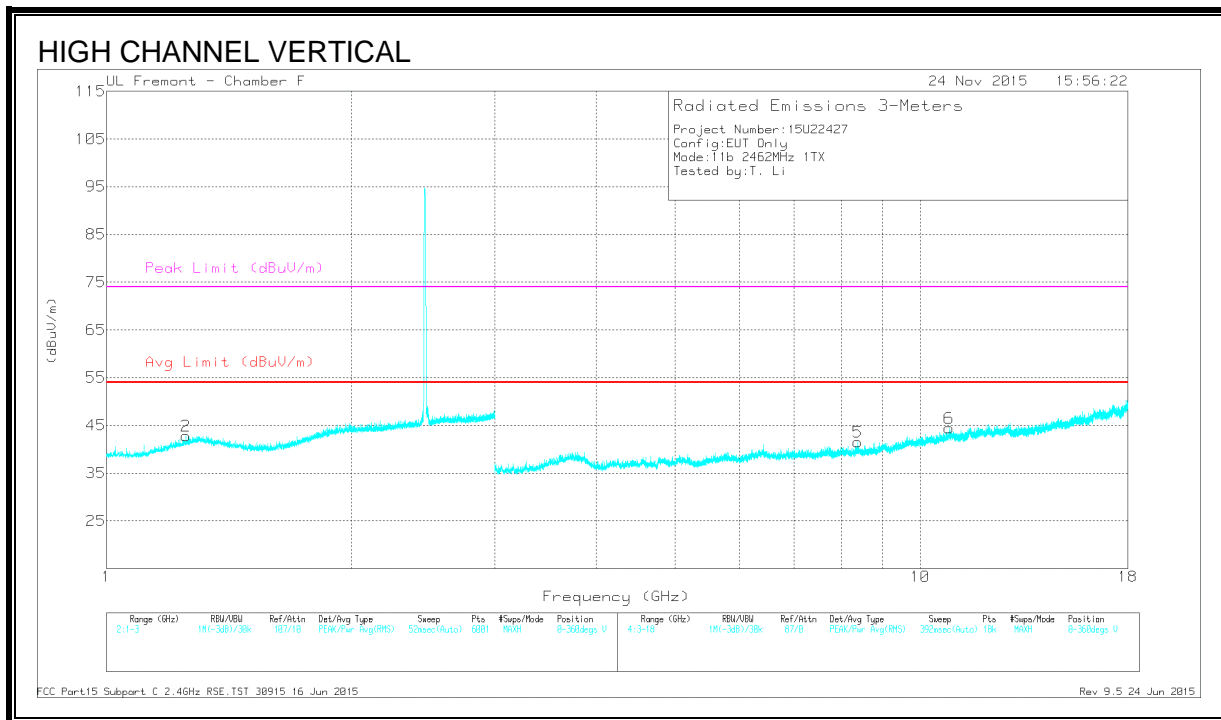
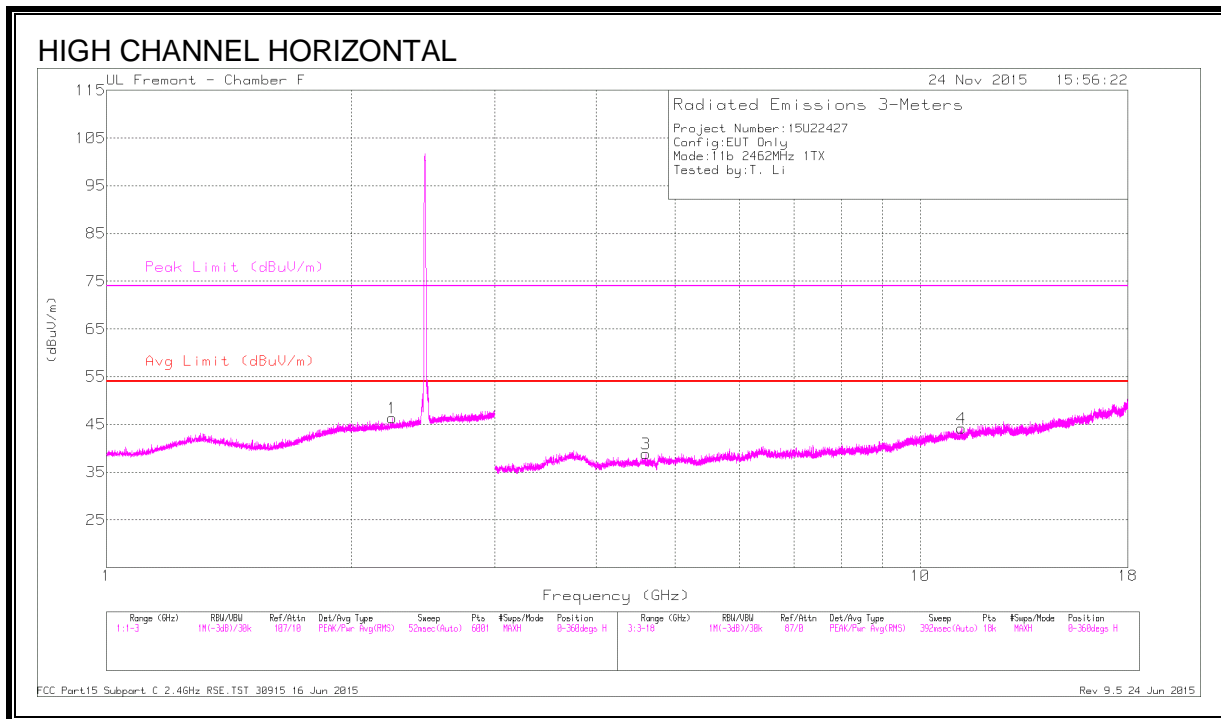
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average



**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 11**



**DATA**

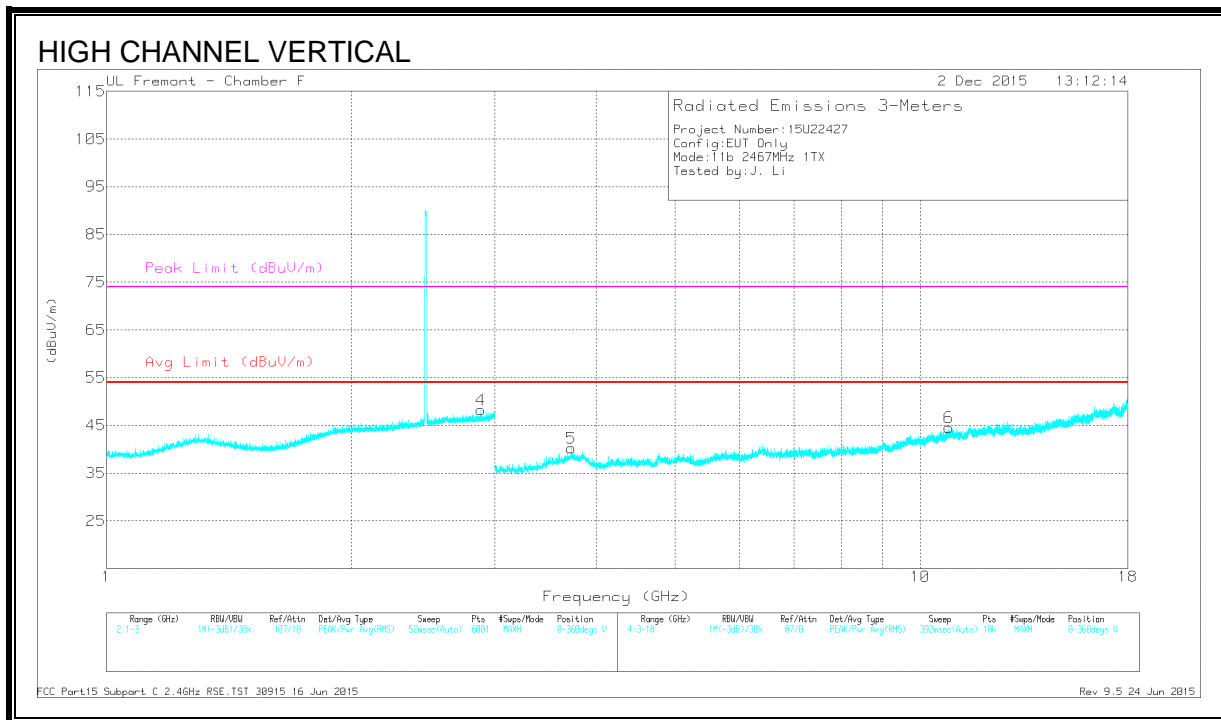
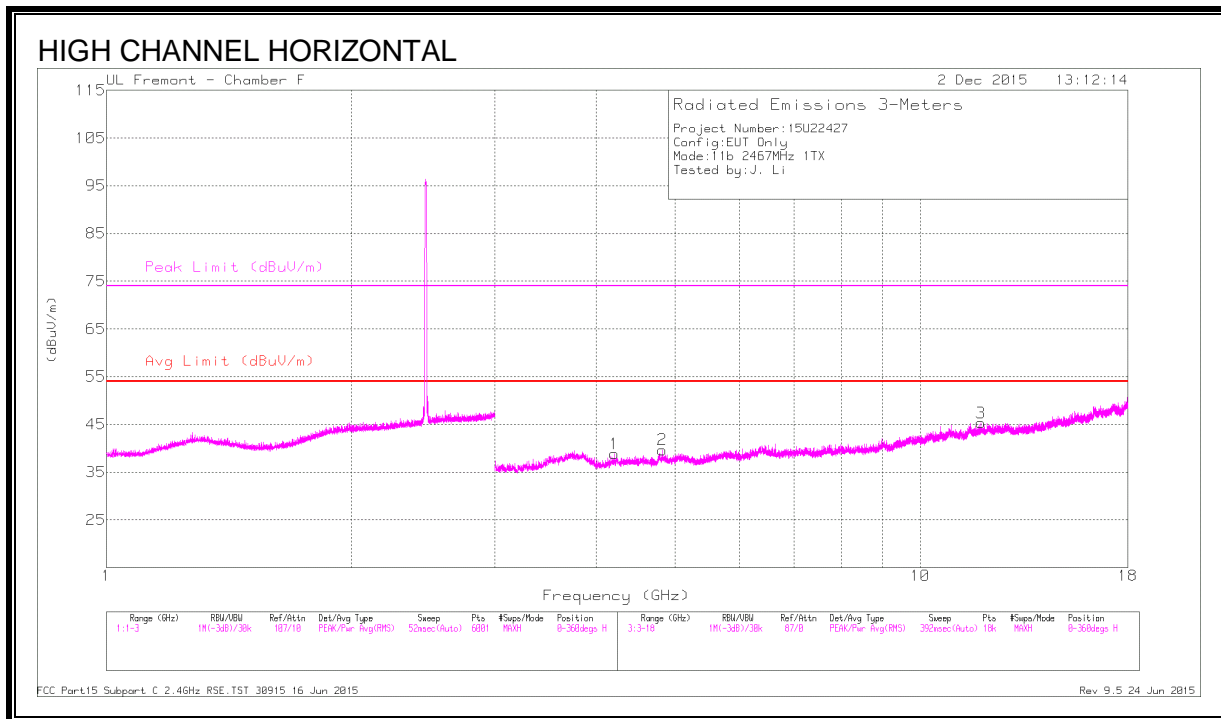
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.244	42.01	PK2	31.6	-21.1	52.51	-	-	74	-21.49	129	250	H
	* 2.242	30.24	MAv1	31.6	-21.1	40.74	54	-13.26	-	-	129	250	H
2	* 1.255	41.96	PK2	29.5	-22.3	49.16	-	-	74	-24.84	159	302	V
	* 1.255	30.73	MAv1	29.5	-22.3	37.93	54	-16.07	-	-	159	302	V
3	* 4.602	38.65	PK2	34	-27.9	44.75	-	-	74	-29.25	277	193	H
	* 4.602	27.21	MAv1	34	-27.9	33.31	54	-20.69	-	-	277	193	H
4	* 11.245	33.97	PK2	38.2	-21.6	50.57	-	-	74	-23.43	107	132	H
	* 11.247	22.88	MAv1	38.2	-21.7	39.38	54	-14.62	-	-	107	132	H
5	* 8.375	36.15	PK2	35.8	-24.2	47.75	-	-	74	-26.25	239	317	V
	* 8.376	24.6	MAv1	35.8	-24.2	36.2	54	-17.8	-	-	239	317	V
6	* 10.854	34.51	PK2	38.1	-21.7	50.91	-	-	74	-23.09	340	309	V
	* 10.854	22.96	MAv1	38.1	-21.7	39.36	54	-14.64	-	-	340	309	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 12**



**DATA**

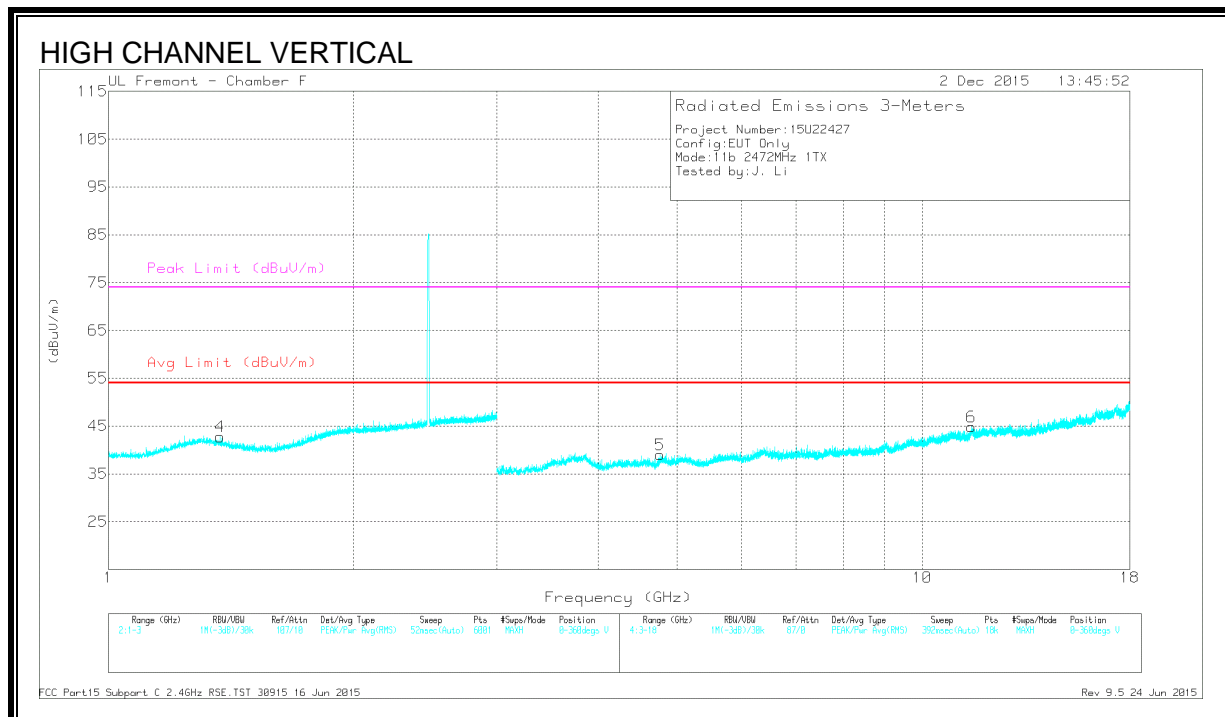
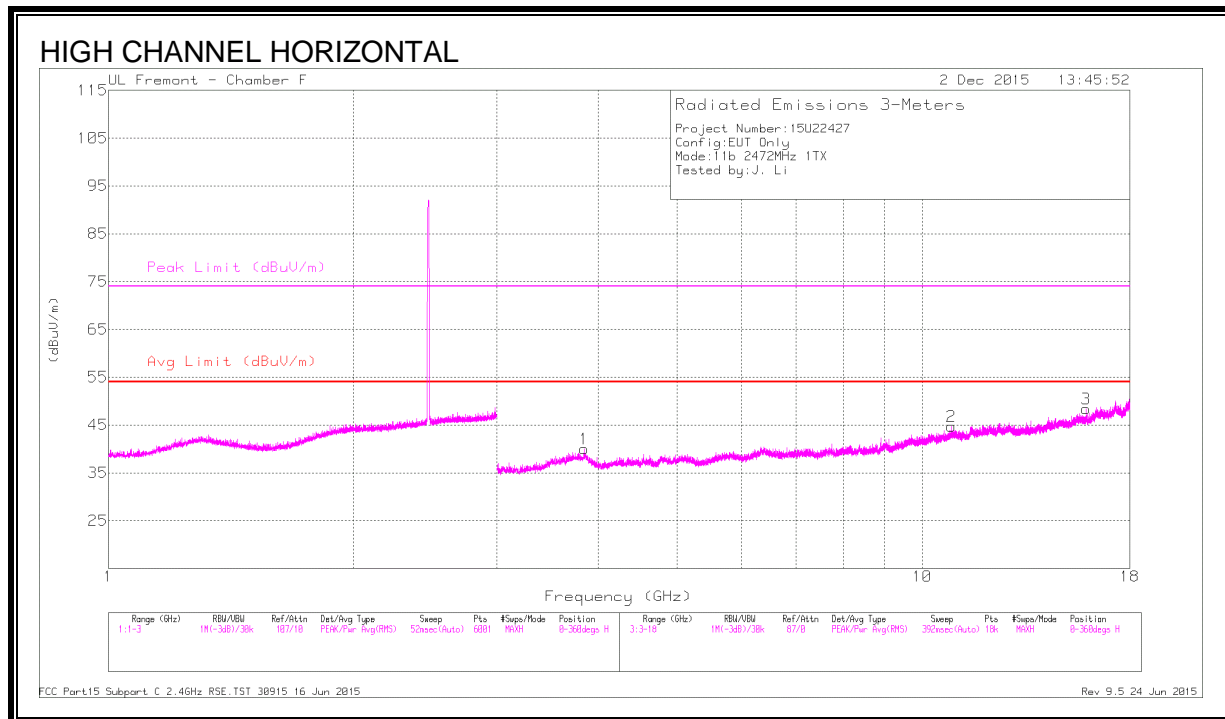
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.888	41.61	PK2	32.8	-20.5	53.91	-	-	74	-20.09	67	199	V
	* 2.886	30.18	MAv1	32.8	-20.5	42.48	54	-11.52	-	-	67	199	V
1	* 4.21	38.29	PK2	33.6	-28.2	43.69	-	-	74	-30.31	323	254	H
	* 4.21	26.83	MAv1	33.6	-28.2	32.23	54	-21.77	-	-	323	254	H
2	* 4.824	37.76	PK2	34.1	-27.3	44.56	-	-	74	-29.44	287	162	H
	* 4.822	27.04	MAv1	34.1	-27.3	33.84	54	-20.16	-	-	287	162	H
3	* 11.868	34.27	PK2	39	-22.2	51.07	-	-	74	-22.93	183	361	H
	* 11.871	23.73	MAv1	39	-22.2	40.53	54	-13.47	-	-	183	361	H
5	* 3.723	39.06	PK2	34.6	-29.4	44.26	-	-	74	-29.74	276	194	V
	* 3.724	28.18	MAv1	34.6	-29.4	33.38	54	-20.62	-	-	276	194	V
6	* 10.85	34.34	PK2	38.1	-21.8	50.64	-	-	74	-23.36	222	233	V
	* 10.852	23.07	MAv1	38.1	-21.7	39.47	54	-14.53	-	-	222	233	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13**



**DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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
4	* 1.373	42.09	PK2	29.3	-22.1	49.29	-	-	74	-24.71	110	299	V
	* 1.371	30.46	MAv1	29.4	-22.1	37.76	54	-16.24	-	-	110	299	V
1	* 3.845	38.74	PK2	34	-28.3	44.44	-	-	74	-29.56	231	124	H
	* 3.846	27.65	MAv1	34	-28.2	33.45	54	-20.55	-	-	231	124	H
2	* 10.867	34.32	PK2	38.1	-21.7	50.72	-	-	74	-23.28	38	130	H
	* 10.867	23.17	MAv1	38.1	-21.7	39.57	54	-14.43	-	-	38	130	H
3	* 15.915	35.5	PK2	40.6	-22.2	53.9	-	-	74	-20.1	280	171	H
	* 15.915	24.66	MAv1	40.6	-22.2	43.06	54	-10.94	-	-	280	171	H
5	* 4.764	38.75	PK2	34.1	-28.2	44.65	-	-	74	-29.35	332	260	V
	* 4.764	27.86	MAv1	34.1	-28.2	33.76	54	-20.24	-	-	332	260	V
6	* 11.5	33.96	PK2	38.6	-21.3	51.26	-	-	74	-22.74	173	189	V
	* 11.497	23.12	MAv1	38.6	-21.3	40.42	54	-13.58	-	-	173	189	V

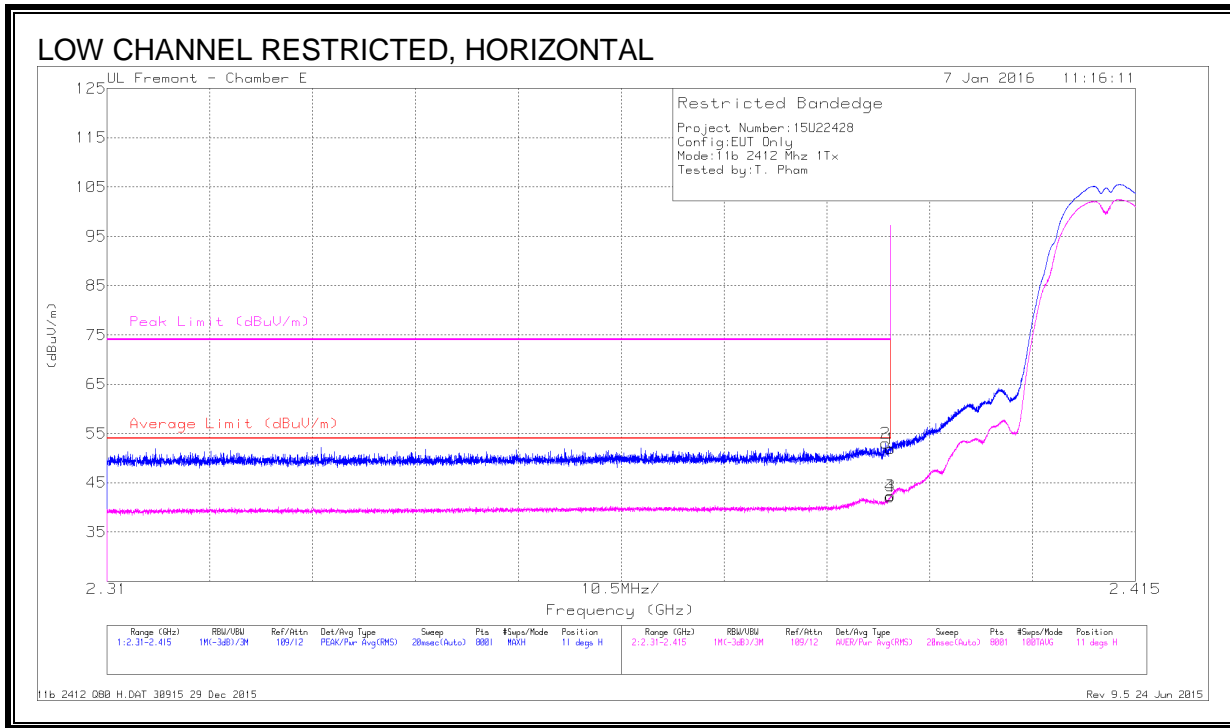
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

### 9.2.2. 802.11b 1Tx MODE IN THE 2.4 GHz BAND (ANTENNA A)

#### RESTRICTED BANDEDGE (LOW CHANNEL, CH 1)



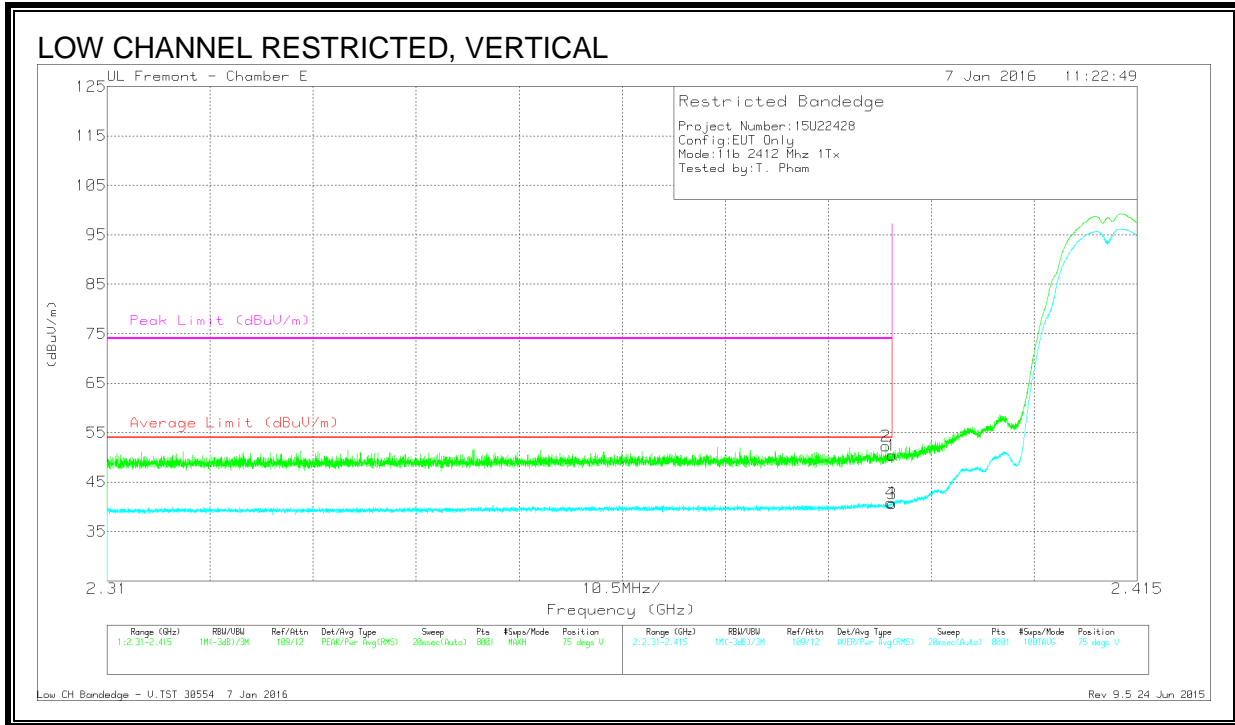
#### Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.39	39.66	Pk	32.1	-19.9	51.86	-	-	74	-22.14	11	200	H
2	* 2.39	40.85	Pk	32.1	-19.9	53.05	-	-	74	-20.95	11	200	H
3	* 2.39	30.15	RMS	32.1	-19.9	42.35	54	-11.65	-	-	11	200	H
4	* 2.39	29.96	RMS	32.1	-19.9	42.16	54	-11.84	-	-	11	200	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.39	38.17	Pk	32.1	-19.9	50.37	-	-	74	-23.63	75	379	V
2	* 2.389	40.09	Pk	32.1	-19.9	52.29	-	-	74	-21.71	75	379	V
3	* 2.39	28.41	RMS	32.1	-19.9	40.61	54	-13.39	-	-	75	379	V
4	* 2.39	28.63	RMS	32.1	-19.9	40.83	54	-13.17	-	-	75	379	V

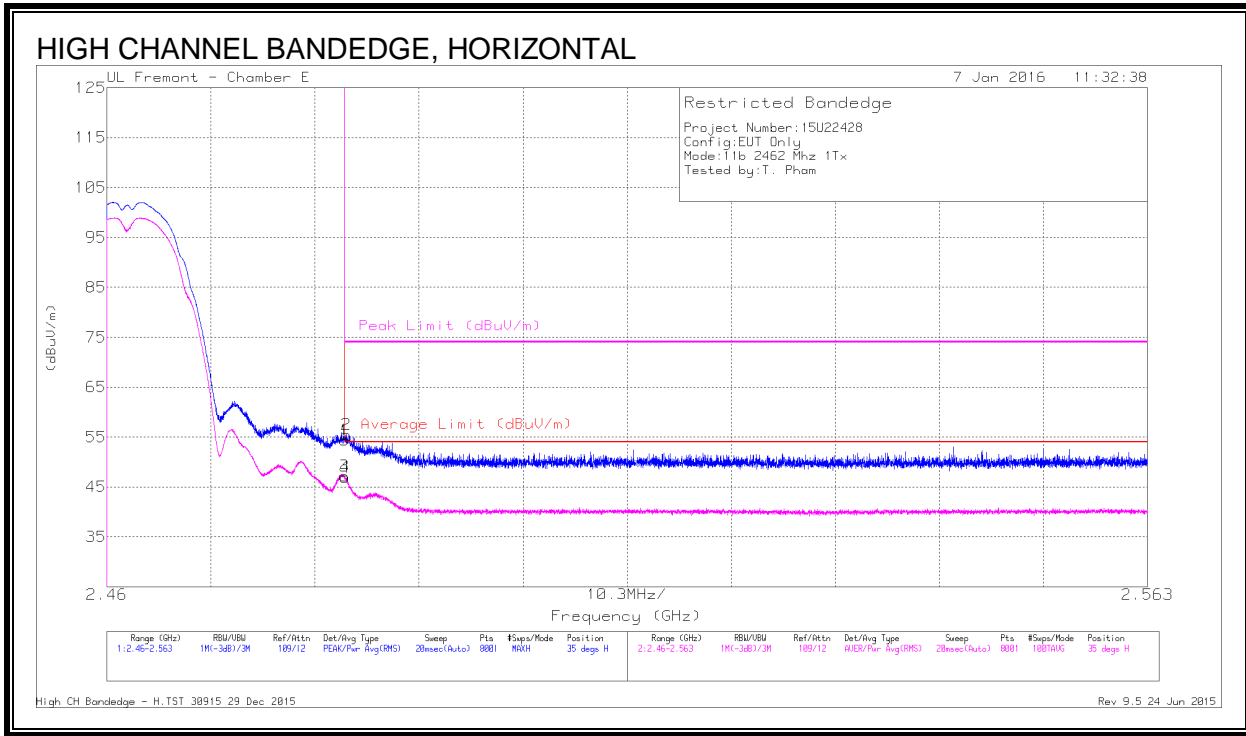
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**AUTHORIZED BANDEGE (HIGH CHANNEL, CH 11)**



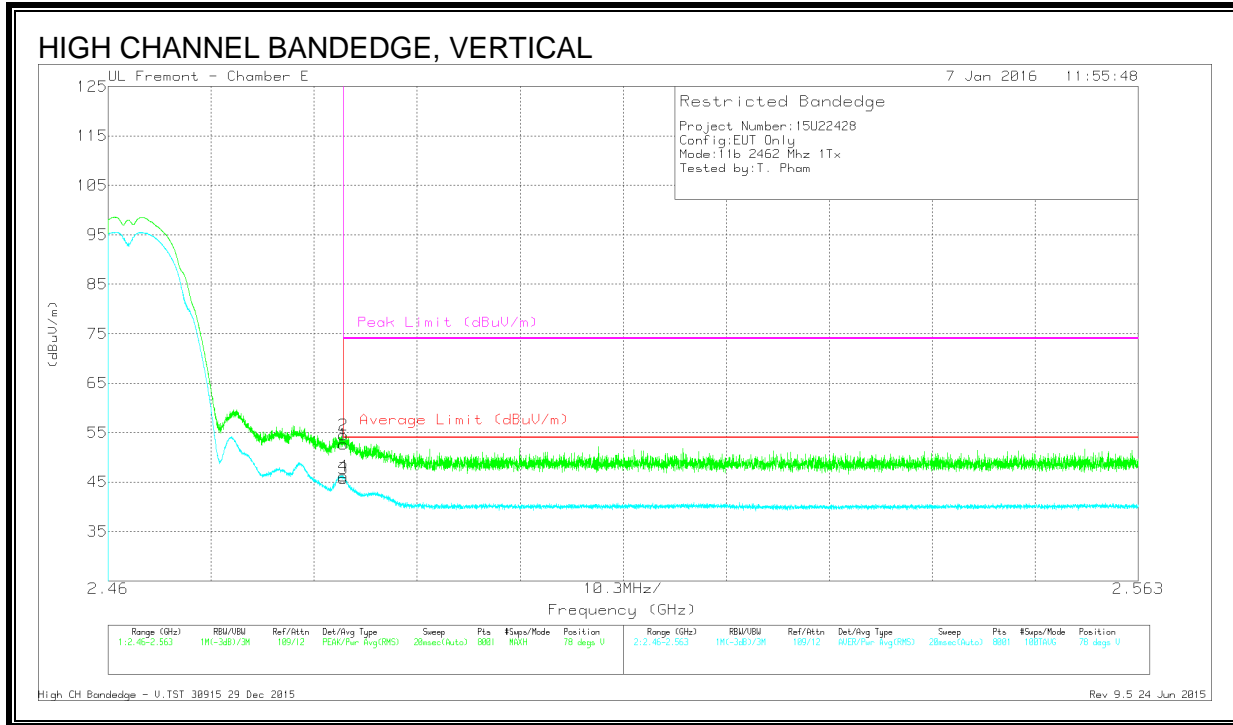
**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Ftr/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	42.18	Pk	32.2	-20	54.38	-	-	74	-19.62	35	309	H
2	* 2.484	43.35	Pk	32.2	-20	55.55	-	-	74	-18.45	35	309	H
3	* 2.484	34.95	RMS	32.2	-20	47.15	54	-6.85	-	-	35	309	H
4	* 2.484	34.75	RMS	32.2	-20	46.95	54	-7.05	-	-	35	309	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

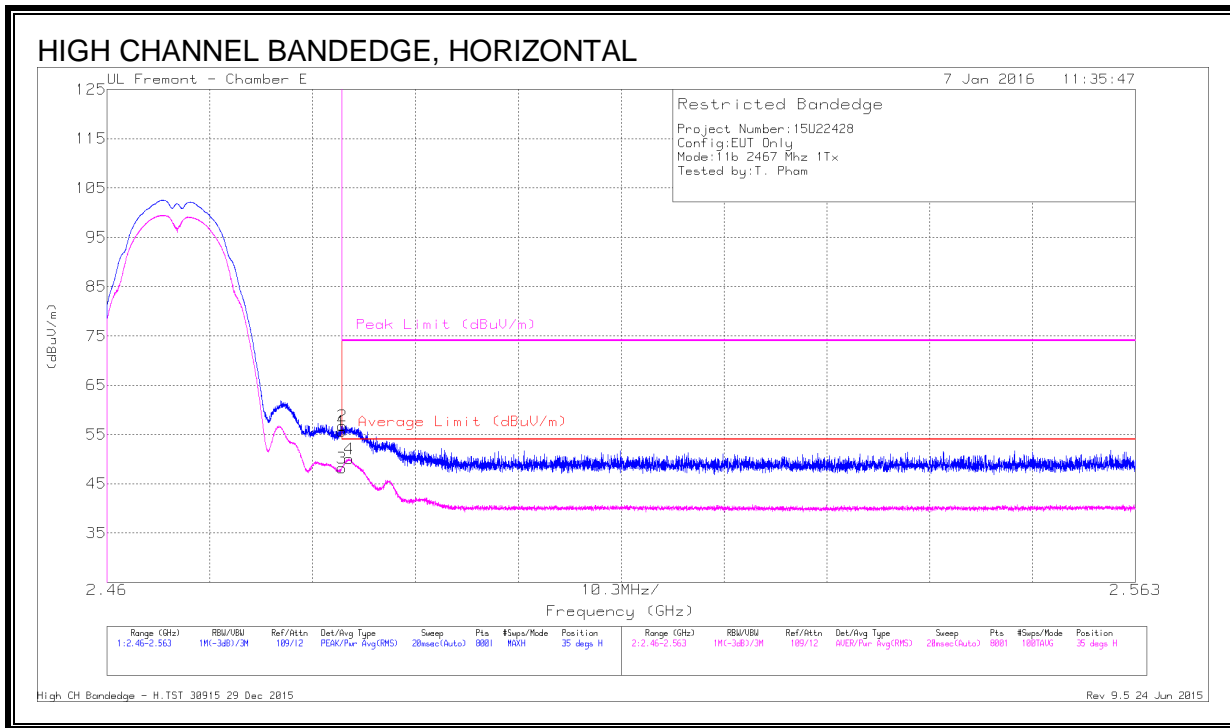
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.46	Pk	32.2	-20	52.66	-	-	74	-21.34	78	163	V
2	* 2.484	42.27	Pk	32.2	-20	54.47	-	-	74	-19.53	78	163	V
3	* 2.484	33.55	RMS	32.2	-20	45.75	54	-8.25	-	-	78	163	V
4	* 2.484	34.04	RMS	32.2	-20	46.24	54	-7.76	-	-	78	163	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEGE (HIGH CHANNEL, CH 12)**



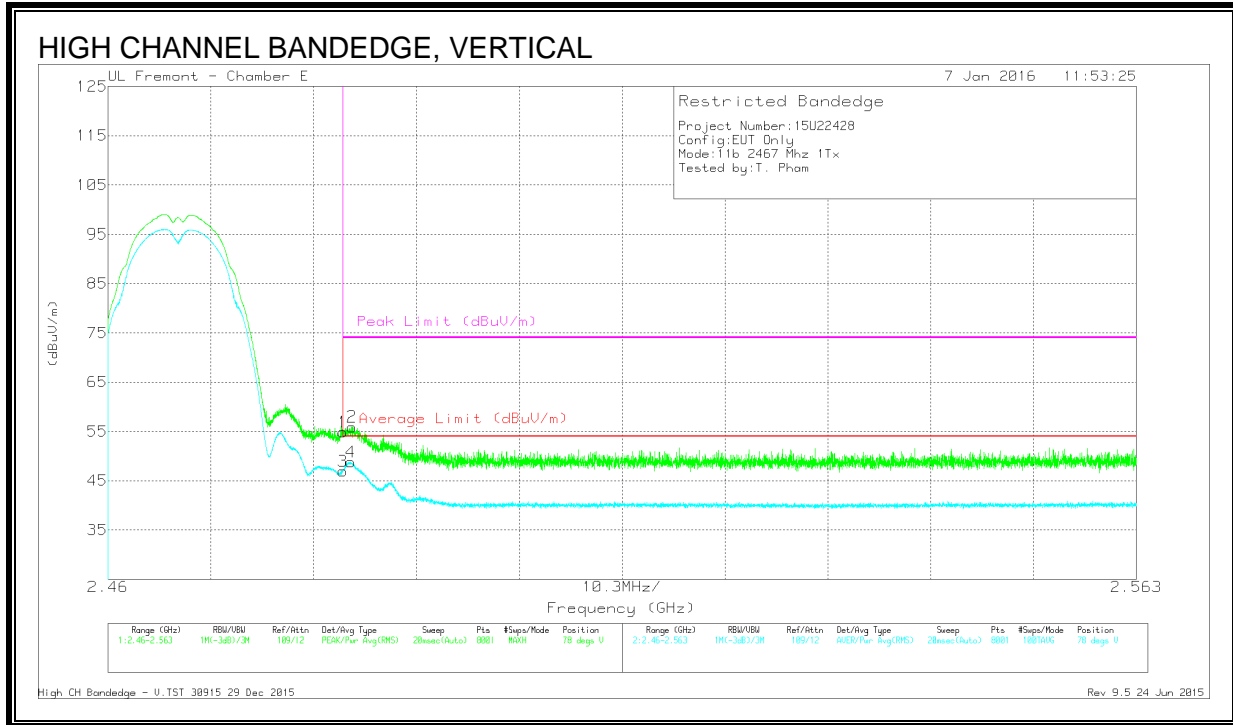
**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	43.39	Pk	32.2	-20	55.59	-	-	74	-18.41	35	309	H
2	* 2.484	44.54	Pk	32.2	-20	56.74	-	-	74	-17.26	35	309	H
3	* 2.484	35.93	RMS	32.2	-20	48.13	54	-5.87	-	-	35	309	H
4	* 2.484	37.83	RMS	32.2	-20	50.03	54	-3.97	-	-	35	309	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

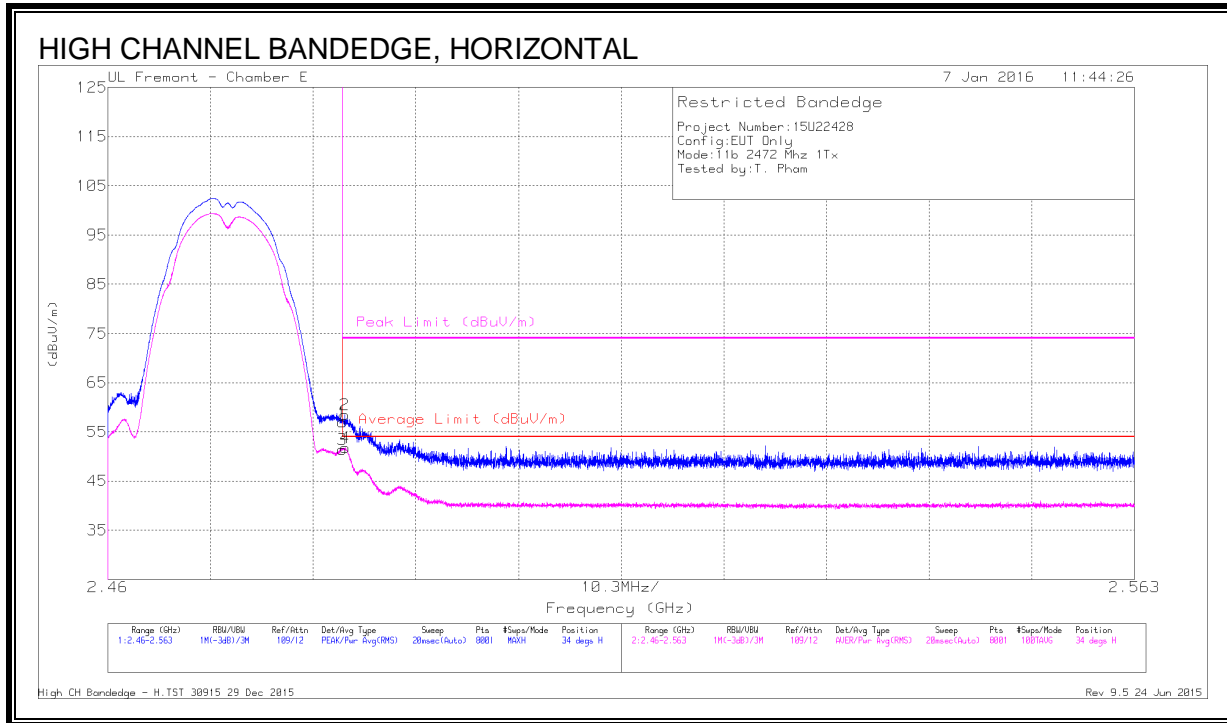
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.7	Pk	32.2	-20	54.9	-	-	74	-19.1	78	163	V
2	* 2.484	43.74	Pk	32.2	-20	55.94	-	-	74	-18.06	78	163	V
3	* 2.484	34.73	RMS	32.2	-20	46.93	54	-7.07	-	-	78	163	V
4	* 2.484	36.55	RMS	32.2	-20	48.75	54	-5.25	-	-	78	163	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEGE (HIGH CHANNEL, CH 13)**



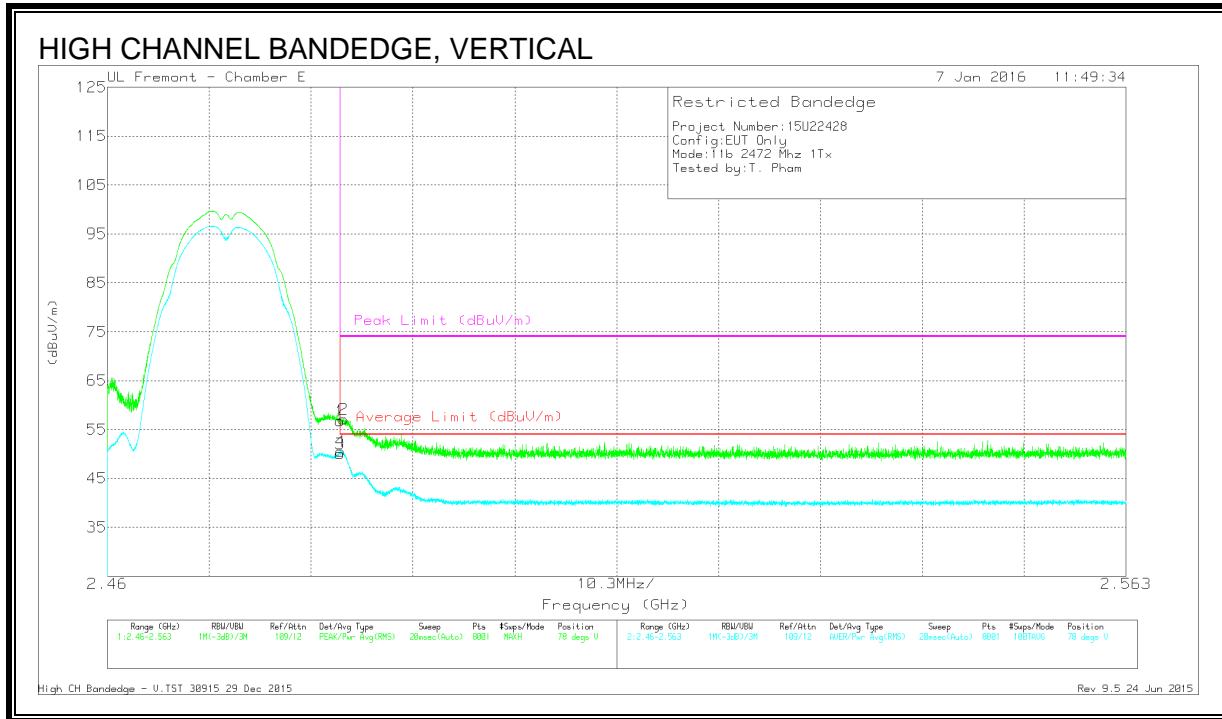
**Data**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.484	44.77	Pk	32.2	-20	56.97	-	-	74	-17.03	34	309	H
2	* 2.484	46.28	Pk	32.2	-20	58.48	-	-	74	-15.52	34	309	H
3	* 2.484	39.25	RMS	32.2	-20	51.45	54	-2.55	-	-	34	309	H
4	* 2.484	39.54	RMS	32.2	-20	51.74	54	-2.26	-	-	34	309	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection



**Data**

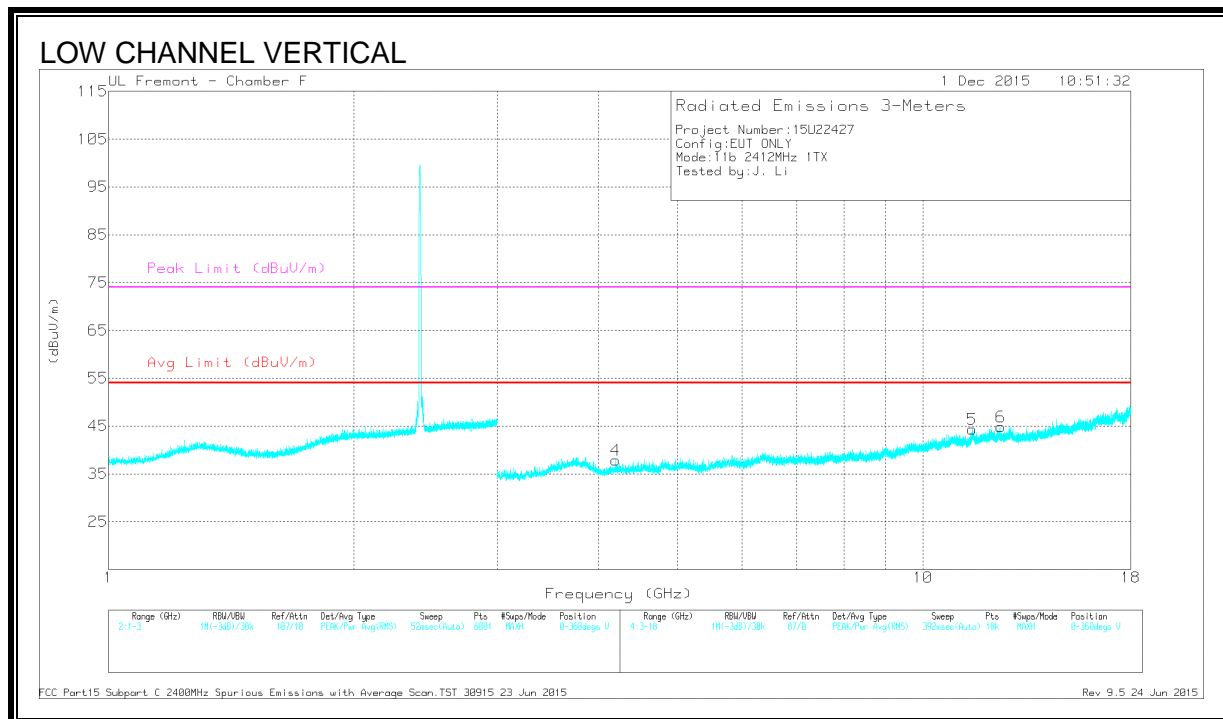
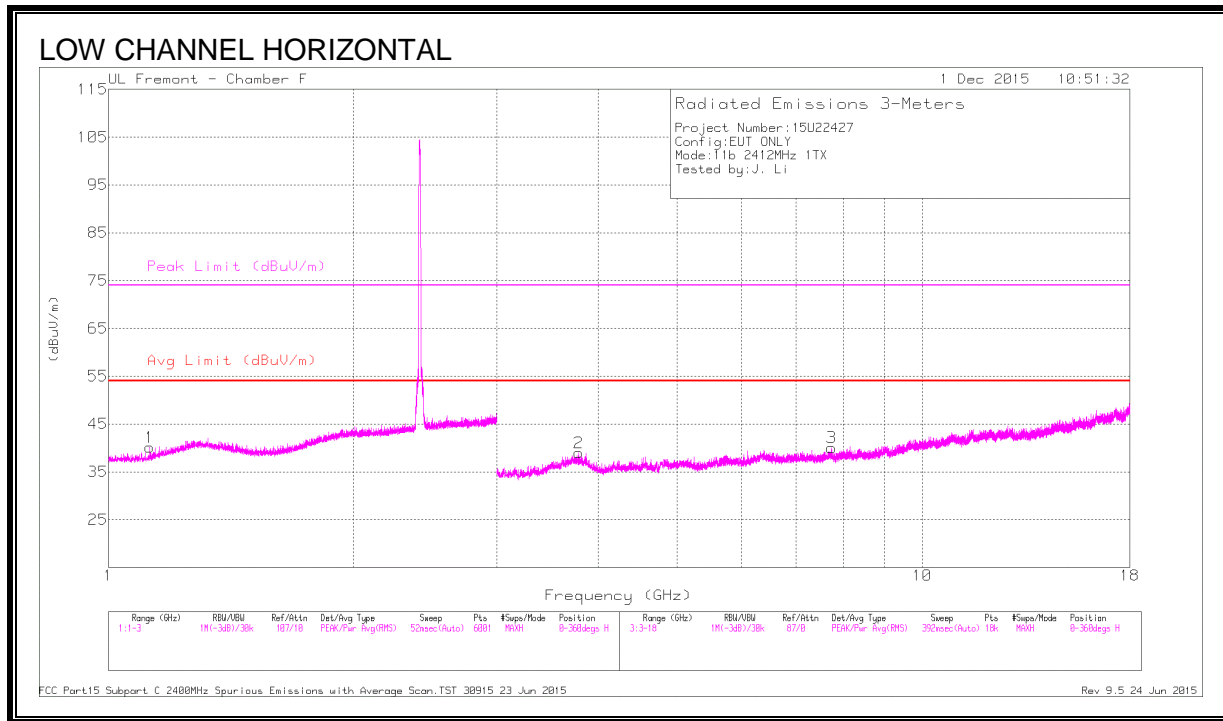
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.54	Pk	32.2	-20	56.74	-	-	74	-17.26	78	163	V
2	* 2.484	44.92	Pk	32.2	-20	57.12	-	-	74	-16.88	78	163	V
3	* 2.484	37.84	RMS	32.2	-20	50.04	54	-3.96	-	-	78	163	V
4	* 2.484	38.32	RMS	32.2	-20	50.52	54	-3.48	-	-	78	163	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1**



**DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 1.125	42.23	PK2	27.6	-22.7	47.13	-	-	74	-26.87	147	256	H
	* 1.126	30.65	MAv1	27.6	-22.7	35.55	54	-18.45	-	-	147	256	H
2	* 3.78	39	PK2	34.3	-29	44.3	-	-	74	-29.7	215	154	H
	* 3.781	27.92	MAv1	34.2	-29	33.12	54	-20.88	-	-	215	154	H
3	* 7.739	37.03	PK2	35.7	-25.5	47.23	-	-	74	-26.77	227	166	H
	* 7.739	25.66	MAv1	35.7	-25.5	35.86	54	-18.14	-	-	227	166	H
4	* 4.198	38.26	PK2	33.6	-28.2	43.66	-	-	74	-30.34	109	272	V
	* 4.198	27.11	MAv1	33.6	-28.2	32.51	54	-21.49	-	-	109	272	V
5	* 11.497	34.24	PK2	38.6	-21.3	51.54	-	-	74	-22.46	63	211	V
	* 11.5	23.04	MAv1	38.6	-21.3	40.34	54	-13.66	-	-	63	211	V
6	* 12.471	34.99	PK2	39.2	-22.7	51.49	-	-	74	-22.51	303	122	V
	* 12.471	24	MAv1	39.2	-22.7	40.5	54	-13.5	-	-	303	122	V

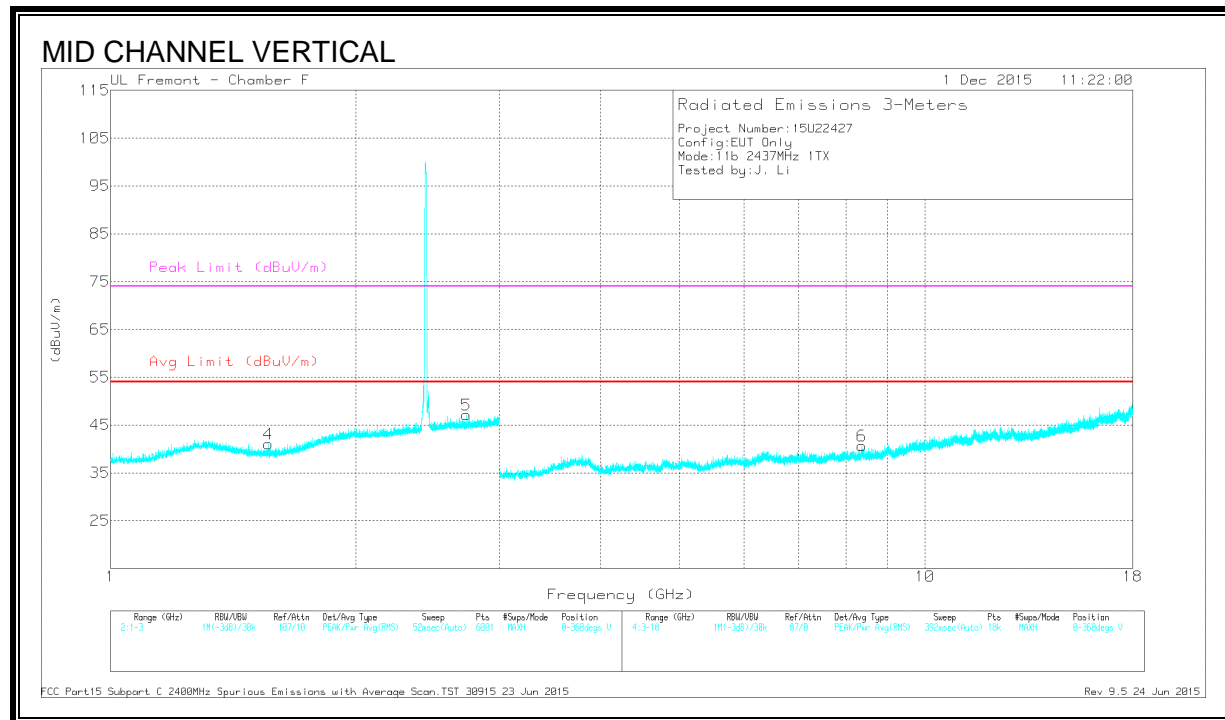
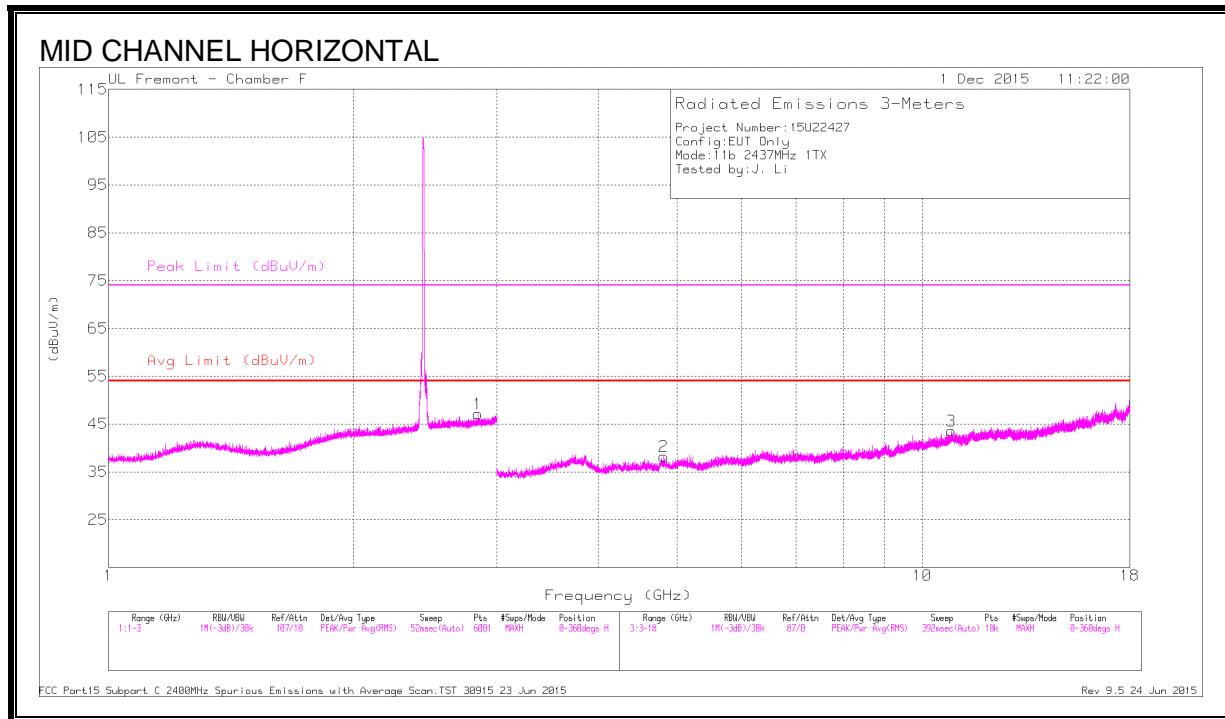
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average



**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6**



**DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	* 2.844	42.86	PK2	32.7	-20.4	55.16	-	-	74	-18.84	222	144	H
	* 2.845	30.29	MAv1	32.7	-20.5	42.49	54	-11.51	-	-	222	144	H
4	* 1.562	42.02	PK2	28.2	-22.1	48.12	-	-	74	-25.88	135	281	V
	* 1.565	30.43	MAv1	28.2	-22.1	36.53	54	-17.47	-	-	135	281	V
5	* 2.735	42.12	PK2	32.7	-20.7	54.12	-	-	74	-19.88	197	255	V
	* 2.734	30.21	MAv1	32.7	-20.7	42.21	54	-11.79	-	-	197	255	V
2	* 4.811	38.07	PK2	34.1	-27.5	44.67	-	-	74	-29.33	110	186	H
	* 4.811	27.03	MAv1	34.1	-27.5	33.63	54	-20.37	-	-	110	186	H
3	* 10.858	34.29	PK2	38.1	-21.7	50.69	-	-	74	-23.31	296	232	H
	* 10.857	23.03	MAv1	38.1	-21.7	39.43	54	-14.57	-	-	296	232	H
6	* 8.36	35.92	PK2	35.8	-24.4	47.32	-	-	74	-26.68	283	180	V
	* 8.36	24.86	MAv1	35.8	-24.4	36.26	54	-17.74	-	-	283	180	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average