8.6. 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND, CHAIN 1

8.6.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-247 (5.2) (1)

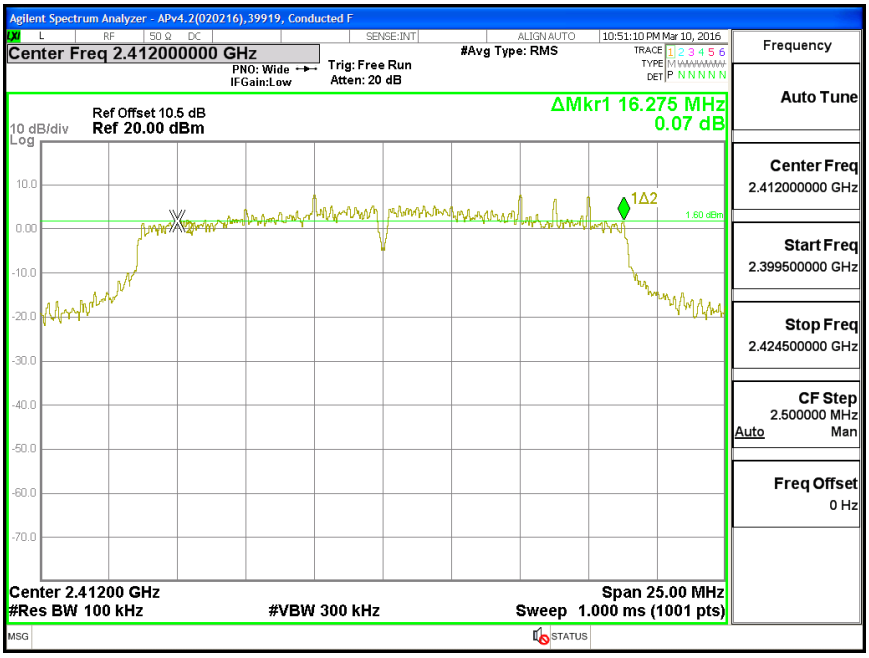
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

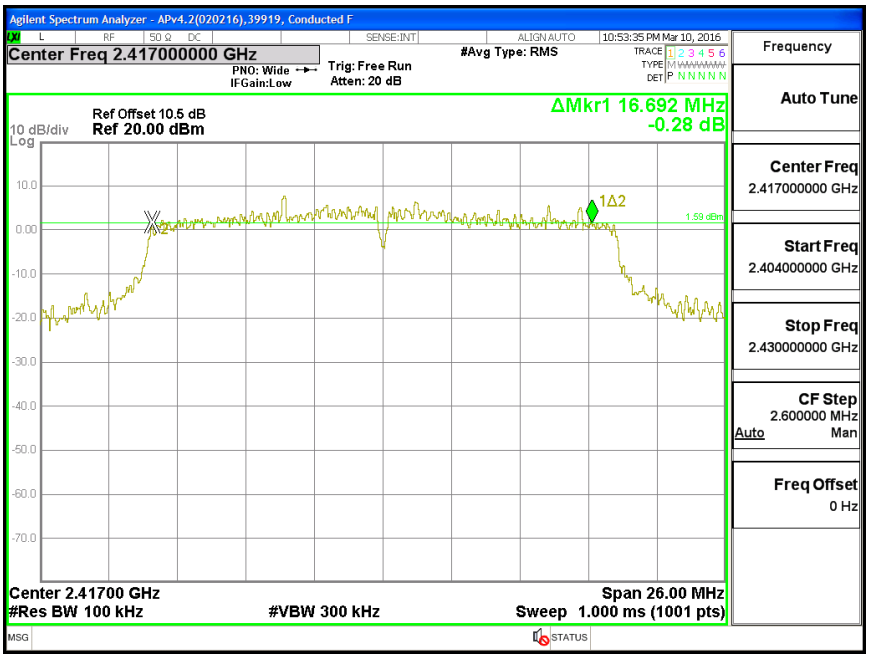
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low_1	2412	16.275	0.5
Low_2	2417	16.692	0.5
Mid_6	2437	17.577	0.5
High_10	2457	15.912	0.5
High_11	2462	16.025	0.5
High_12	2467	17.316	0.5
High_13	2472	16.075	0.5

6 dB BANDWIDTH

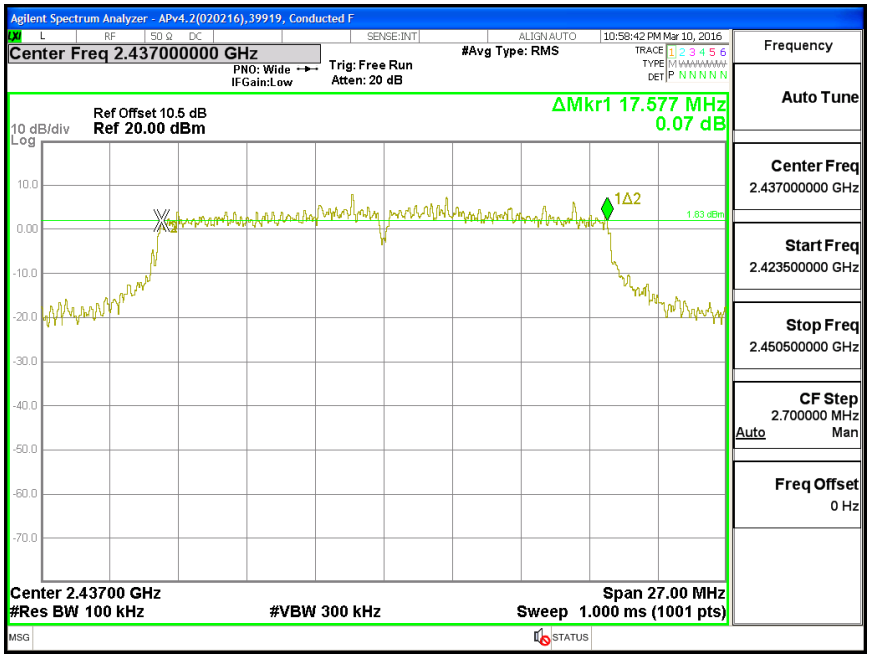
6 dB BANDWIDTH LOW CH 1



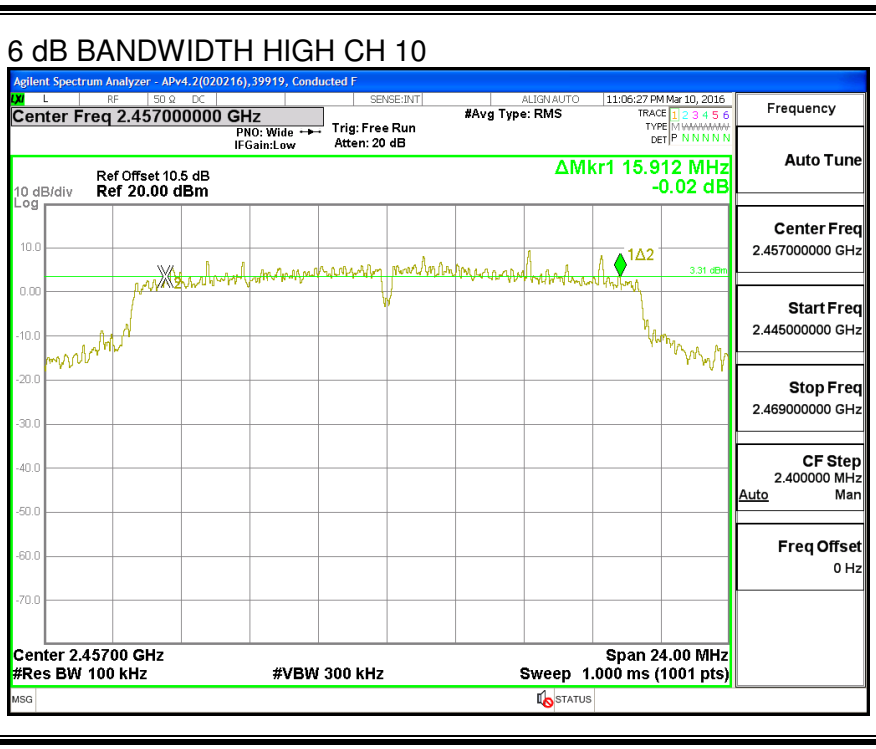
6 dB BANDWIDTH LOW CH 2



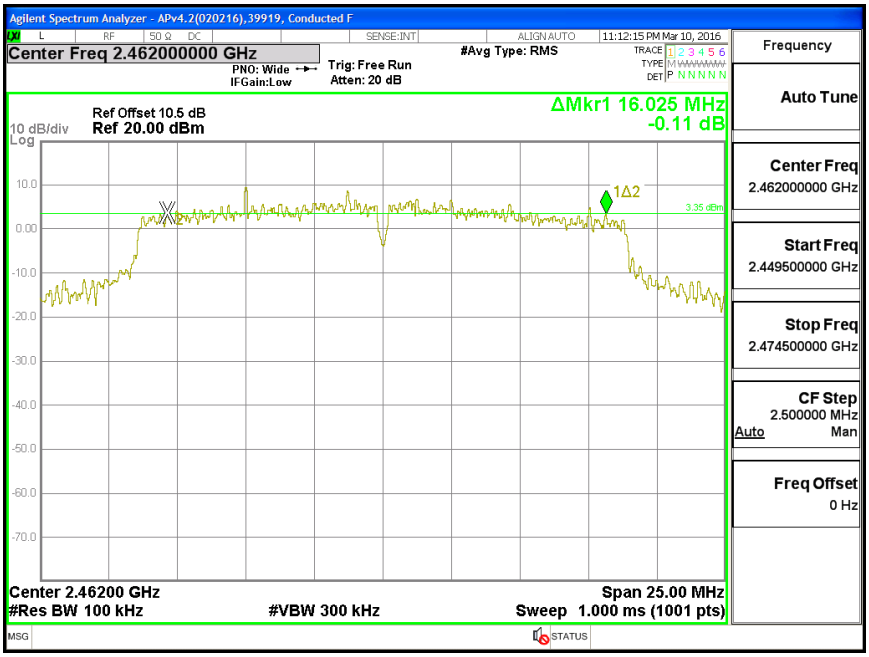
6 dB BANDWIDTH MID CH



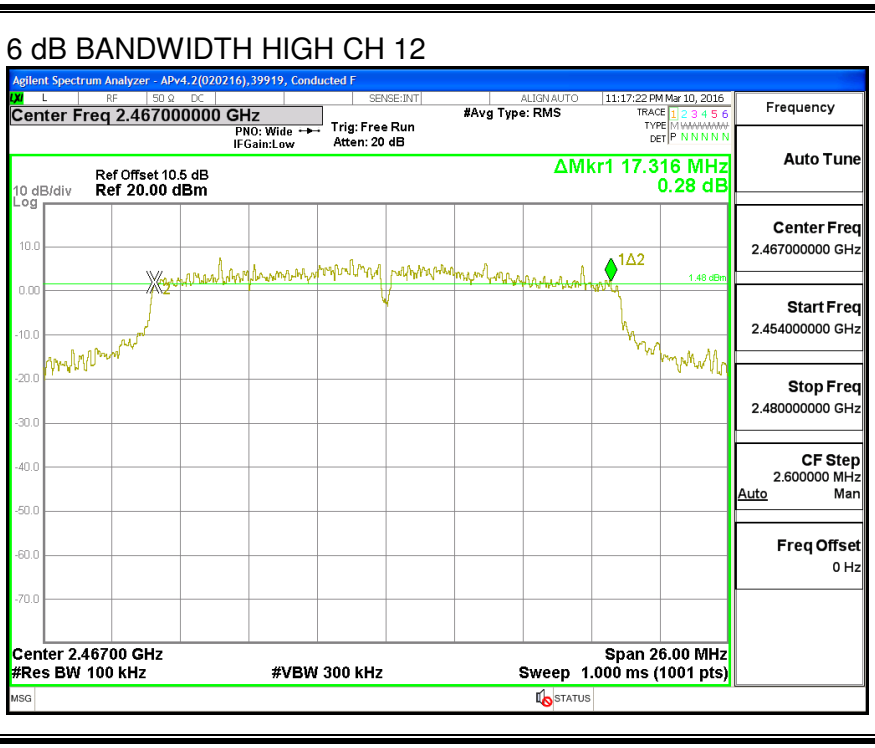
6 dB BANDWIDTH HIGH CH 10



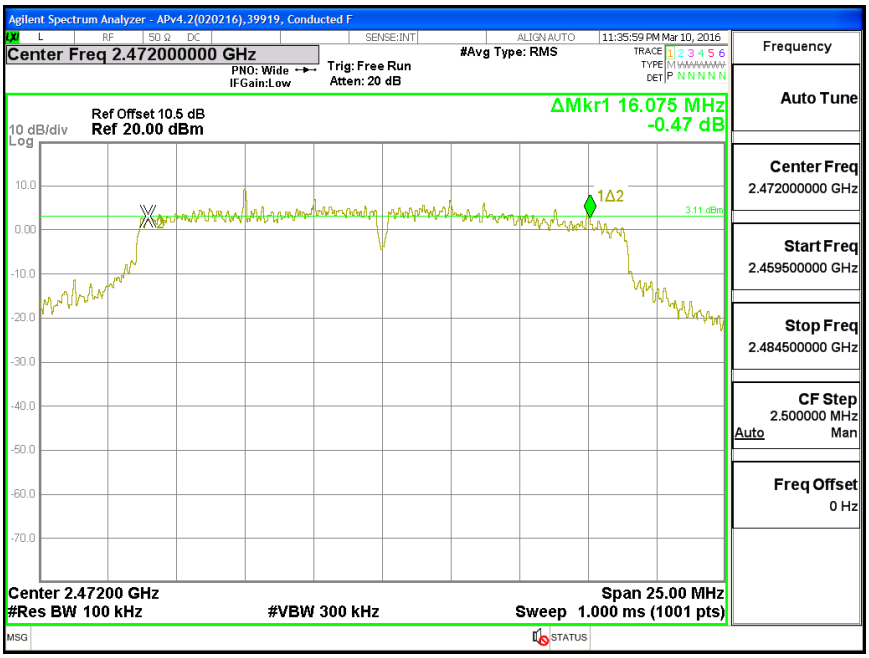
6 dB BANDWIDTH HIGH CH 11



6 dB BANDWIDTH HIGH CH 12



6 dB BANDWIDTH HIGH CH 13



8.6.2. 99% BANDWIDTH

LIMITS

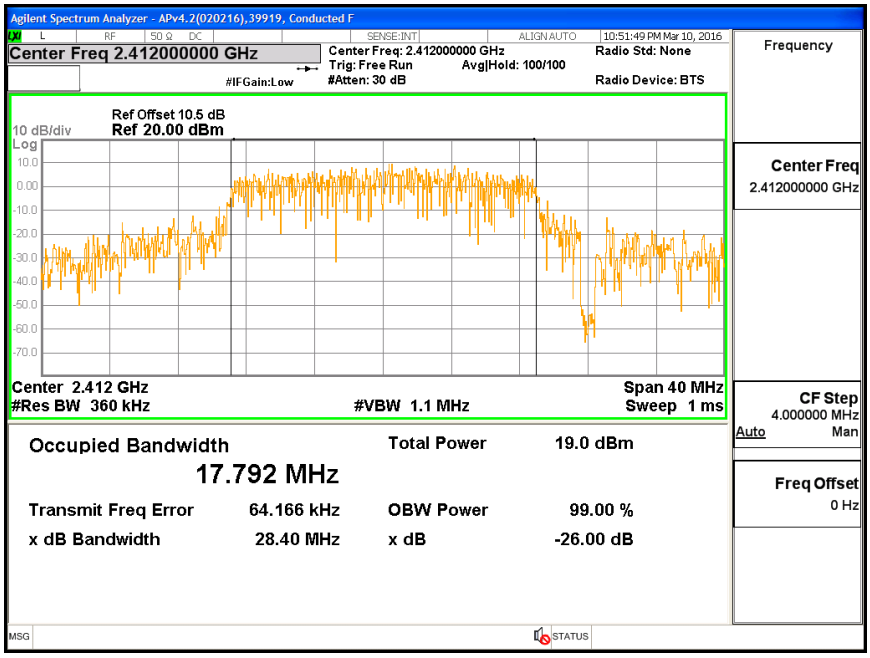
None; for reporting purposes only.

RESULTS

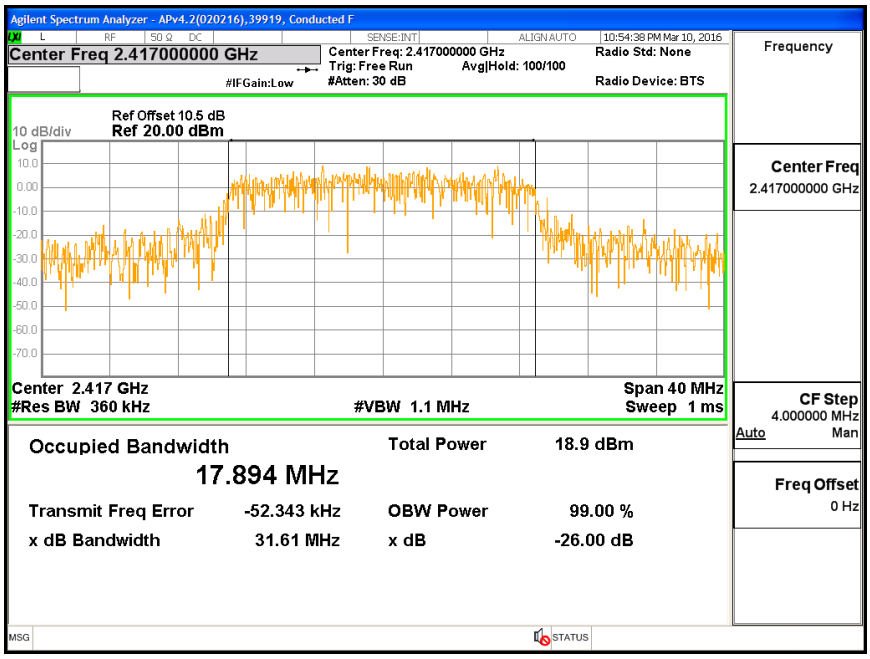
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low_1	2412	17.792
Low_2	2417	17.894
Mid_6	2437	18.042
High_10	2457	18.183
High_11	2462	18.020
High_12	2467	17.803
High_13	2472	17.875

99% BANDWIDTH

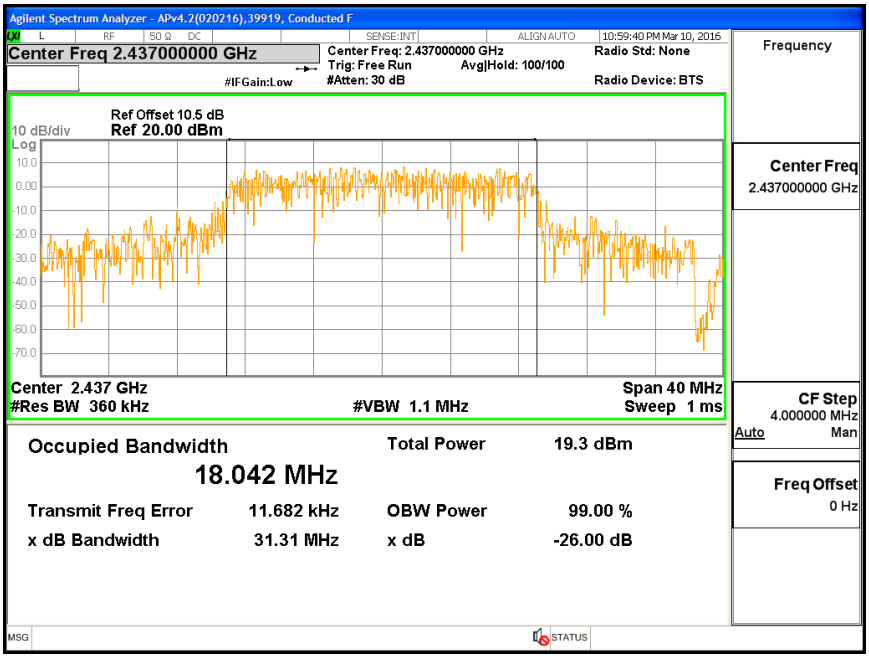
BANDWIDTH LOW CH 1



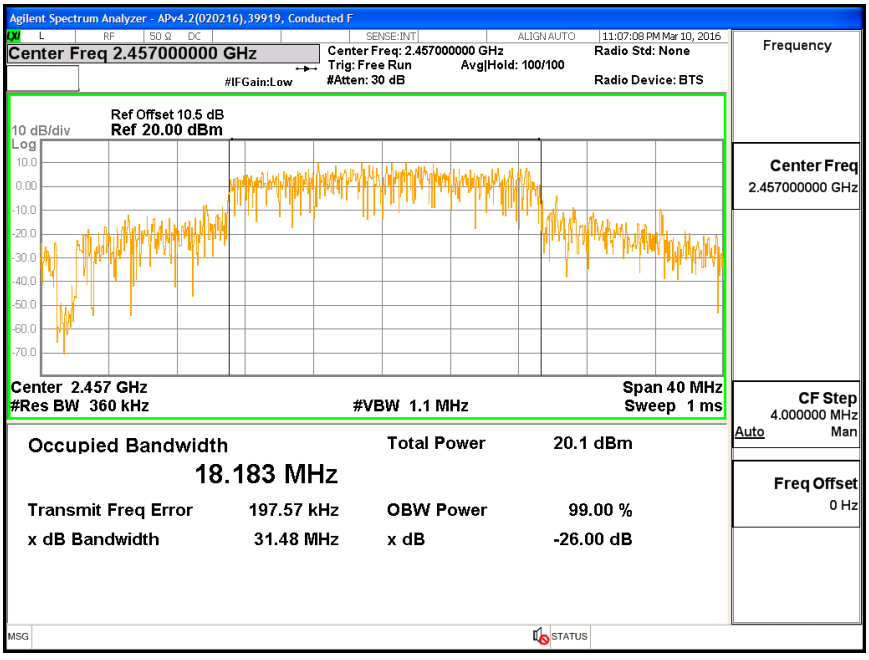
BANDWIDTH LOW CH 2



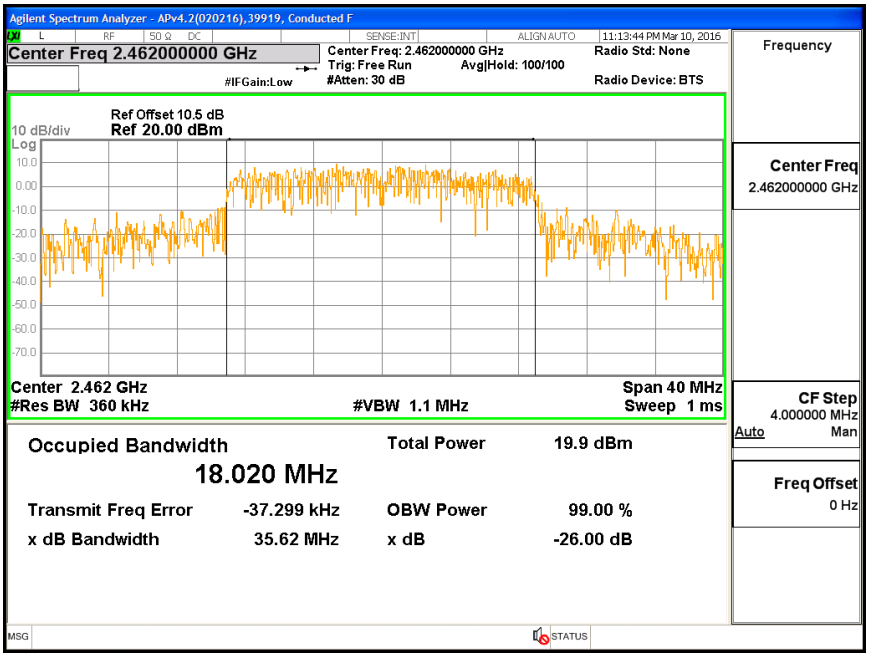
BANDWIDTH MID CH



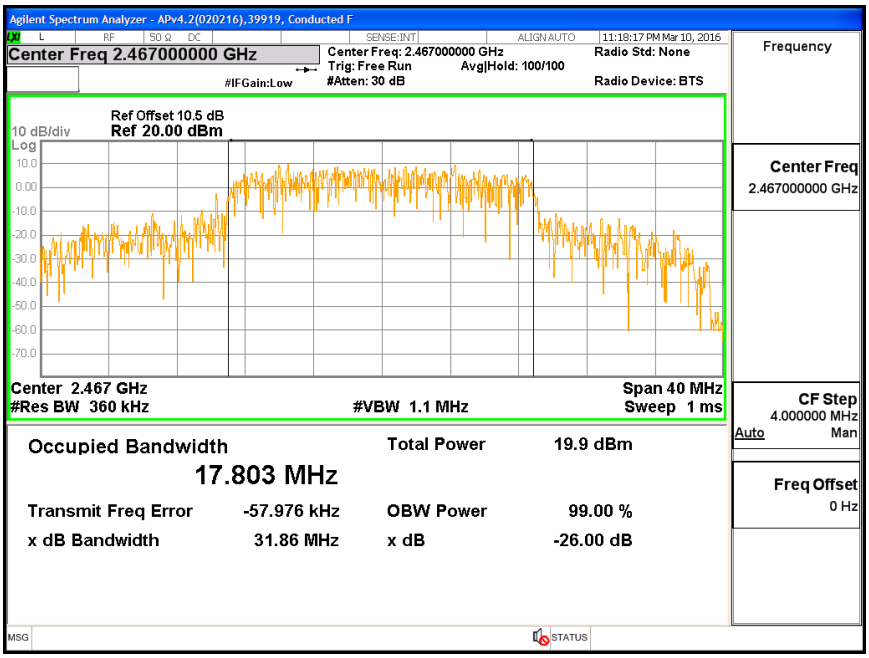
BANDWIDTH HIGH CH 10



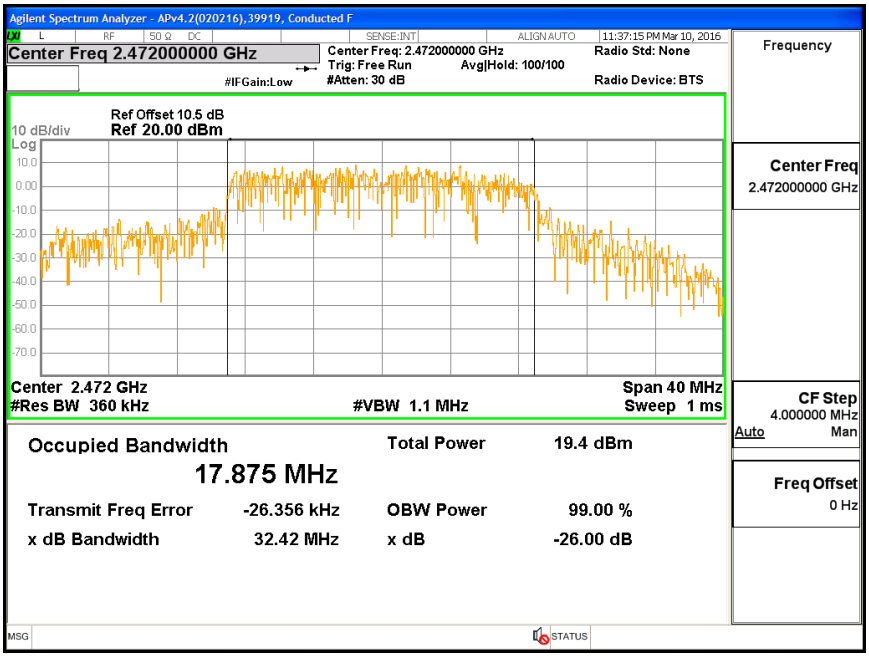
BANDWIDTH HIGH CH 11



BANDWIDTH HIGH CH 12



BANDWIDTH HIGH CH 13



8.6.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

ID:	39919	Date:	7/8/76

Channel	Frequency (MHz)	Power (dBm)
Low_1	2412	14.95
Low_2	2417	17.44
Mid_6	2437	18.96
High_10	2457	15.93
High_11	2462	14.45
High_12	2467	12.44
High_13	2472	2.45

8.6.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 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

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

ID:	39919	Date:	7/8/16

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	-1.35	30.00	30	36	30.00
Low_2	2417	-1.35	30.00	30	36	30.00
Mid_6	2437	-1.35	30.00	30	36	30.00
High_10	2457	-1.35	30.00	30	36	30.00
High_11	2462	-1.35	30.00	30	36	30.00
High_12	2467	-1.35	30.00	30	36	30.00
High_13	2472	-1.35	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low_1	2412	21.77	21.77	30.00	-8.23
Low_2	2417	23.10	23.10	30.00	-6.90
Mid_6	2437	25.66	25.66	30.00	-4.34
High_10	2457	22.31	22.31	30.00	-7.69
High_11	2462	20.13	20.13	30.00	-9.87
High_12	2467	18.11	18.11	30.00	-11.89
High_13	2472	8.12	8.12	30.00	-21.88

8.6.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

For digitally modulated systems, the power spectral density conducted form 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

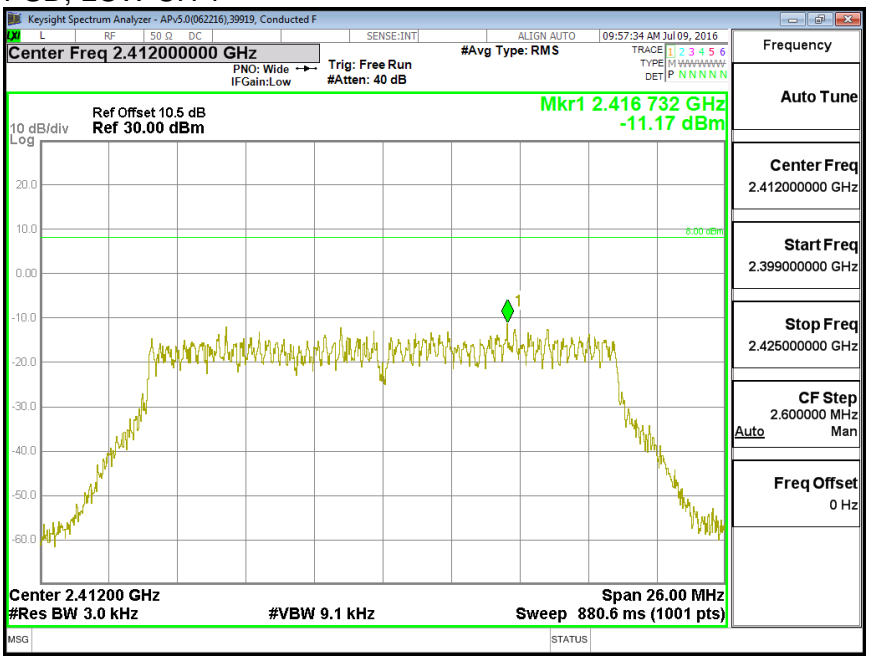
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

PSD Results

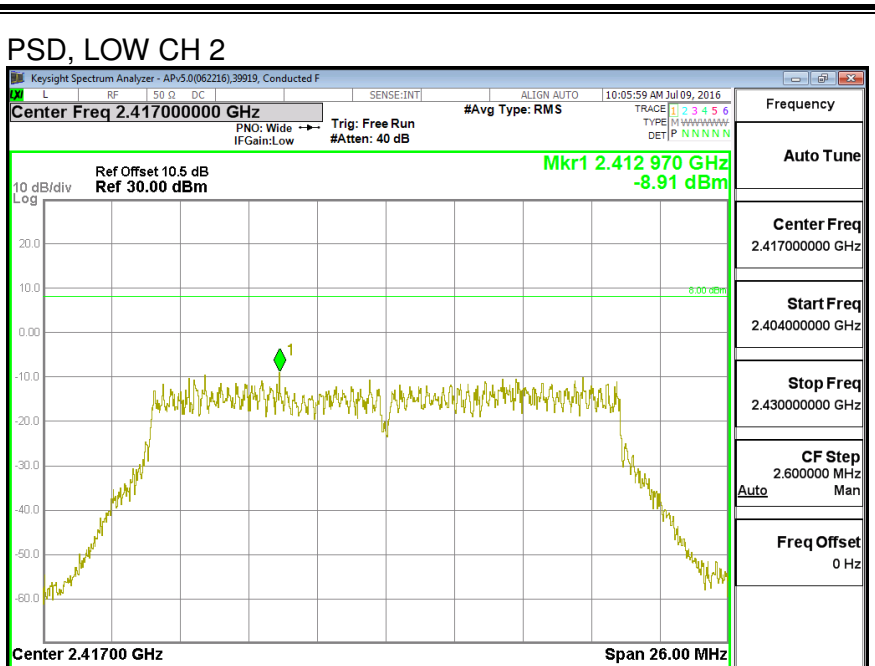
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-11.17	-11.17	8.0	-19.2
Low_2	2417	-8.91	-8.91	8.0	-16.9
Mid_6	2437	-8.67	-8.67	8.0	-16.7
High_10	2457	-10.93	-10.93	8.0	-18.9
High_11	2462	-12.60	-12.60	8.0	-20.6
High_12	2467	-14.04	-14.04	8.0	-22.0
High_13	2472	-24.78	-24.78	8.0	-32.8

PSD

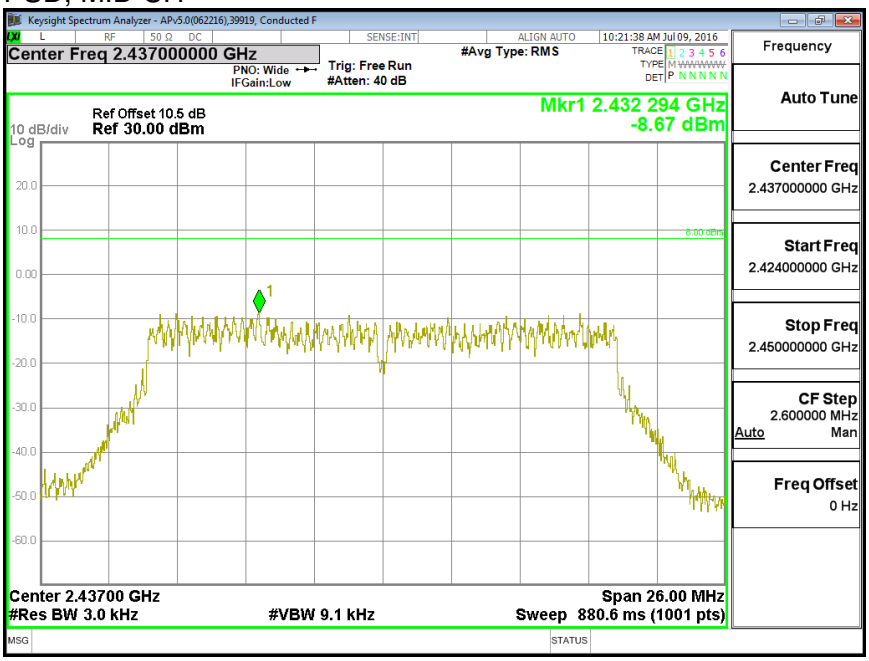
PSD, LOW CH 1



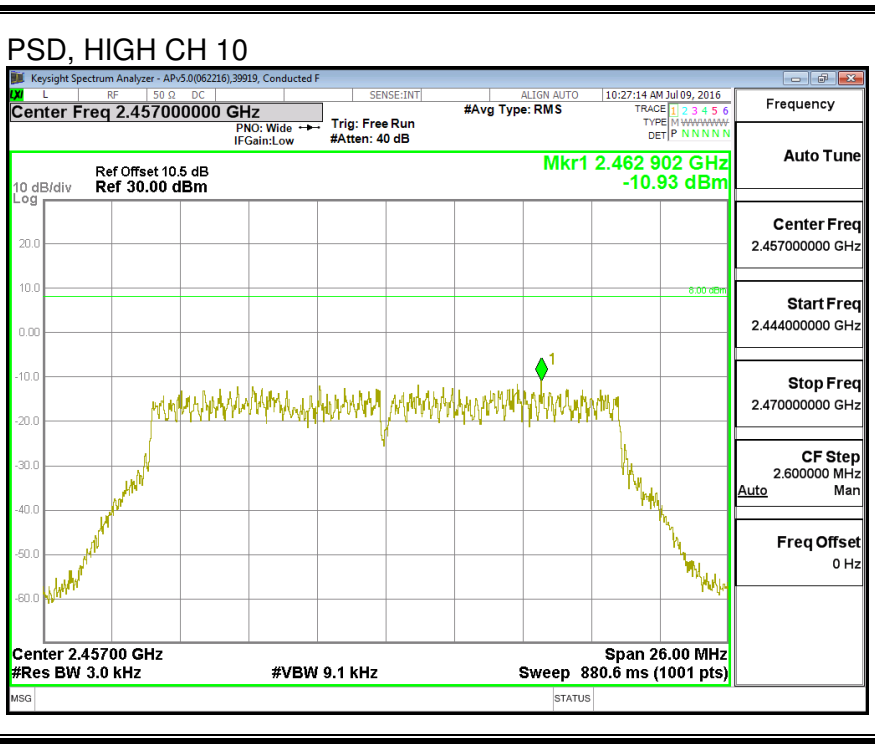
PSD, LOW CH 2



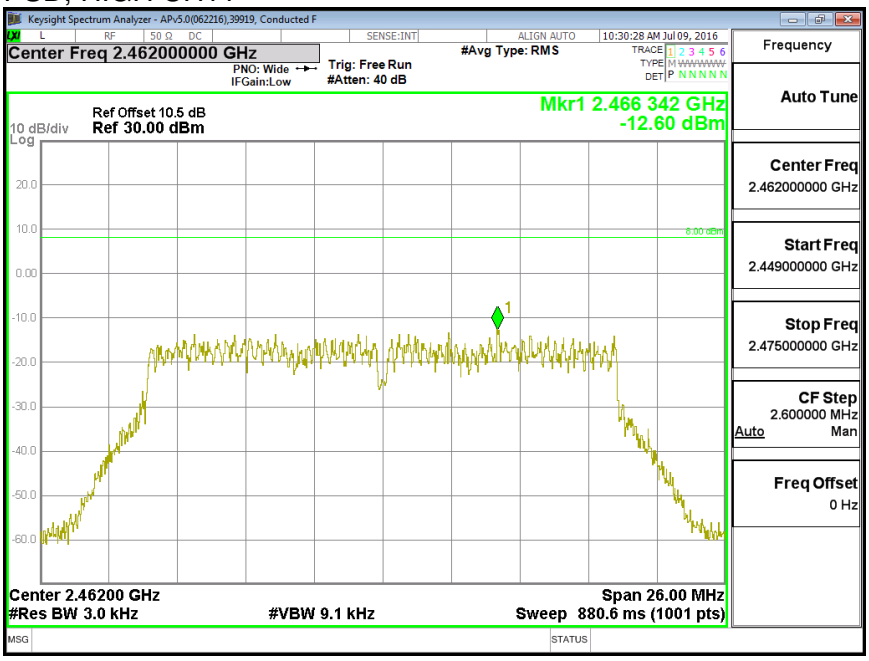
PSD, MID CH



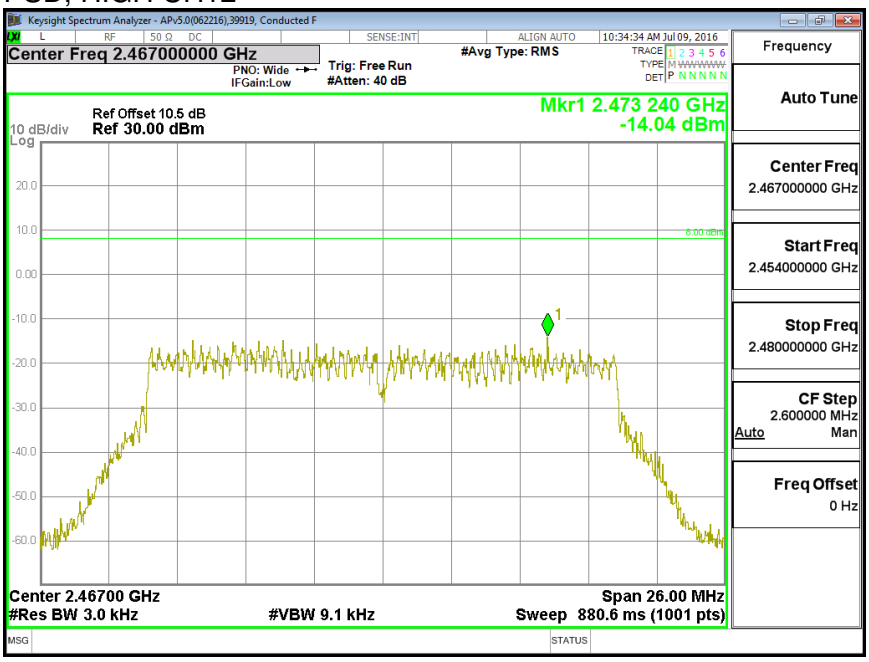
PSD, HIGH CH 10



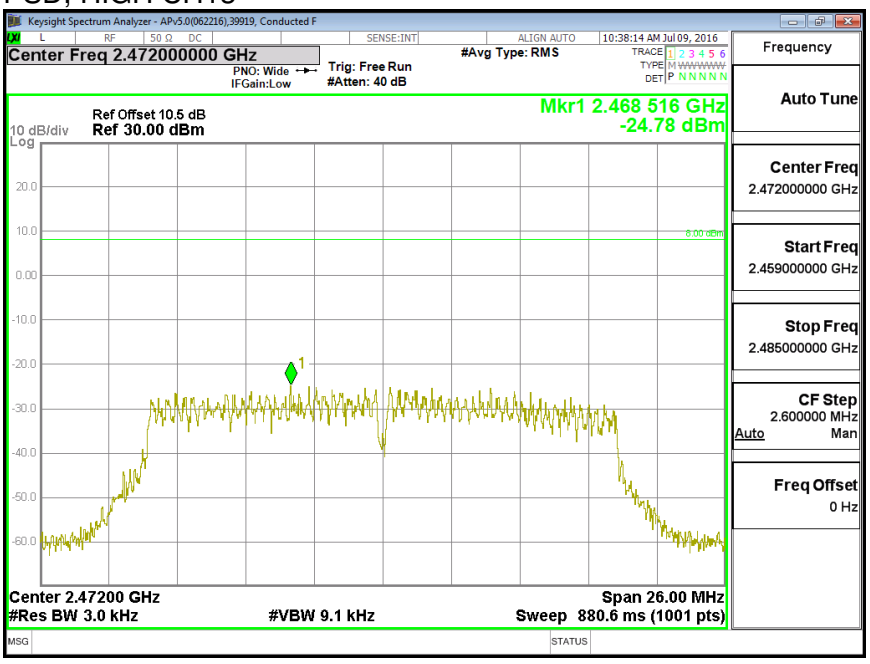
PSD, HIGH CH11



PSD, HIGH CH12



PSD, HIGH CH13



8.6.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

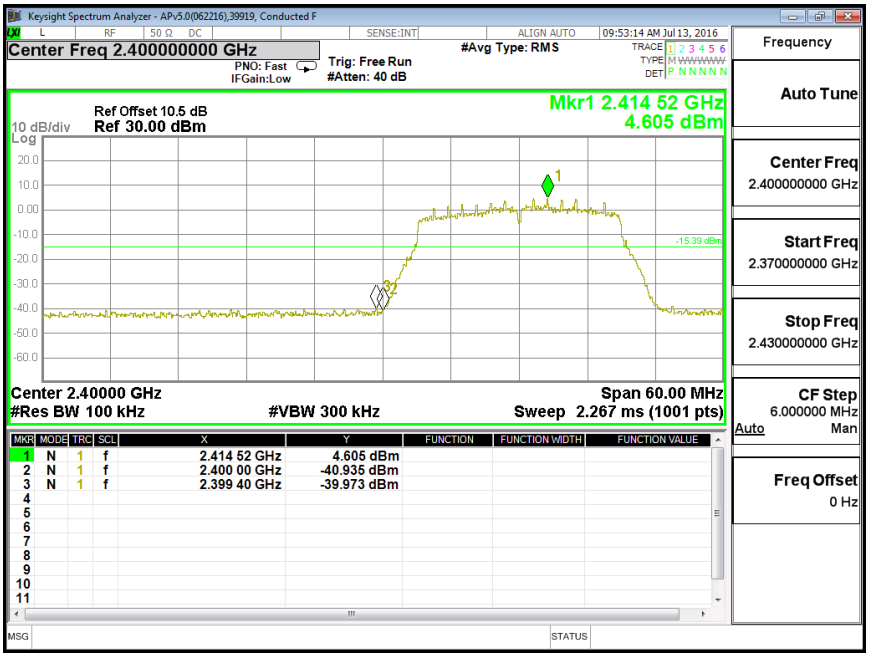
IC RSS-247 (5.5)

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.

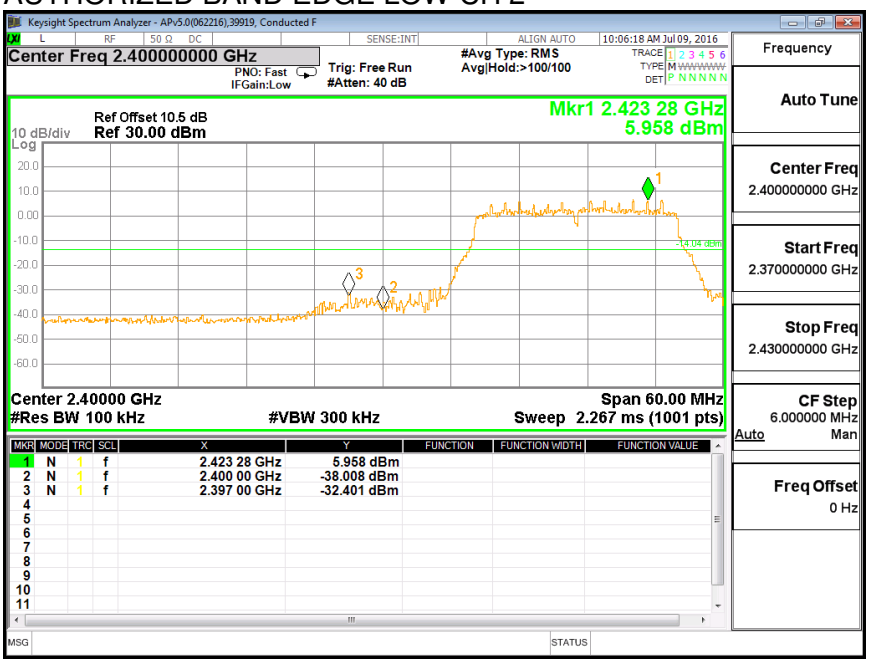
RESULTS

LOW CHANNEL BANDEDGE

AUTHORIZED BAND EDGE LOW CH 1

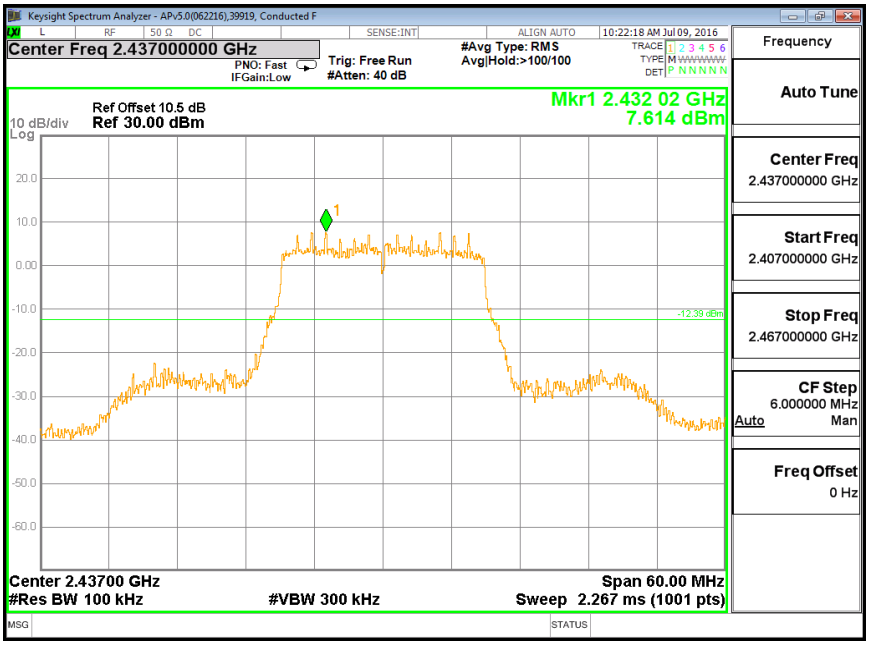


AUTHORIZED BAND EDGE LOW CH 2



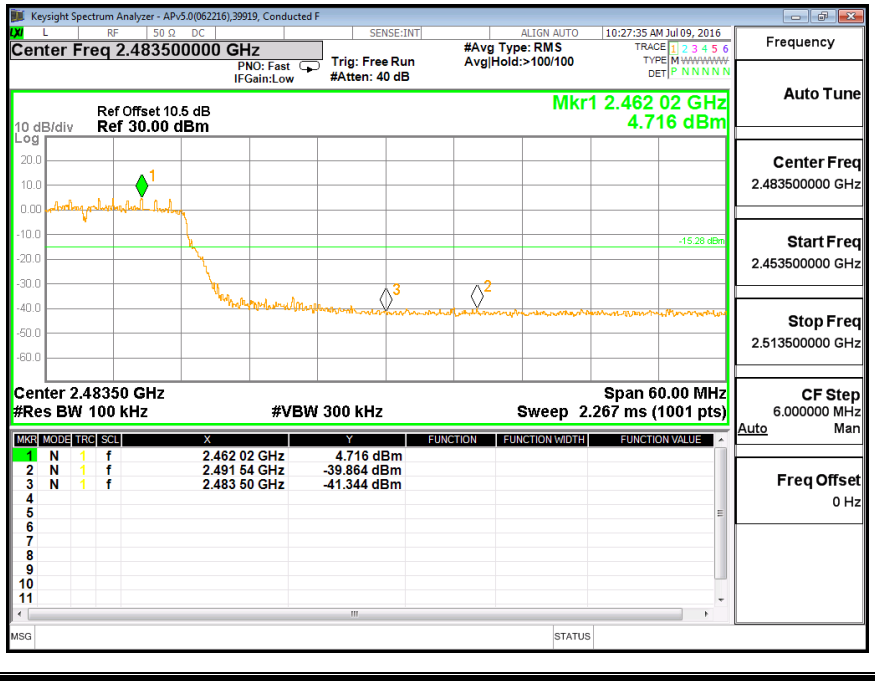
MID CHANNEL REFERENCE

REFERENCE MID CH

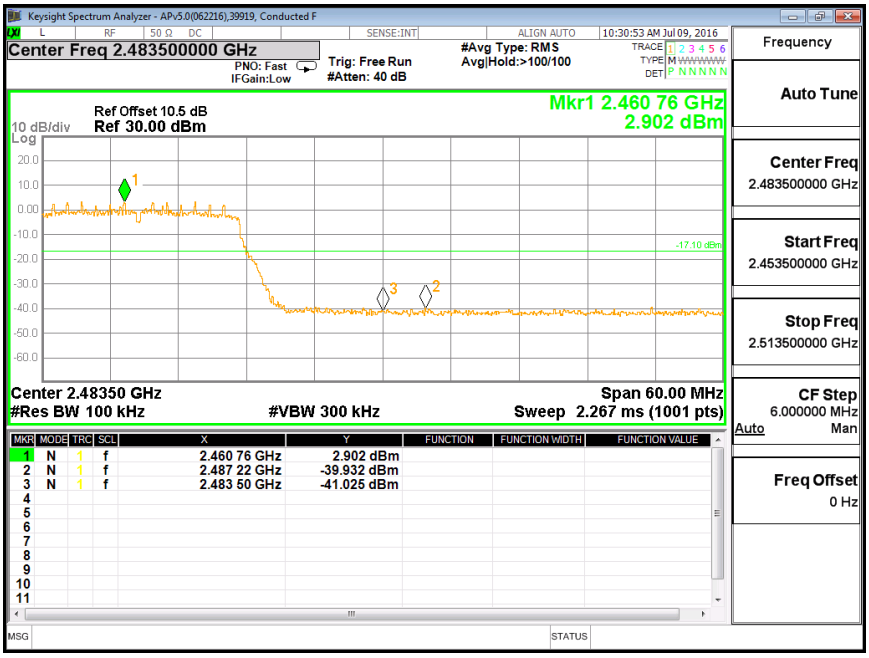


HIGH CHANNEL BANDEDGE

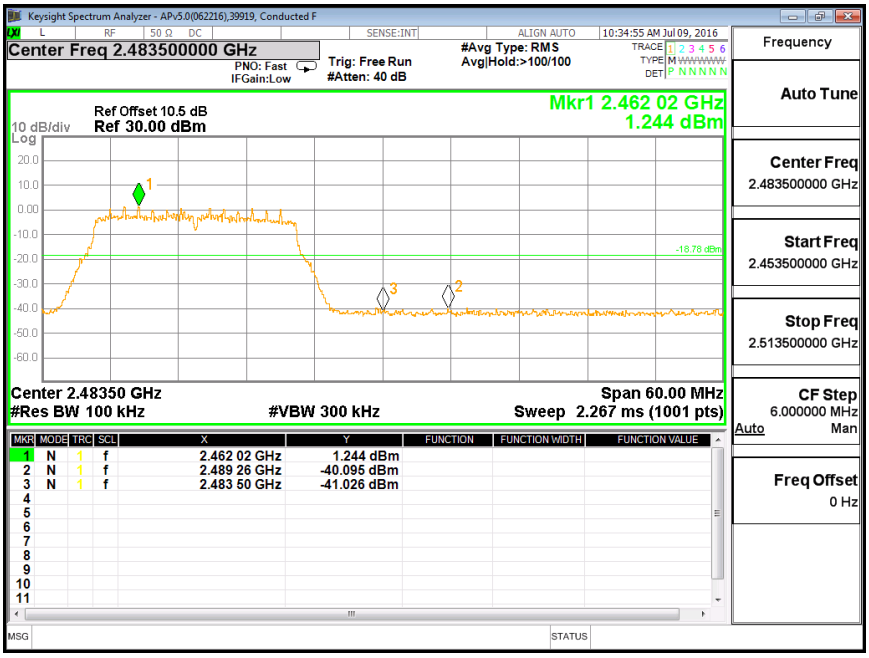
AUTHORIZED BAND EDGE HIGH CH 10



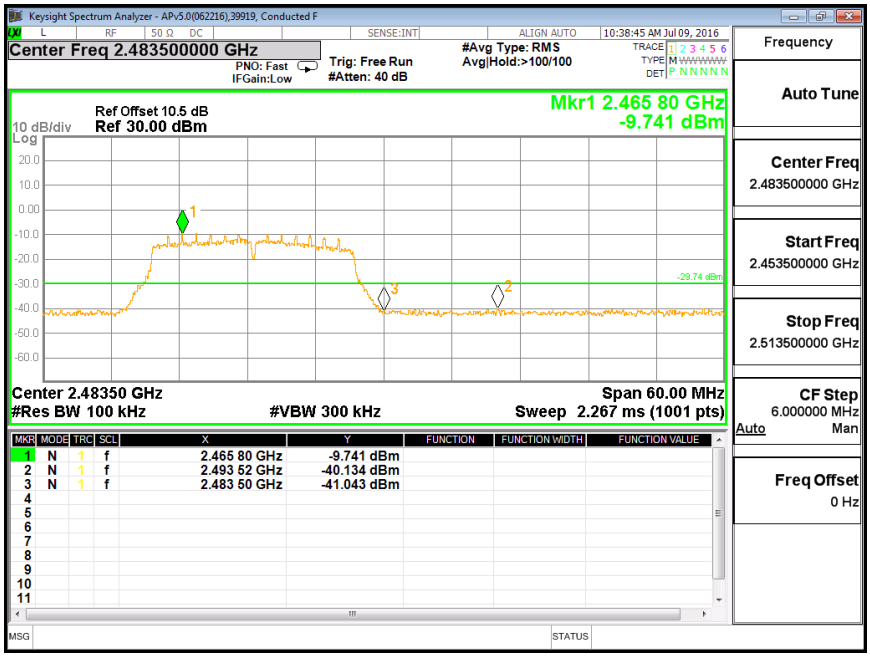
AUTHORIZED BAND EDGE HIGH CH 11



AUTHORIZED BAND EDGE HIGH CH 12

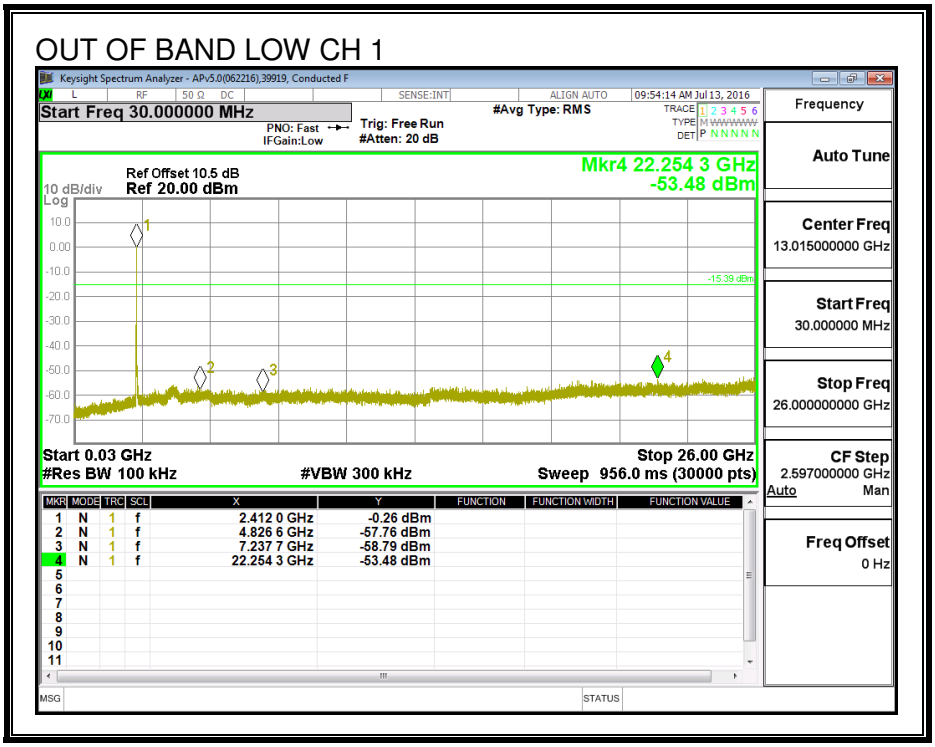


AUTHORIZED BAND EDGE HIGH CH13

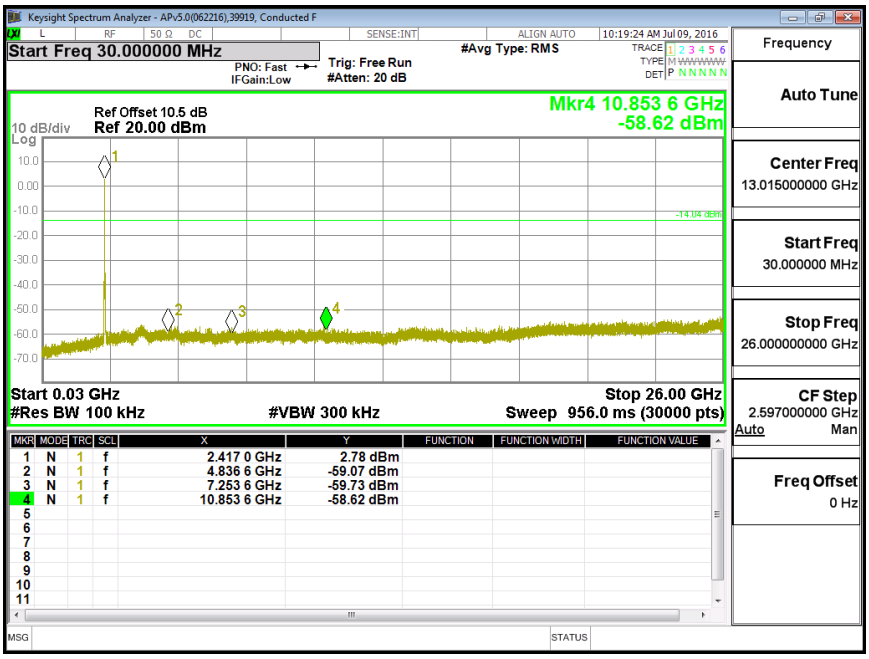


OUT-OF-BAND EMISSIONS

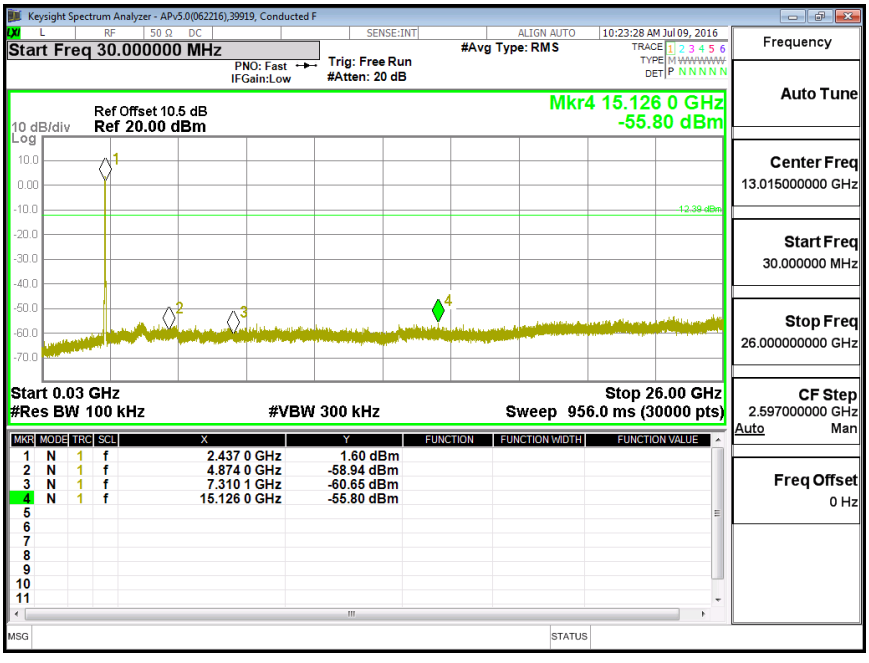
OUT OF BAND LOW CH 1



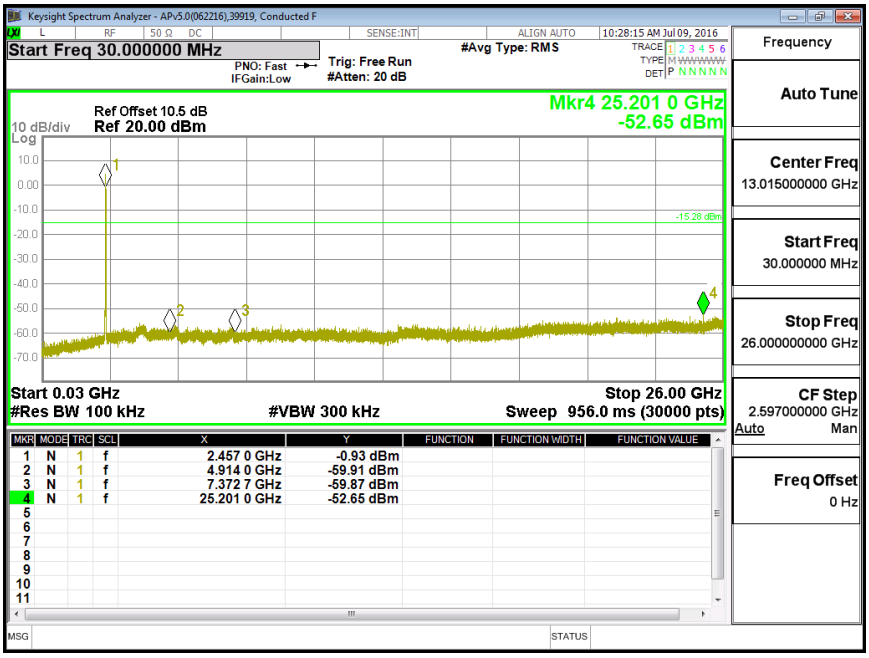
OUT OF BAND LOW CH 2



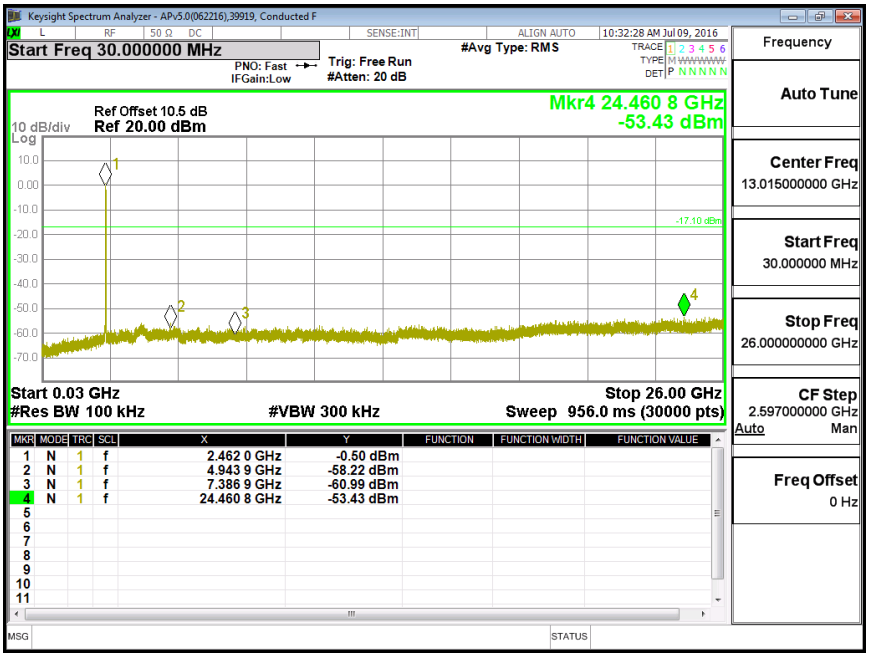
OUT OF BAND MID CH



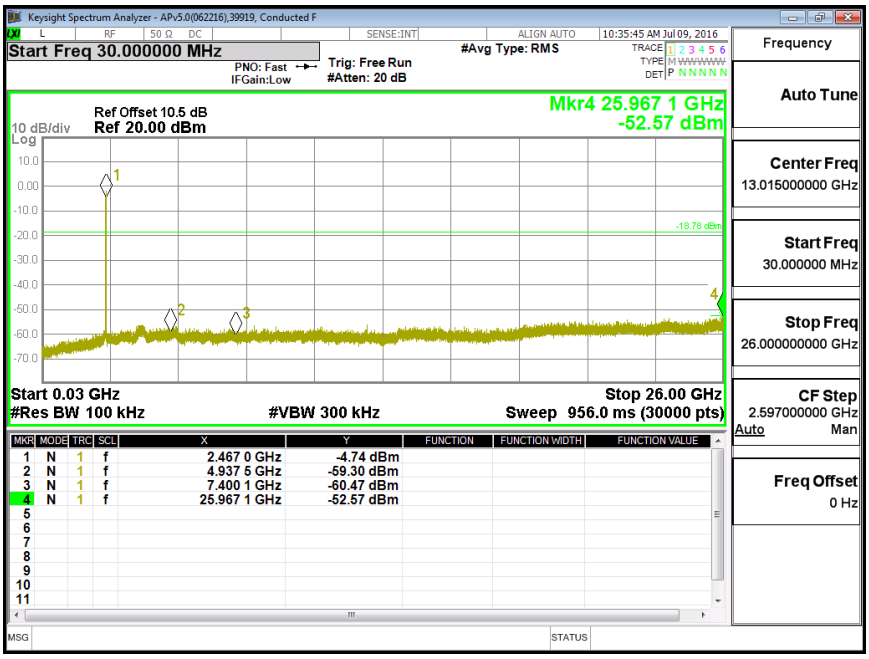
OUT OF BAND HIGH CH 10



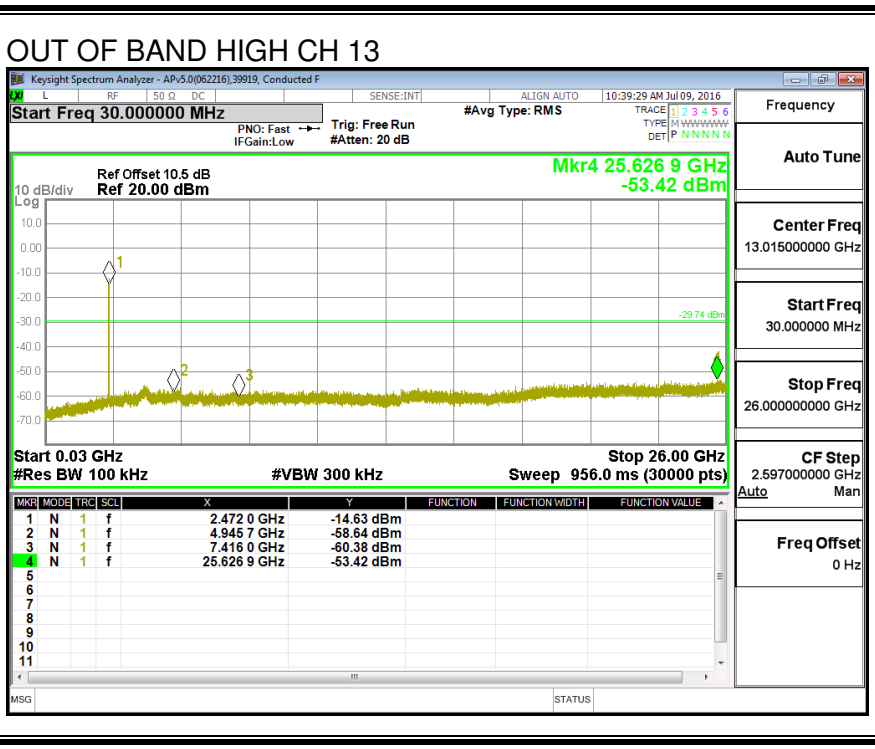
OUT OF BAND HIGH CH 11



OUT OF BAND HIGH CH 12



OUT OF BAND HIGH CH 13



8.7. 802.11n HT20 2Tx CDD MODE IN THE 2.4 GHz BAND

8.7.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-247 (5.2) (1)

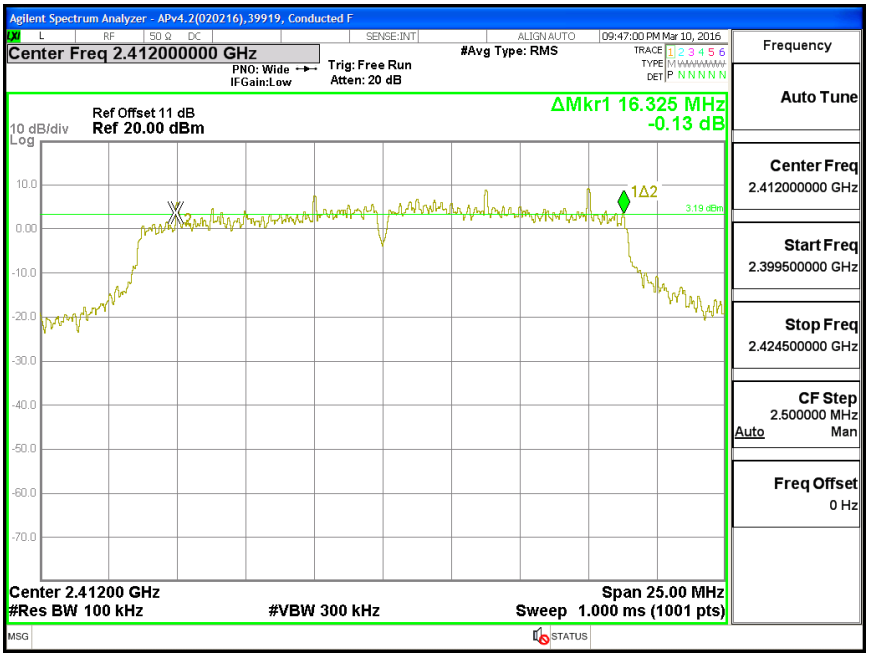
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

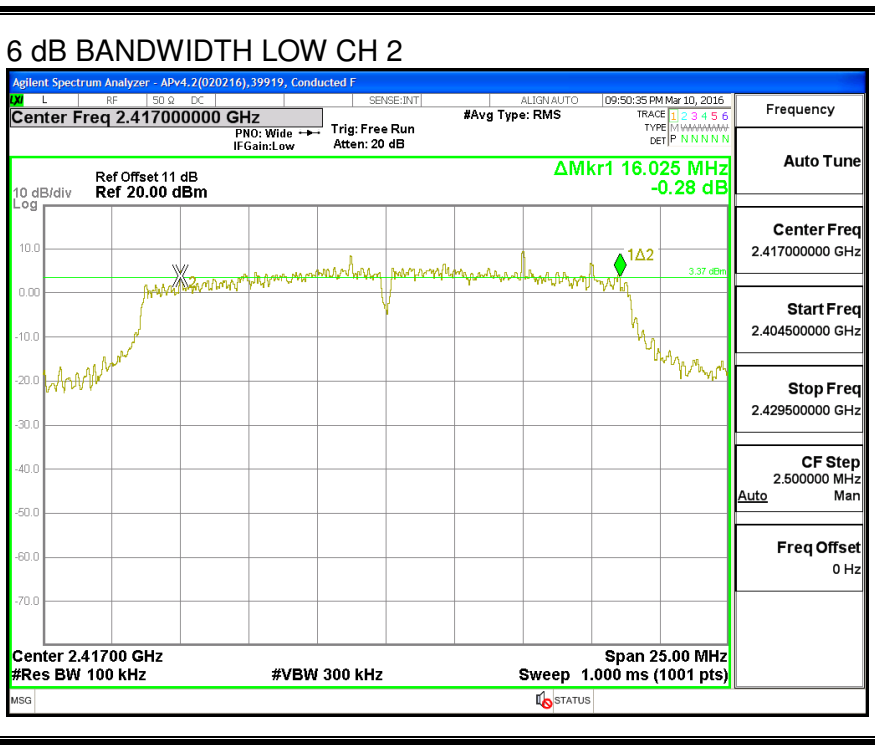
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low_1	2412	16.325	16.325	0.5
Low_2	2417	16.025	17.577	0.5
Mid_6	2437	16.400	17.290	0.5
High_10	2457	16.325	16.025	0.5
High_11	2462	16.300	16.325	0.5
High_12	2467	15.912	16.325	0.5
High_13	2472	15.744	16.325	0.5

6 dB BANDWIDTH, Chain 0

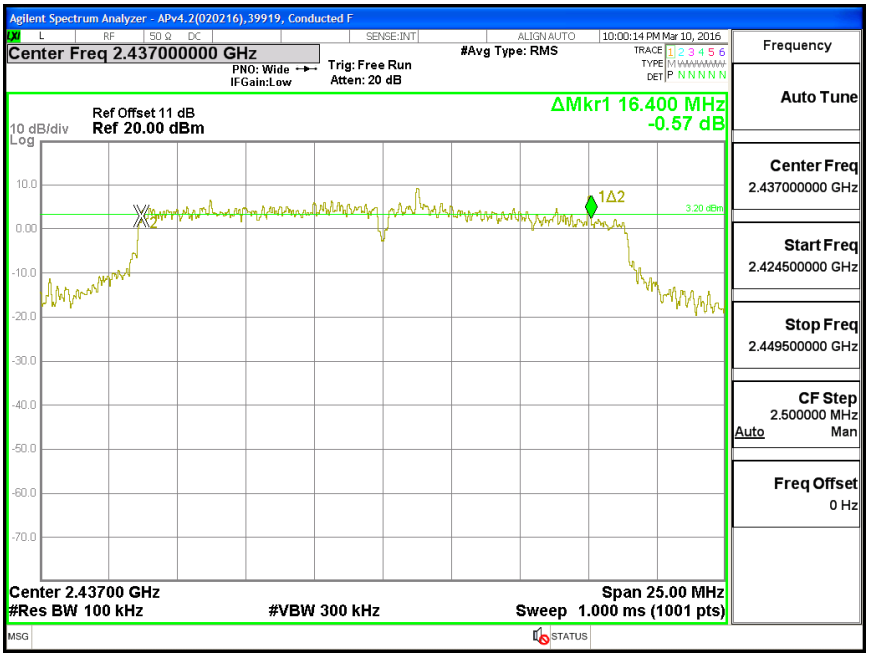
6 dB BANDWIDTH LOW CH 1



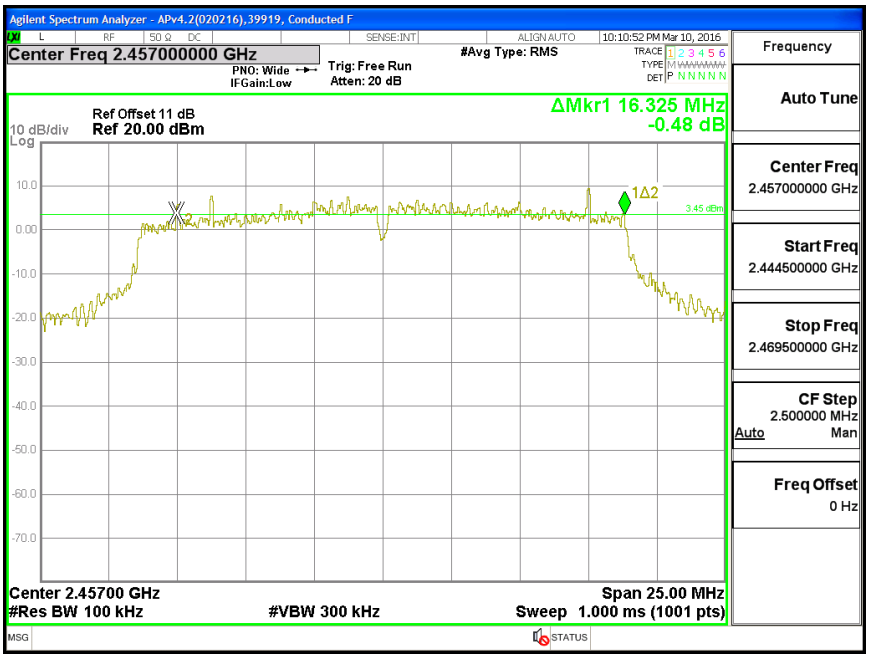
6 dB BANDWIDTH LOW CH 2



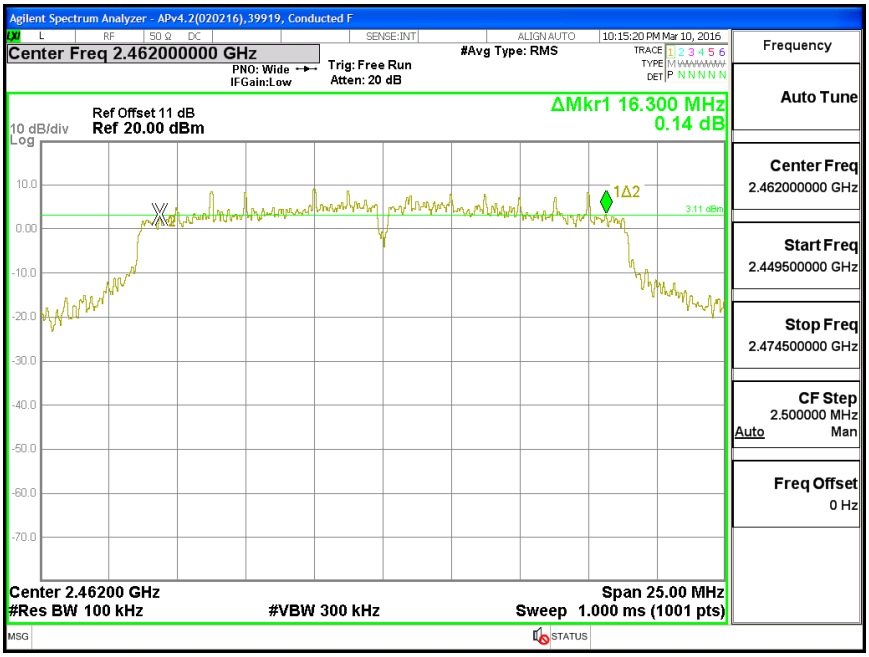
6 dB BANDWIDTH MID CH



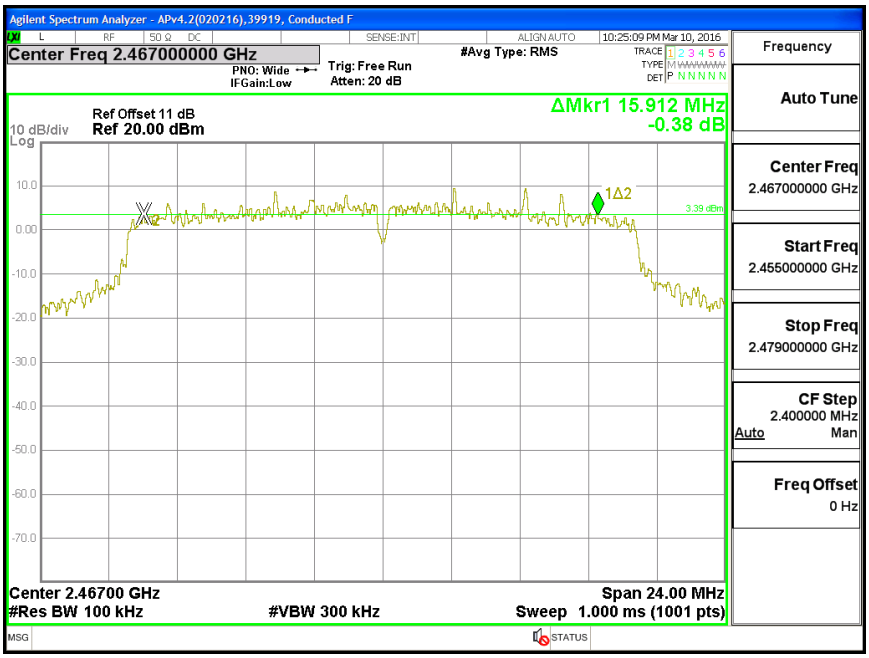
6 dB BANDWIDTH HIGH CH 10



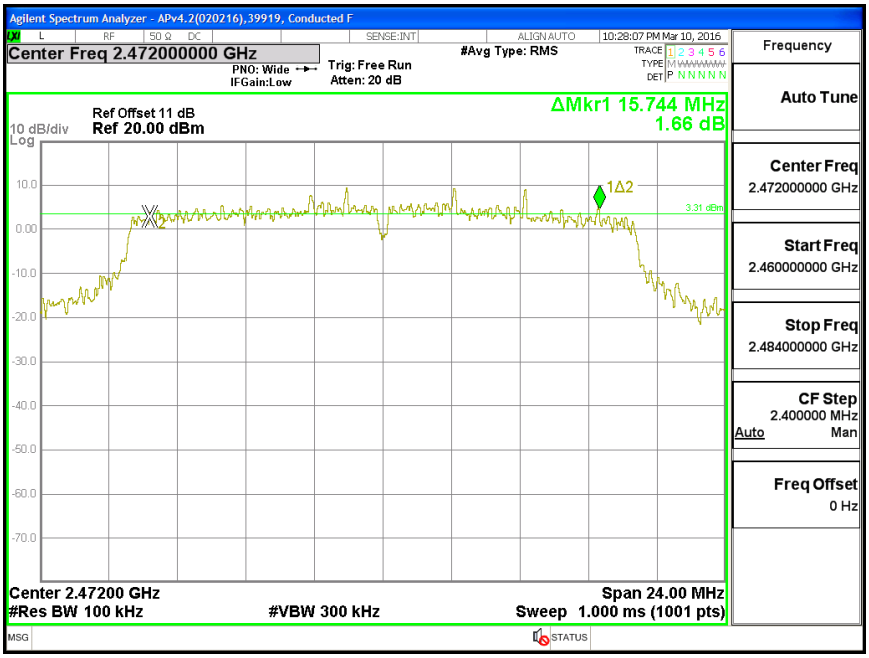
6 dB BANDWIDTH HIGH CH 11



6 dB BANDWIDTH HIGH CH 12

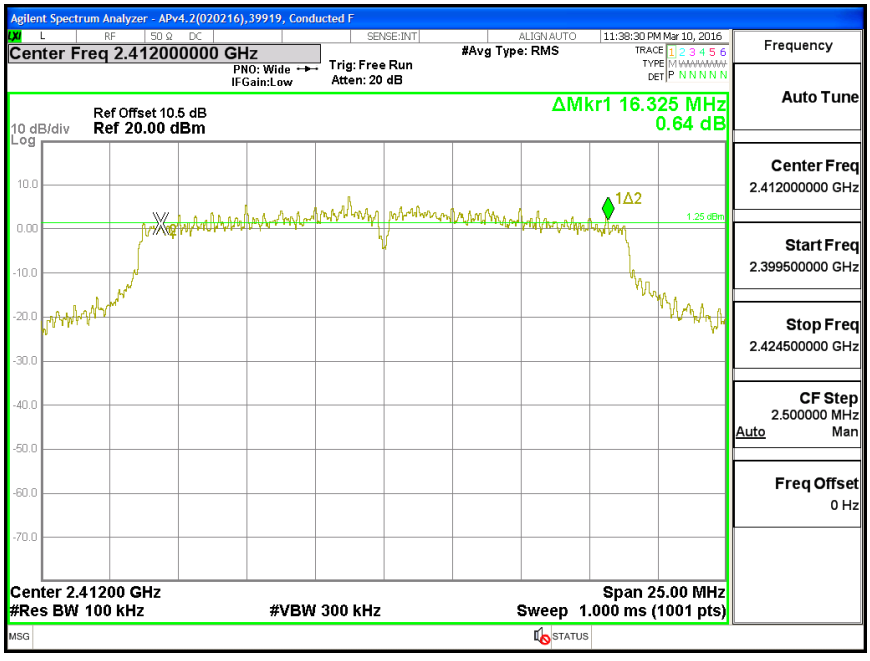


6 dB BANDWIDTH HIGH CH 13

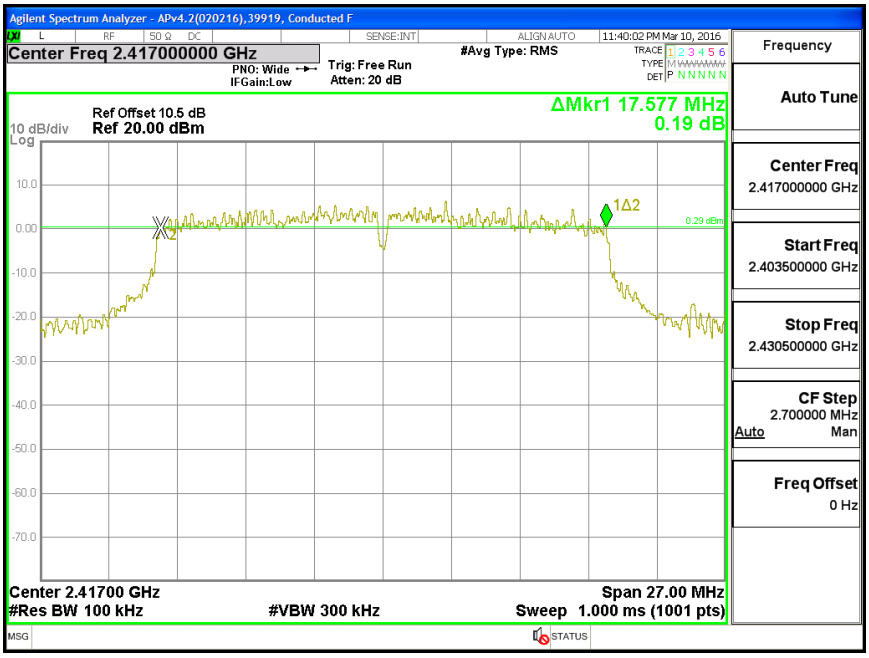


6 dB BANDWIDTH, Chain 1

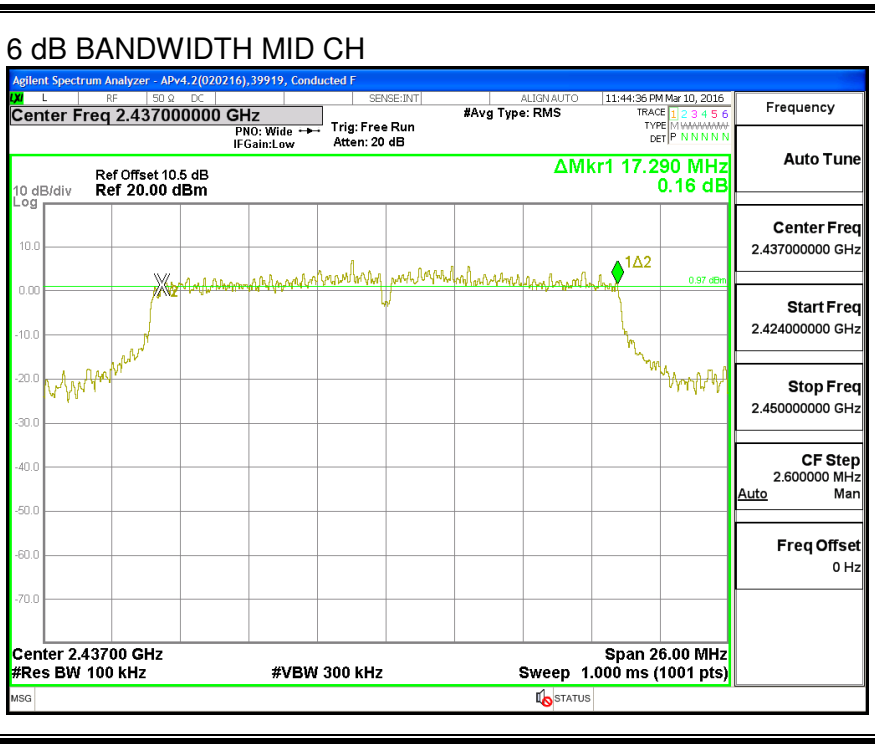
6 dB BANDWIDTH LOW CH 1



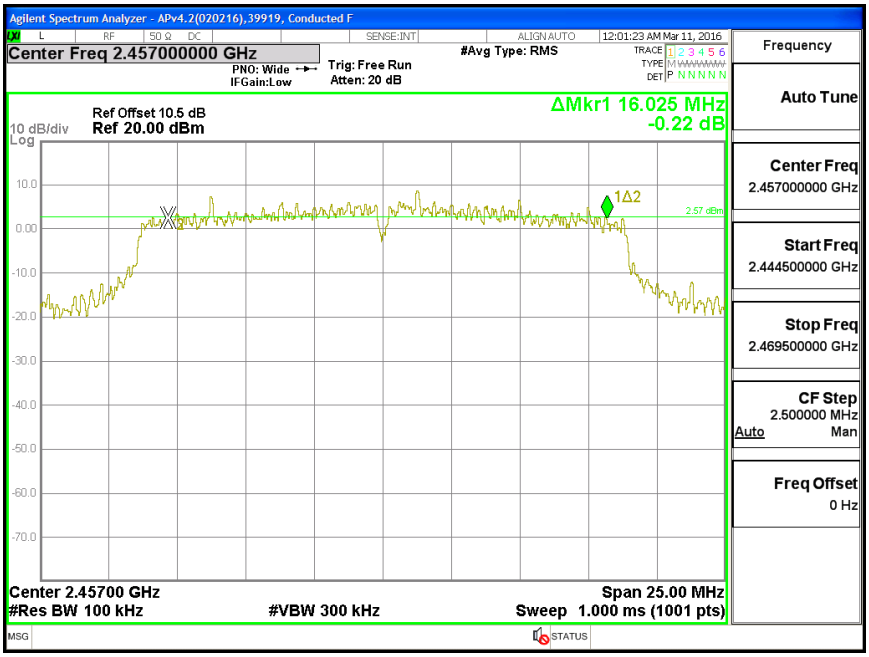
6 dB BANDWIDTH LOW CH 2



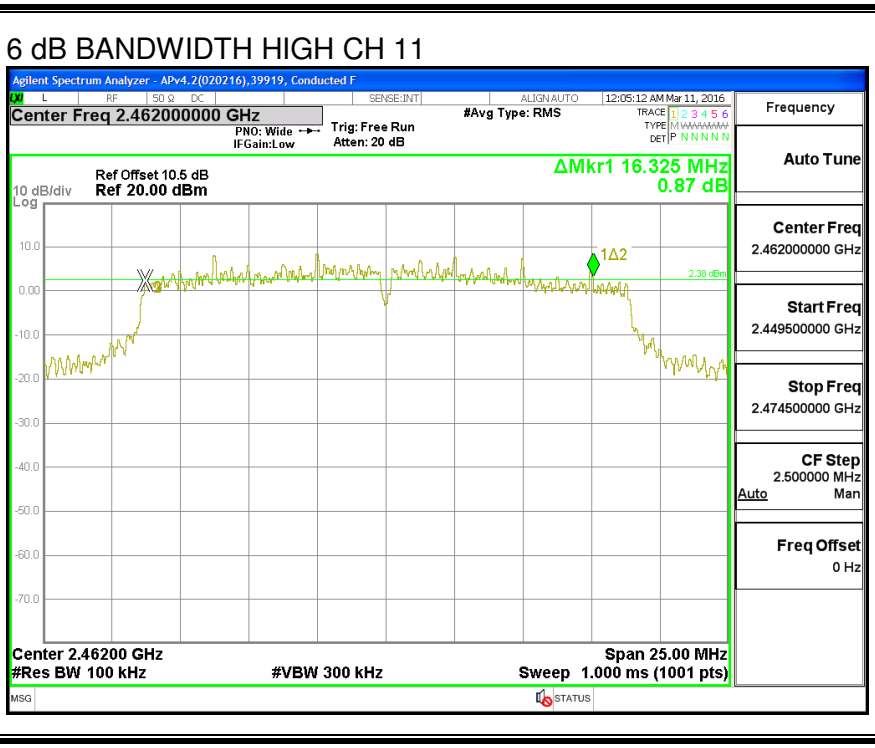
6 dB BANDWIDTH MID CH



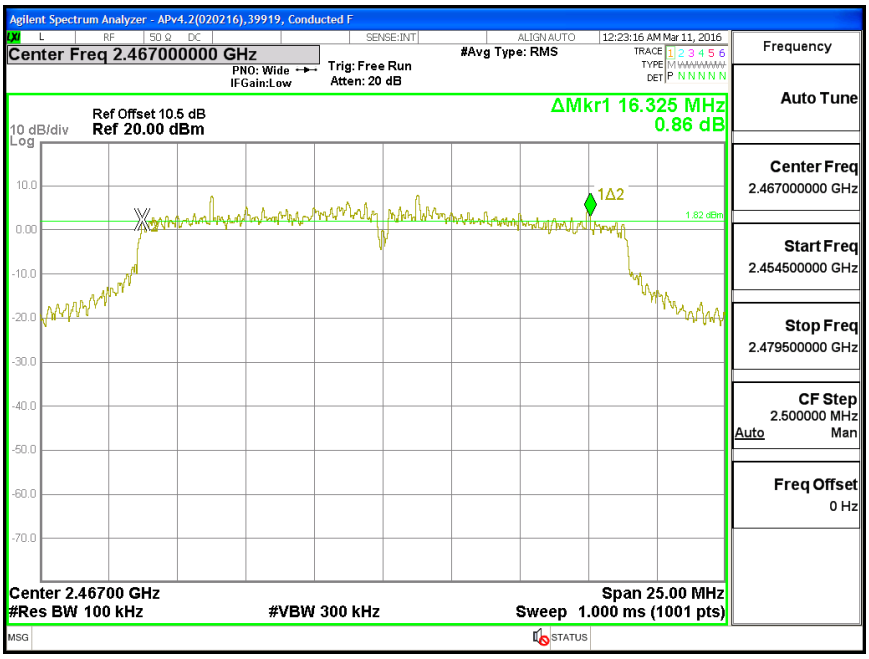
6 dB BANDWIDTH HIGH CH 10



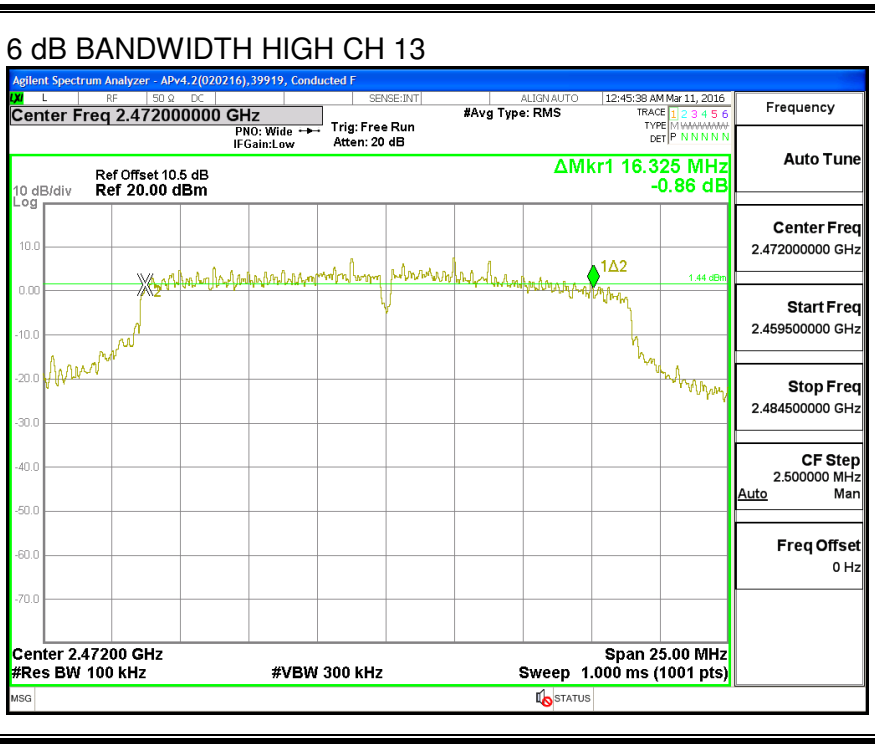
6 dB BANDWIDTH HIGH CH 11



6 dB BANDWIDTH HIGH CH 12



6 dB BANDWIDTH HIGH CH 13



8.7.2. 99% BANDWIDTH

LIMITS

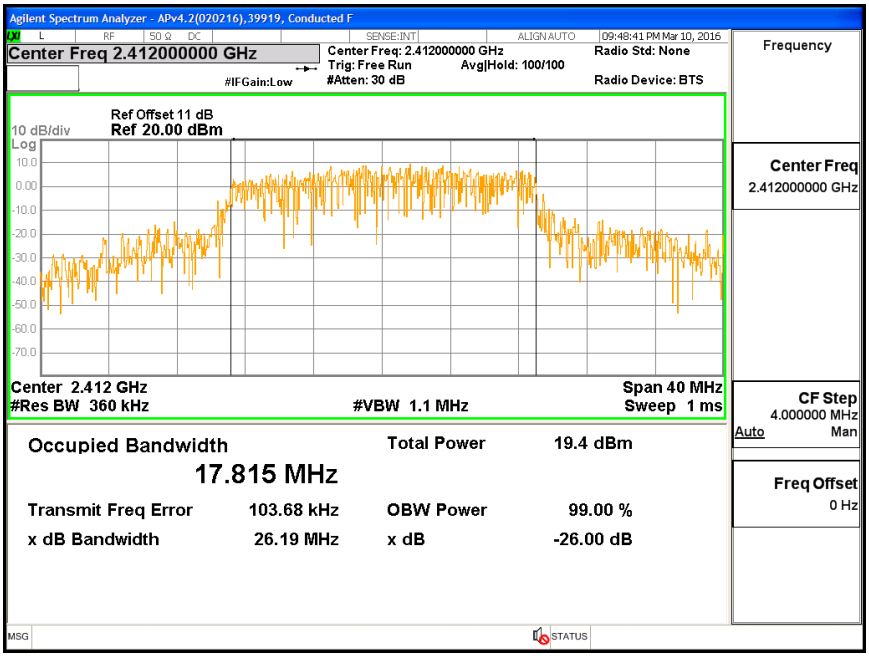
None; for reporting purposes only.

RESULTS

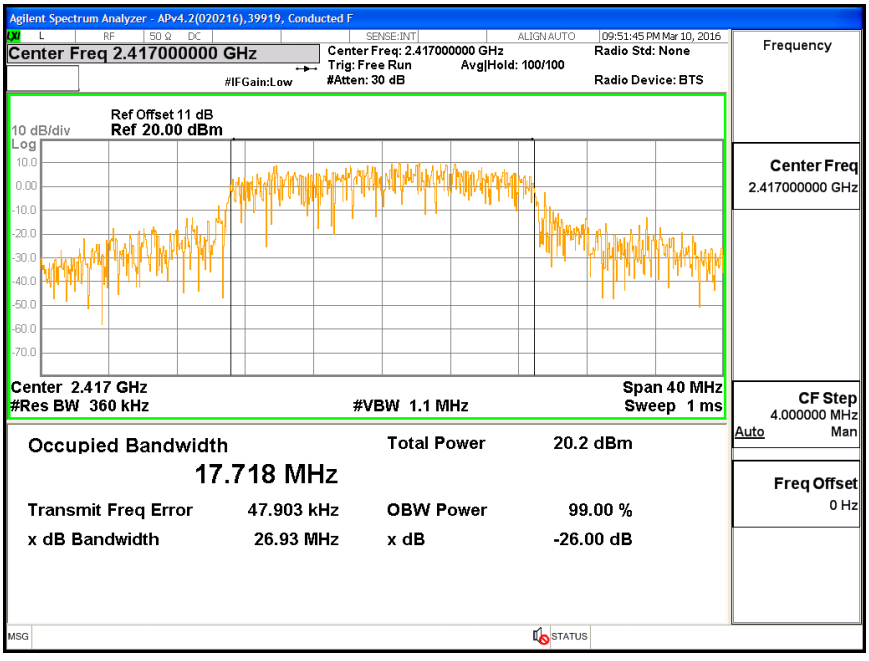
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low_1	2412	17.815	17.649
Low_2	2417	17.718	17.760
Mid_6	2437	18.060	17.911
High_10	2457	17.710	17.784
High_11	2462	17.853	17.910
High_12	2467	17.740	17.842
High_13	2472	17.757	17.746

99% BANDWIDTH, Chain 0

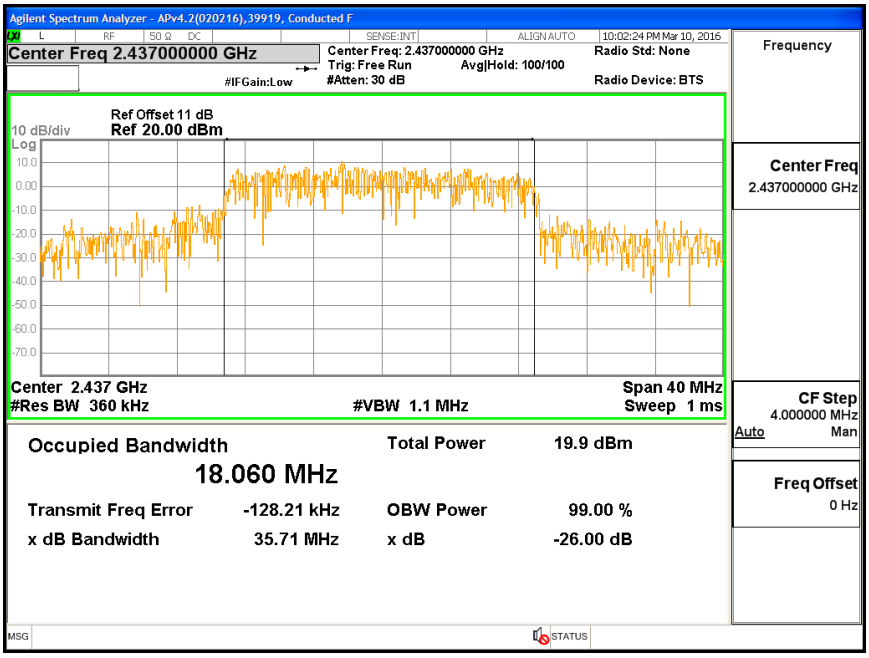
99% BANDWIDTH LOW CH 1



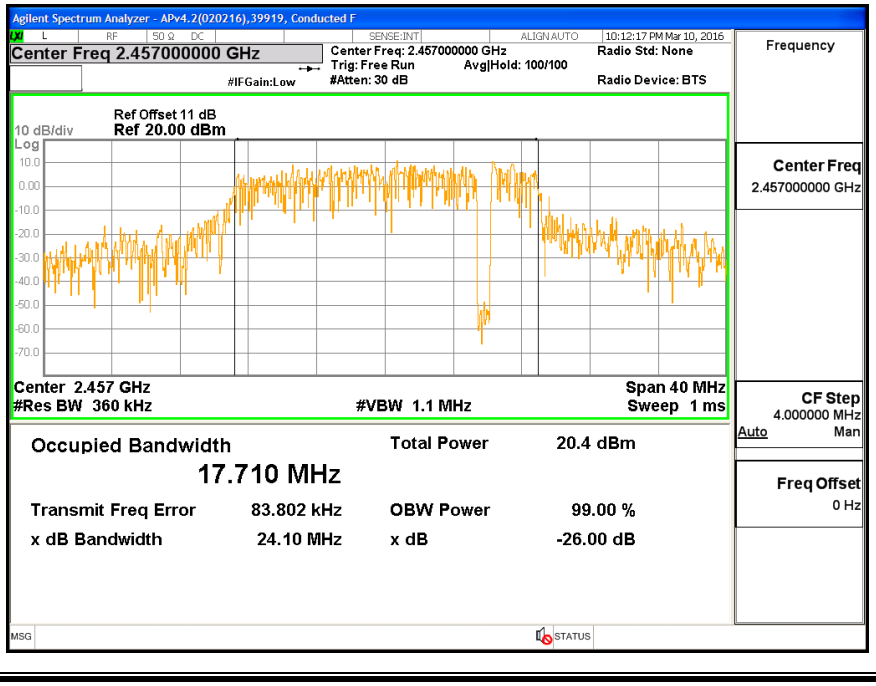
99% BANDWIDTH LOW CH 2



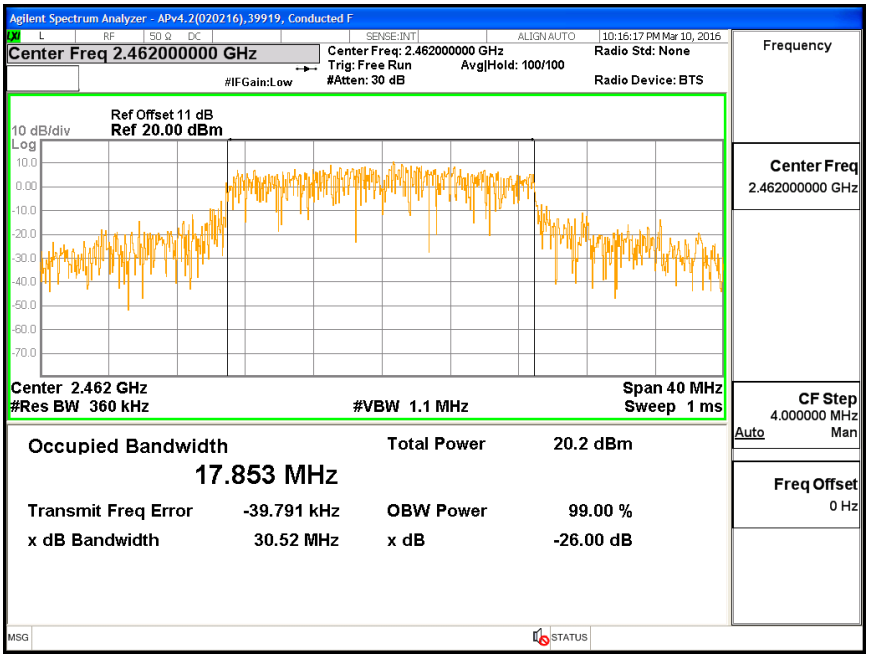
99% BANDWIDTH MID CH



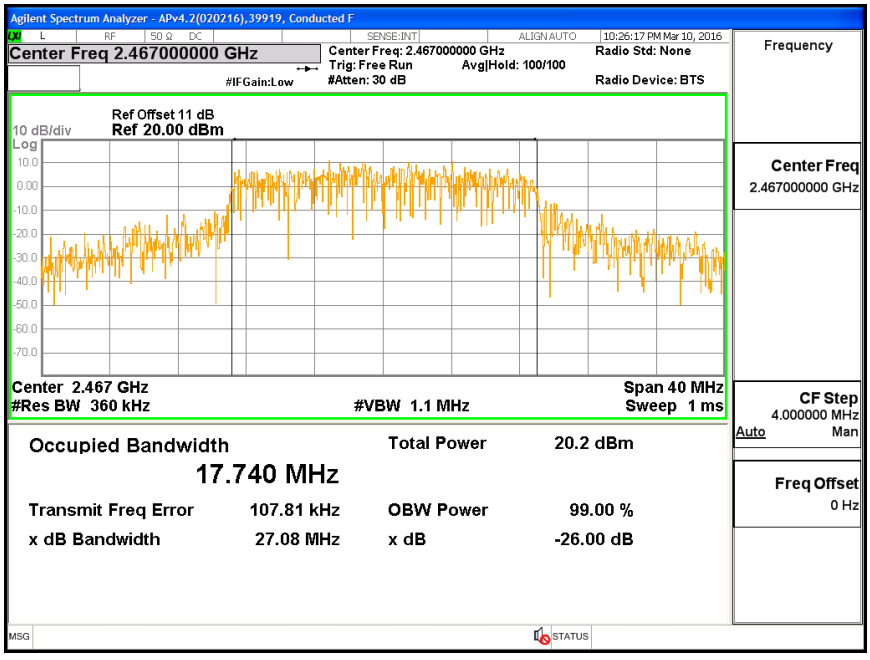
99% BANDWIDTH HIGH CH 10



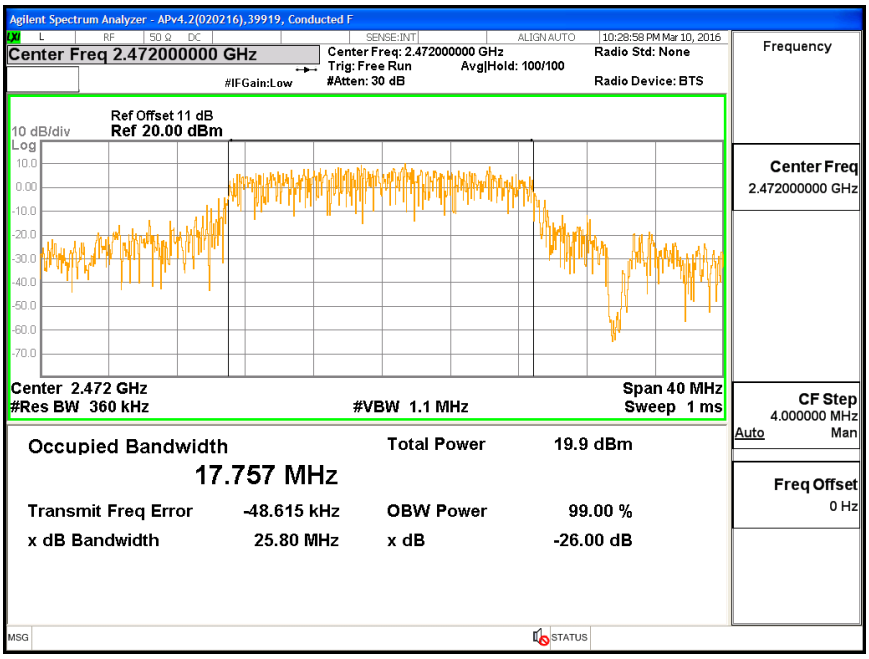
99% BANDWIDTH HIGH CH 11



99% BANDWIDTH HIGH CH 12

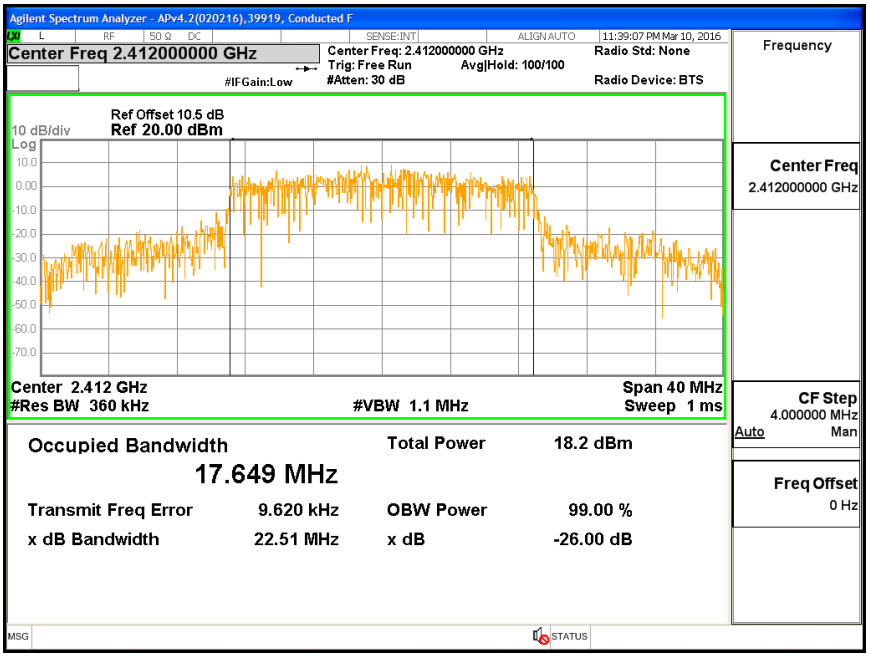


99% BANDWIDTH HIGH CH 13

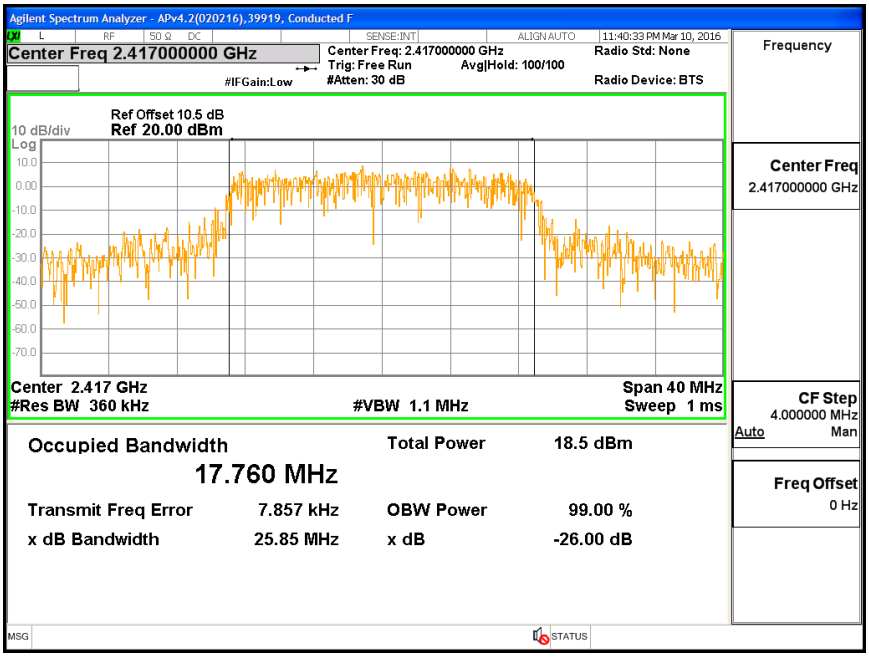


99% BANDWIDTH, Chain 1

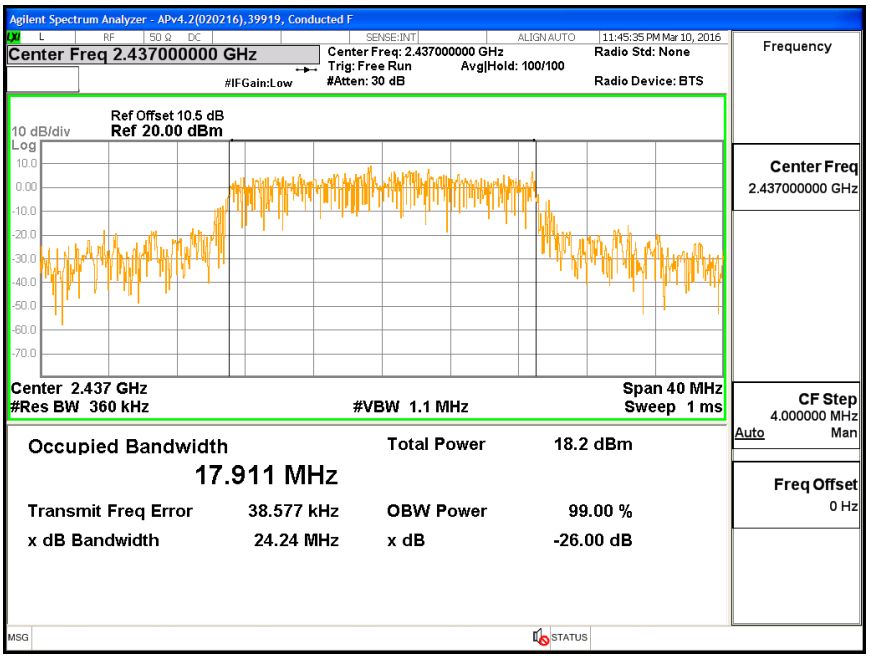
99% BANDWIDTH LOW CH 1



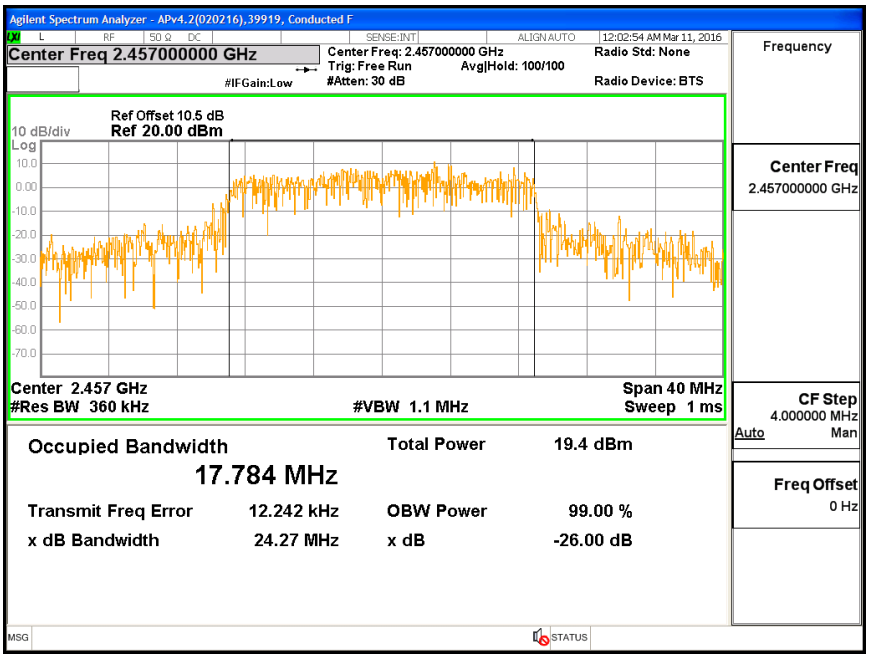
99% BANDWIDTH LOW CH 2



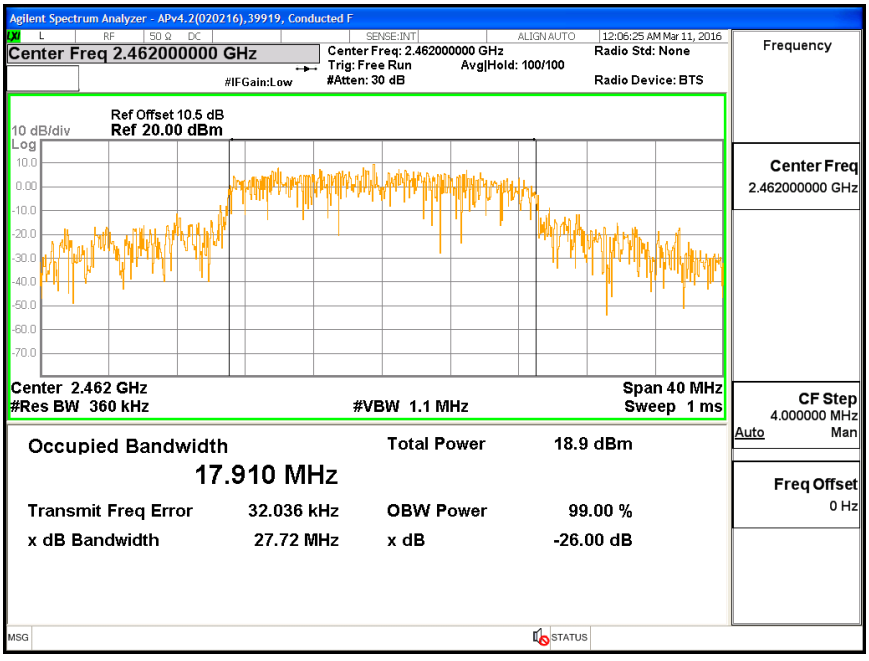
99% BANDWIDTH MID CH



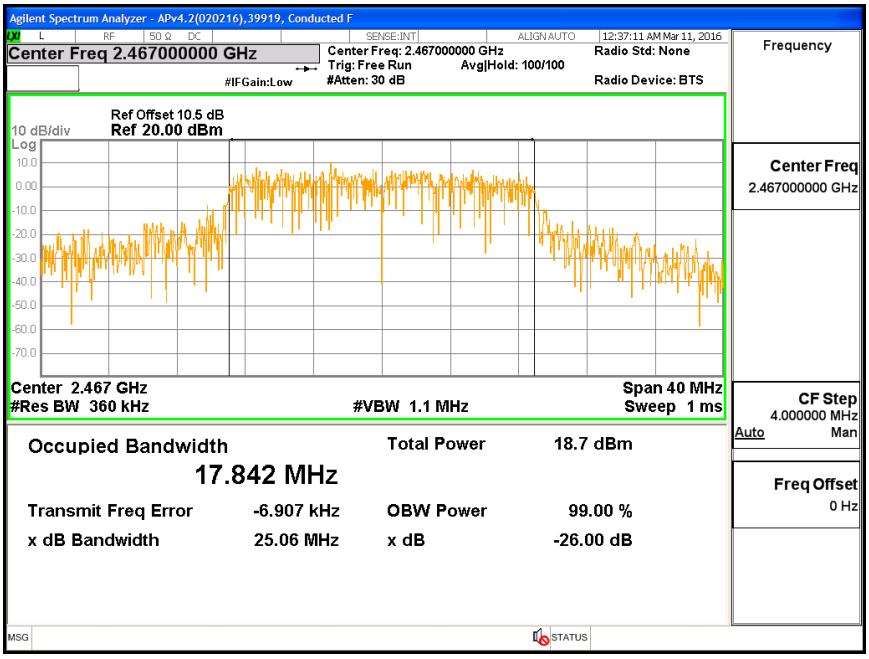
99% BANDWIDTH HIGH CH 10



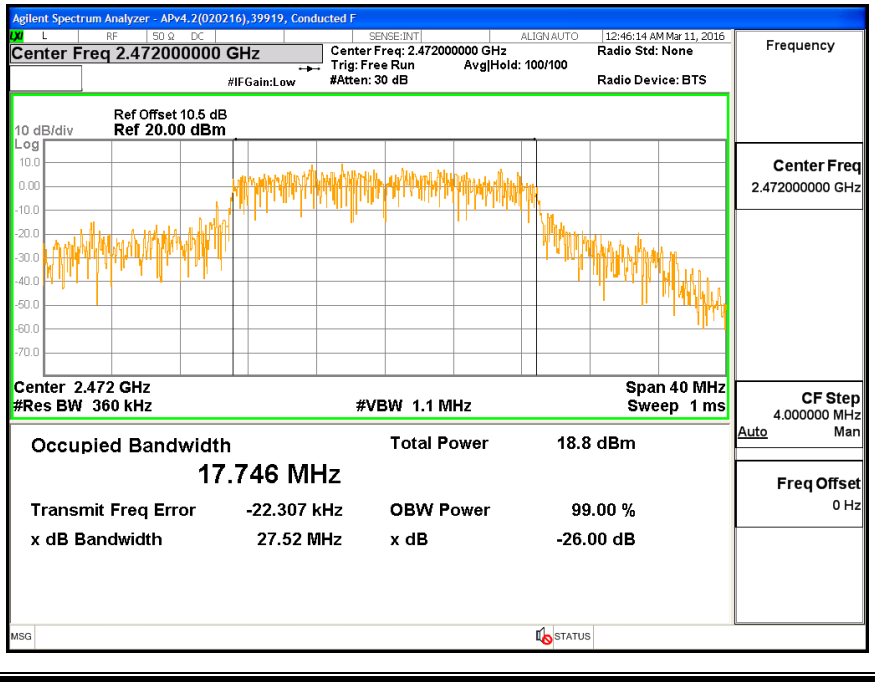
99% BANDWIDTH HIGH CH 11



99% BANDWIDTH HIGH CH 12



99% BANDWIDTH HIGH CH 13



8.7.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

ID:	39919	Date:	7/9/16

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low_1	2412	14.48	14.45	17.48
Low_2	2417	17.48	17.45	20.48
Mid_6	2437	18.96	18.89	21.94
High_10	2457	15.94	15.90	18.93
High_11	2462	14.00	13.95	16.99
High_12	2467	11.83	11.94	14.90
High_13	2472	2.50	2.46	5.49

8.7.4. 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:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-1.85	-1.35	-1.59

RESULTS

ID:	39919	Date:	7/9/16

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	-1.59	30.00	30	36	30.00
Low_2	2417	-1.59	30.00	30	36	30.00
Mid_6	2437	-1.59	30.00	30	36	30.00
High_10	2457	-1.59	30.00	30	36	30.00
High_11	2462	-1.59	30.00	30	36	30.00
High_12	2467	-1.59	30.00	30	36	30.00
High_13	2472	-1.59	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low_1	2412	20.19	20.11	23.16	30.00	-6.84
Low_2	2417	23.20	23.24	26.23	30.00	-3.77
Mid_6	2437	25.62	25.96	28.80	30.00	-1.20
High_10	2457	21.61	21.52	24.58	30.00	-5.42
High_11	2462	20.79	20.74	23.78	30.00	-6.22
High_12	2467	18.72	18.66	21.70	30.00	-8.30
High_13	2472	8.26	8.12	11.20	30.00	-18.80

8.7.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

For digitally modulated systems, the power spectral density conducted form 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

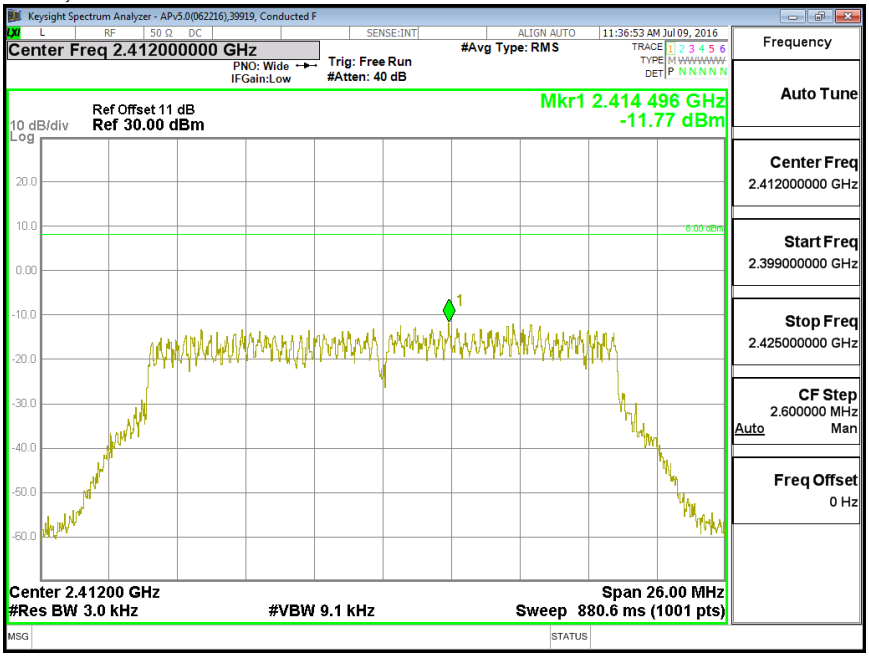
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

PSD Results

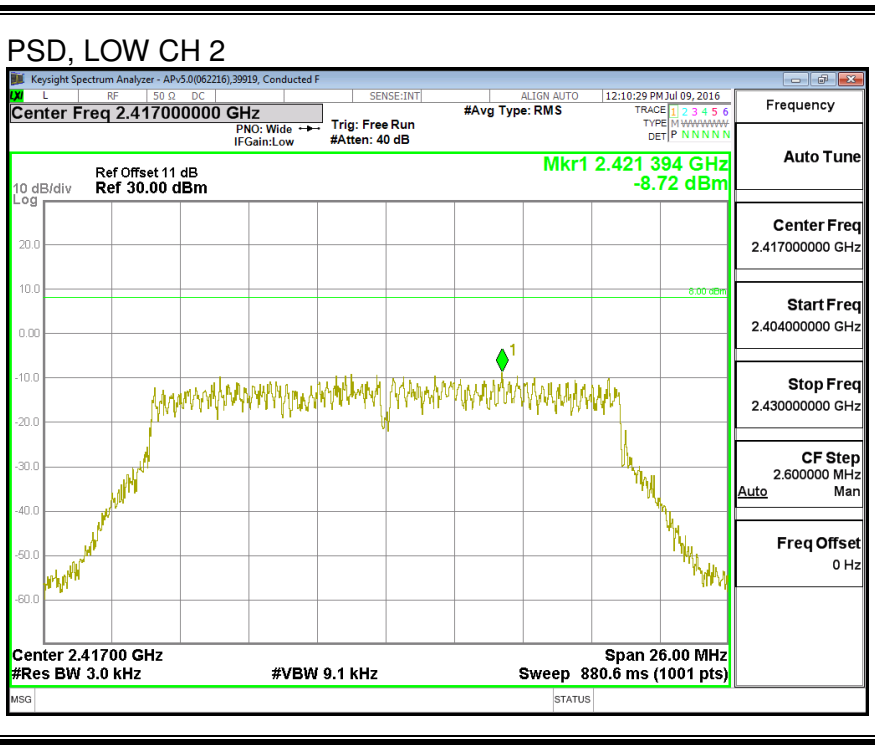
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-11.77	-12.14	-8.94	8.0	-16.9
Low_2	2417	-8.72	-8.82	-5.76	8.0	-13.8
Mid_6	2437	-7.12	-8.07	-4.56	8.0	-12.6
High_10	2457	-9.58	-9.97	-6.76	8.0	-14.8
High_11	2462	-12.19	-12.40	-9.28	8.0	-17.3
High_12	2467	-14.48	-14.59	-11.52	8.0	-19.5
High_13	2472	-22.79	-23.24	-20.00	8.0	-28.0

PSD, Chain 0

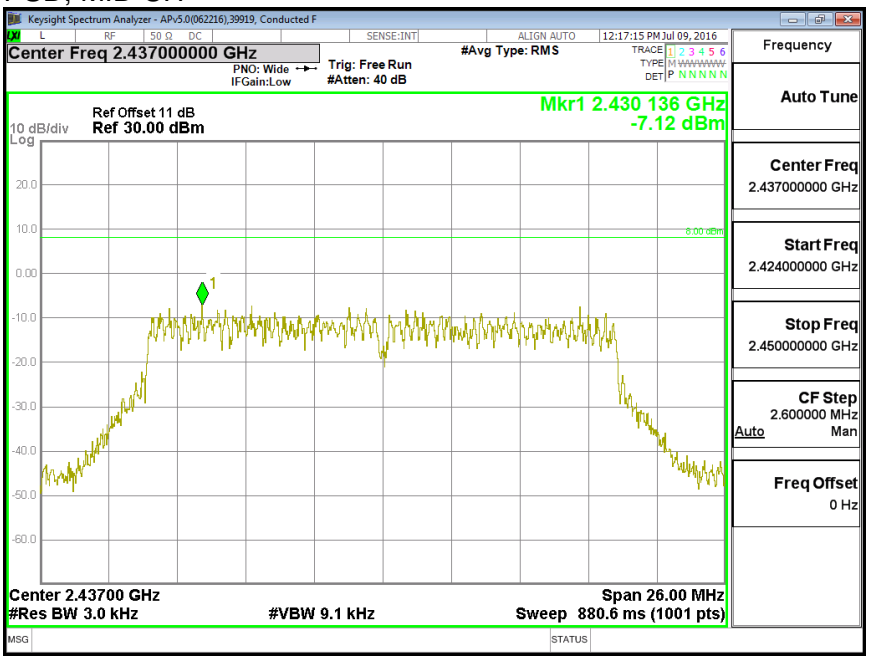
PSD, LOW CH 1



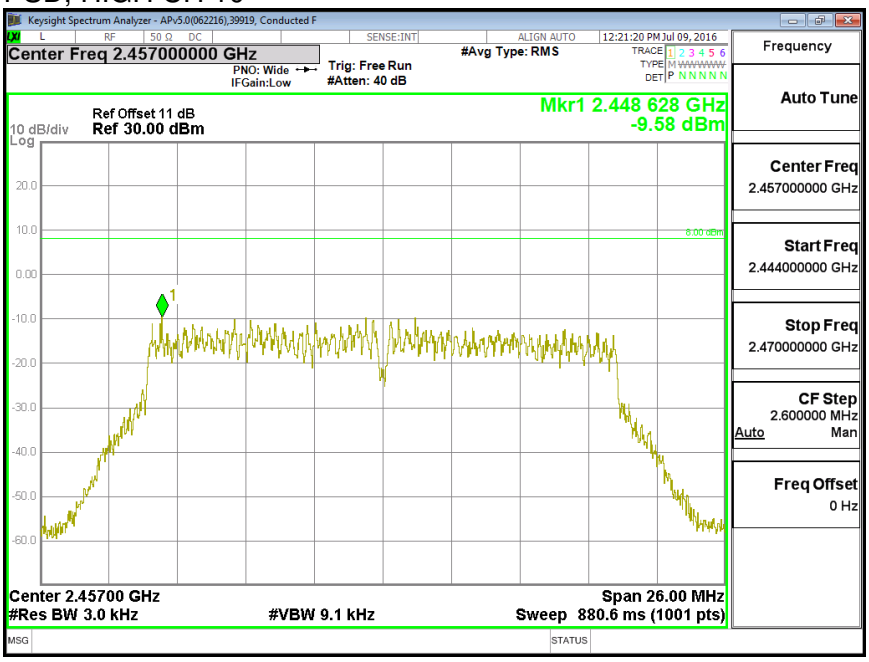
PSD, LOW CH 2



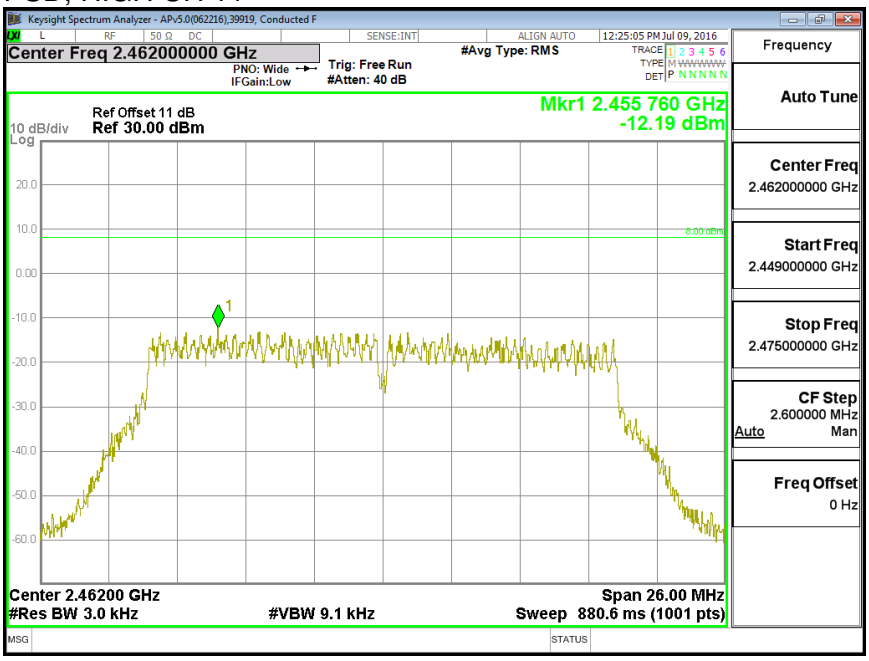
PSD, MID CH



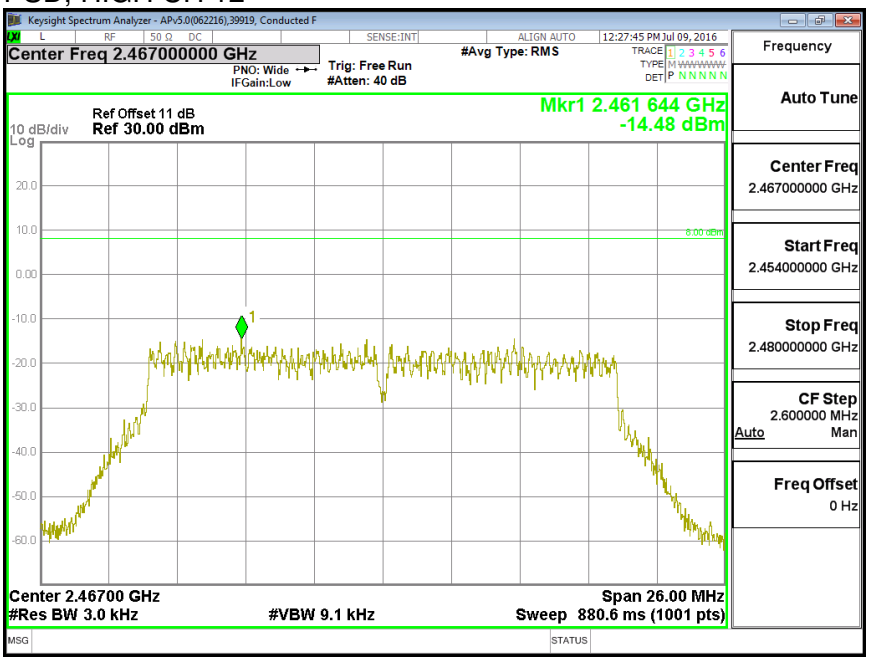
PSD, HIGH CH 10



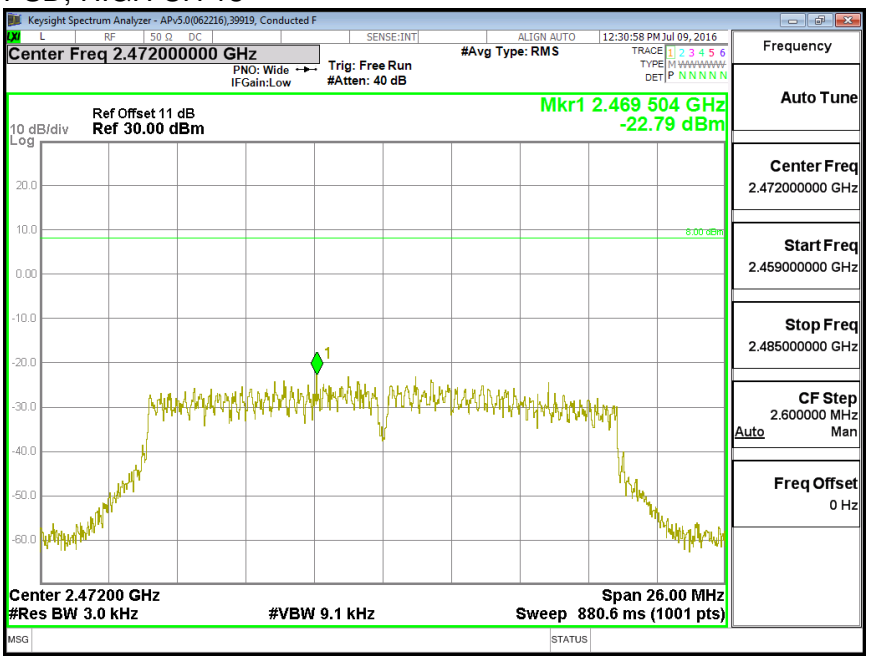
PSD, HIGH CH 11



PSD, HIGH CH 12

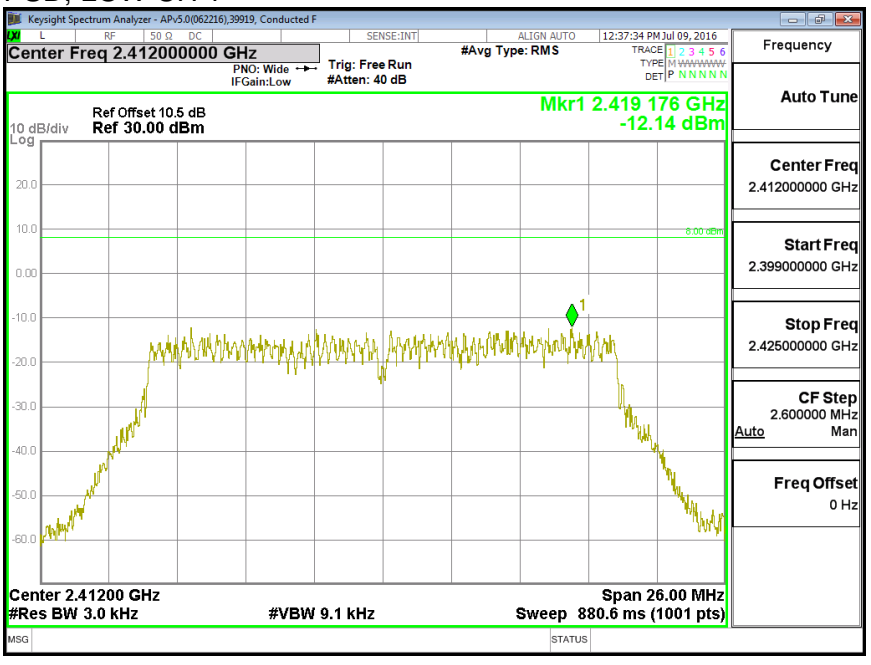


PSD, HIGH CH 13

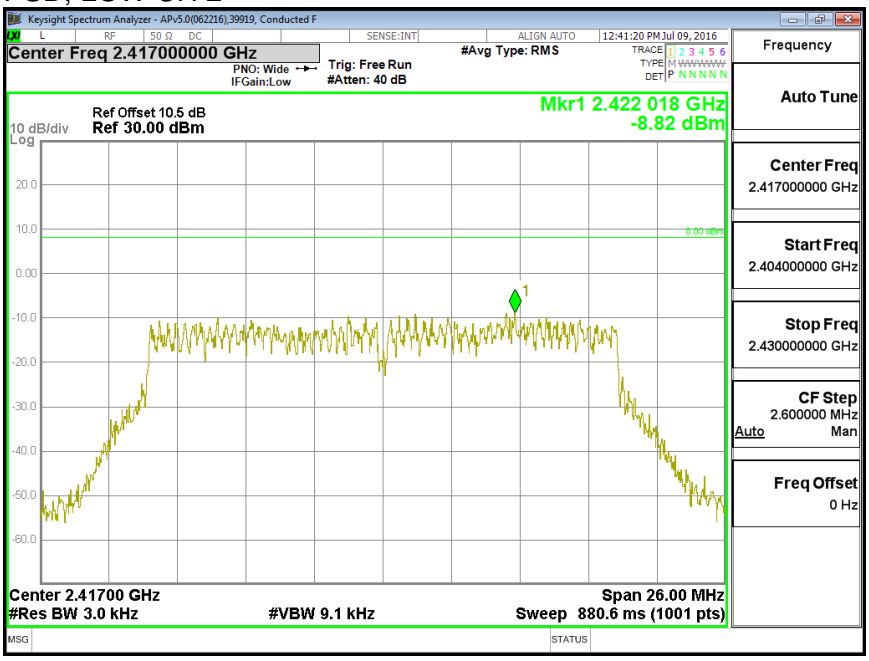


PSD, Chain 1

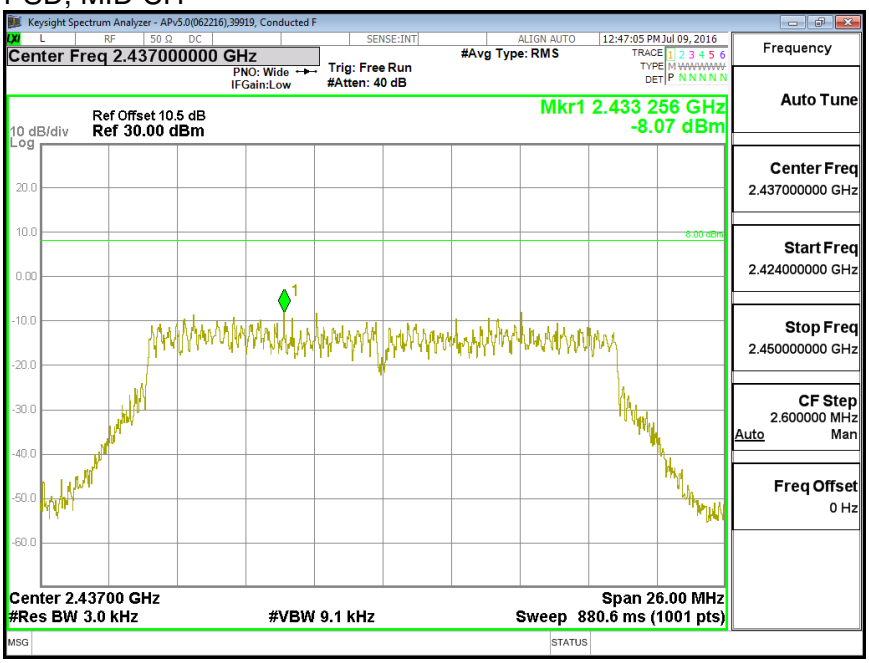
PSD, LOW CH 1



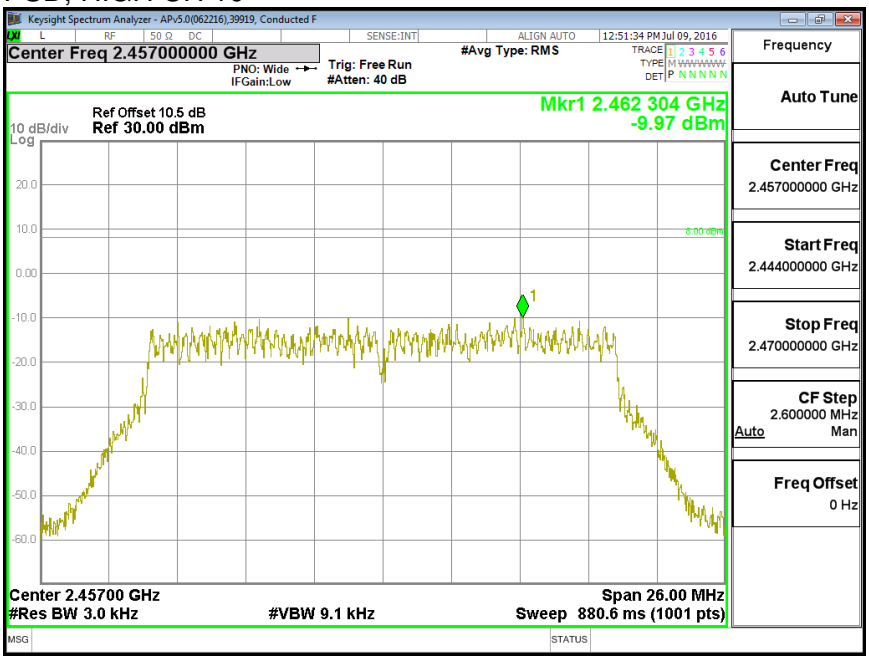
PSD, LOW CH 2



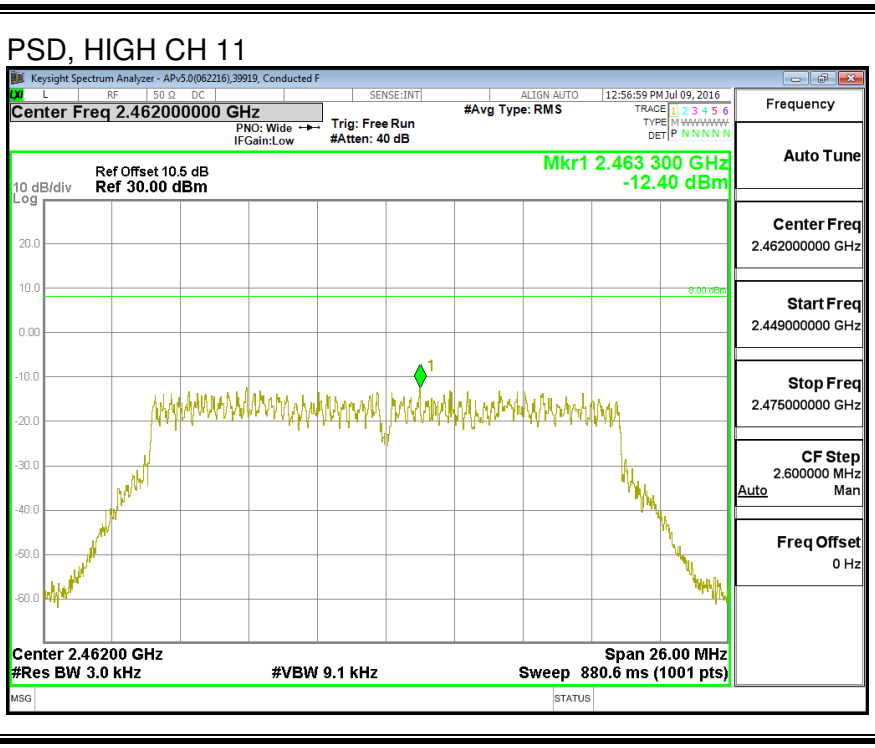
PSD, MID CH



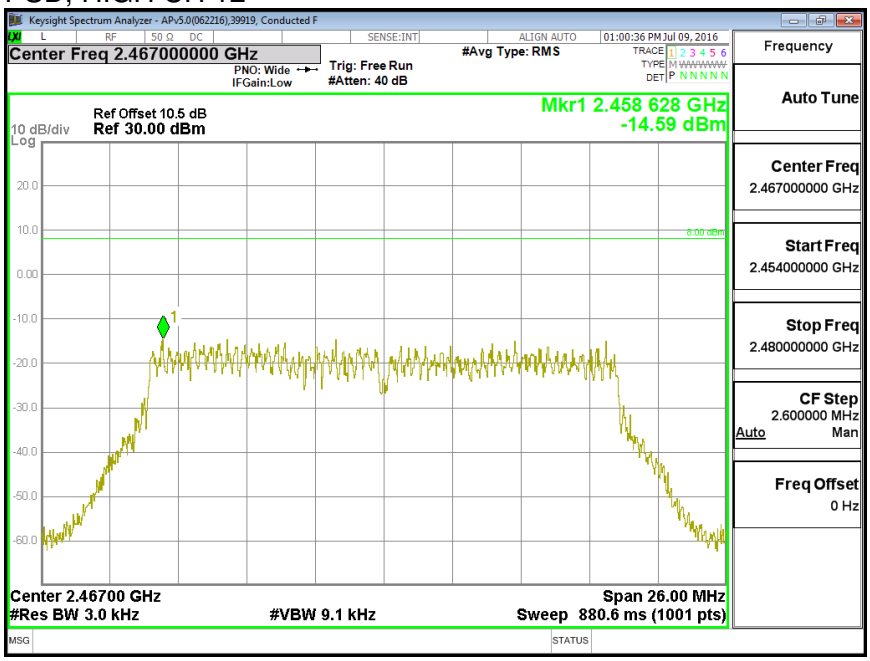
PSD, HIGH CH 10



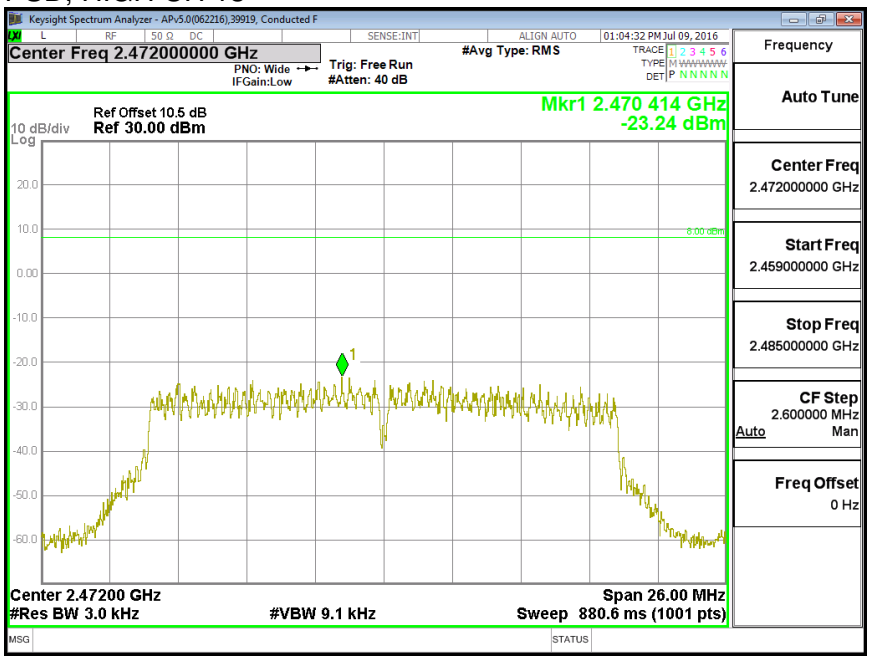
PSD, HIGH CH 11



PSD, HIGH CH 12



PSD, HIGH CH 13



8.7.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

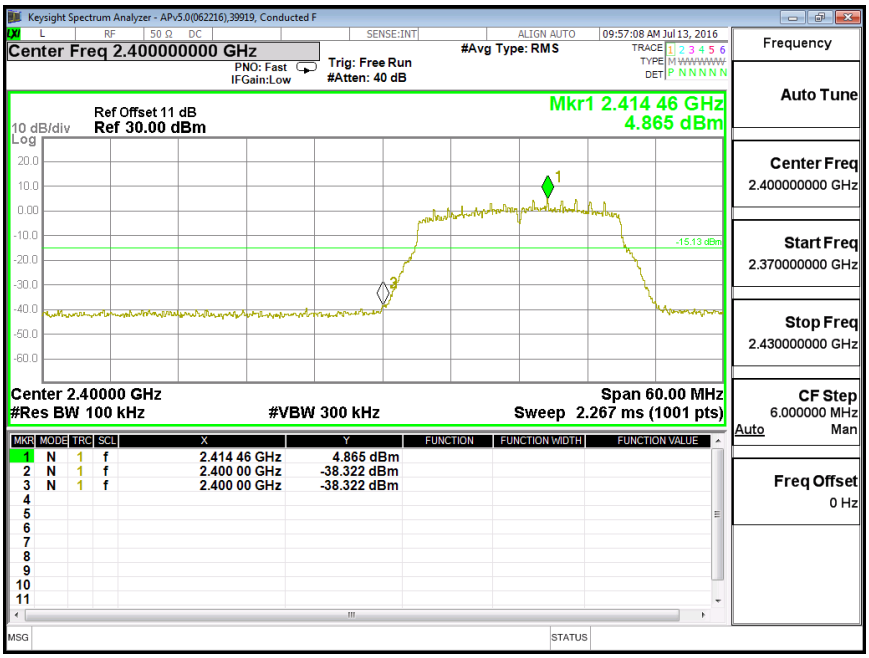
IC RSS-247 (5.5)

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.

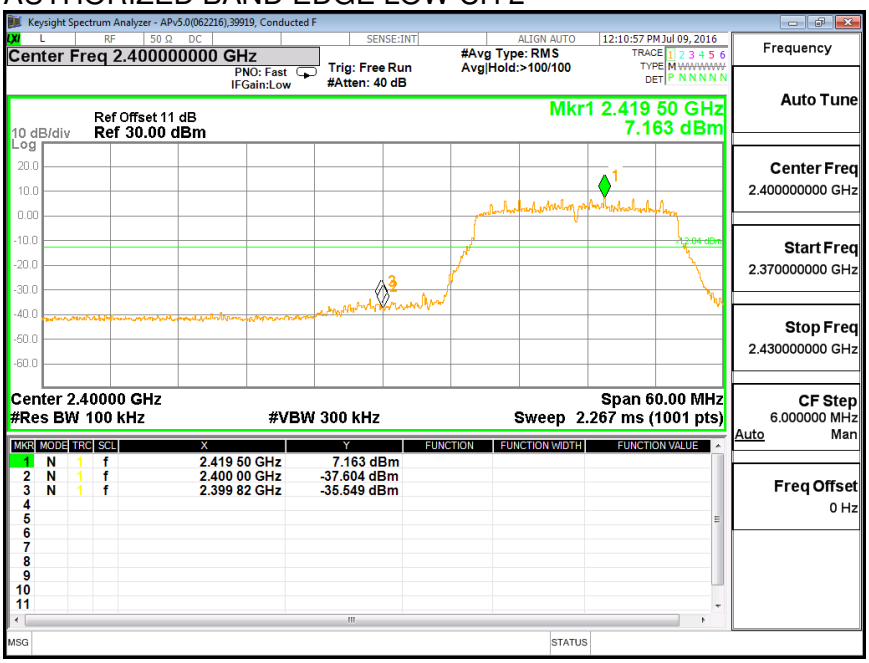
RESULTS

LOW CHANNEL BANDEDGE, Chain 0

AUTHORIZED BAND EDGE LOW CH 1

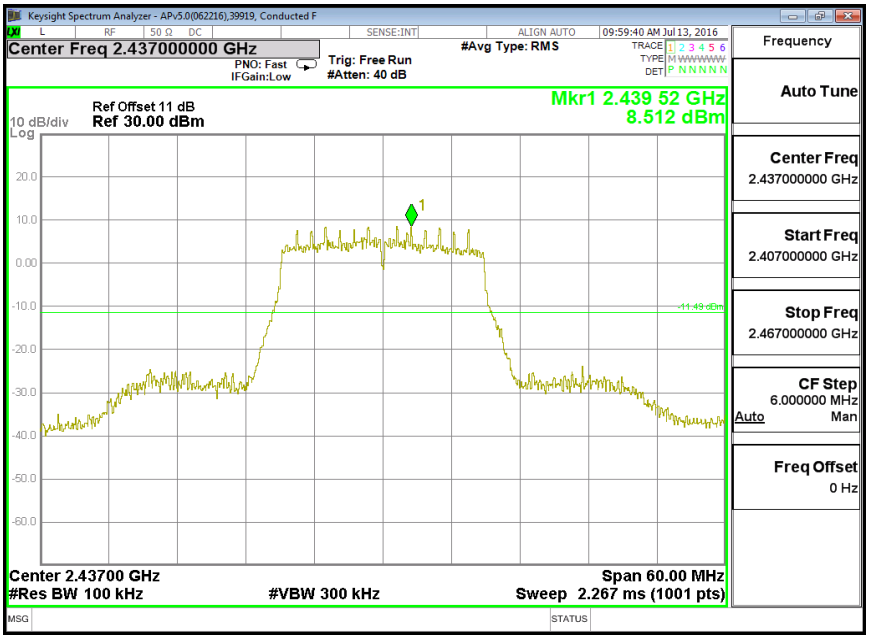


AUTHORIZED BAND EDGE LOW CH 2



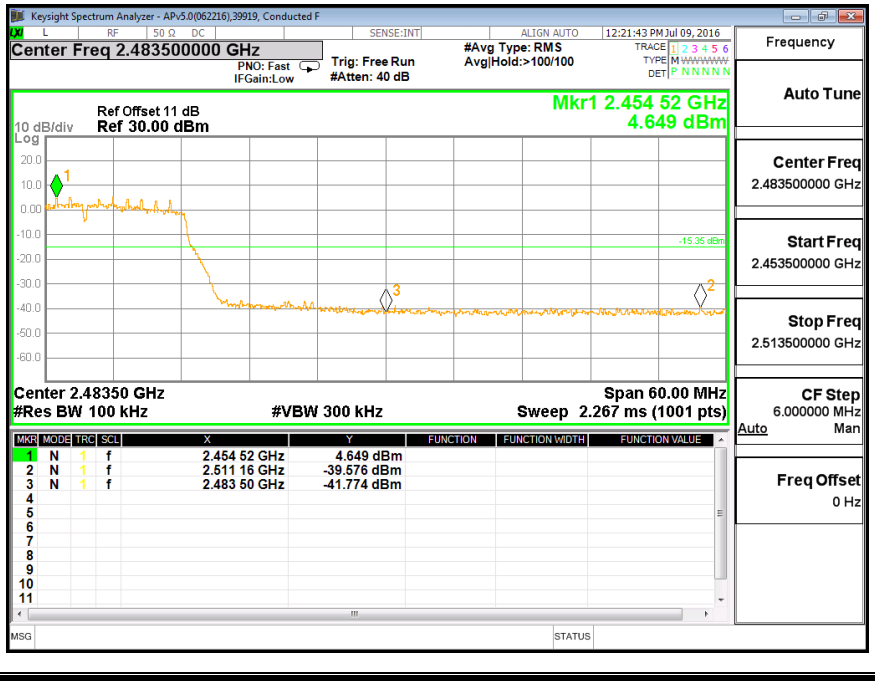
MID CHANNEL REFERENCE, Chain 0

REFERENCE MID CH

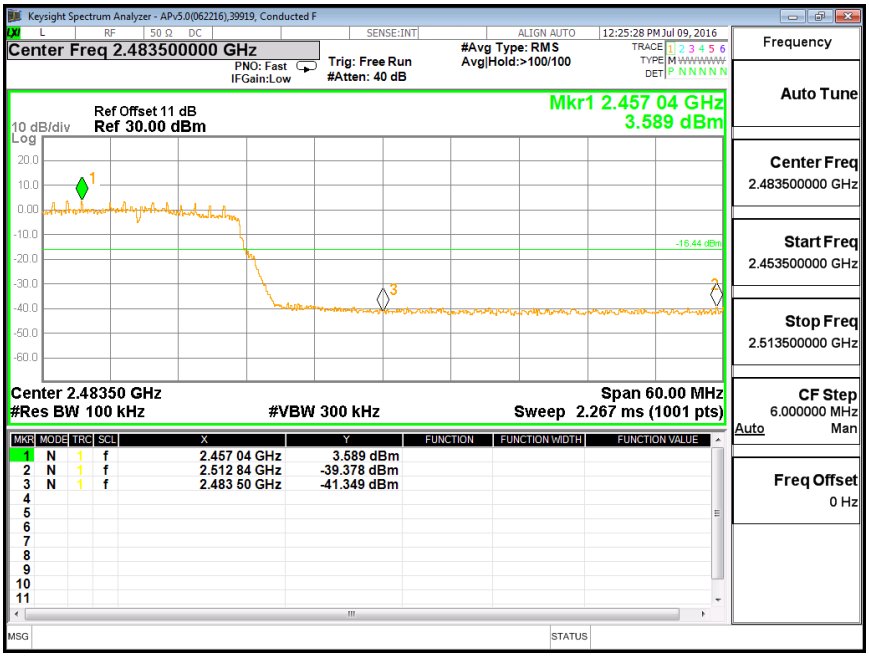


HIGH CHANNEL BANDEDGE, Chain 0

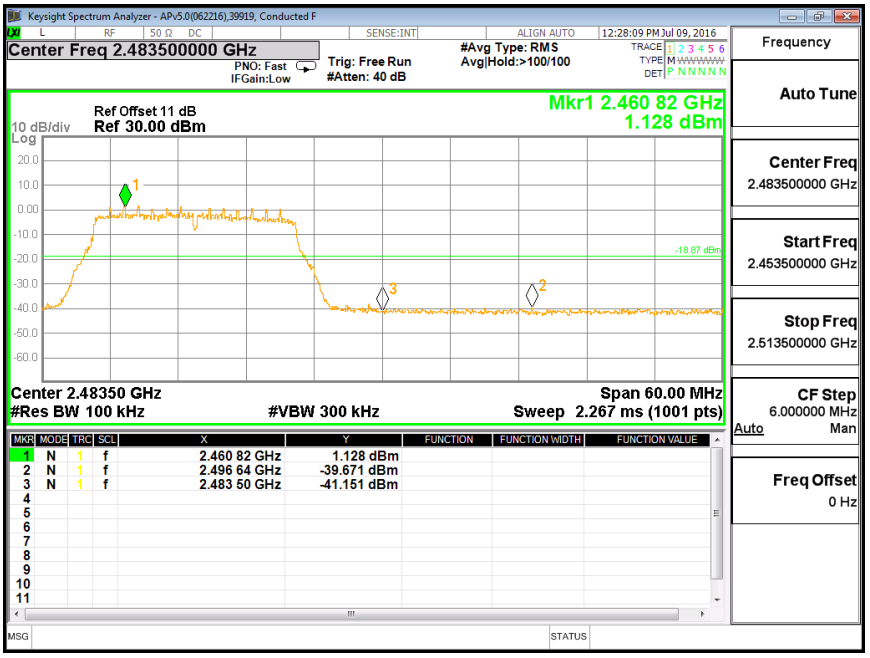
AUTHORIZED BAND EDGE HIGH CH 10



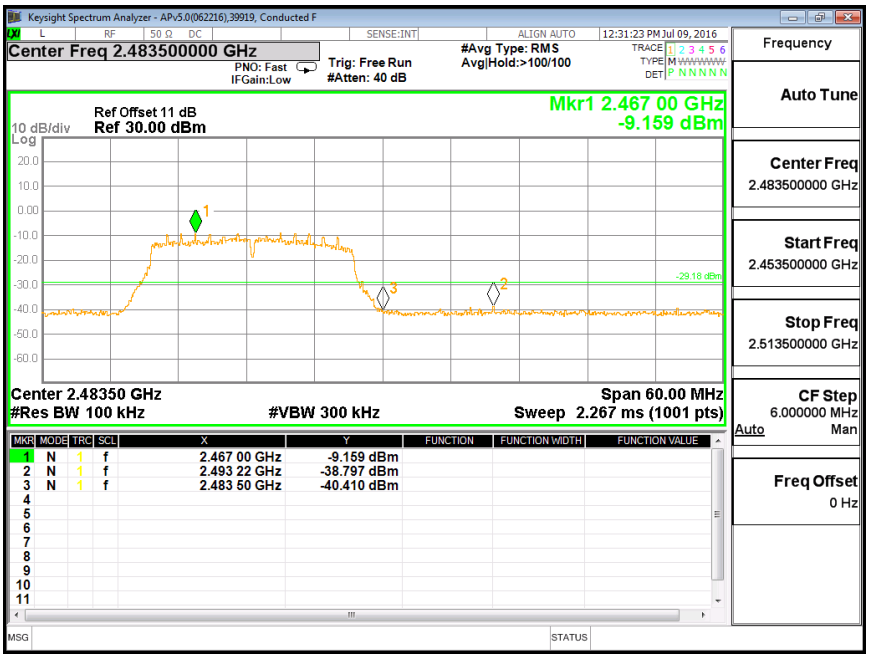
AUTHORIZED BAND EDGE HIGH CH 11



AUTHORIZED BAND EDGE HIGH CH 12

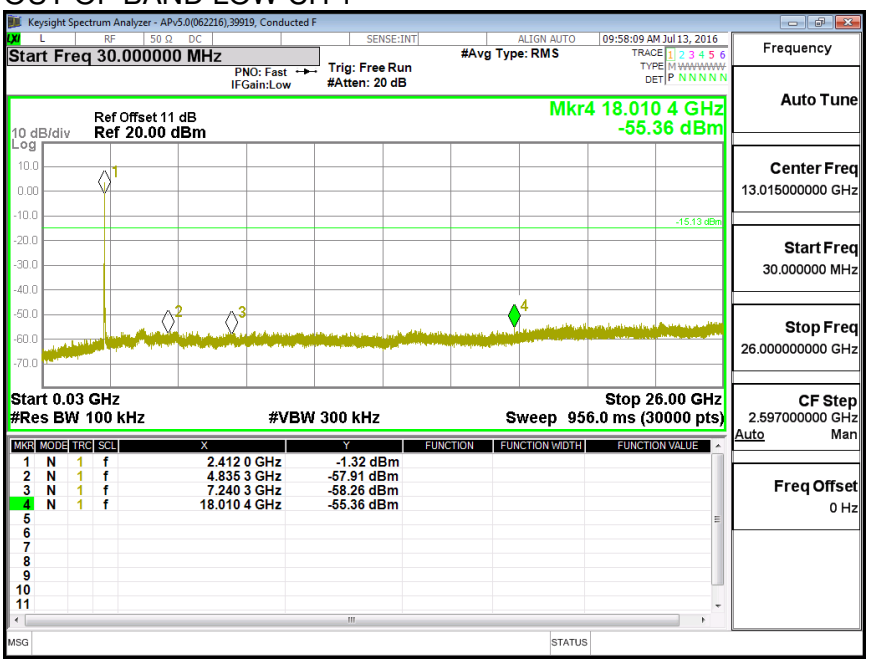


AUTHORIZED BAND EDGE HIGH CH 13

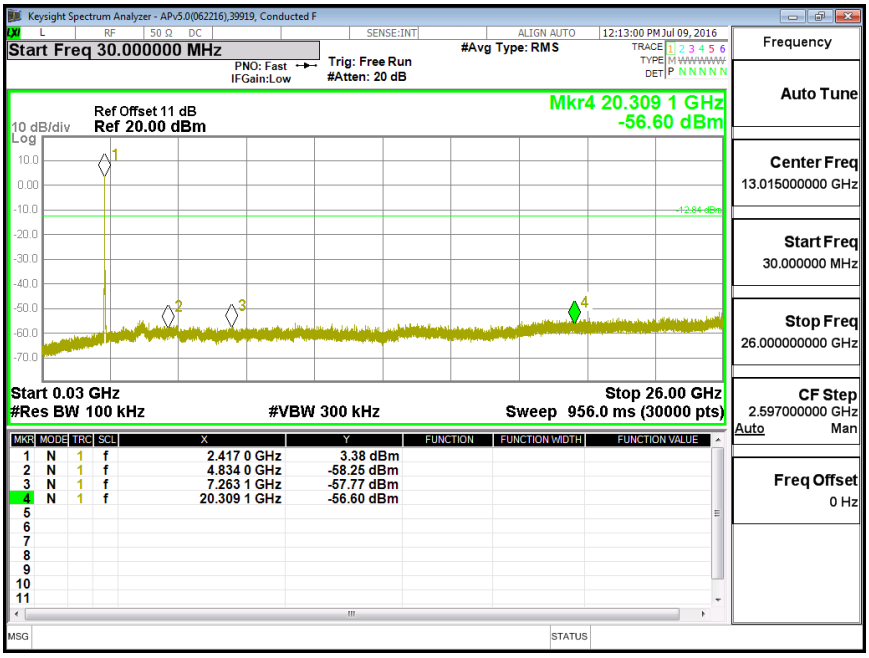


OUT-OF-BAND EMISSIONS, Chain 0

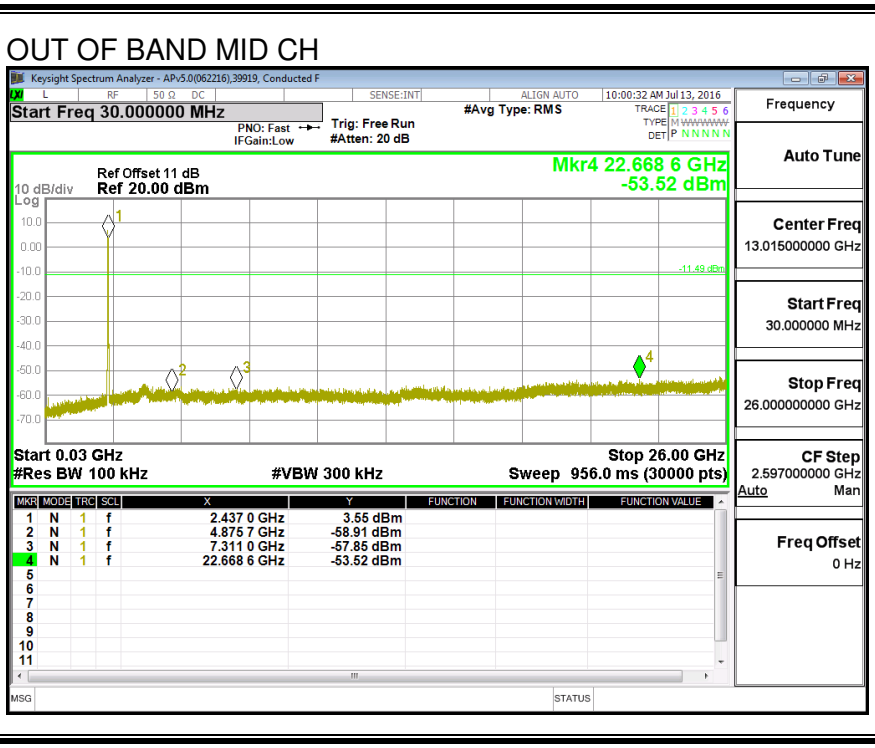
OUT OF BAND LOW CH 1



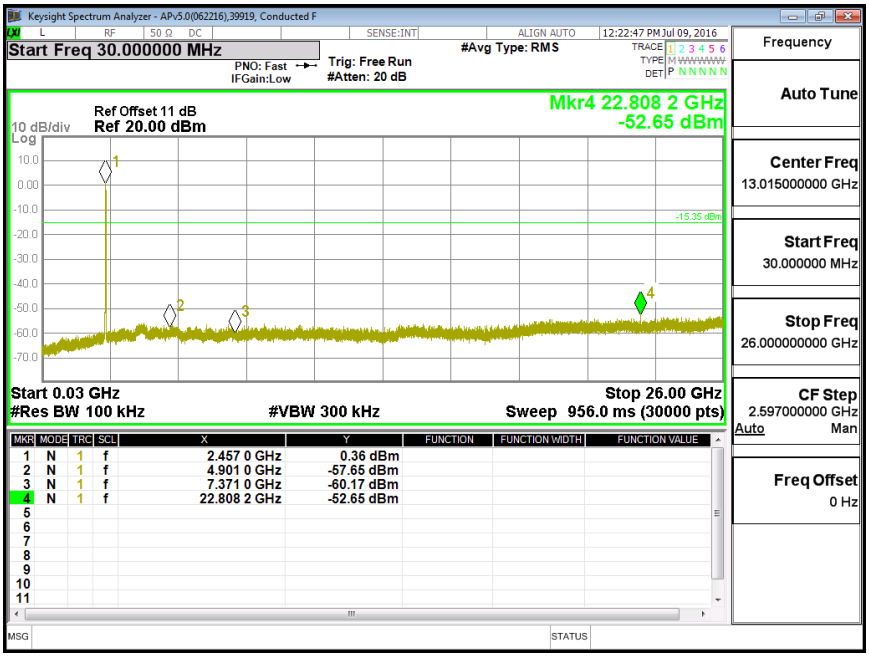
OUT OF BAND LOW CH 2



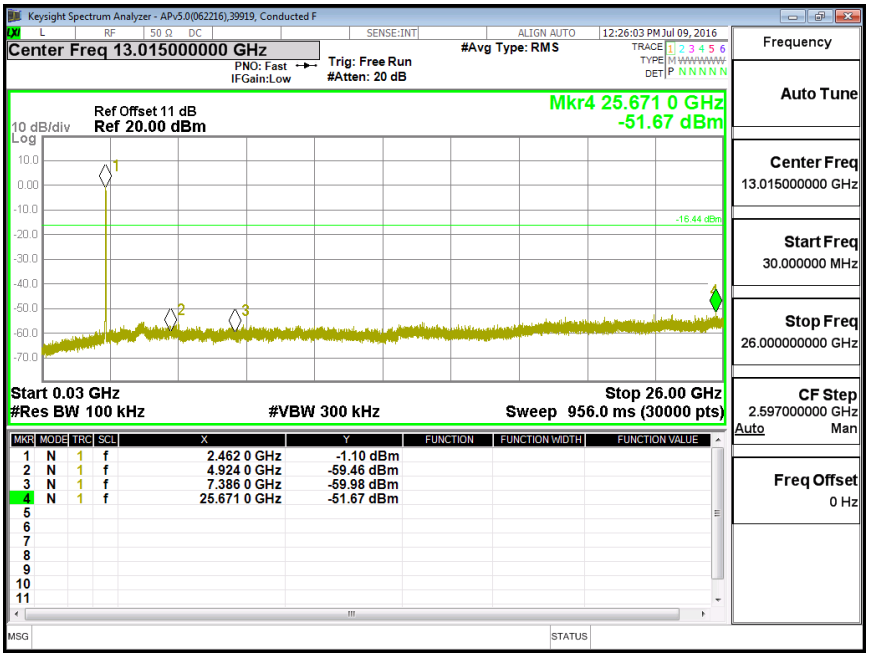
OUT OF BAND MID CH



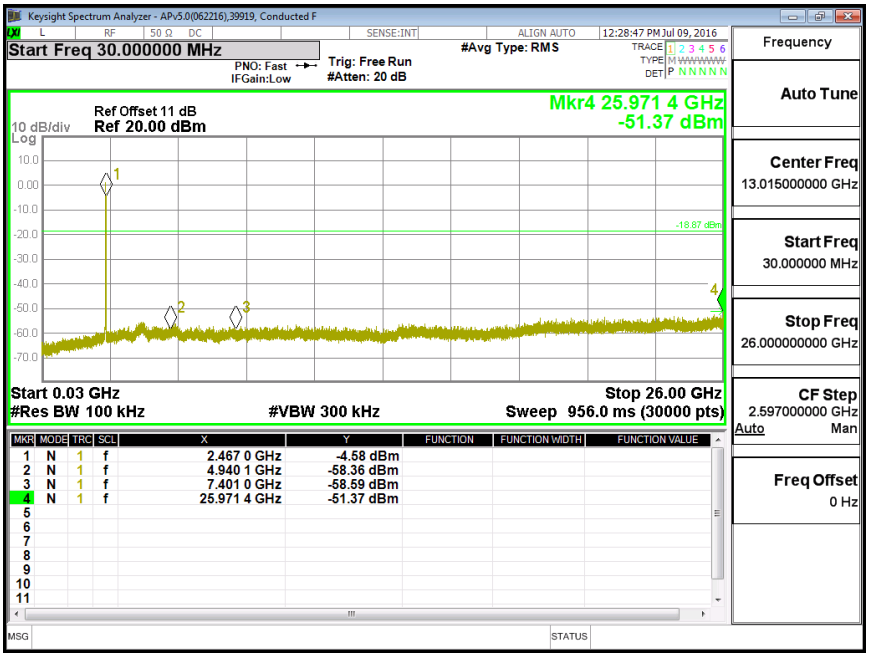
OUT OF BAND HIGH CH 10



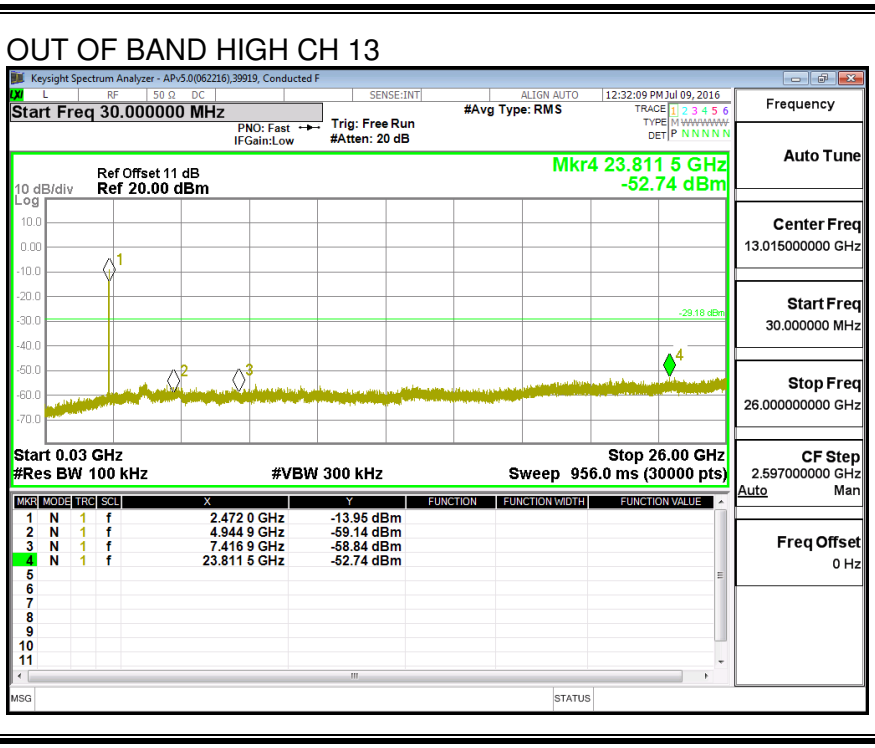
OUT OF BAND HIGH CH 11



OUT OF BAND HIGH CH 12

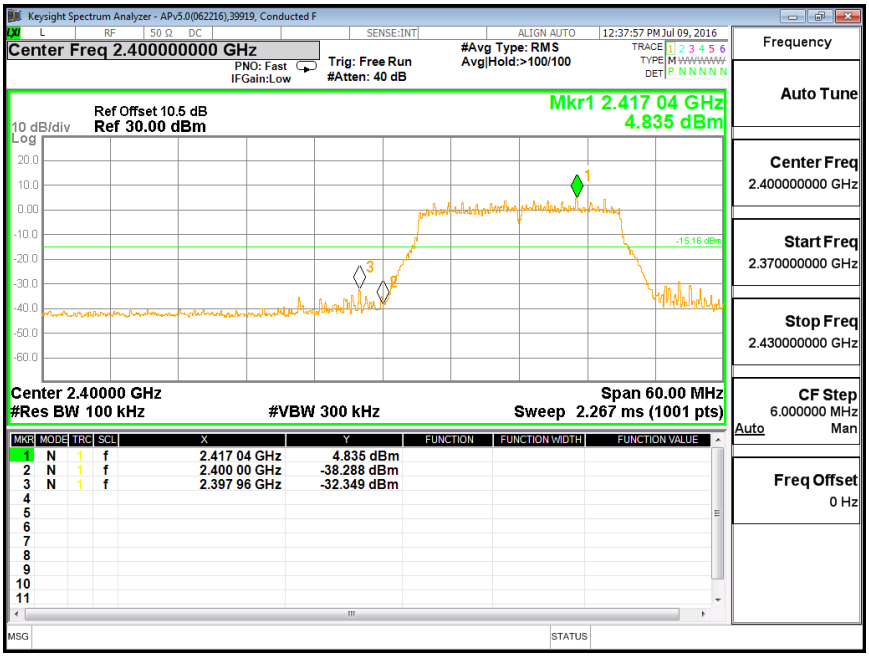


OUT OF BAND HIGH CH 13

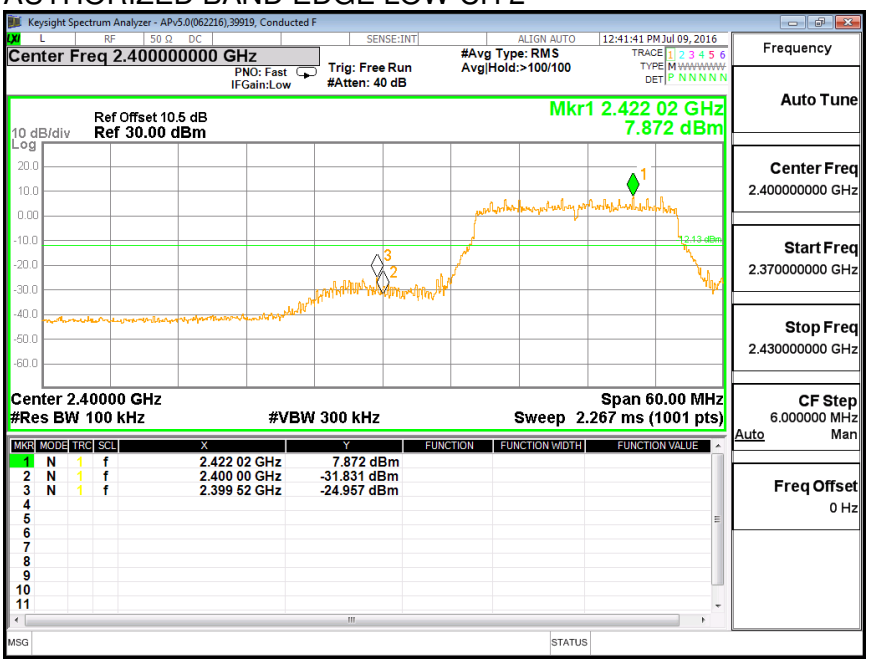


LOW CHANNEL BANDEDGE, Chain 1

AUTHORIZED BAND EDGE LOW CH 1

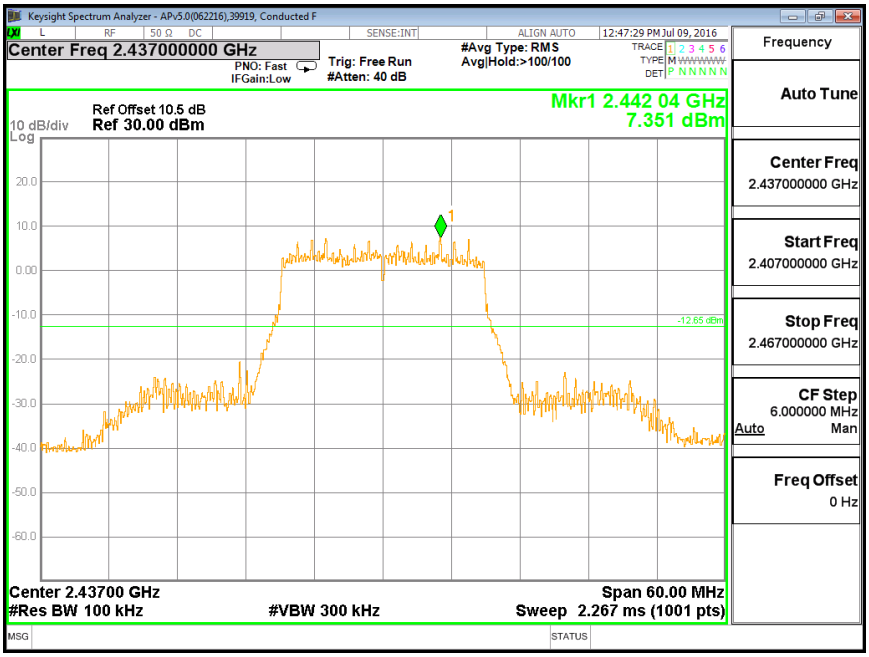


AUTHORIZED BAND EDGE LOW CH 2



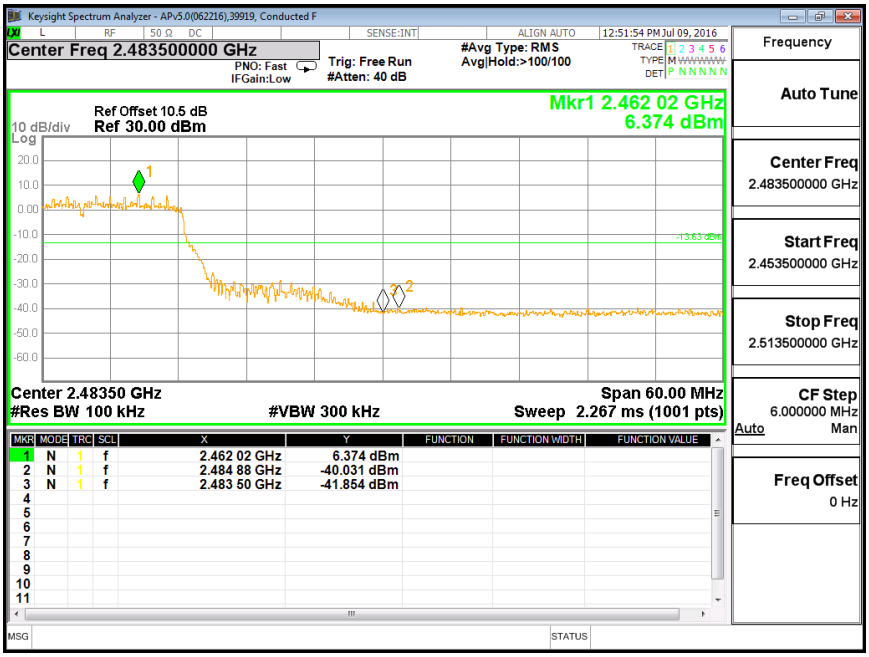
MID CHANNEL REFERENCE, Chain 1

REFERENCE MID CH

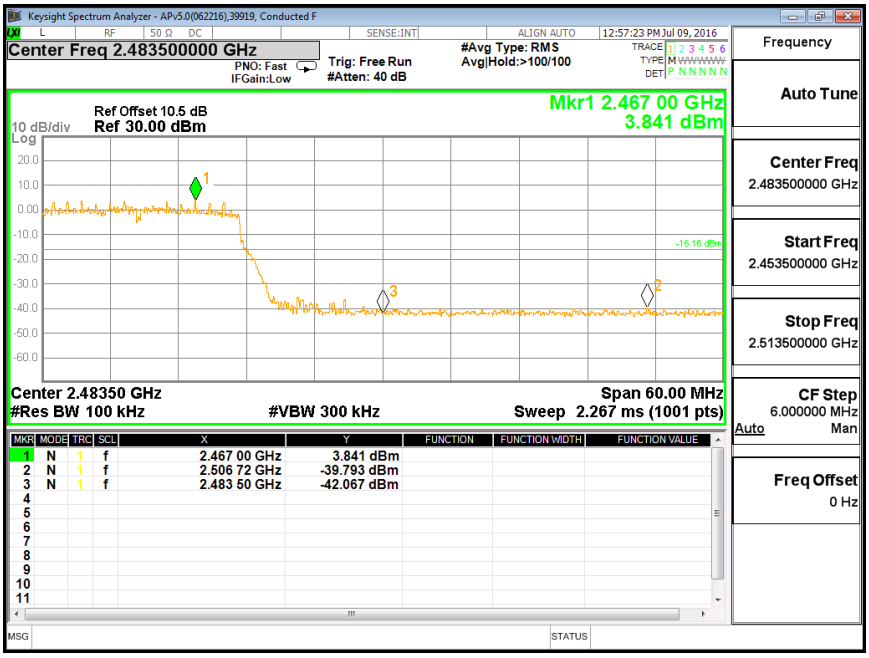


HIGH CHANNEL BANDEDGE, Chain 1

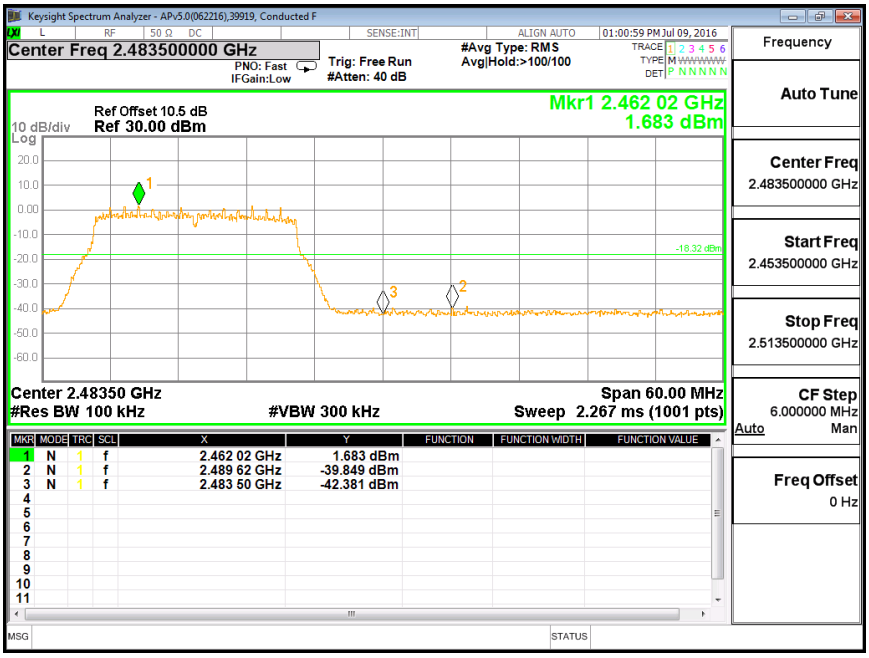
AUTHORIZED BAND EDGE HIGH CH 10



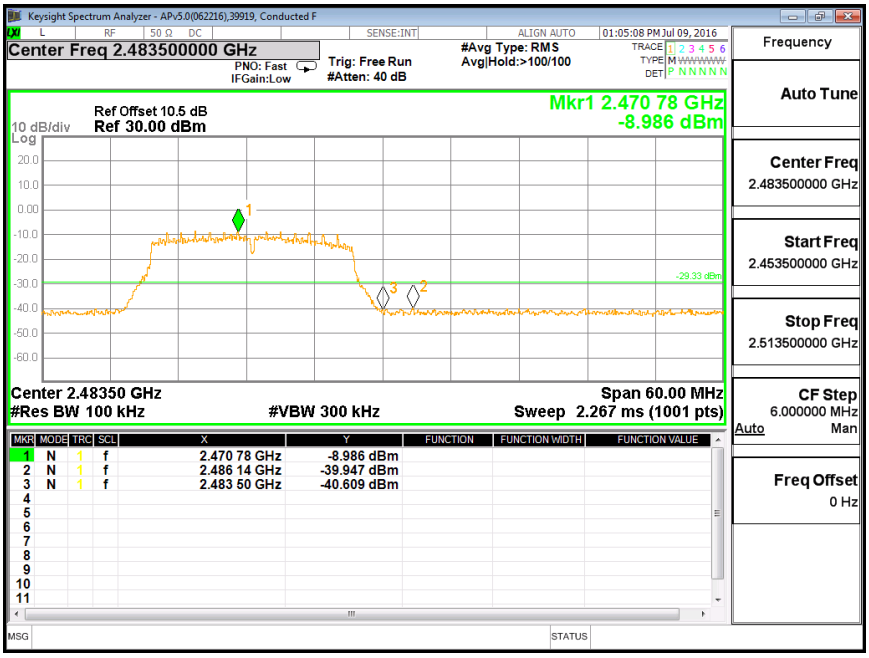
AUTHORIZED BAND EDGE HIGH CH 11



AUTHORIZED BAND EDGE HIGH CH 12

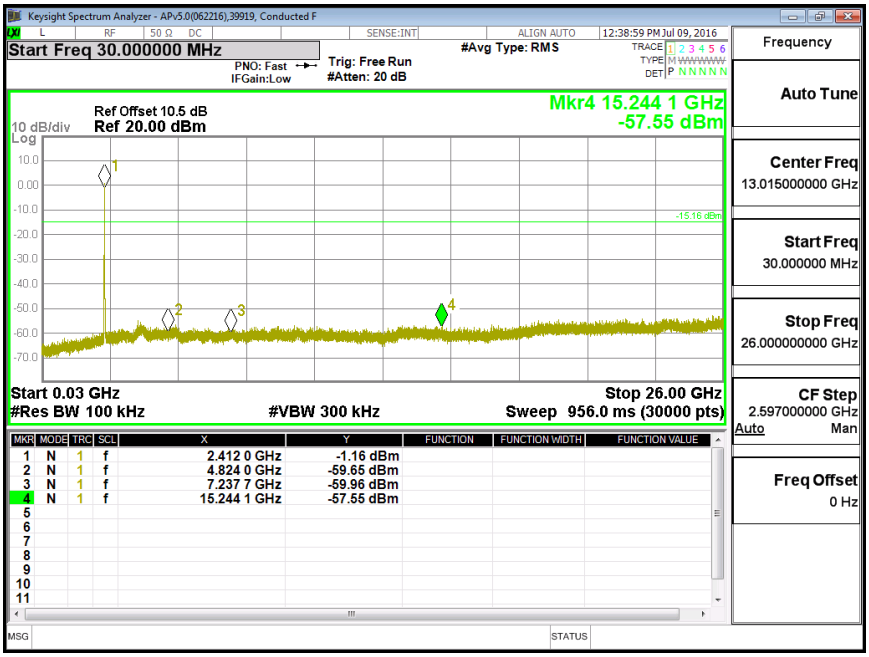


AUTHORIZED BAND EDGE HIGH CH 13

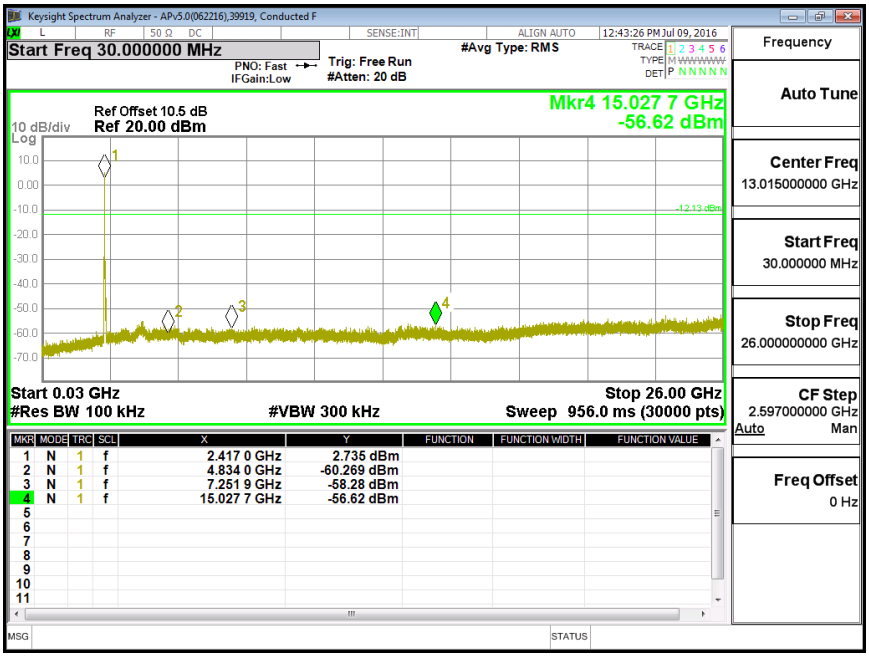


OUT-OF-BAND EMISSIONS, Chain 1

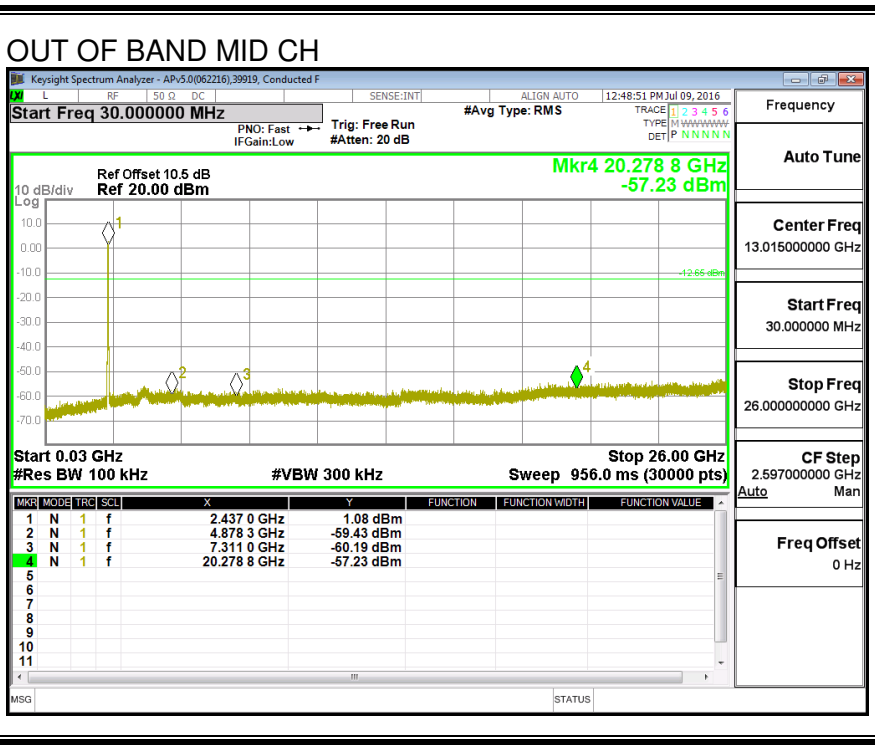
OUT OF BAND LOW CH 1



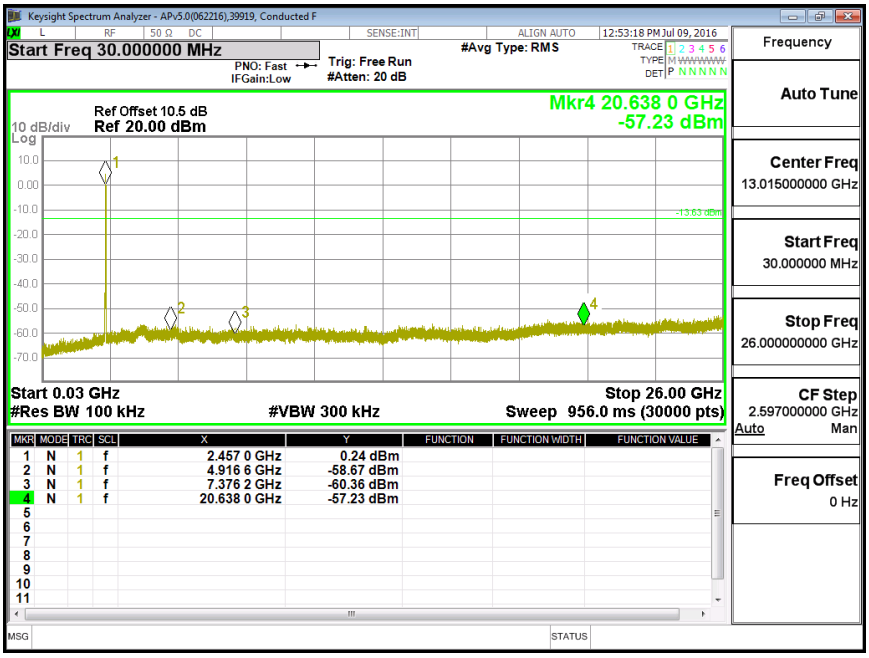
OUT OF BAND LOW CH 2



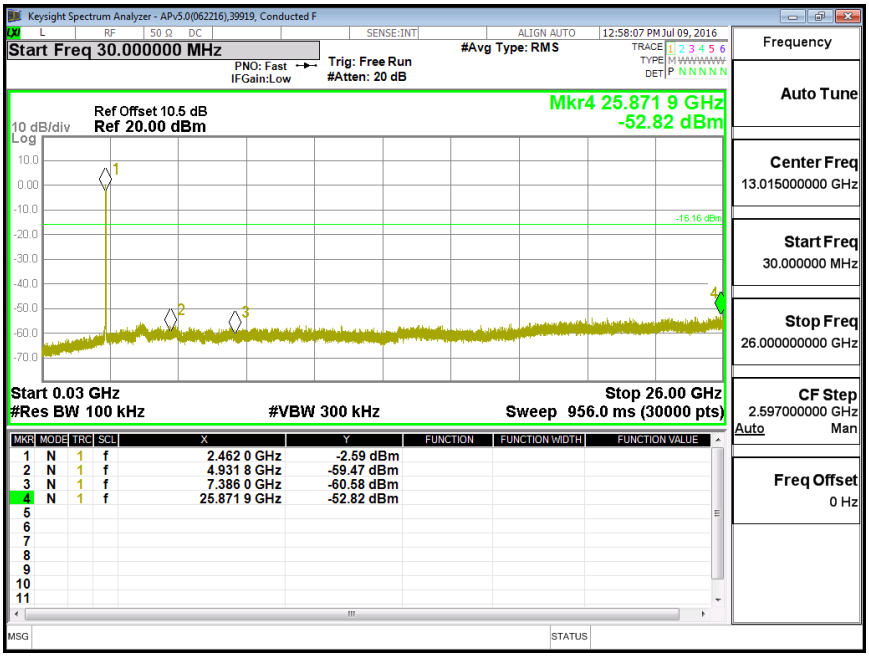
OUT OF BAND MID CH



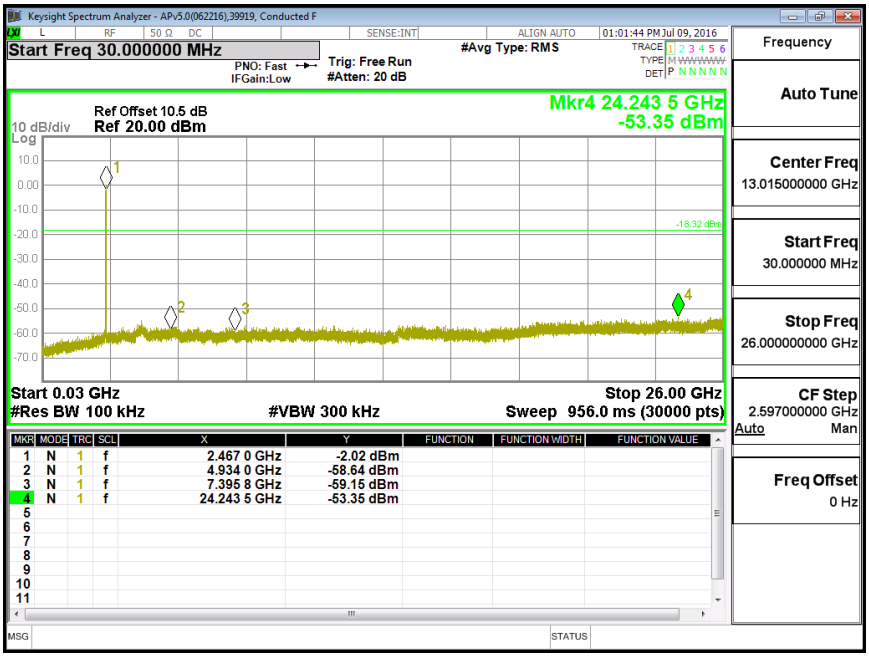
OUT OF BAND HIGH CH 10



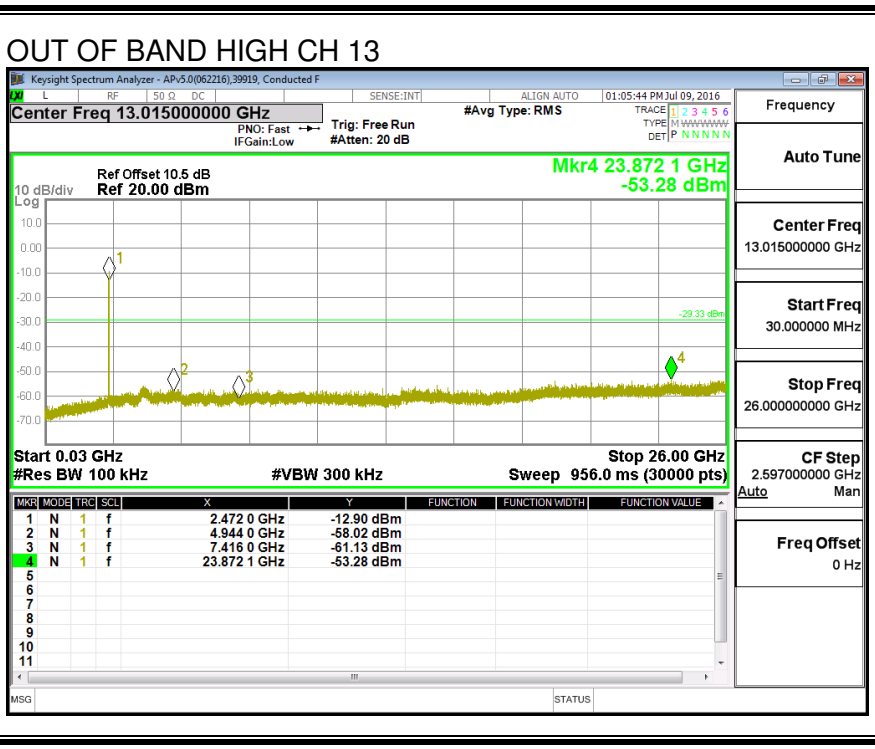
OUT OF BAND HIGH CH 11



OUT OF BAND HIGH CH 12



OUT OF BAND HIGH CH 13



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 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.

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.

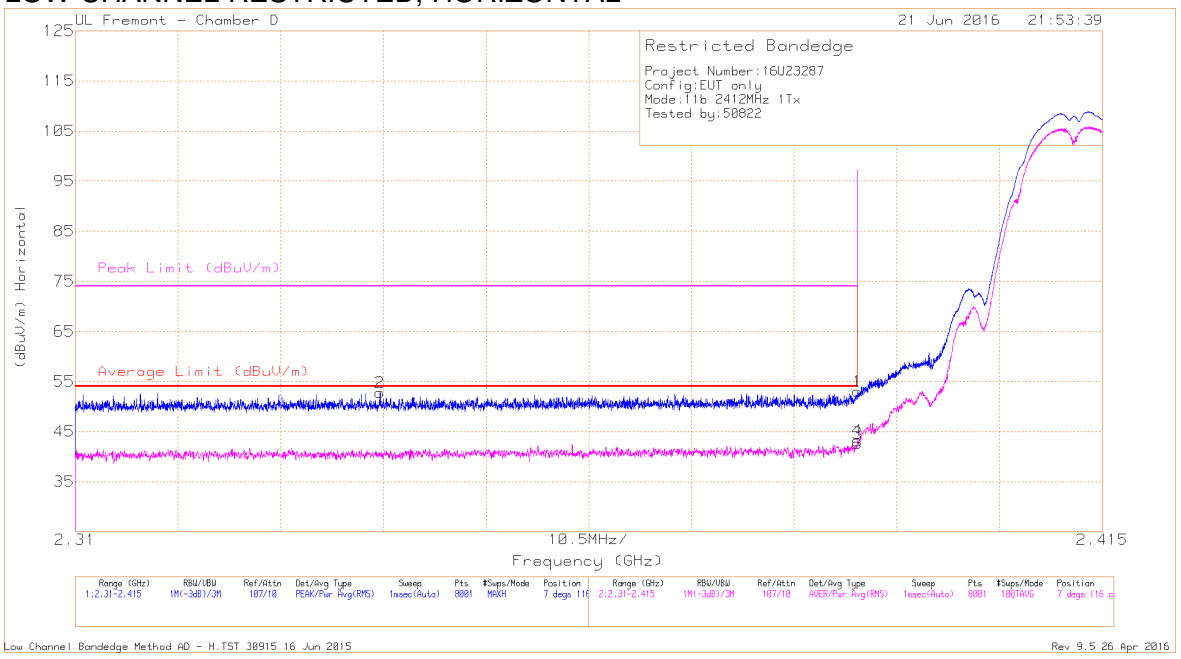
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized 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 CHAIN 0

RESTRICTED BANDEDGE (LOW CHANNEL, CH 1)

LOW CHANNEL RESTRICTED, HORIZONTAL

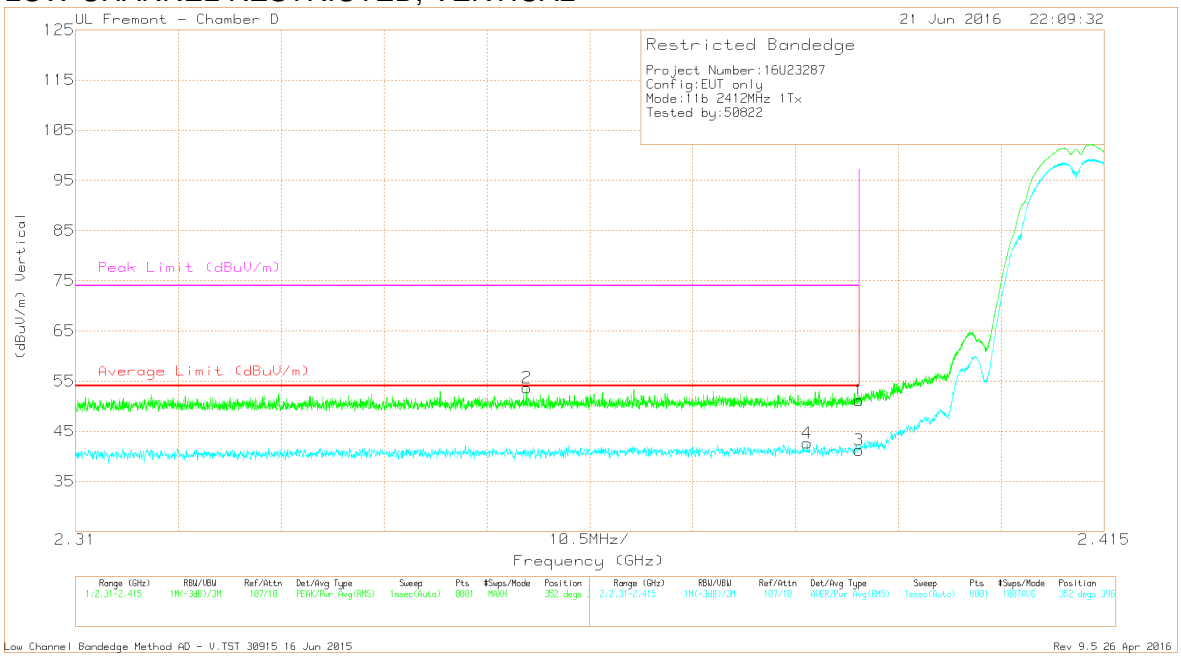


DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	41.48	Pk	32.1	-20.6	52.98	-	-	74	-21.02	7	116	H
2	* 2.341	41.77	Pk	31.7	-20.7	52.77	-	-	74	-21.23	7	116	H
3	* 2.39	31.15	RMS	32.1	-20.6	42.65	54	-11.35	-	-	7	116	H
4	* 2.39	31.69	RMS	32.1	-20.6	43.19	54	-10.81	-	-	7	116	H

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

LOW CHANNEL RESTRICTED, VERTICAL



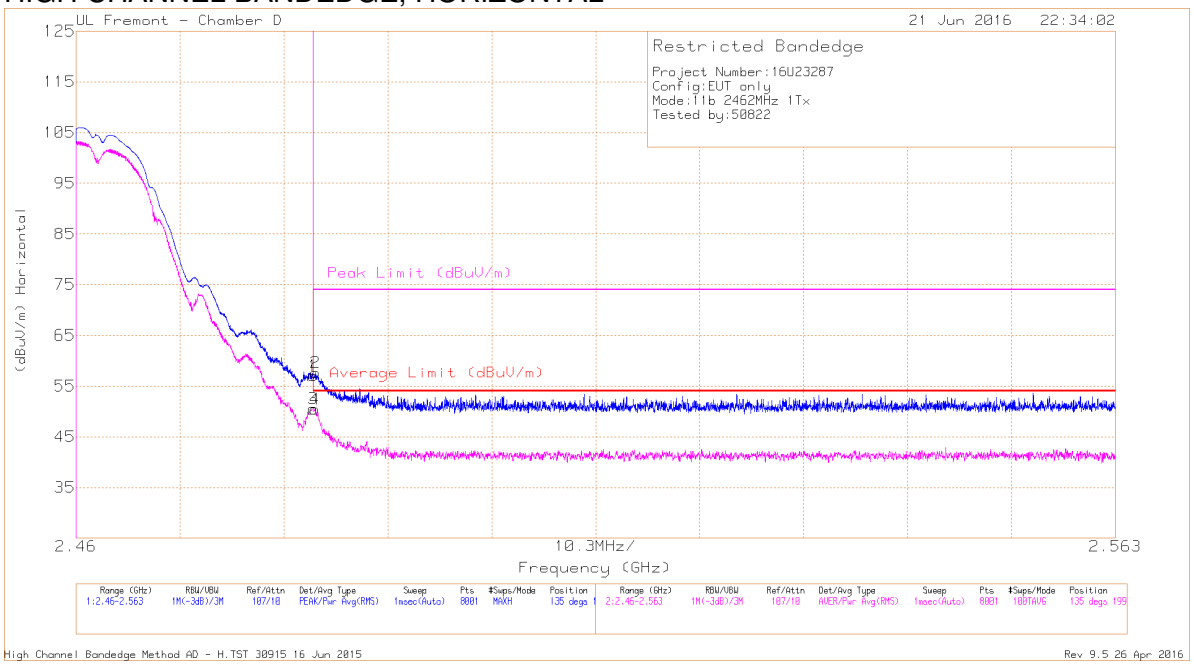
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	* 2.356	42.57	Pk	31.8	-20.7	53.67	-	-	74	-20.33	352	396	V
4	* 2.385	31.15	RMS	32.1	-20.6	42.65	54	-11.35	-	-	352	396	V
1	* 2.39	39.63	Pk	32.1	-20.6	51.13	-	-	74	-22.87	352	396	V
3	* 2.39	29.73	RMS	32.1	-20.6	41.23	54	-12.77	-	-	352	396	V

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

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 11)

HIGH CHANNEL BANDEDGE, HORIZONTAL

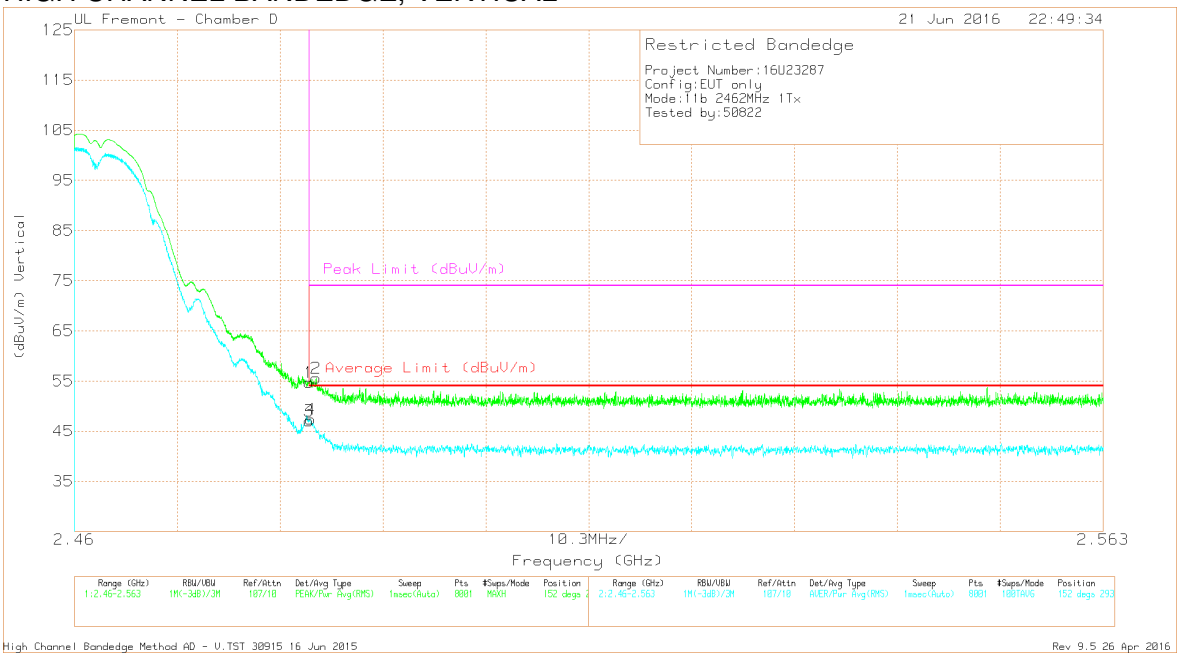


DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	45.23	Pk	32.3	-20.5	57.03	-	-	74	-16.97	135	199	H
2	* 2.484	45.85	Pk	32.3	-20.5	57.65	-	-	74	-16.35	135	199	H
3	* 2.484	38.72	RMS	32.3	-20.5	50.52	54	-3.48	-	-	135	199	H
4	* 2.484	38.64	RMS	32.3	-20.5	50.44	54	-3.56	-	-	135	199	H

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

HIGH CHANNEL BANDEDGE, VERTICAL



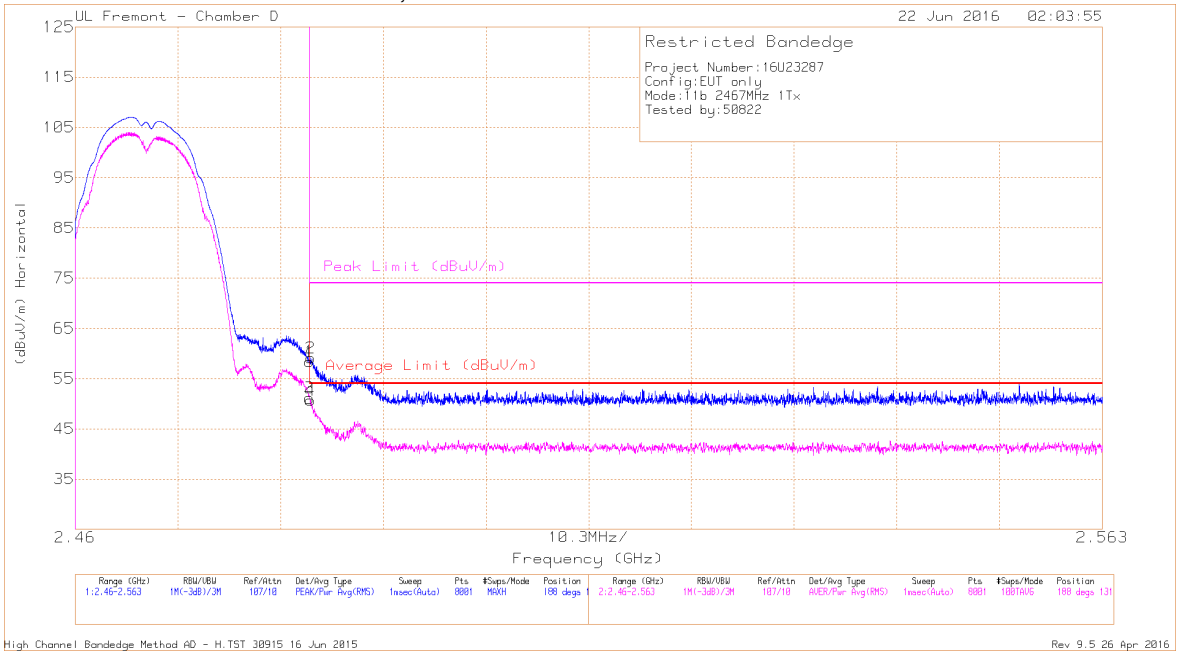
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	42.93	Pk	32.3	-20.5	54.73	-	-	74	-19.27	152	293	V
2	* 2.484	43.78	Pk	32.3	-20.5	55.58	-	-	74	-18.42	152	293	V
3	* 2.484	35.28	RMS	32.3	-20.5	47.08	54	-6.92	-	-	152	293	V
4	* 2.484	35.58	RMS	32.3	-20.5	47.38	54	-6.62	-	-	152	293	V

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

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 12)

HIGH CHANNEL BANDEDGE, HORIZONTAL

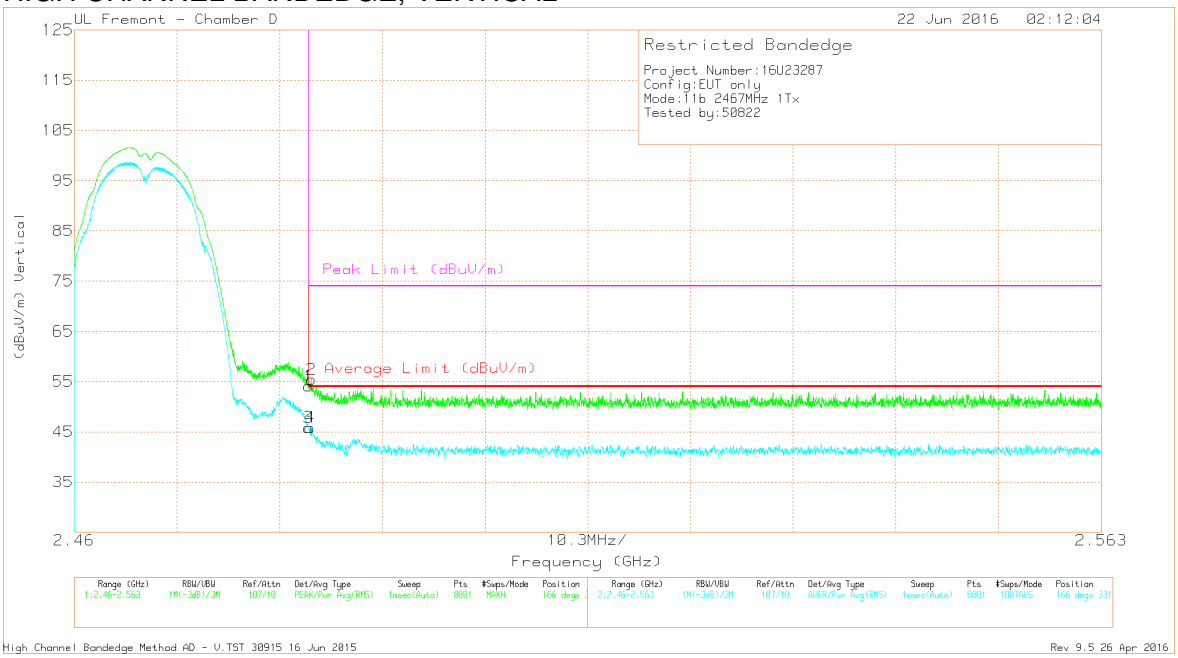


DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	46.61	Pk	32.3	-20.5	58.41	-	-	74	-15.59	188	131	H
2	* 2.484	47.3	Pk	32.3	-20.5	59.1	-	-	74	-14.9	188	131	H
3	* 2.484	39.34	RMS	32.3	-20.5	51.14	54	-2.86	-	-	188	131	H
4	* 2.484	38.87	RMS	32.3	-20.5	50.67	54	-3.33	-	-	188	131	H

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

HIGH CHANNEL BANDEDGE, VERTICAL



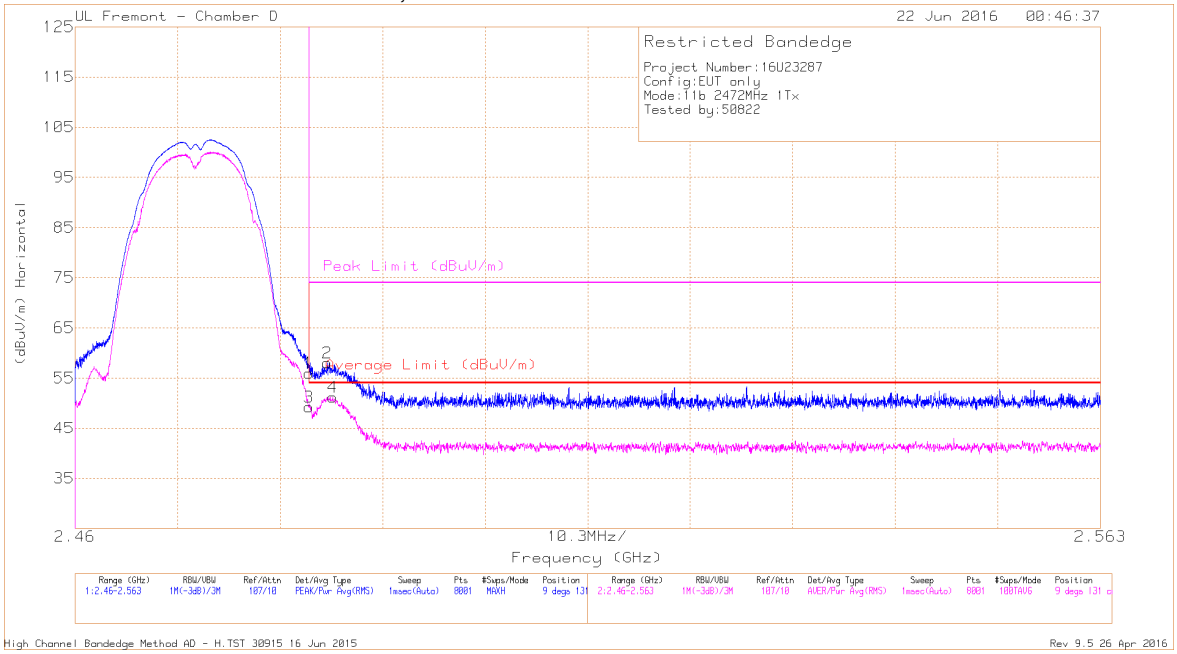
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	42.31	Pk	32.3	-20.5	54.11	-	-	74	-19.89	166	331	V
2	* 2.484	43.66	Pk	32.3	-20.5	55.46	-	-	74	-18.54	166	331	V
3	* 2.484	34.07	RMS	32.3	-20.5	45.87	54	-8.13	-	-	166	331	V
4	* 2.484	34.06	RMS	32.3	-20.5	45.86	54	-8.14	-	-	166	331	V

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

AUTHORIZED BANDEDGE (HIGH CHANNEL, CH 13)

HIGH CHANNEL BANDEDGE, HORIZONTAL

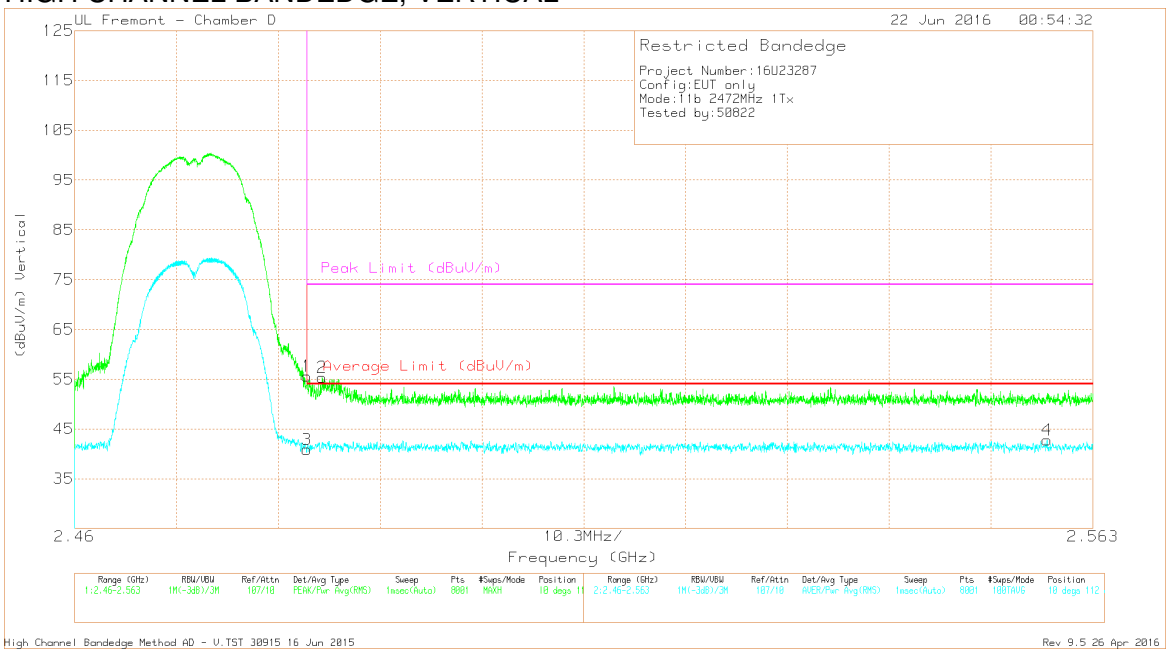


DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	44.19	Pk	32.3	-20.5	55.99	-	-	74	-18.01	9	131	H
3	* 2.484	37.44	RMS	32.3	-20.5	49.24	54	-4.76	-	-	9	131	H
2	* 2.485	46.31	Pk	32.3	-20.6	58.01	-	-	74	-15.99	9	131	H
4	* 2.486	39.48	RMS	32.3	-20.6	51.18	54	-2.82	-	-	9	131	H

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

HIGH CHANNEL BANDEDGE, VERTICAL



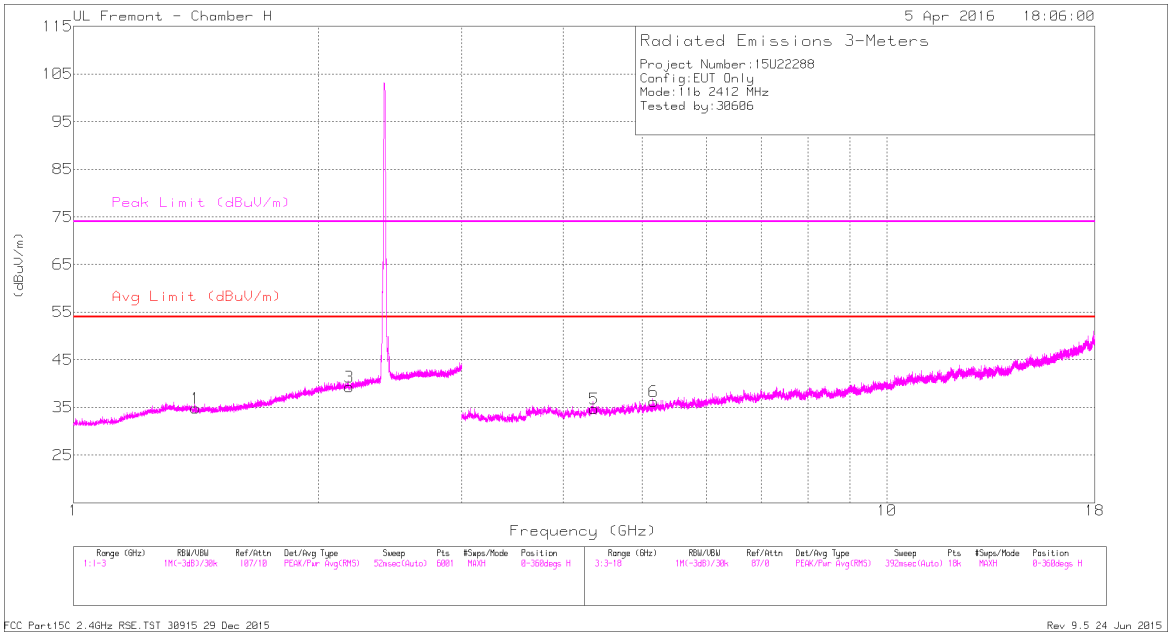
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/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	43.83	Pk	32.3	-20.5	55.63	-	-	74	-18.37	10	112	V
3	* 2.484	29.07	RMS	32.3	-20.5	40.87	54	-13.13	-	-	10	112	V
2	* 2.485	43.65	Pk	32.3	-20.6	55.35	-	-	74	-18.65	10	112	V
4	2.558	31	RMS	32.2	-20.4	42.8	-	-	-	-	10	112	V

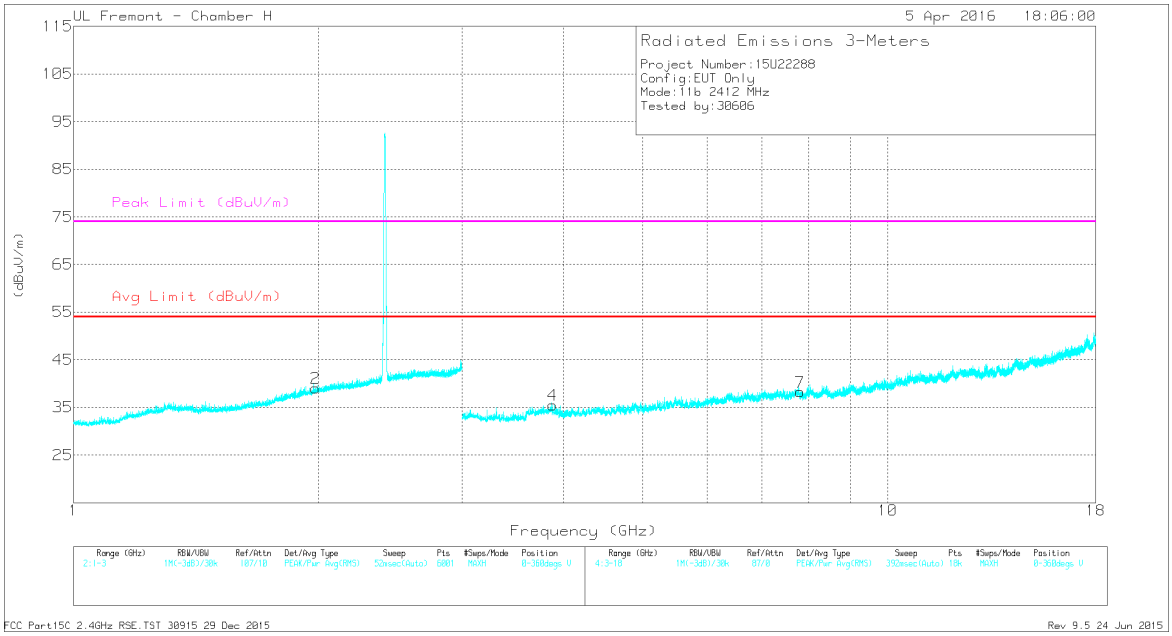
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL, CH 1

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fltr/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	* 1.416	36.6	PK2	28.4	-22.9	42.1	-	-	74	-31.9	321	337	H
	* 1.413	24.35	MAv1	28.4	-22.9	29.85	54	-24.15	-	-	321	337	H
5	* 4.364	38.68	PK2	33.6	-29.5	42.78	-	-	74	-31.22	195	263	V
	* 4.362	26.37	MAv1	33.6	-29.4	30.57	54	-23.43	-	-	195	263	V
4	* 3.873	38.85	PK2	33.6	-30.1	42.35	-	-	74	-31.65	311	148	V
	* 3.873	27.36	MAv1	33.6	-30.1	30.86	54	-23.14	-	-	311	148	V
2	1.984	37.61	PK2	31.1	-22.6	46.11	-	-	-	-	27	167	V
3	2.185	37.91	PK2	31.4	-22.6	46.71	-	-	-	-	22	351	H
6	5.162	39.22	PK2	34.5	-30	43.72	-	-	-	-	192	387	H
7	7.806	35.26	PK2	35.9	-26.1	45.06	-	-	-	-	97	122	V

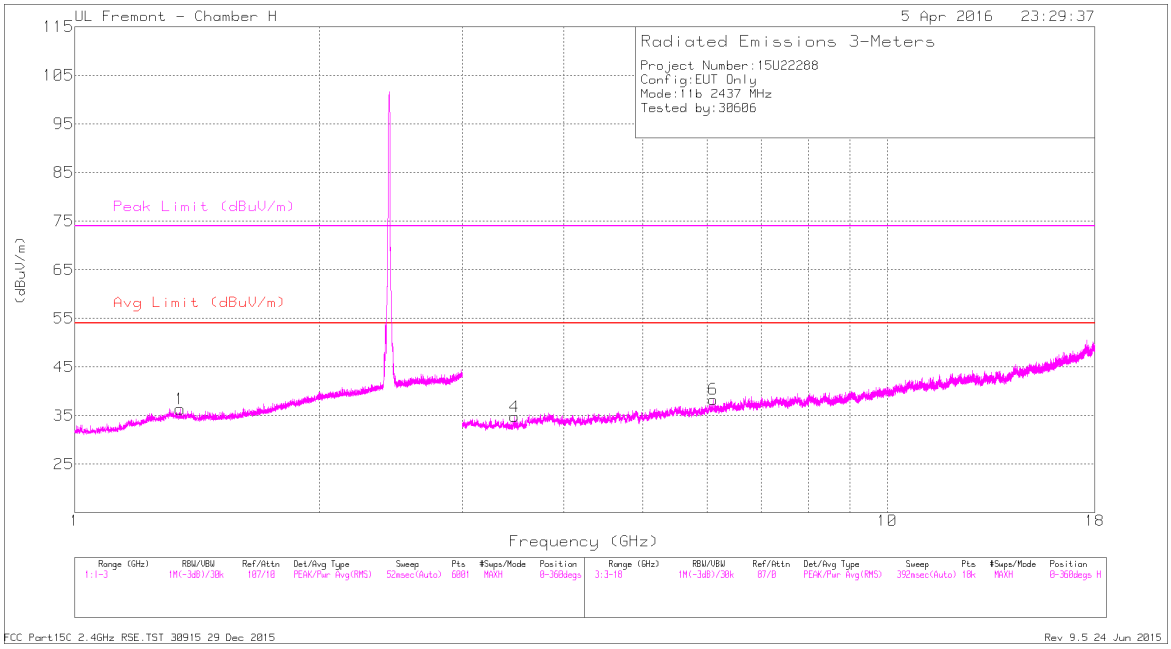
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

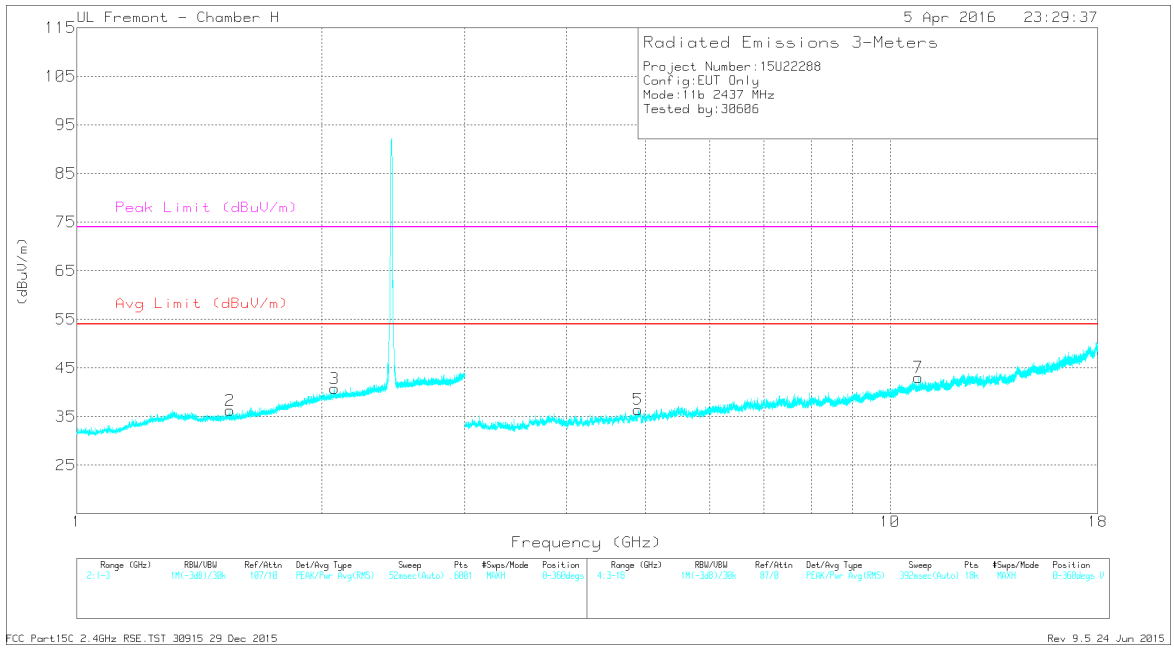
MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL, CH 6

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fltr/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	* 1.348	36.56	PK2	28.7	-22.9	42.36	-	-	74	-31.64	18	169	H
	* 1.348	24.39	MAv1	28.7	-22.9	30.19	54	-23.81	-	-	18	169	H
2	* 1.544	36.87	PK2	28.2	-22.8	42.27	-	-	74	-31.73	206	160	V
	* 1.542	24.79	MAv1	28.2	-22.8	30.19	54	-23.81	-	-	206	160	V
5	* 4.897	38.94	PK2	34.2	-29.8	43.34	-	-	74	-30.66	14	270	V
	* 4.897	27.39	MAv1	34.2	-29.8	31.79	54	-22.21	-	-	14	270	V
7	* 10.836	34.43	PK2	37.9	-23.1	49.23	-	-	74	-24.77	360	385	V
	* 10.838	22.44	MAv1	37.9	-23	37.34	54	-16.66	-	-	360	385	V
3	2.077	37.14	PK2	31.4	-22.6	45.94	-	-	-	-	54	301	V
4	3.481	39.35	PK2	32.8	-30.7	41.45	-	-	-	-	286	353	H
6	6.111	37.38	PK2	35.4	-27.8	44.98	-	-	-	-	217	177	H

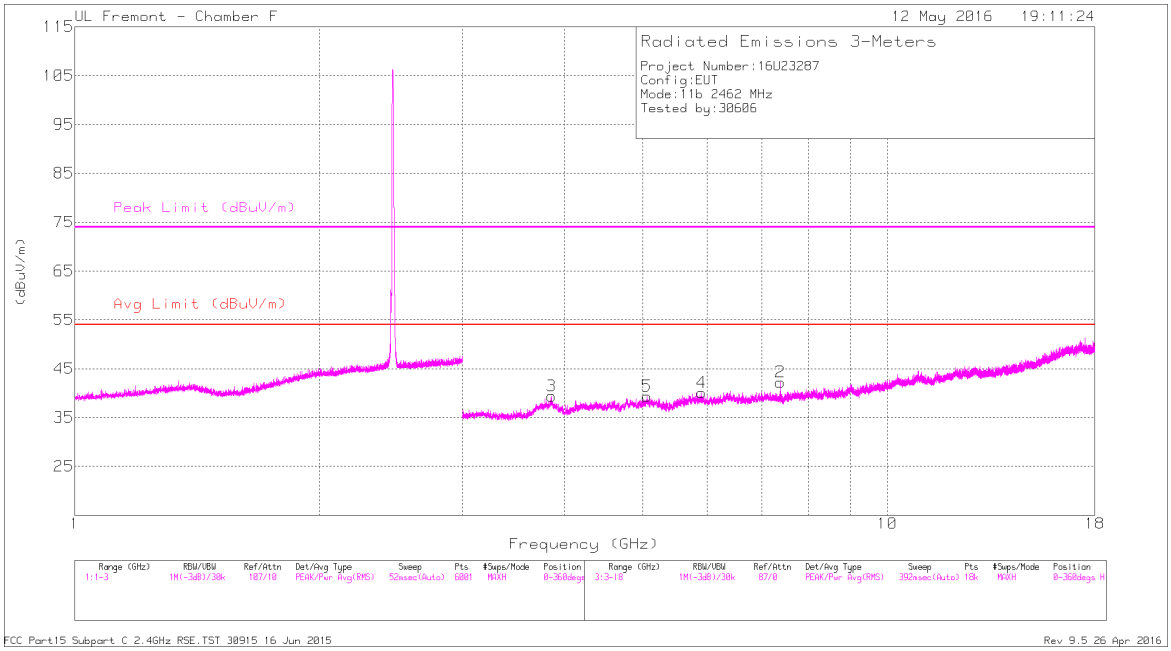
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

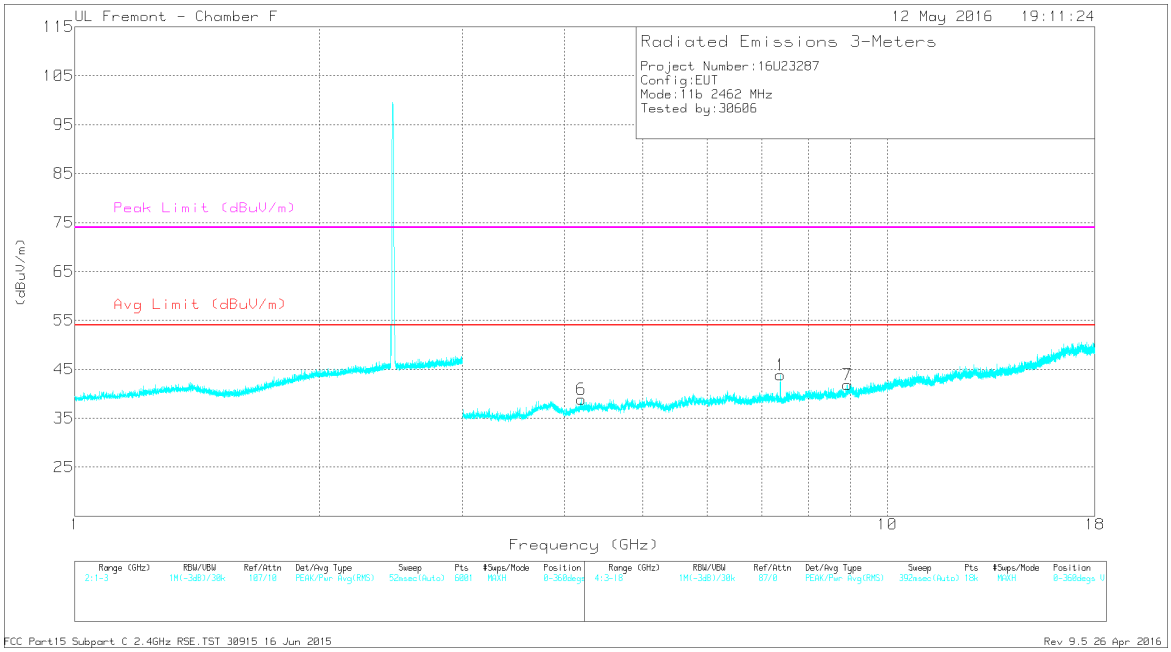
MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 11

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fltr/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	* 7.384	38.83	PK2	35.6	-25.8	48.63	-	-	74	-25.37	242	367	H
	* 7.385	30.47	MAv1	35.6	-25.8	40.27	54	-13.73	-	-	242	367	H
3	* 3.864	38.5	PK2	33.4	-28.2	43.7	-	-	74	-30.3	232	290	H
	* 3.862	27.71	MAv1	33.4	-28.2	32.91	54	-21.09	-	-	232	290	H
4	5.907	37.97	PK2	35.3	-28	45.27	-	-	-	-	0	137	H
5	* 5.061	38.21	PK2	34.2	-27.8	44.61	-	-	74	-29.39	311	200	H
	* 5.062	27.25	MAv1	34.2	-27.8	33.65	54	-20.35	-	-	311	200	H
1	* 7.385	40.02	PK2	35.6	-25.8	49.82	-	-	74	-24.18	161	110	V
	* 7.385	32.67	MAv1	35.6	-25.8	42.47	54	-11.53	-	-	161	110	V
6	* 4.201	37.53	PK2	33.7	-28	43.23	-	-	74	-30.77	300	243	V
	* 4.202	26.9	MAv1	33.7	-28	32.6	54	-21.4	-	-	300	243	V
7	8.936	34.72	PK2	35.9	-23.5	47.12	-	-	-	-	165	179	V

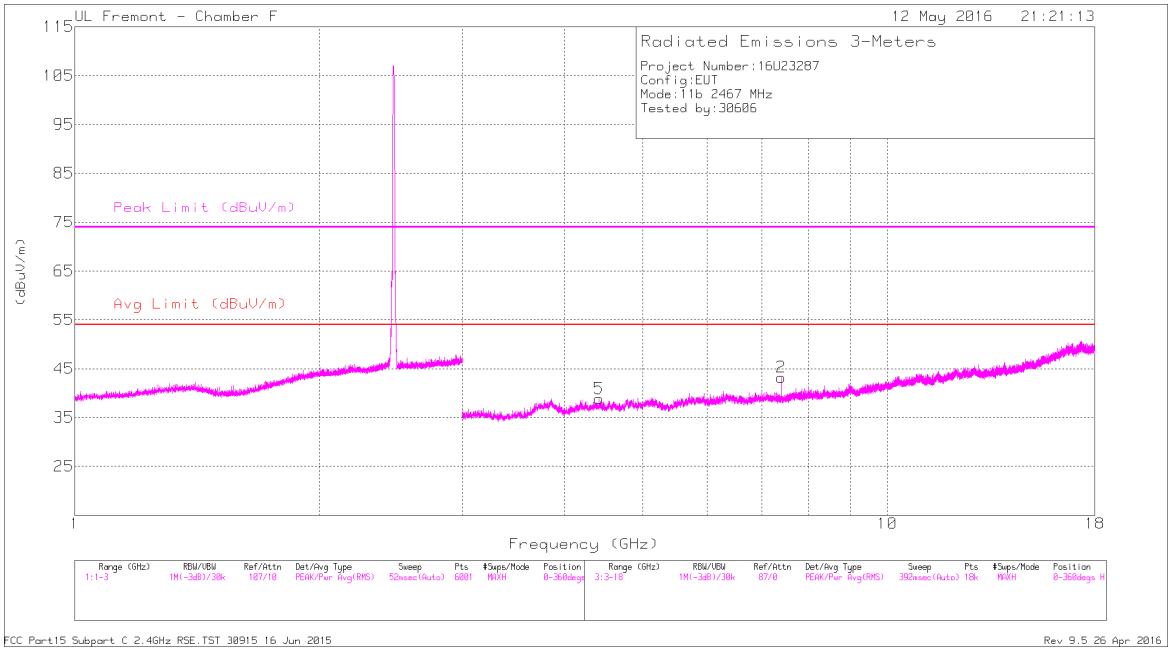
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

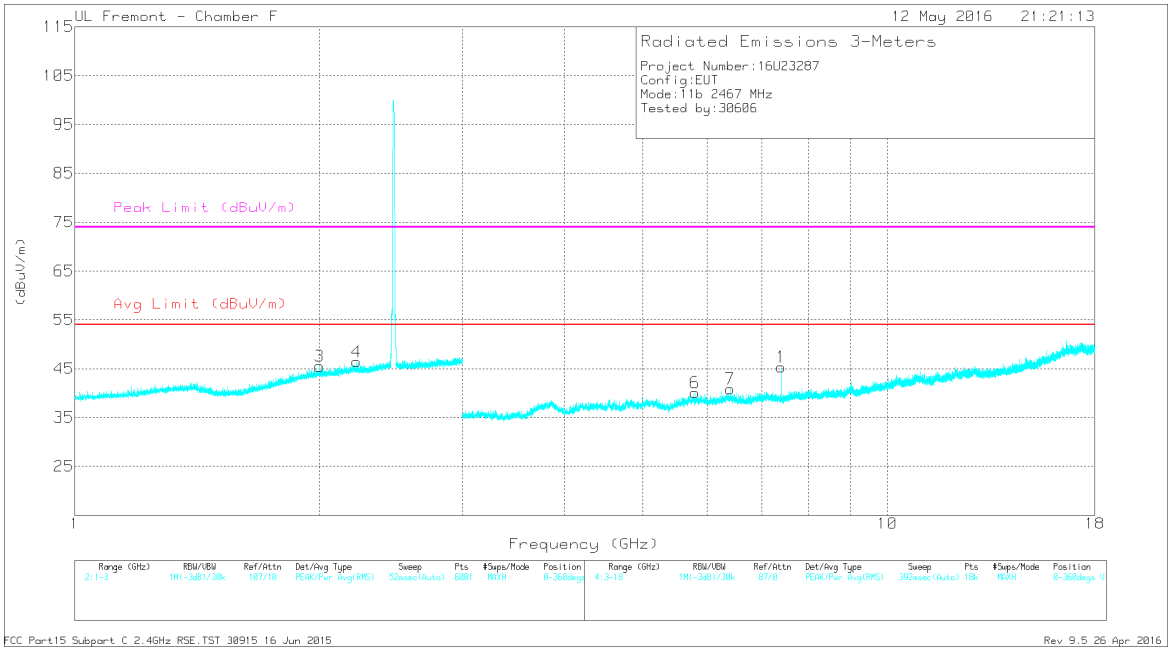
MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 12

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	2.003	42.5	PK2	31.5	-21.4	52.6	-	-	-	-	332	253	V
4	* 2.224	41.76	PK2	31.8	-21	52.56	-	-	74	-21.44	36	303	V
	* 2.222	30.29	MAv1	31.9	-21.1	41.09	54	-12.91	-	-	36	303	V
2	* 7.401	39.95	PK2	35.6	-25.8	49.75	-	-	74	-24.25	275	100	H
	* 7.4	31.94	MAv1	35.6	-25.8	41.74	54	-12.26	-	-	275	100	H
5	4.416	38.22	PK2	34	-29	43.22	-	-	-	-	170	202	H
1	* 7.4	41.08	PK2	35.6	-25.8	50.88	-	-	74	-23.12	154	254	V
	* 7.4	33.35	MAv1	35.6	-25.8	43.15	54	-10.85	-	-	154	254	V
6	5.792	37.12	PK2	34.9	-27	45.02	-	-	-	-	176	202	V
7	6.411	37.24	PK2	35.4	-27.1	45.54	-	-	-	-	66	100	V
	6.409	37.13	PK2	35.4	-27	45.53	-	-	-	-	66	100	V

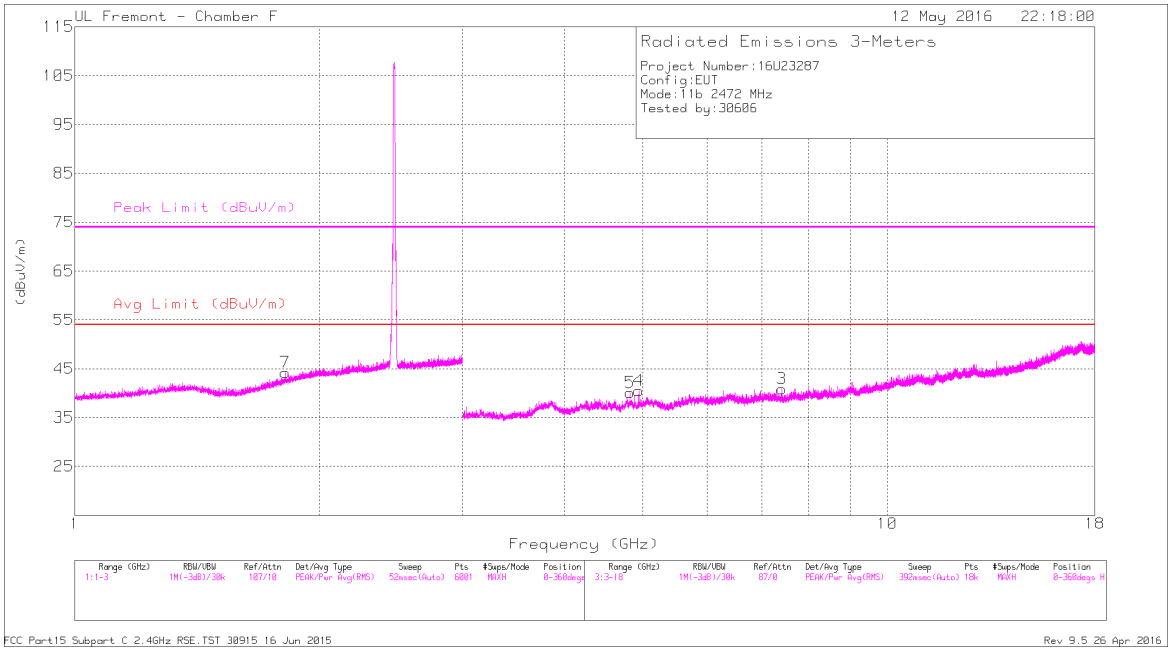
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

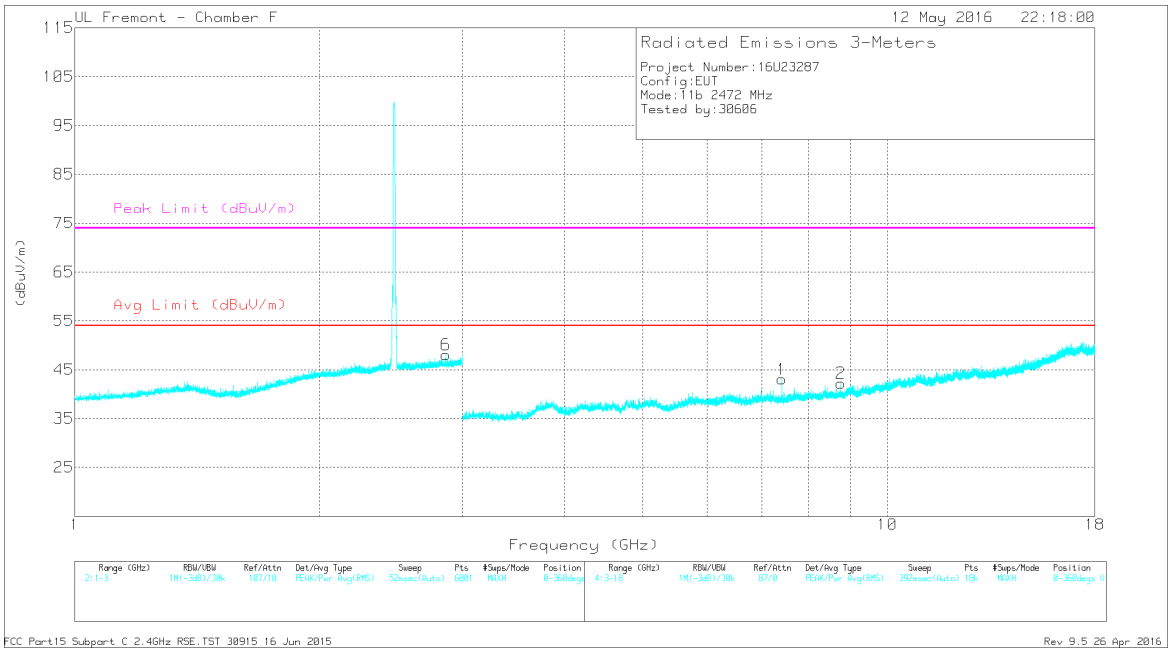
MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL, CH 13

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	1.815	41.16	PK2	30.2	-21.5	49.86	-	-	-	-	258	202	H
6	* 2.864	41.99	PK2	32.6	-20.3	54.29	-	-	74	-19.71	152	202	V
	* 2.864	30	MAv1	32.6	-20.3	42.3	54	-11.7	-	-	152	202	V
3	* 7.415	38.54	PK2	35.6	-25.7	48.44	-	-	74	-25.56	277	116	H
	* 7.415	28.91	MAv1	35.6	-25.7	38.81	54	-15.19	-	-	277	116	H
4	* 4.944	39.56	PK2	34.1	-28.5	45.16	-	-	74	-28.84	320	107	H
	* 4.944	31.09	MAv1	34.1	-28.5	36.69	54	-17.31	-	-	320	107	H
5	* 4.823	36.78	PK2	34	-27.2	43.58	-	-	74	-30.42	267	102	H
	* 4.822	26.22	MAv1	34	-27.2	33.02	54	-20.98	-	-	267	102	H
1	* 7.415	39.16	PK2	35.6	-25.7	49.06	-	-	74	-24.94	162	252	V
	* 7.415	32.41	MAv1	35.6	-25.7	42.31	54	-11.69	-	-	162	252	V
2	8.767	34.37	PK2	35.9	-23.4	46.87	-	-	-	-	91	100	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average