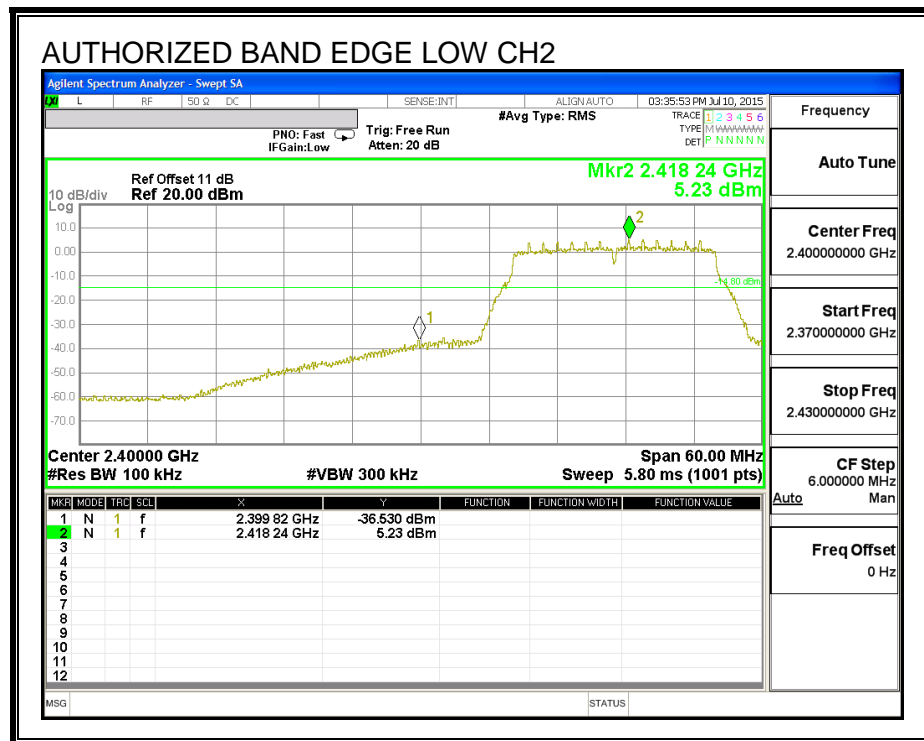
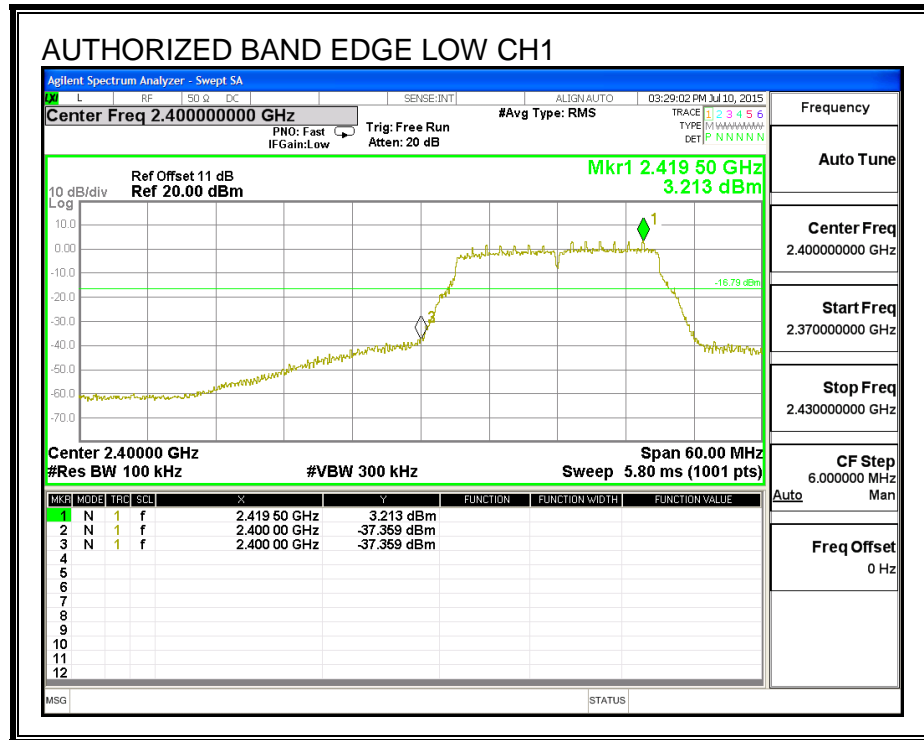
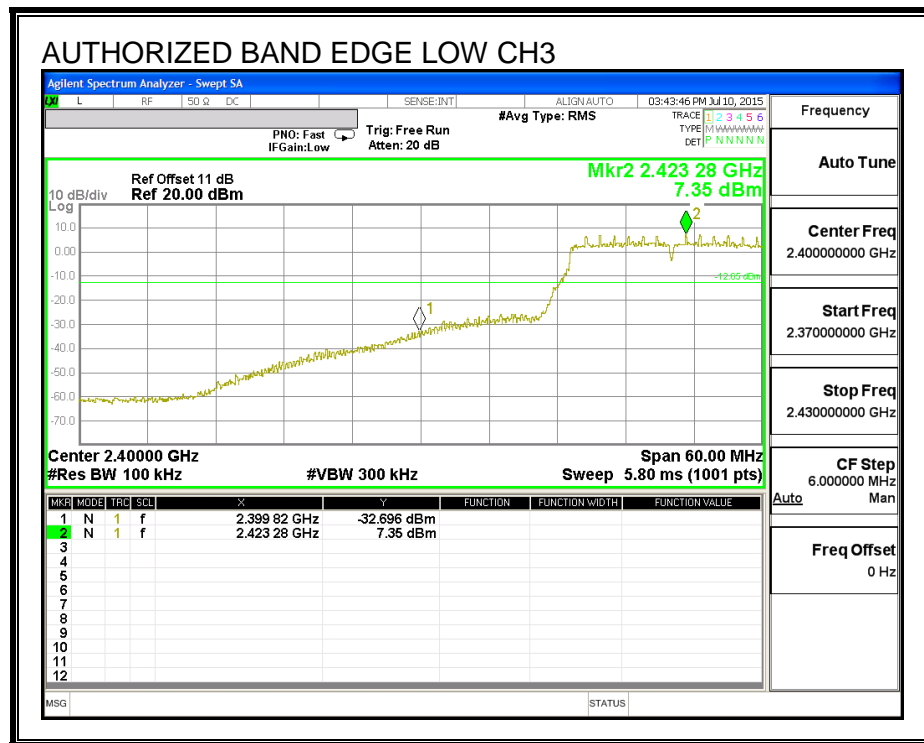


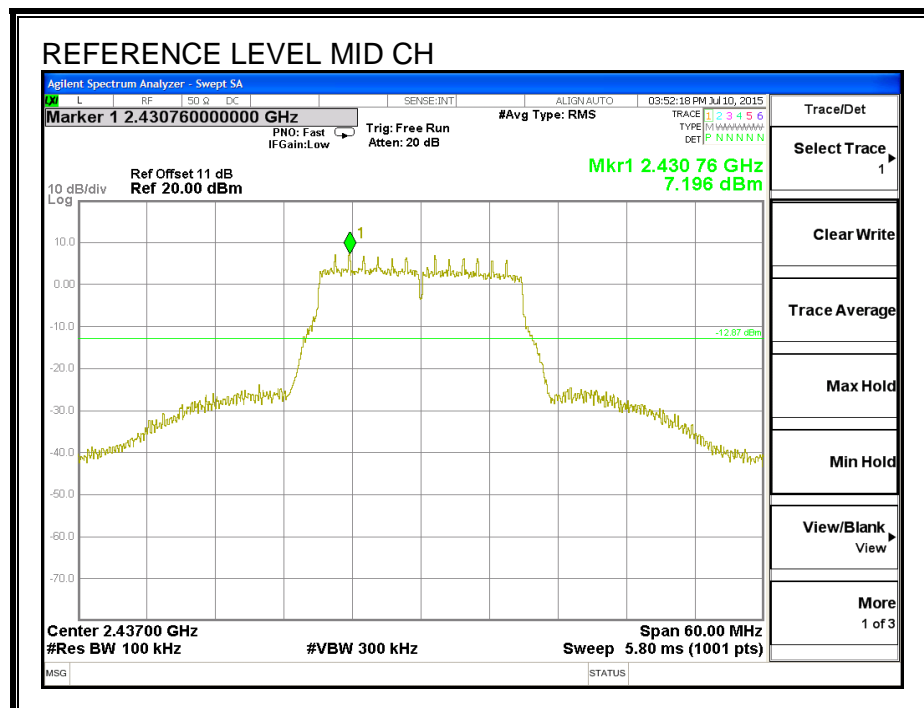
RESULTS for Chain 1

LOW CHANNEL BANDEDGE

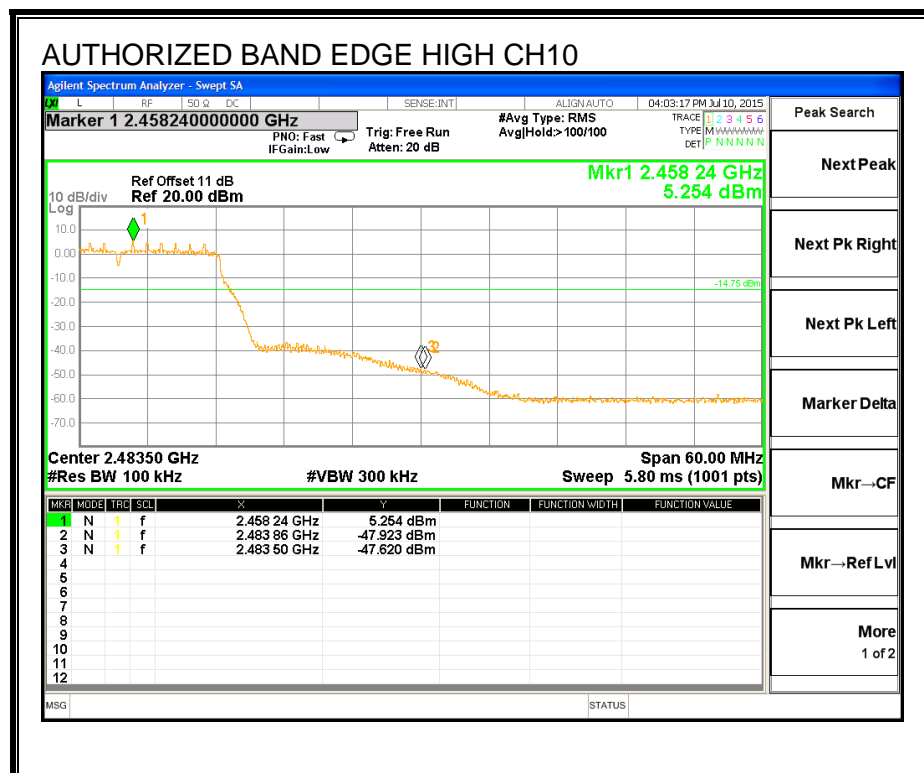
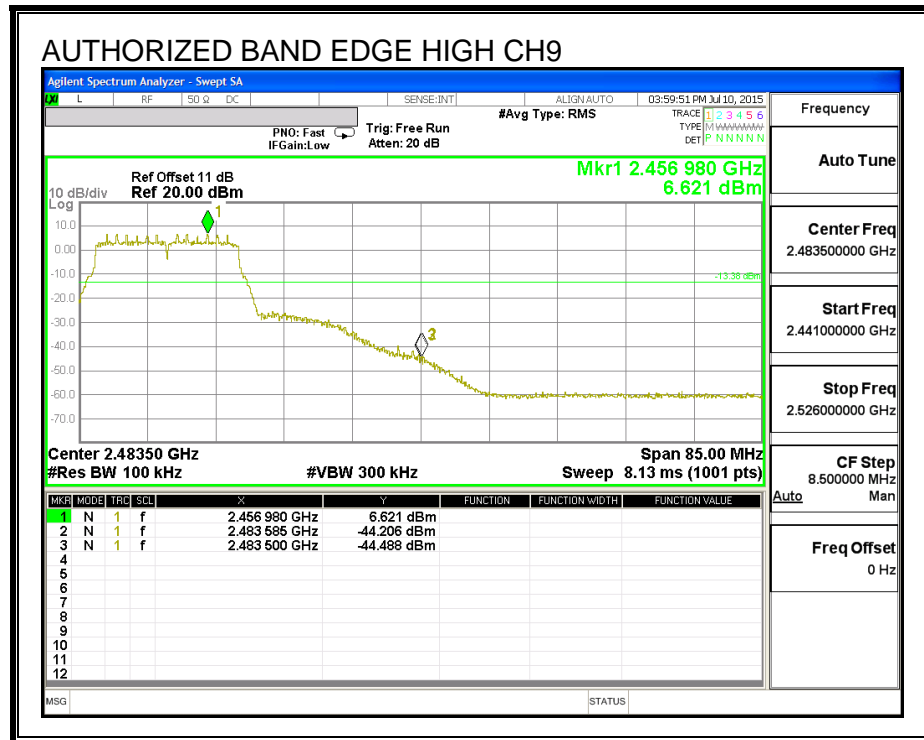


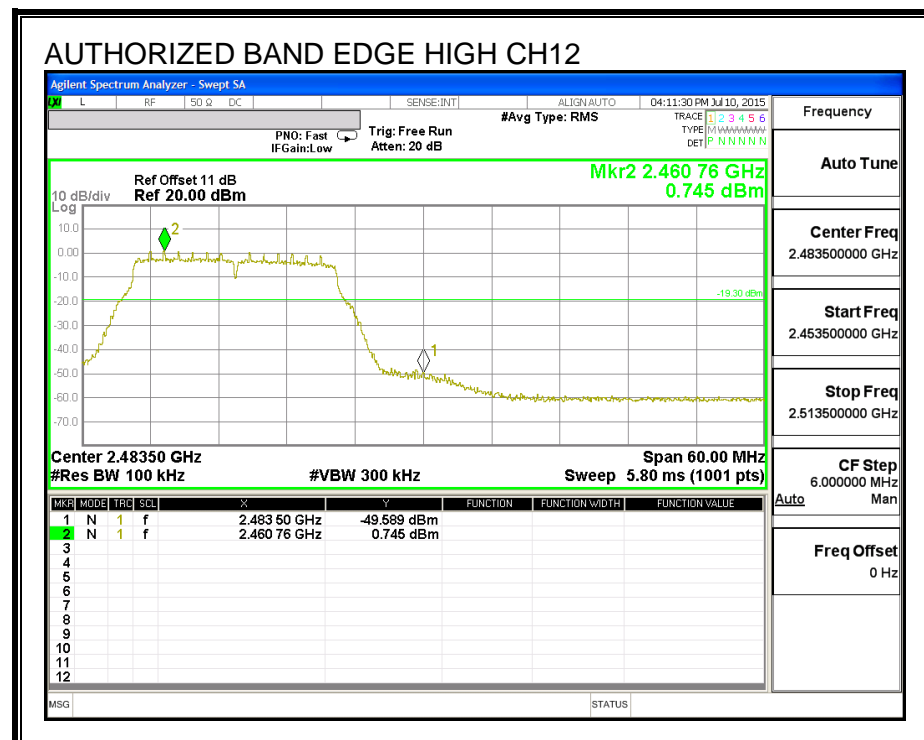
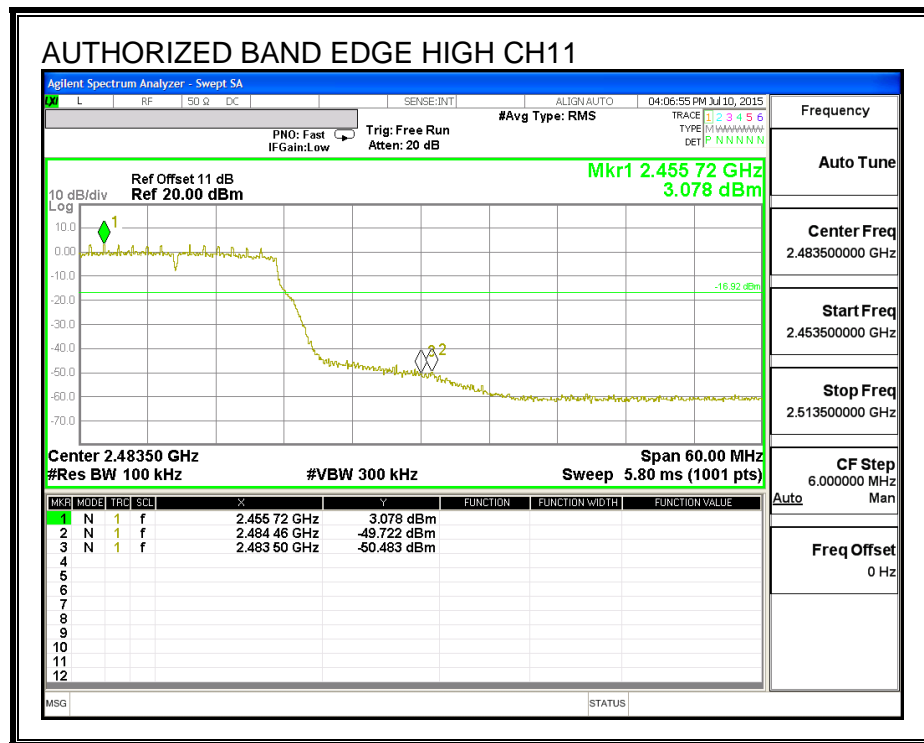


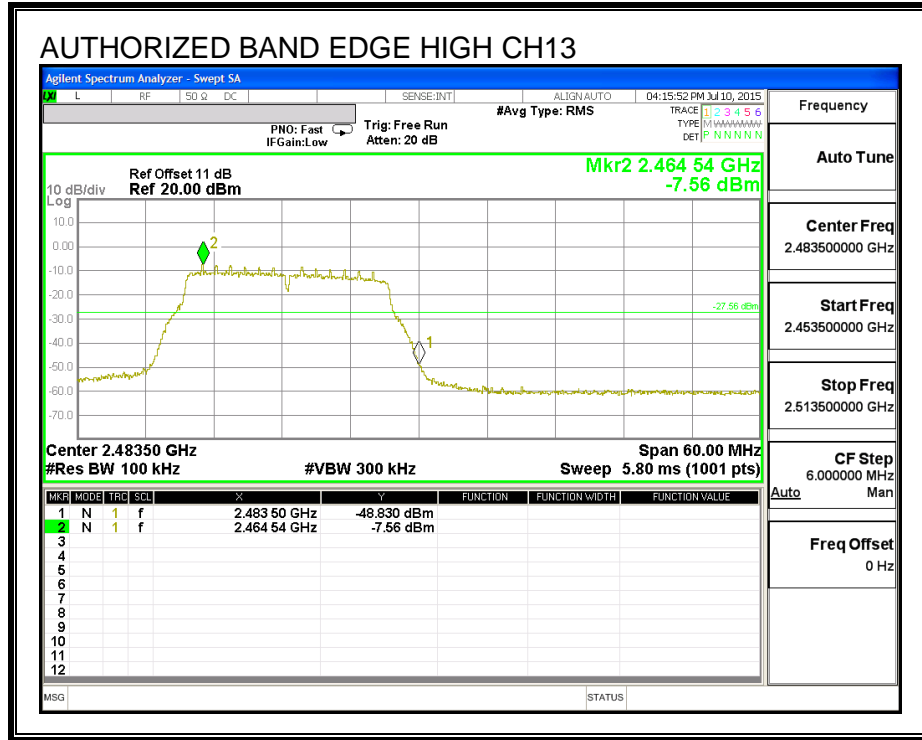
MID CHANNEL BANDEDGE



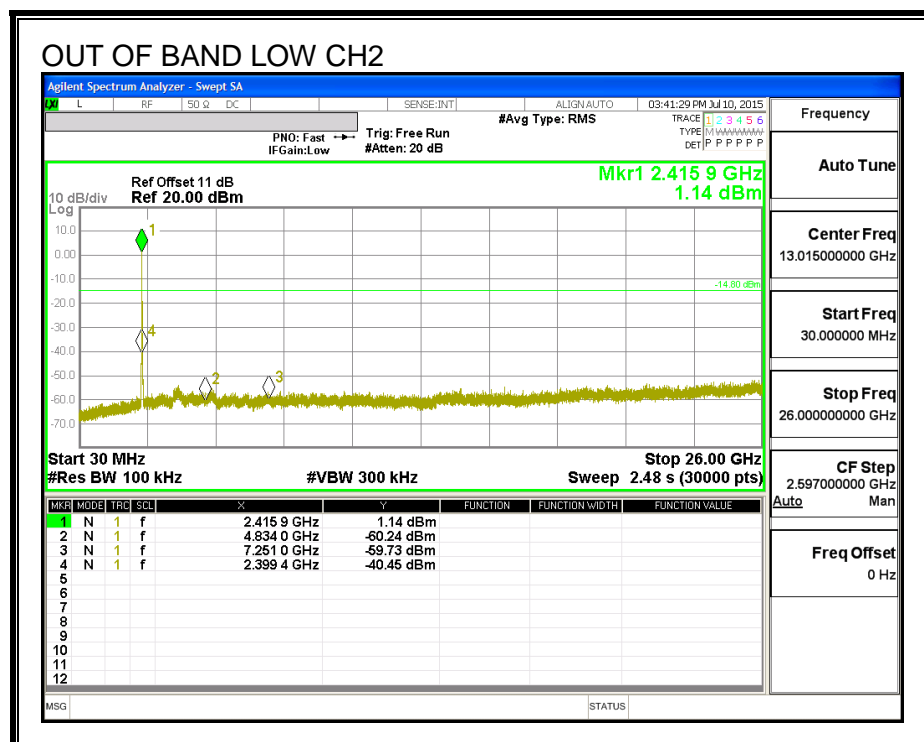
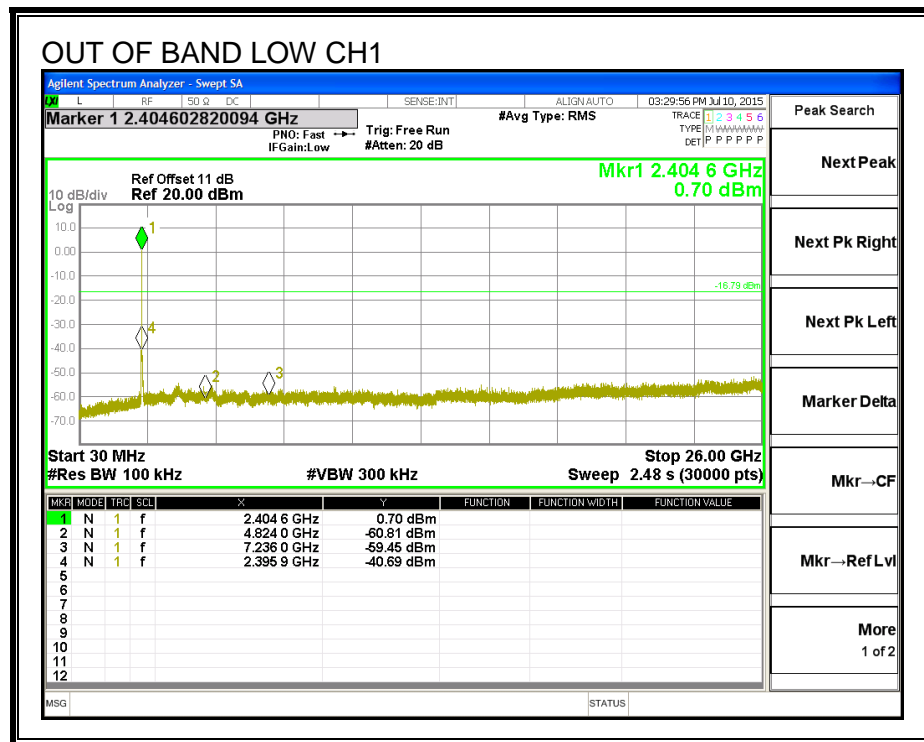
HIGH CHANNEL BANDEDGE

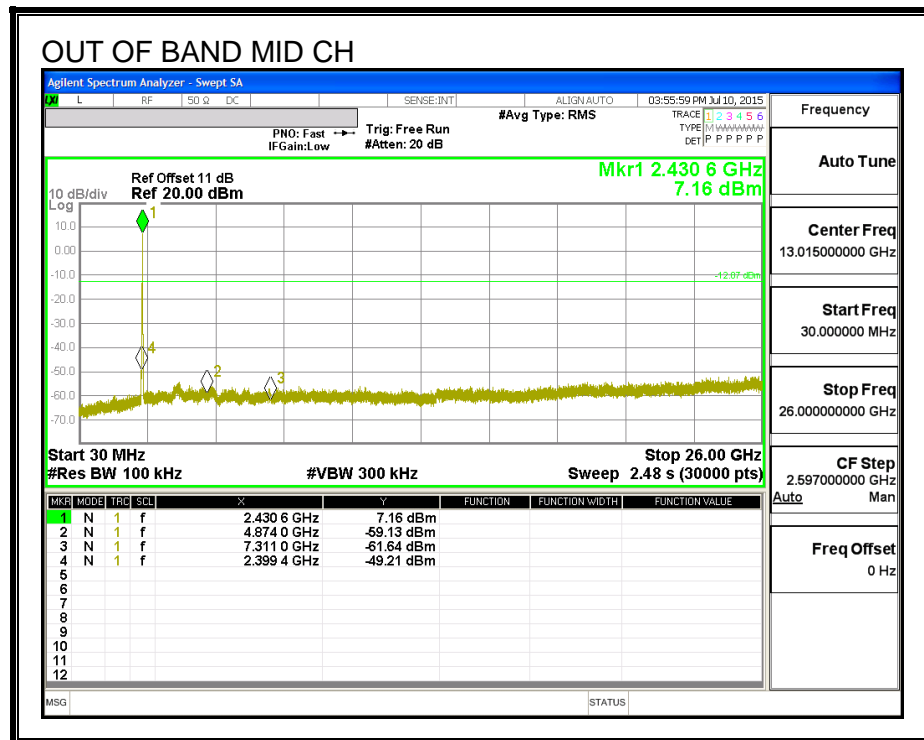
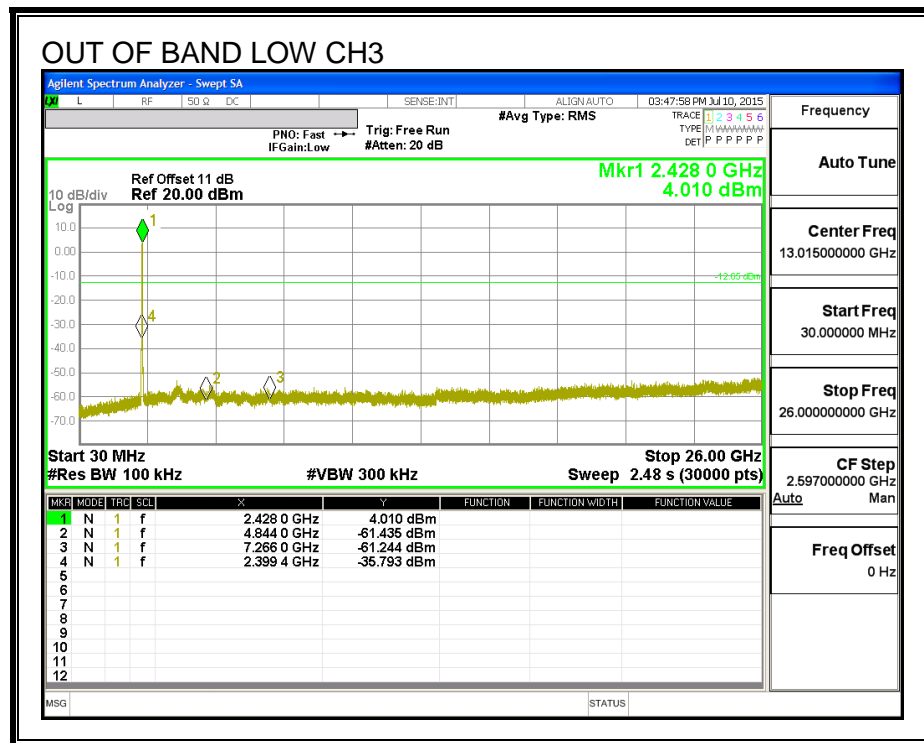


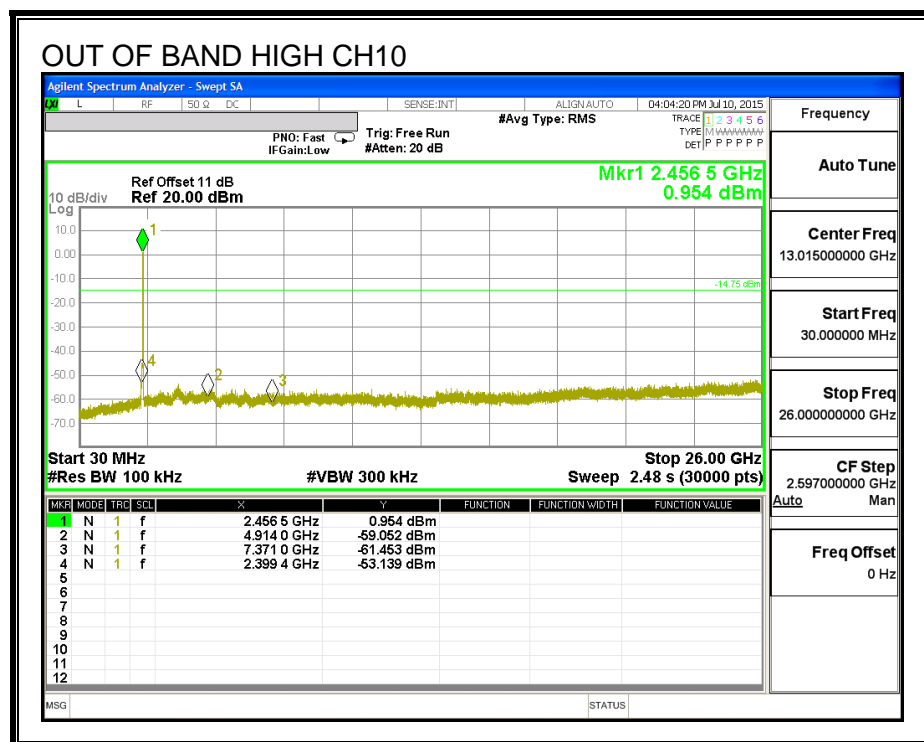
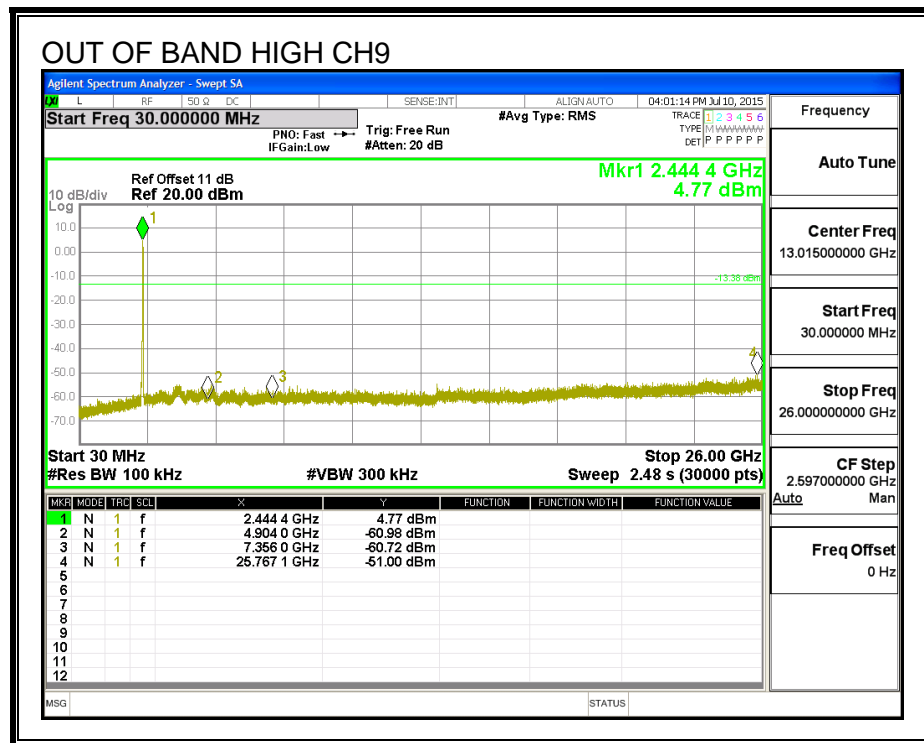


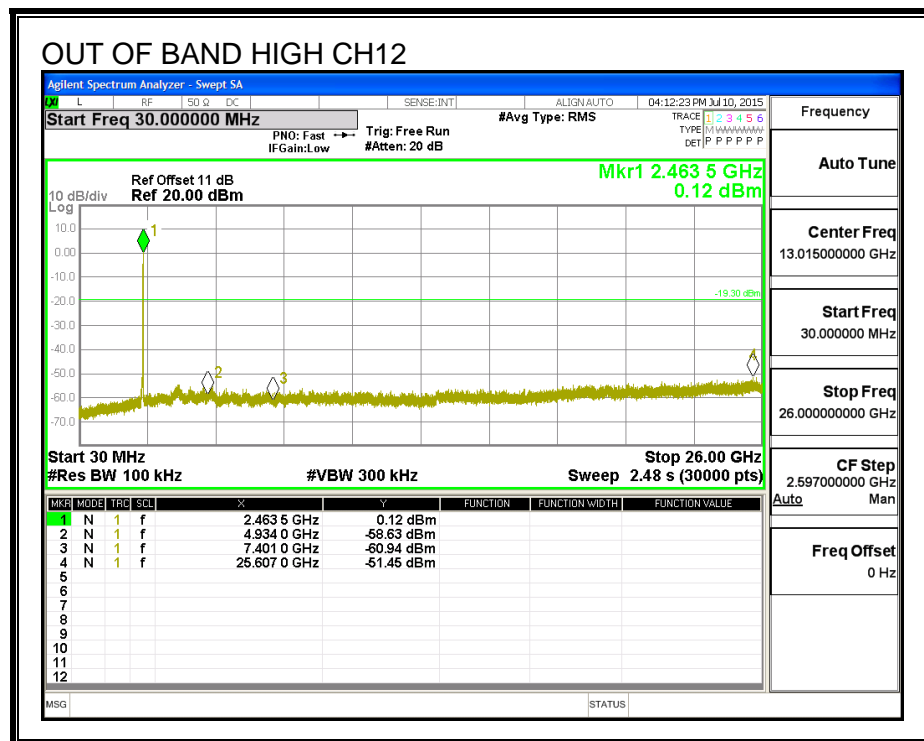
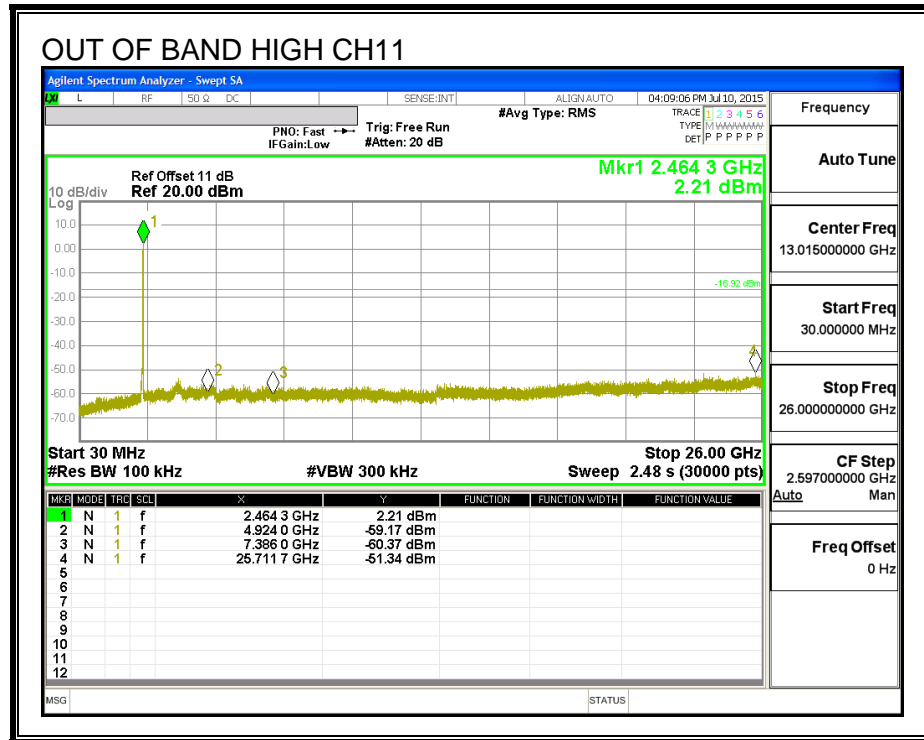


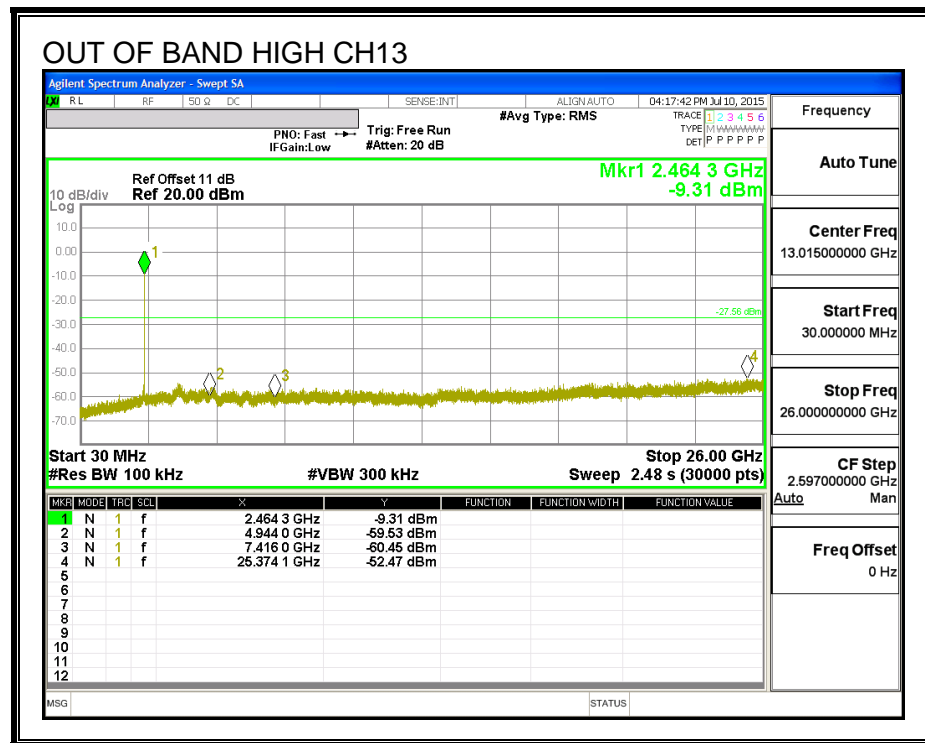
OUT-OF-BAND EMISSIONS











9.4. 802.11n HT20 2TX CDD MODE IN THE 2.4 GHz BAND

9.4.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

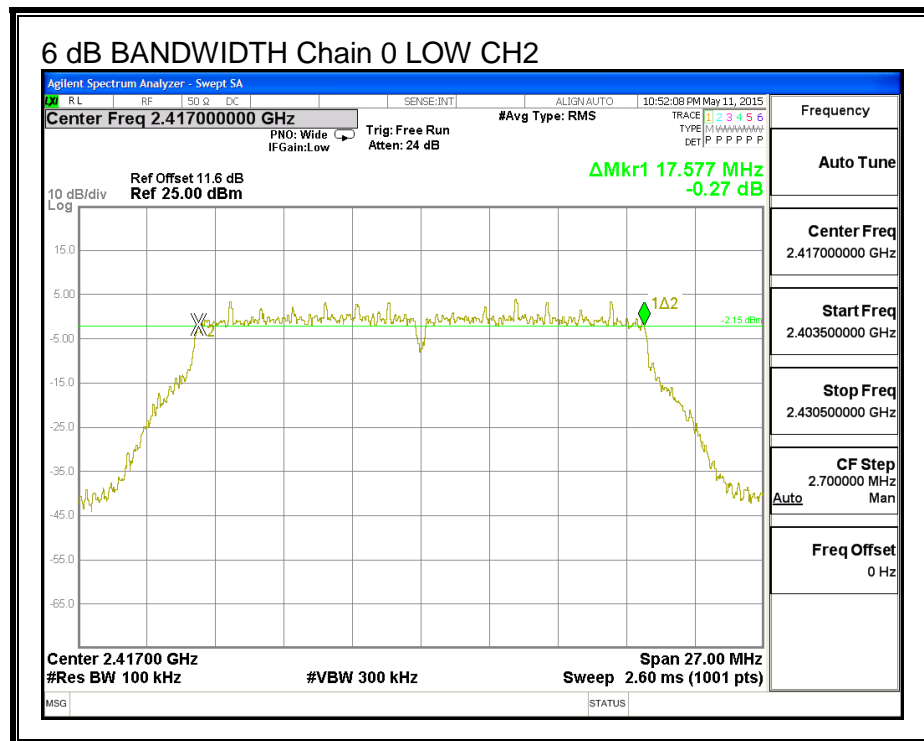
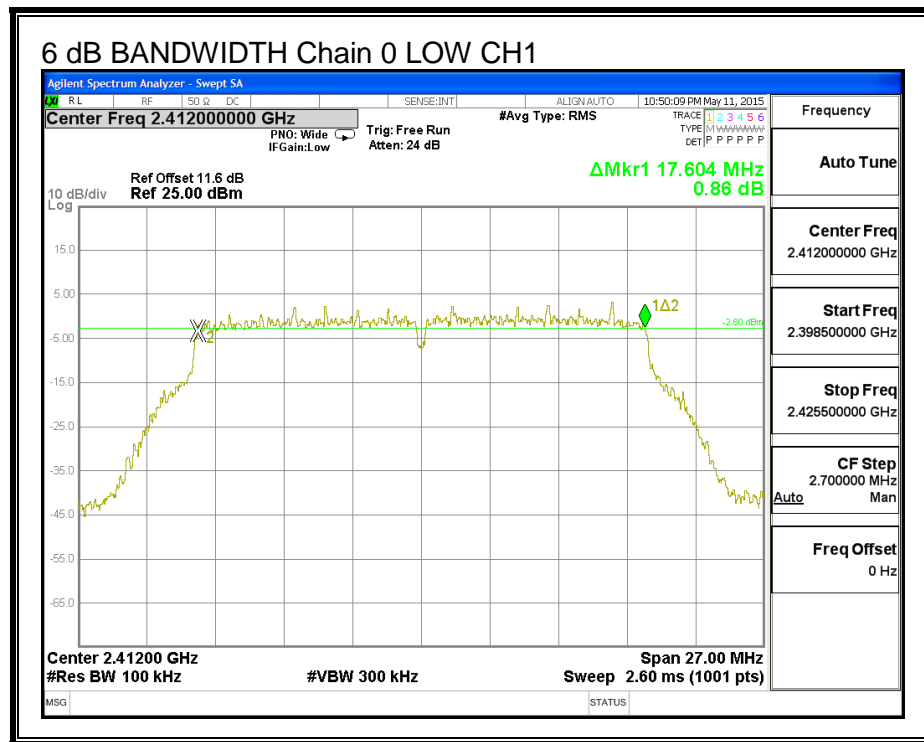
IC RSS-247 (5.2) (1)

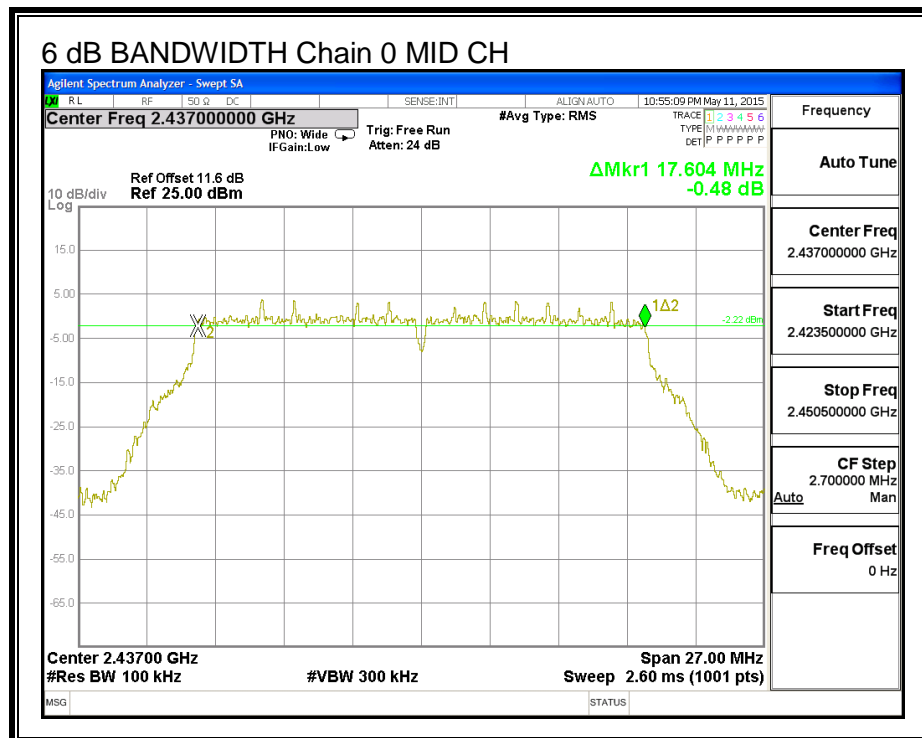
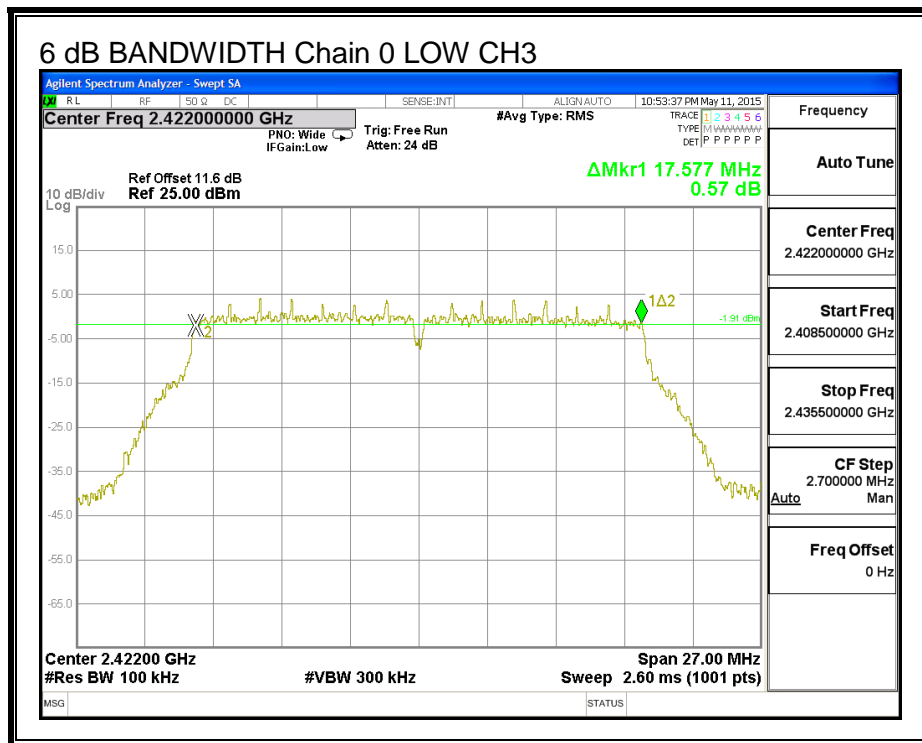
The minimum 6 dB bandwidth shall be at least 500 kHz.

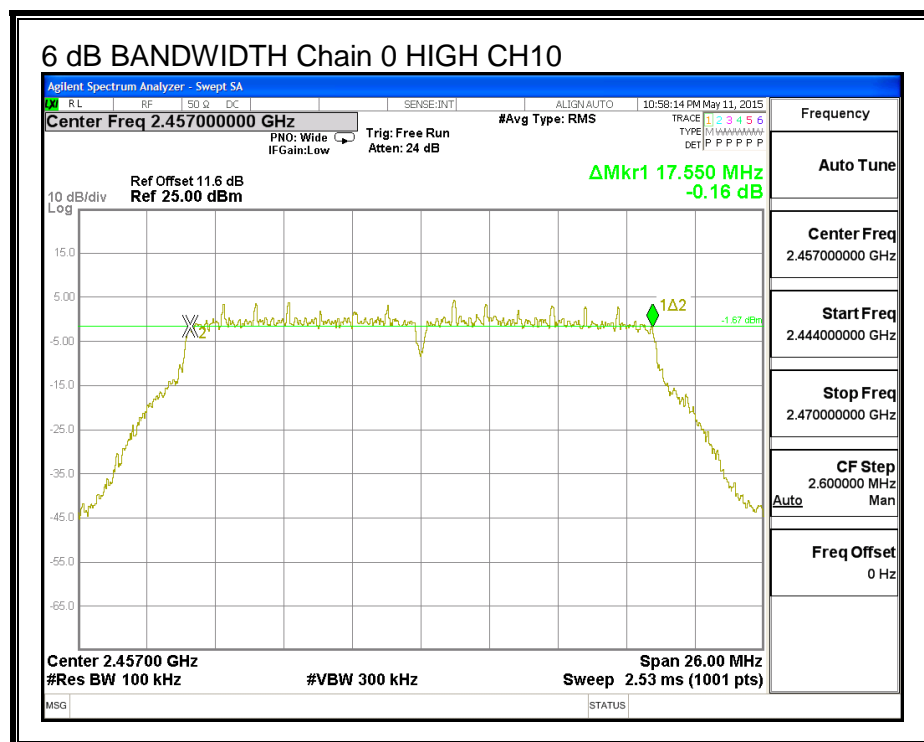
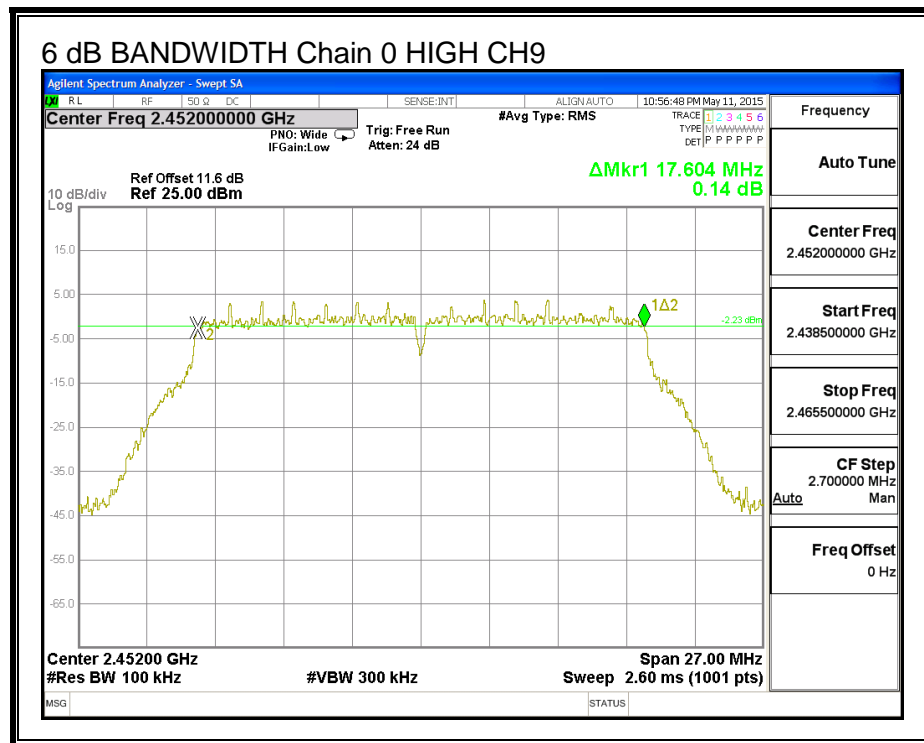
RESULTS

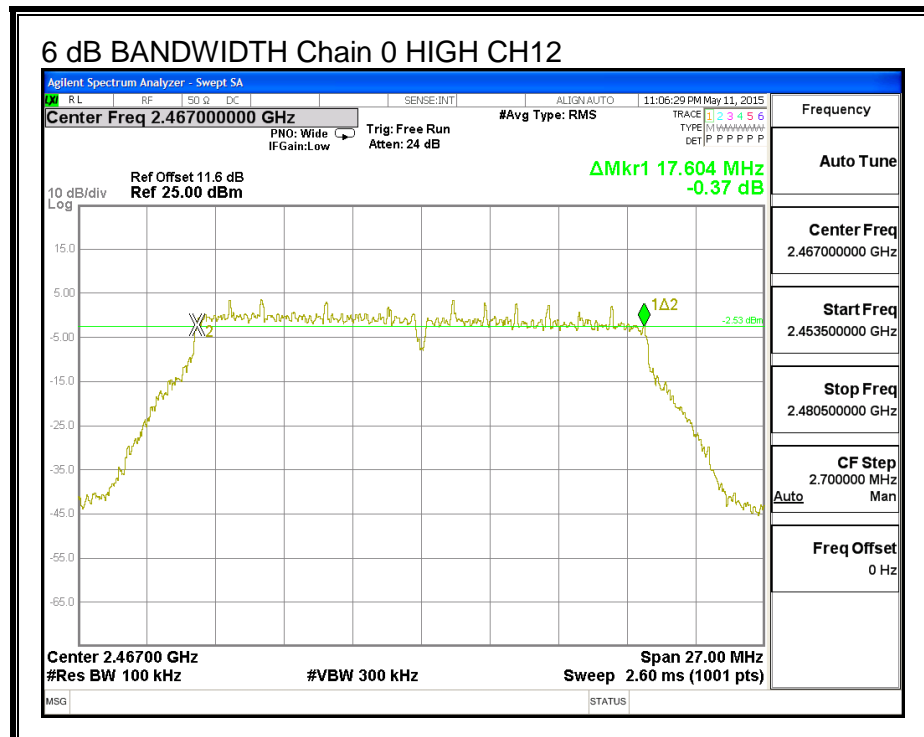
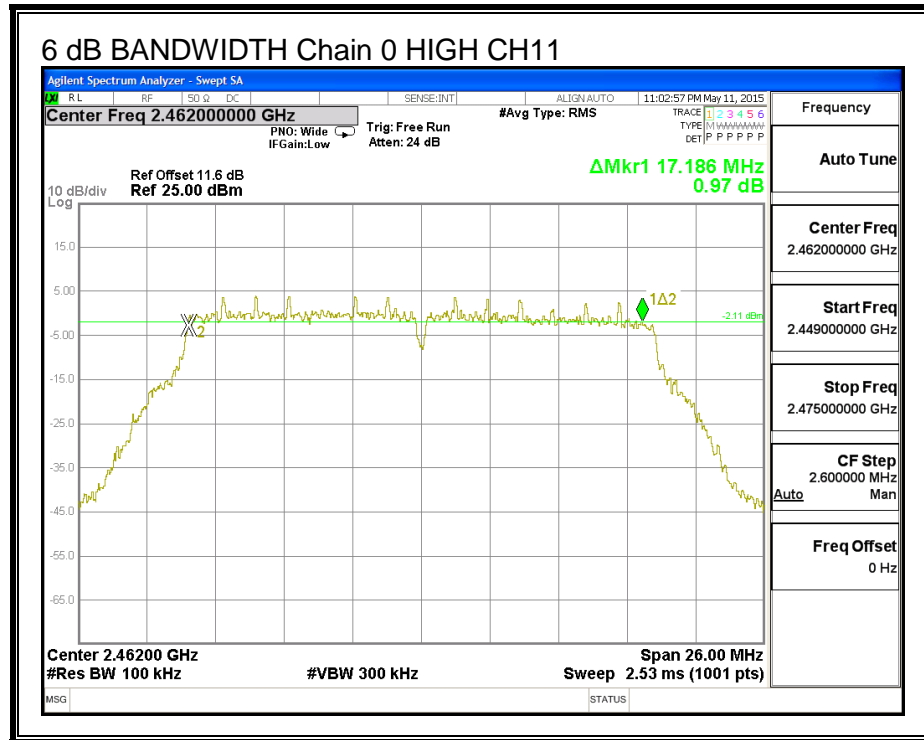
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low_1	2412	17.604	17.342	0.5
Low_2	2417	17.577	17.576	0.5
Low_3	2422	17.577	16.952	0.5
Mid	2437	17.604	17.577	0.5
High_9	2452	17.604	17.631	0.5
High_10	2457	17.550	17.658	0.5
High_11	2462	17.186	17.604	0.5
High_12	2467	17.604	17.212	0.5
High_13	2472	16.952	16.375	0.5

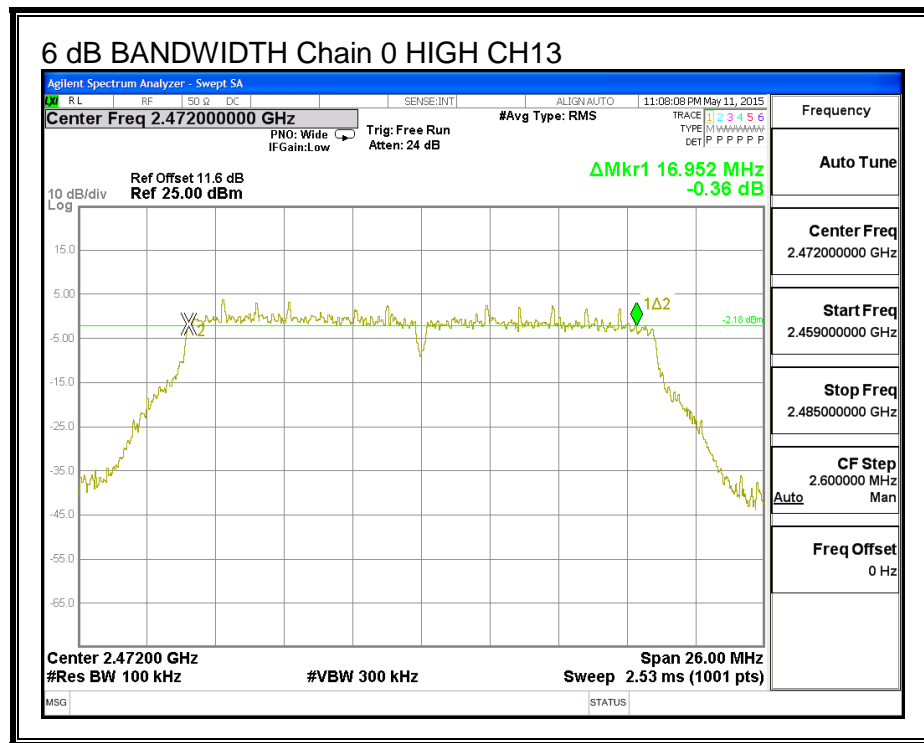
6 dB BANDWIDTH, Chain 0



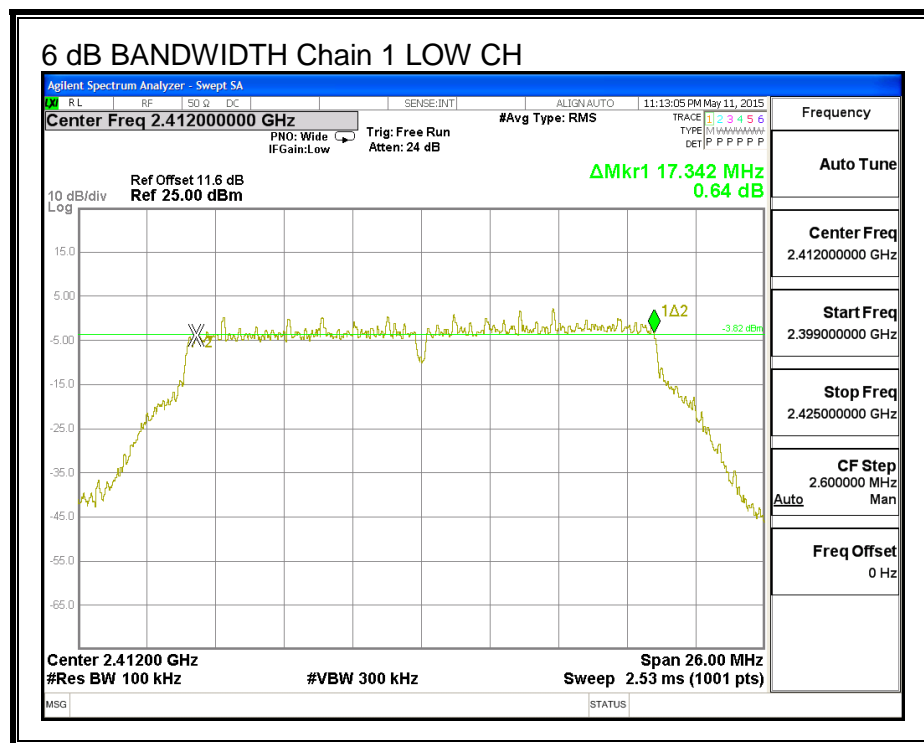


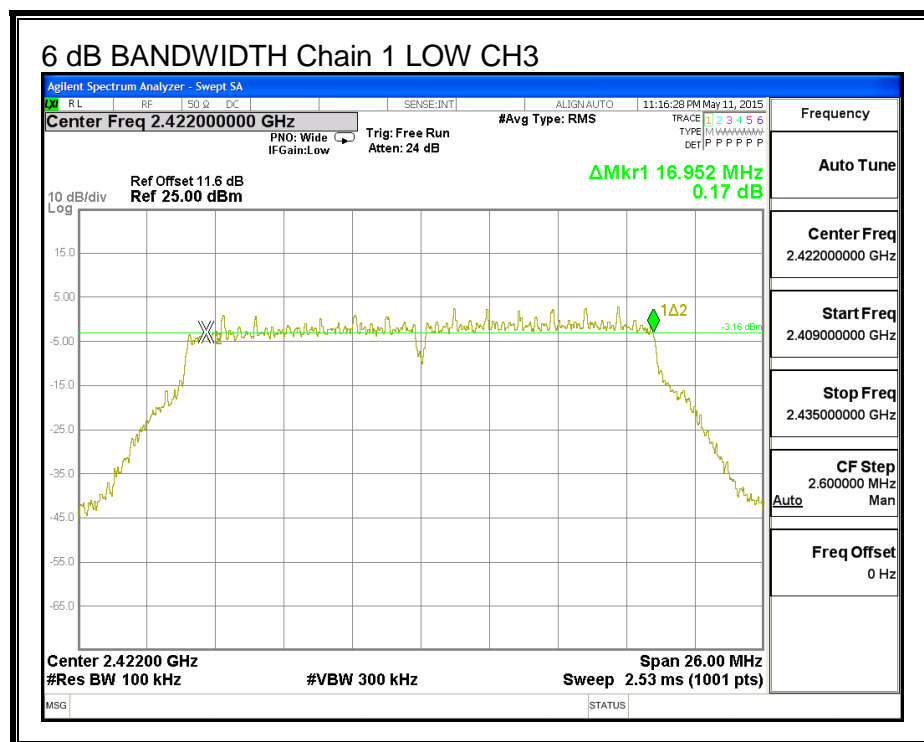
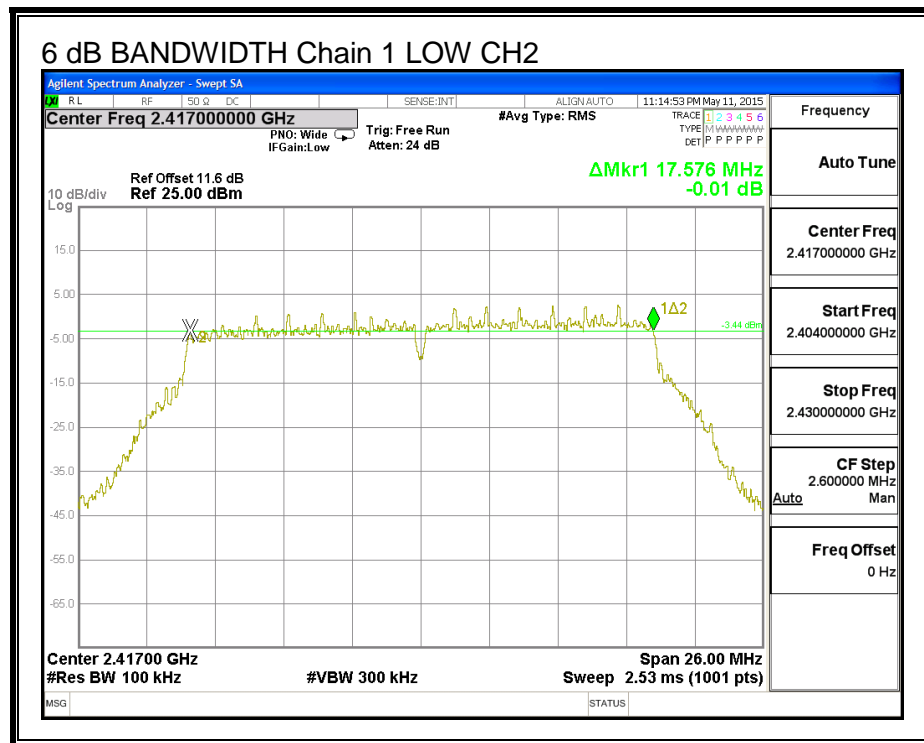


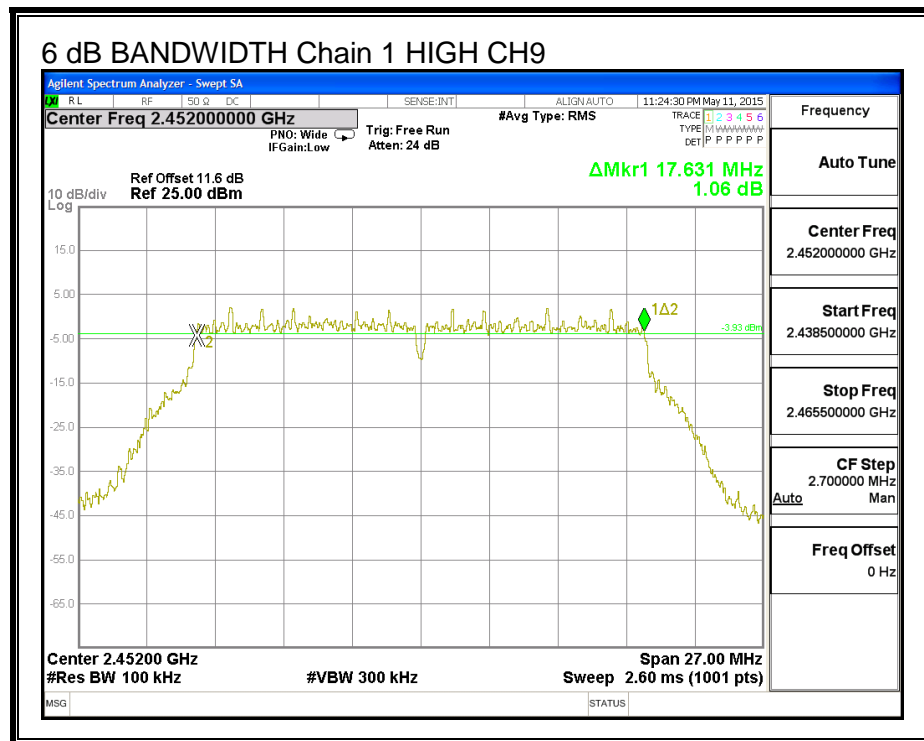
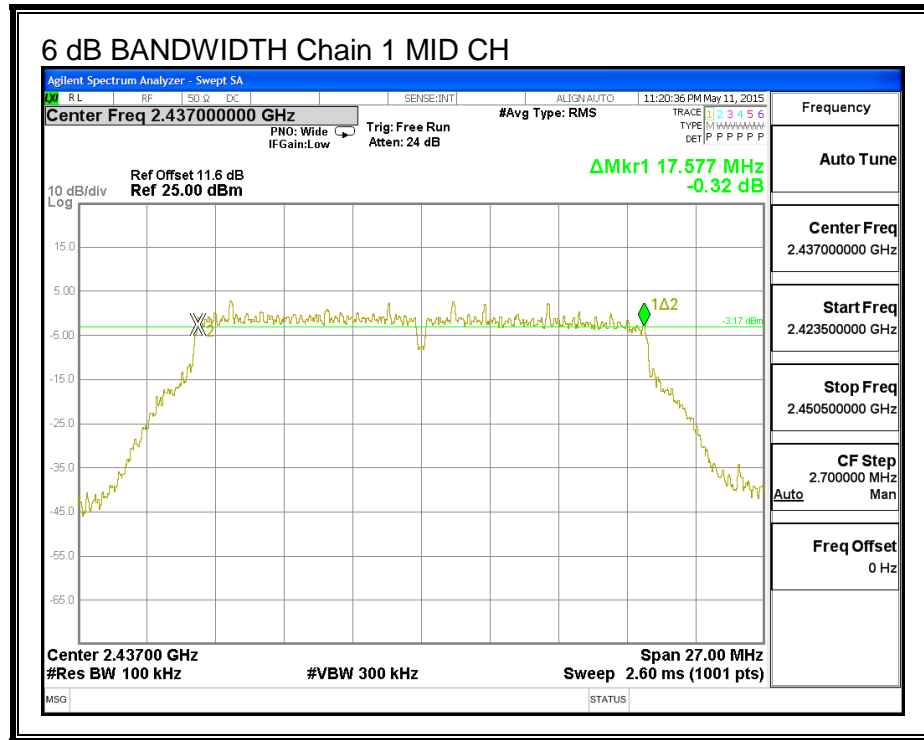


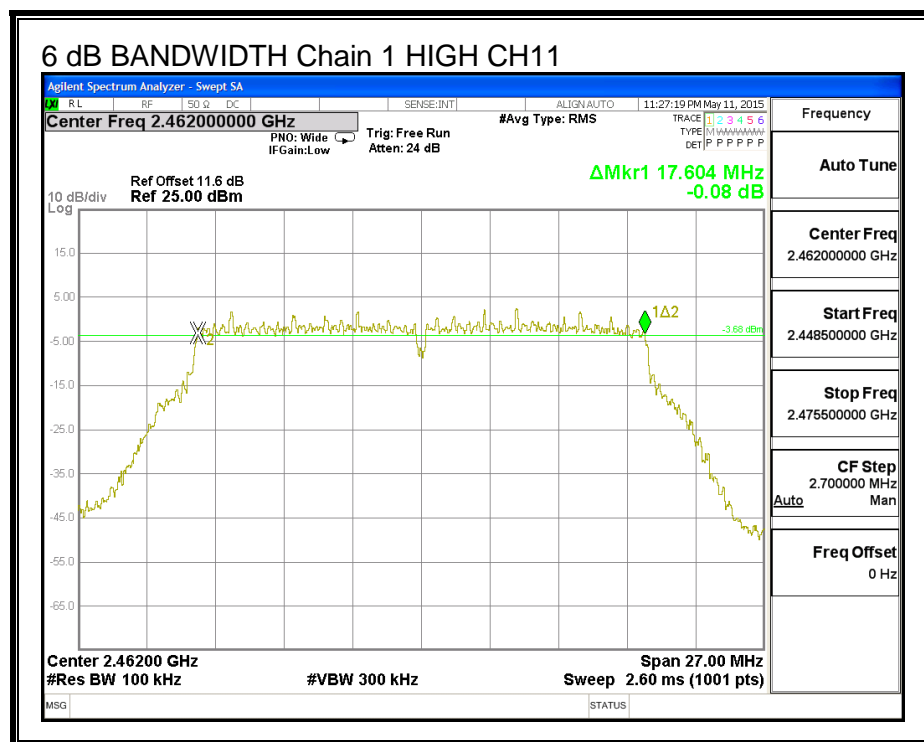
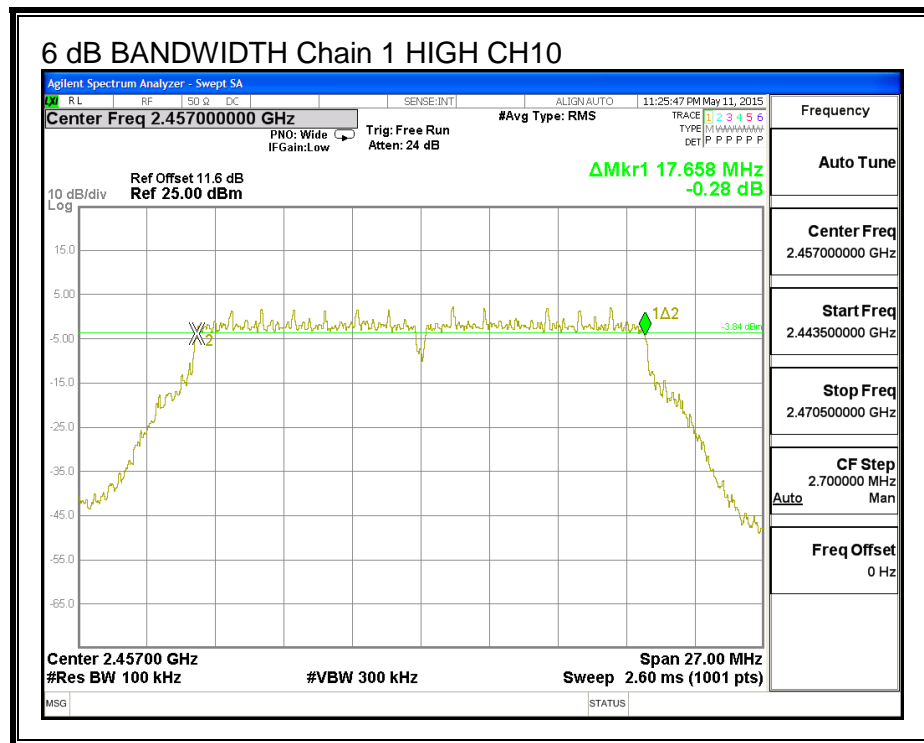


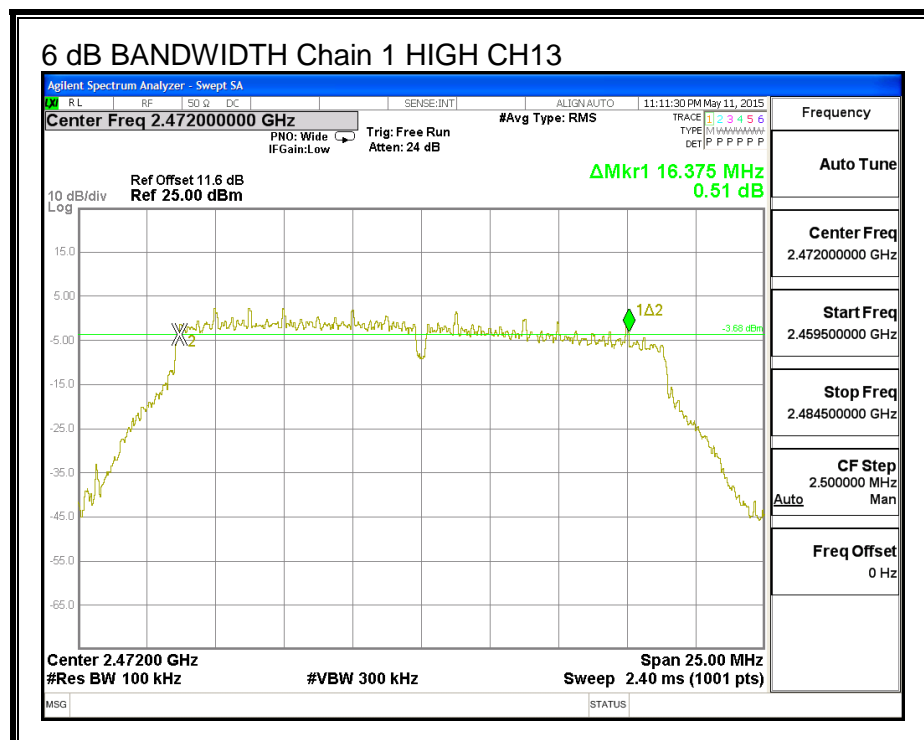
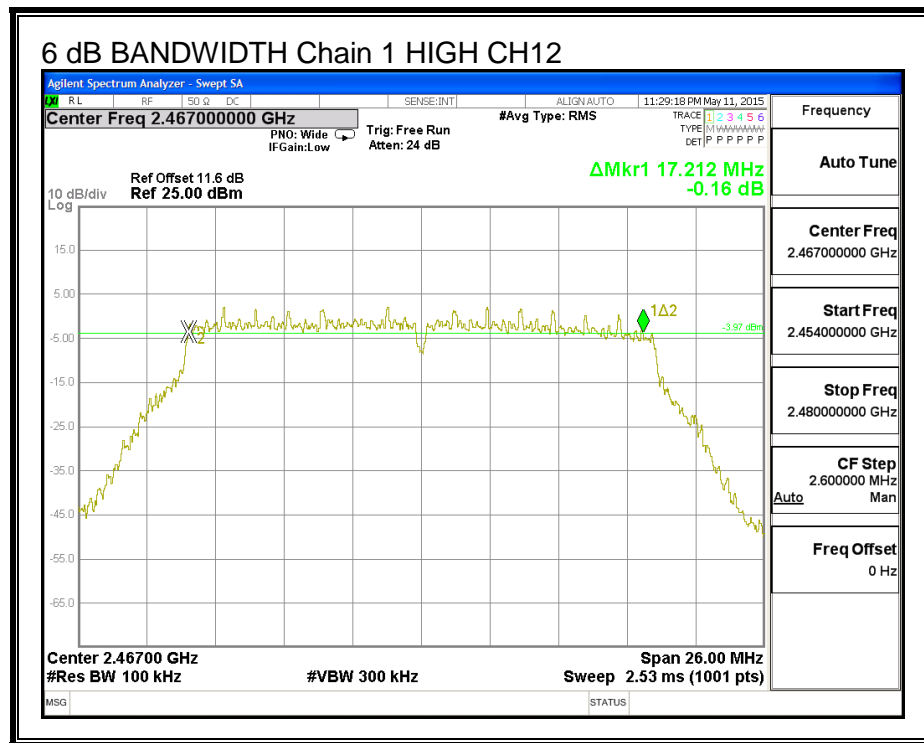
6 dB BANDWIDTH, Chain 1











9.4.2. 99% BANDWIDTH

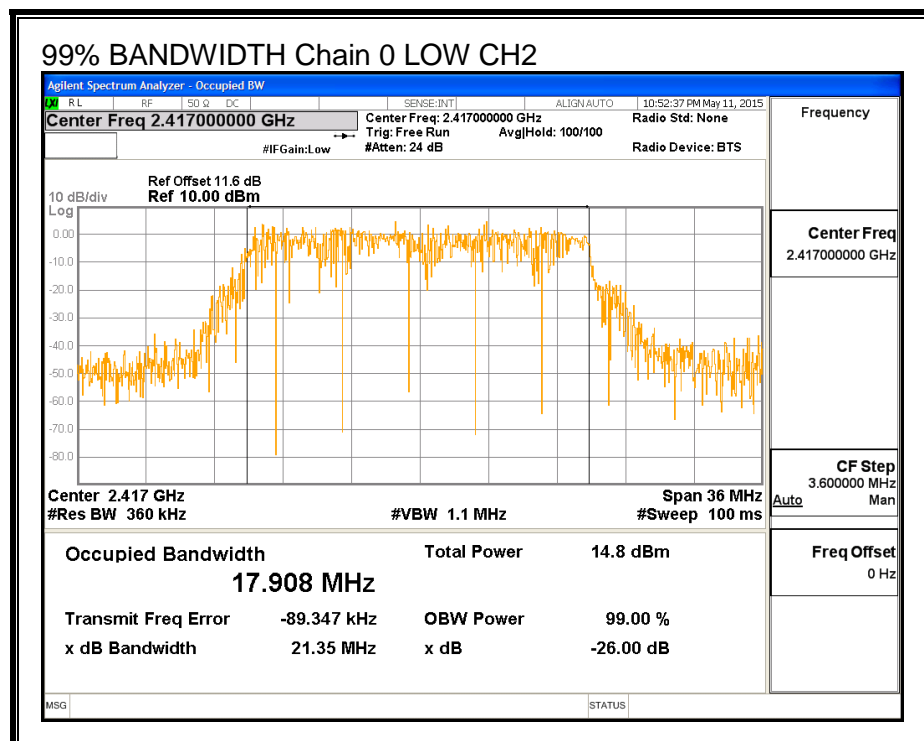
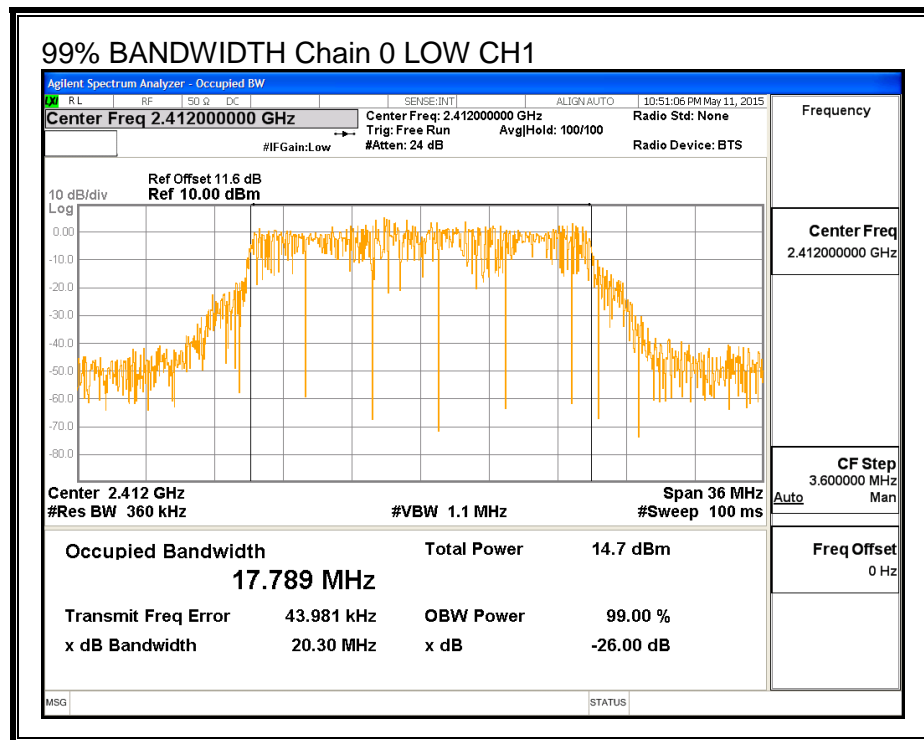
LIMITS

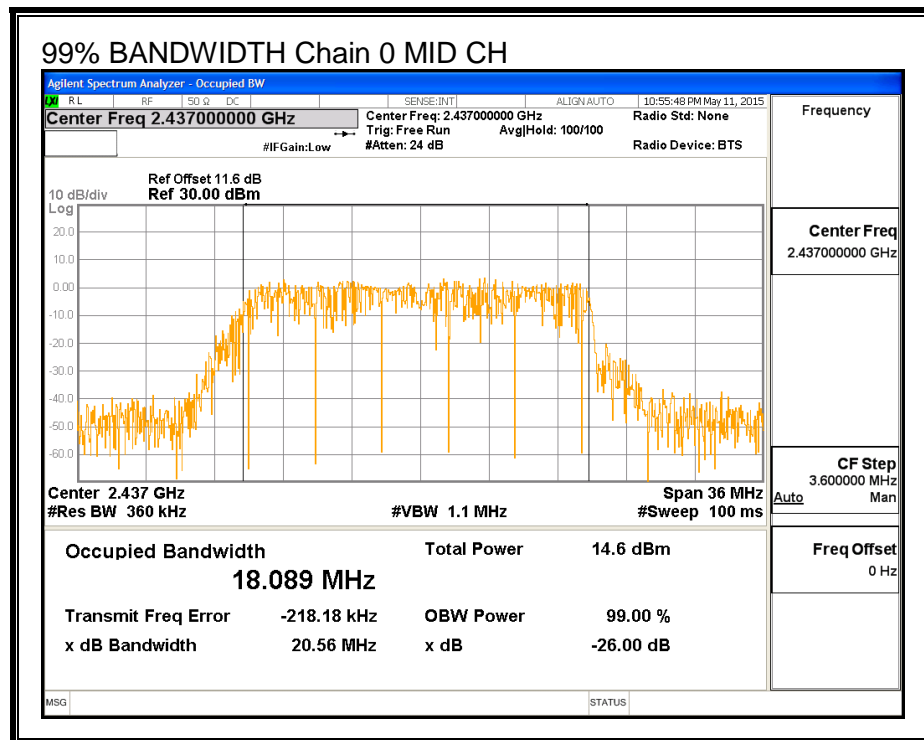
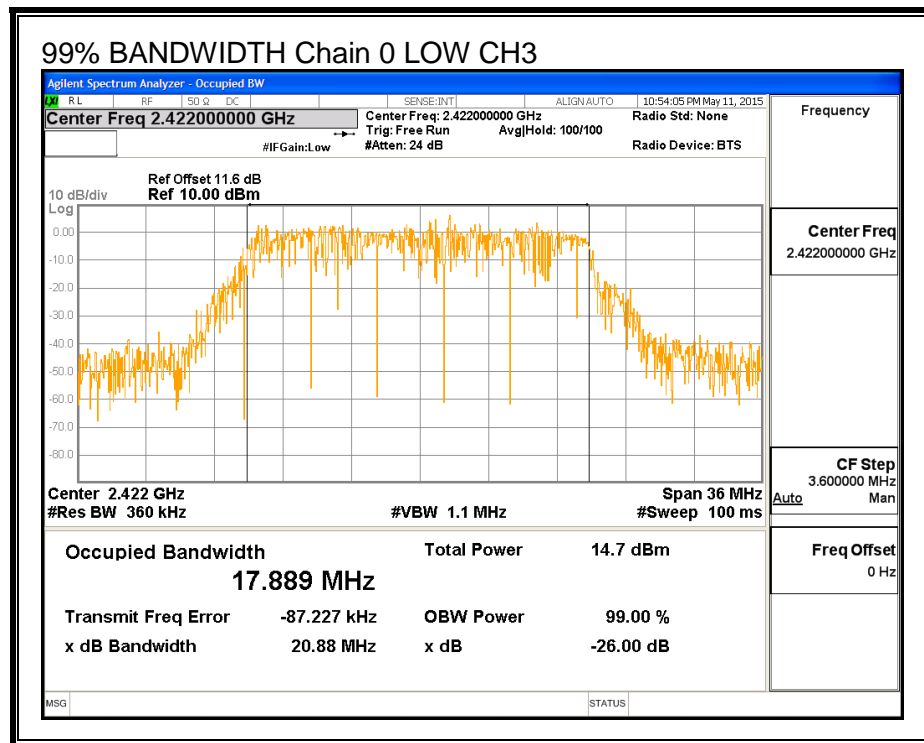
None; for reporting purposes only.

RESULTS

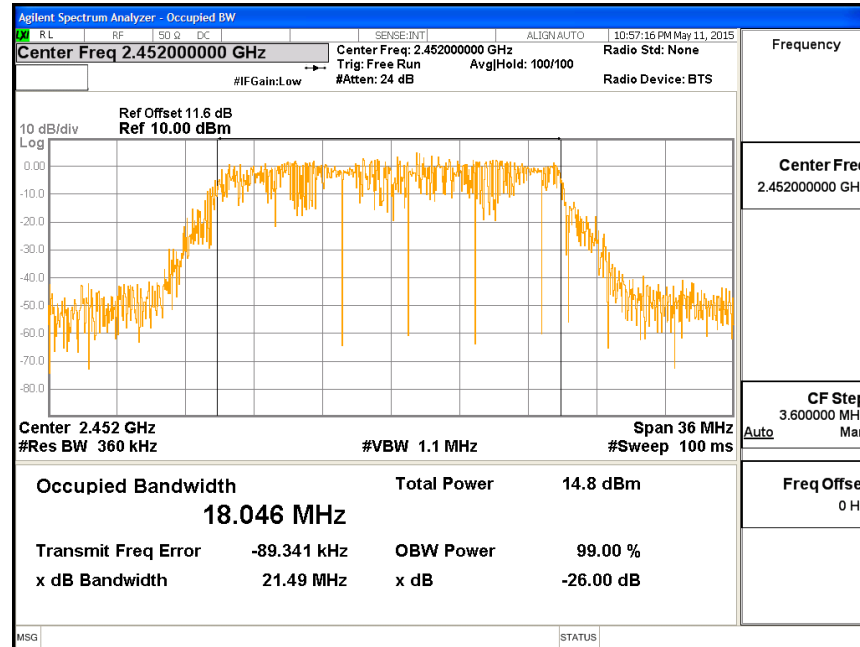
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low_1	2412	17.789	17.715
Low_2	2417	17.908	17.702
Low_3	2422	17.889	17.843
Mid	2437	18.089	17.652
High_9	2452	18.046	18.019
High_10	2457	17.843	17.926
High_11	2462	17.771	17.864
High_12	2467	17.750	17.744
High_13	2472	17.595	17.629

99% BANDWIDTH, Chain 0

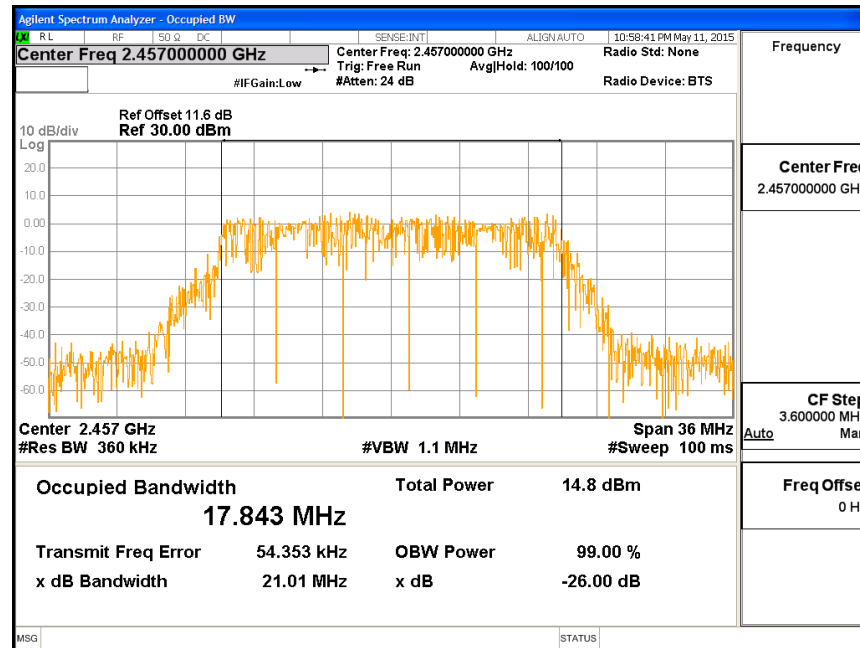


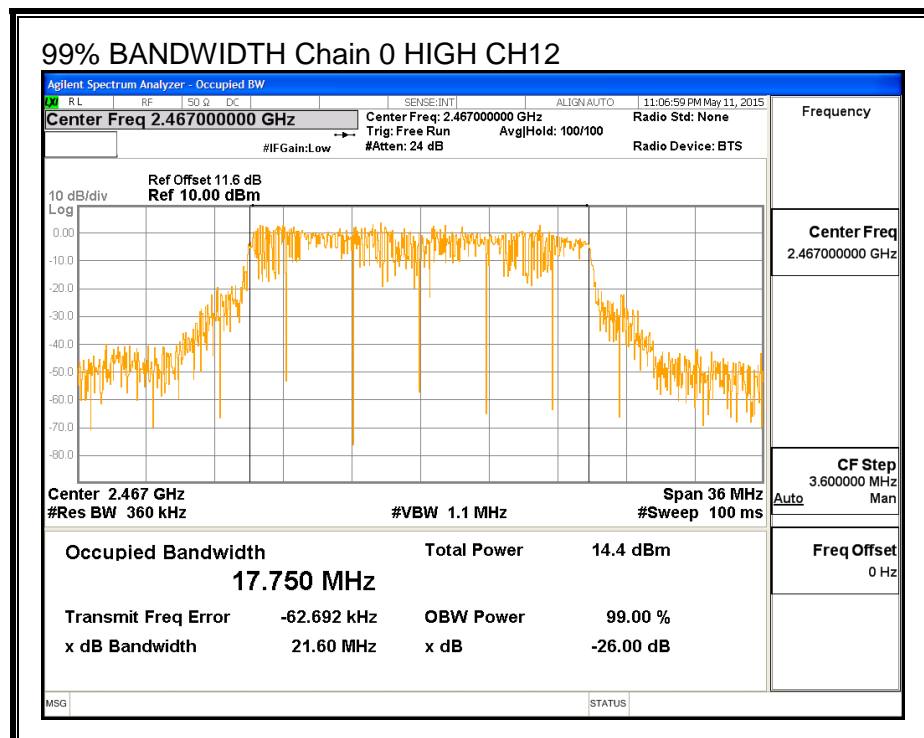
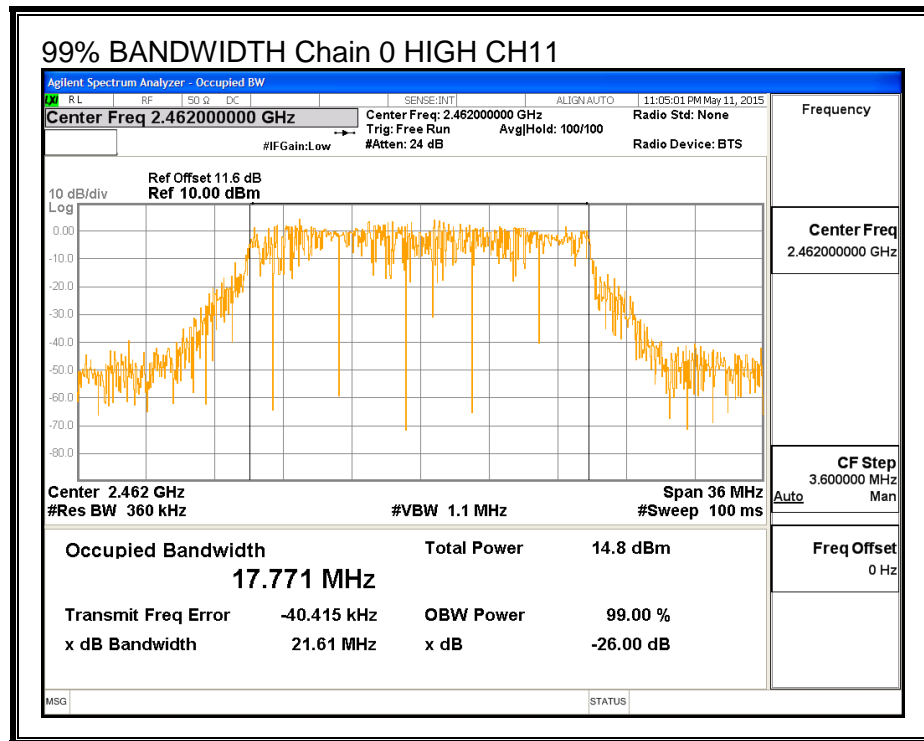


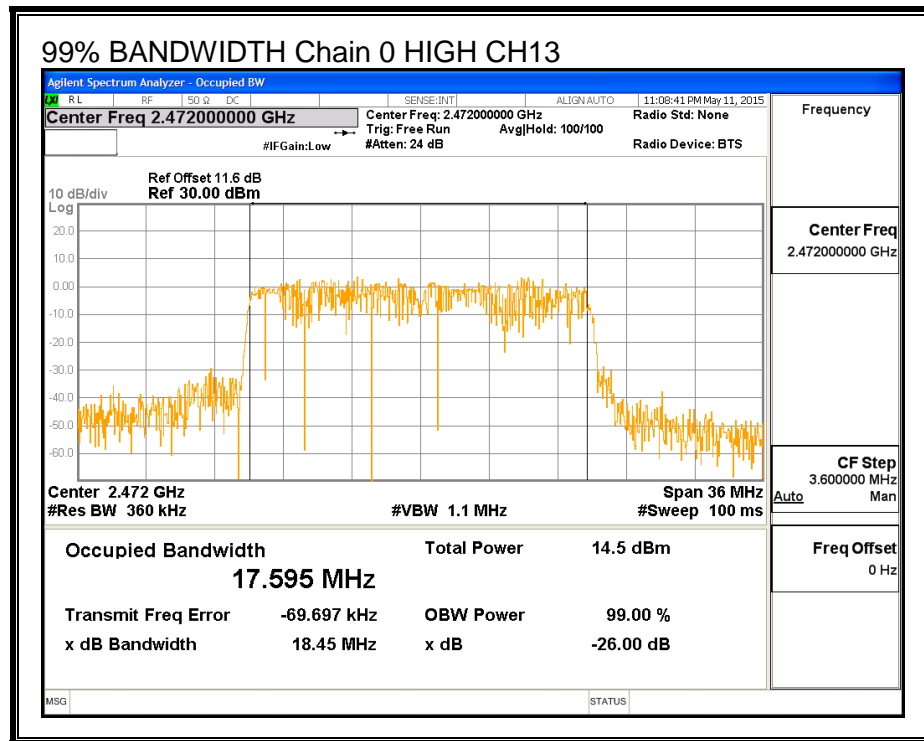
99% BANDWIDTH Chain 0 HIGH CH9



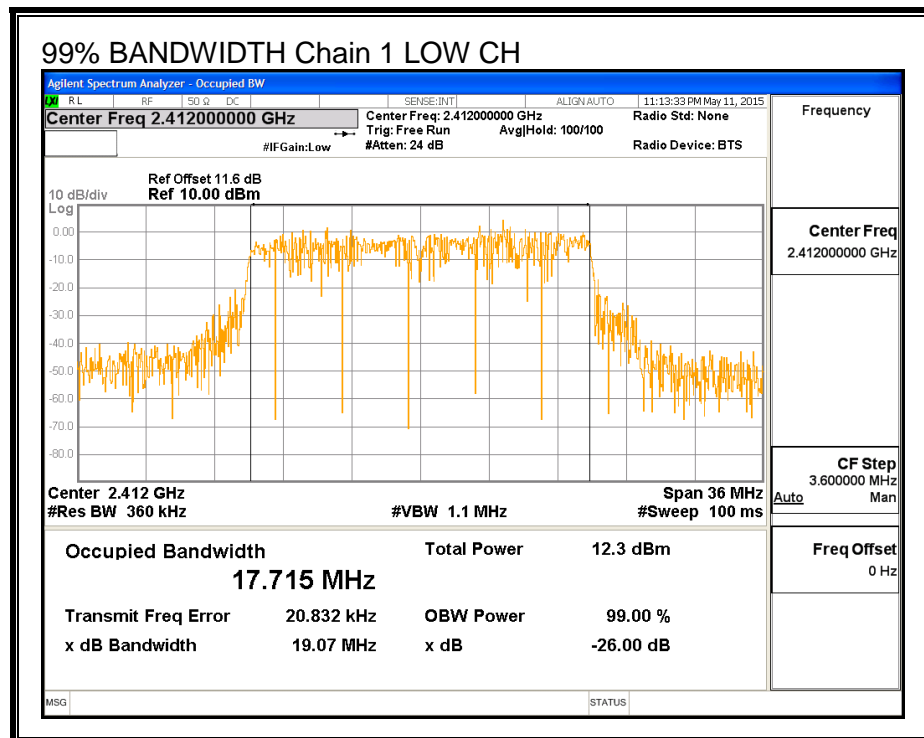
99% BANDWIDTH Chain 0 HIGH CH10

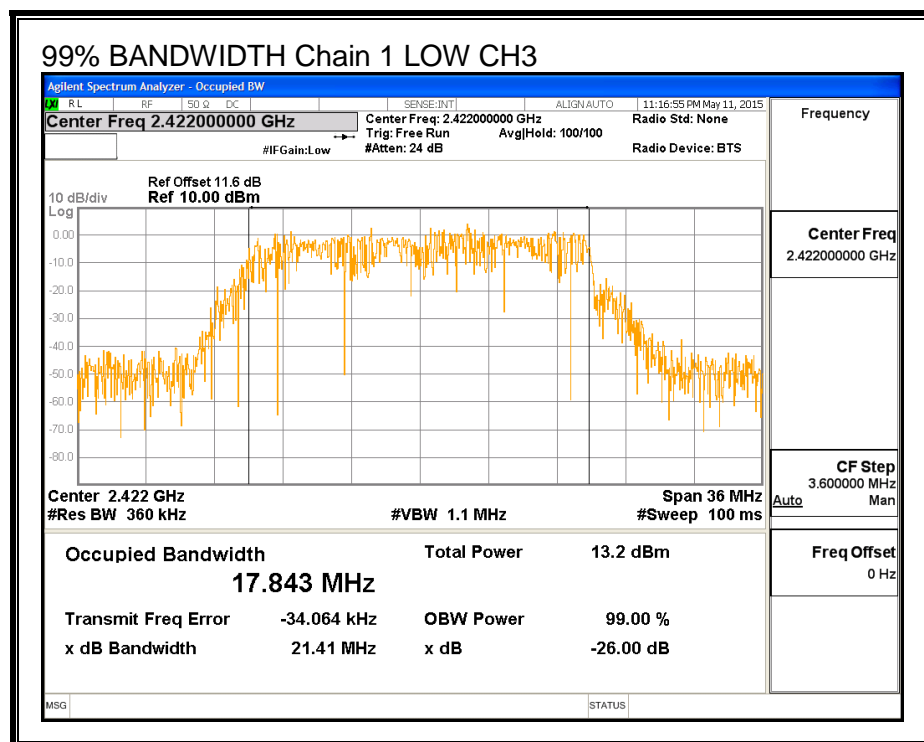
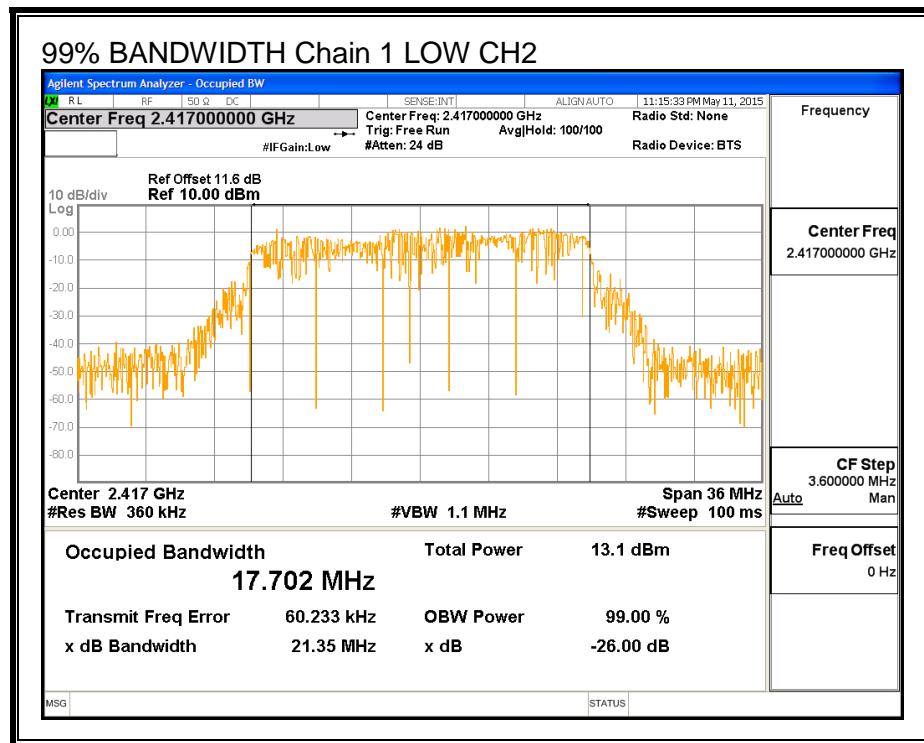


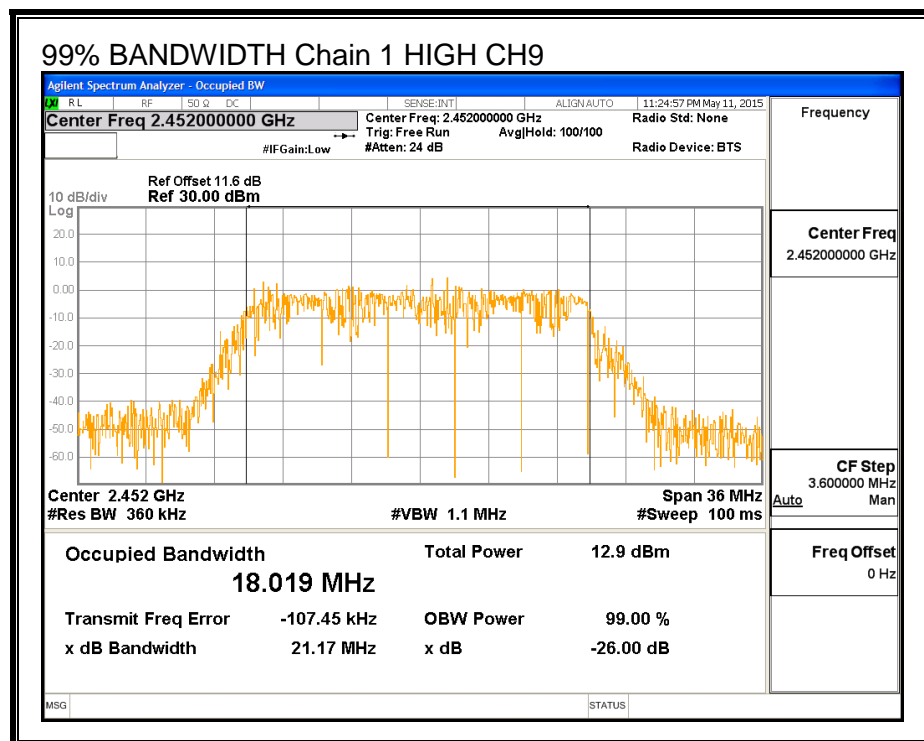
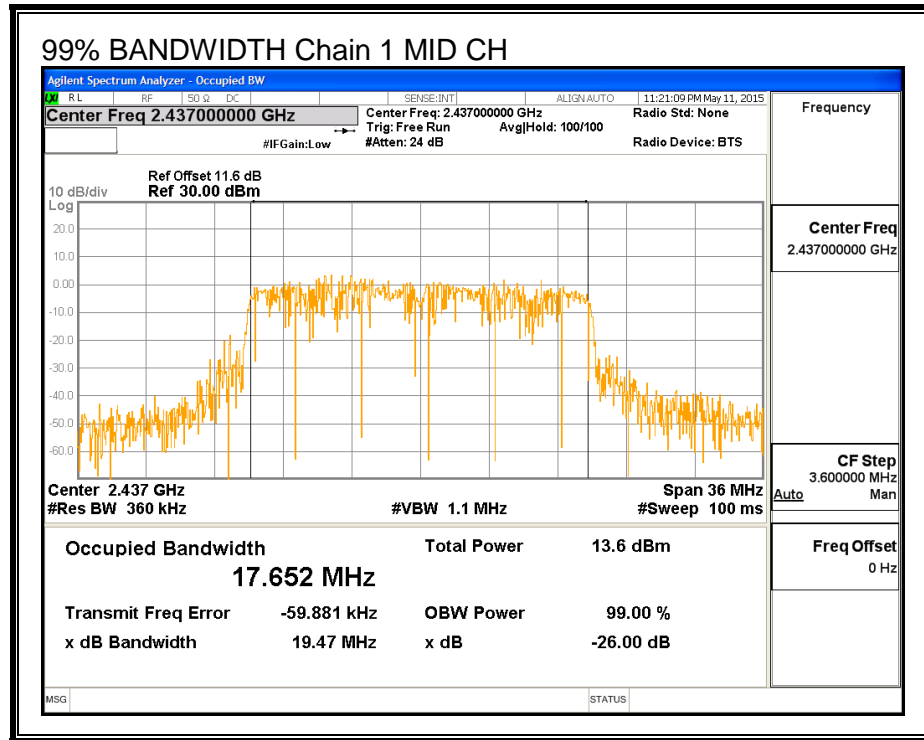


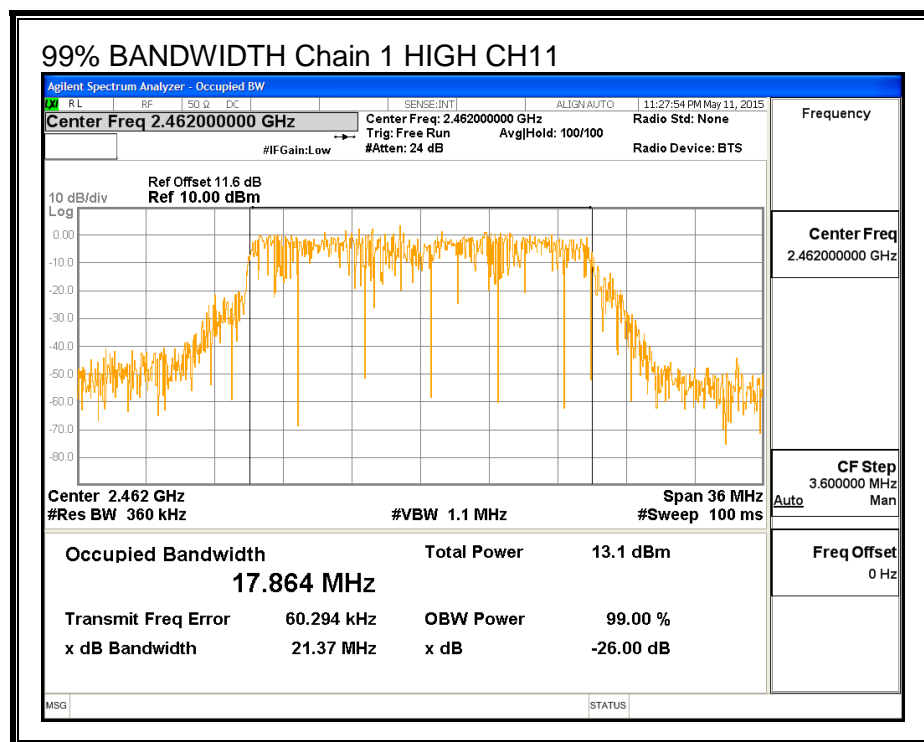
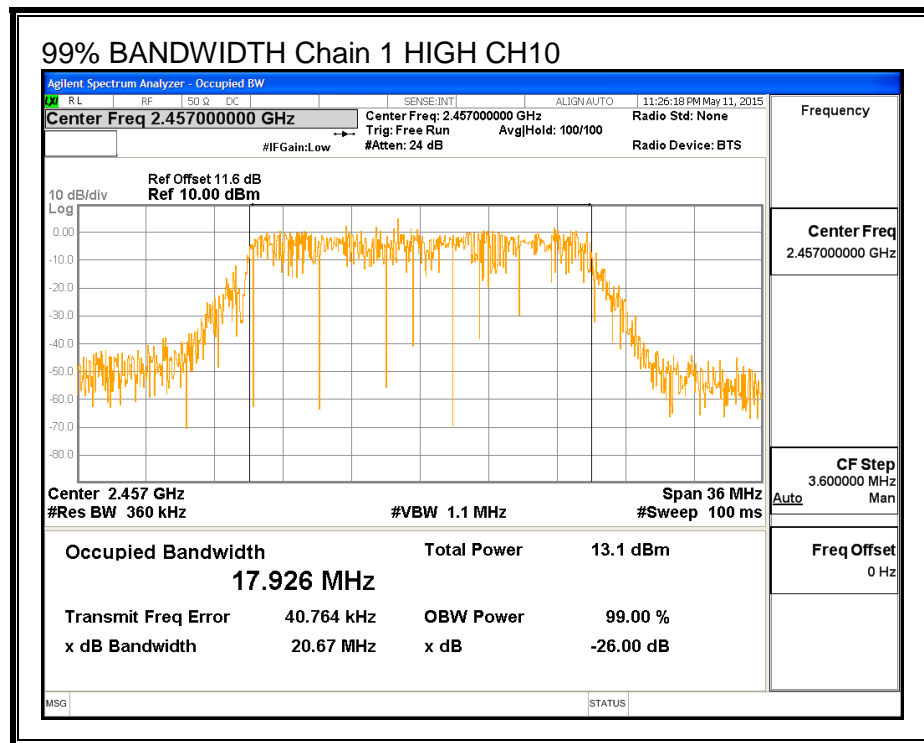


99% BANDWIDTH, Chain 1

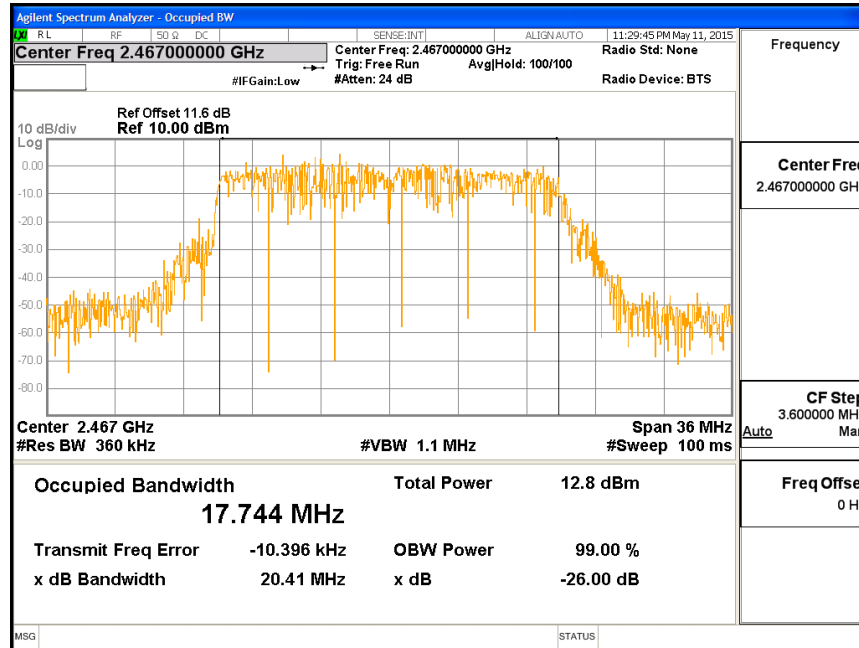




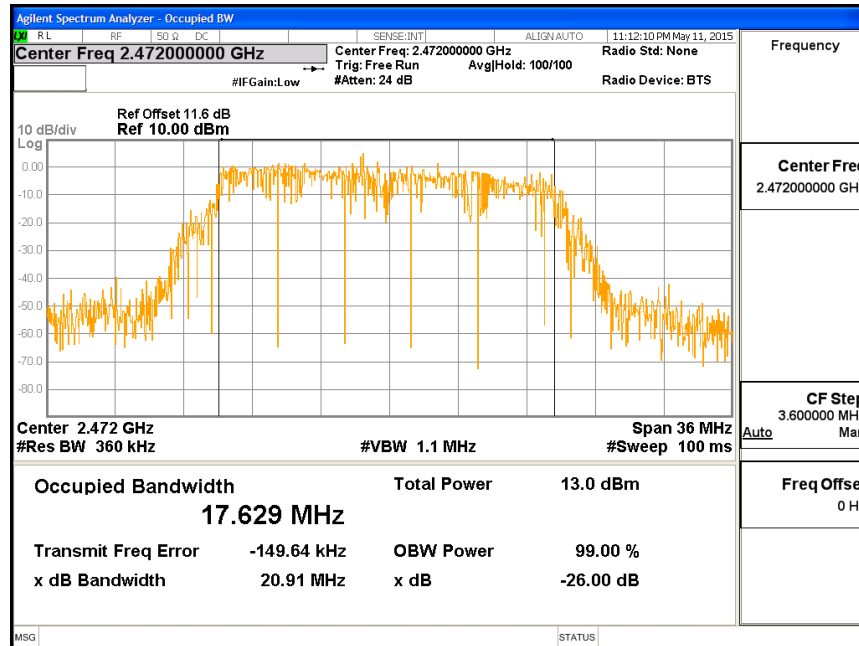




99% BANDWIDTH Chain 1 HIGH CH12



99% BANDWIDTH Chain 1 HIGH CH13



9.4.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low_1	2412	12.95	12.99	15.98
Low_2	2417	15.42	15.37	18.41
Low_3	2422	18.36	17.93	21.16
Mid	2437	18.39	17.96	21.19
High_9	2452	18.37	17.93	21.17
High_10	2457	15.98	15.80	18.90
High_11	2462	13.79	13.77	16.79
High_12	2467	10.81	10.88	13.86
High_13	2472	1.90	1.82	4.87

9.4.4. 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)
0.16	1.40	0.82

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	0.82	30.00	30	36	30.00
Low_2	2417	0.82	30.00	30	36	30.00
Low_3	2422	0.82	30.00	30	36	30.00
Mid	2437	0.82	30.00	30	36	30.00
High_9	2452	0.82	30.00	30	36	30.00
High_10	2457	0.82	30.00	30	36	30.00
High_11	2462	0.82	30.00	30	36	30.00
High_12	2467	0.82	30.00	30	36	30.00
High_13	2472	0.82	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
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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	20.10	20.24	23.18	30.00	-6.82
Low_2	2417	22.73	22.68	25.72	30.00	-4.28
Low_3	2422	25.54	25.00	28.29	30.00	-1.71
Mid	2437	25.58	25.03	28.32	30.00	-1.68
High_9	2452	25.54	25.02	28.30	30.00	-1.70
High_10	2457	23.25	23.22	26.25	30.00	-3.75
High_11	2462	21.13	21.09	24.12	30.00	-5.88
High_12	2467	18.14	18.49	21.33	30.00	-8.67
High_13	2472	9.25	9.17	12.22	30.00	-17.78

9.4.5. 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.

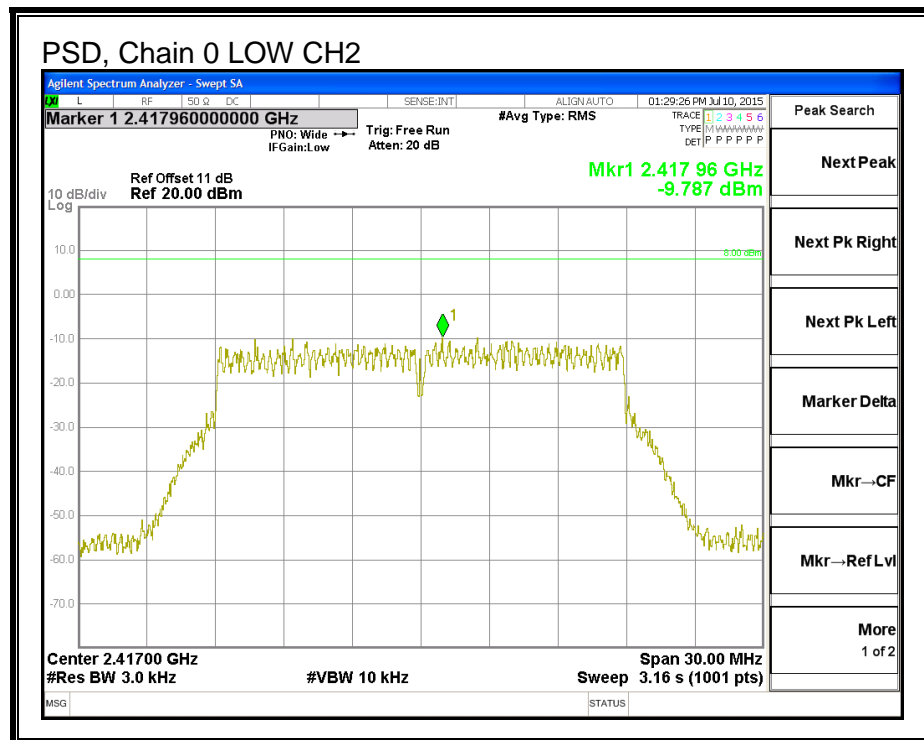
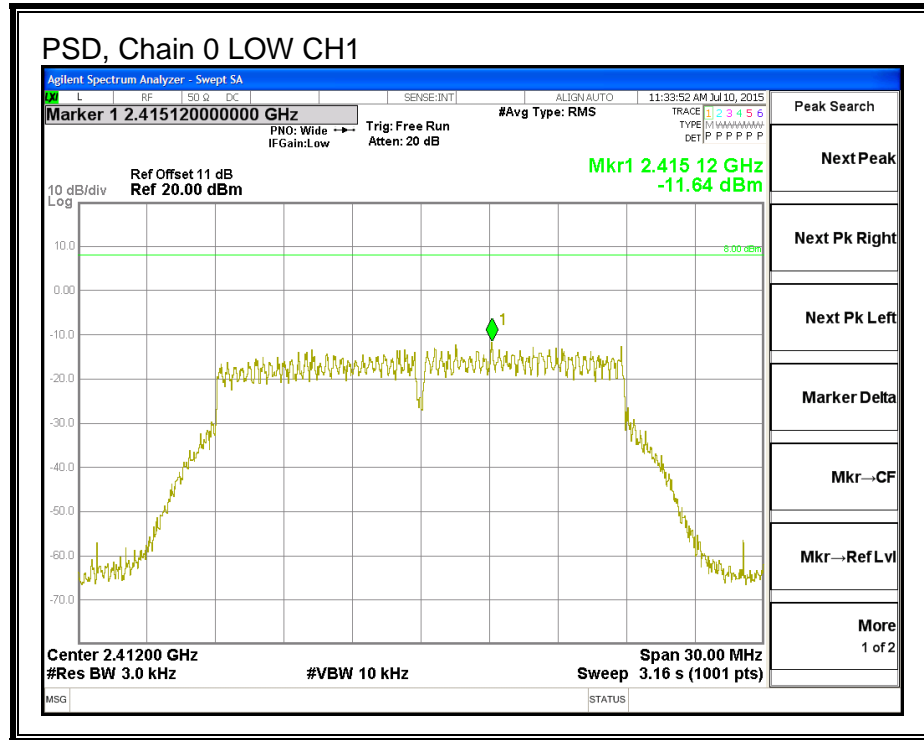
RESULTS

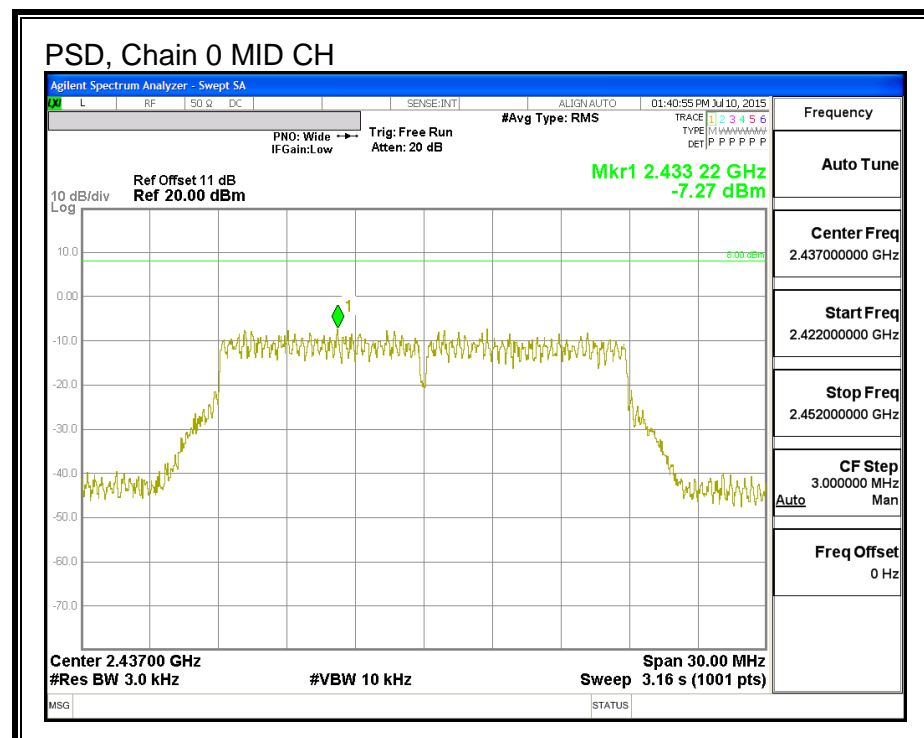
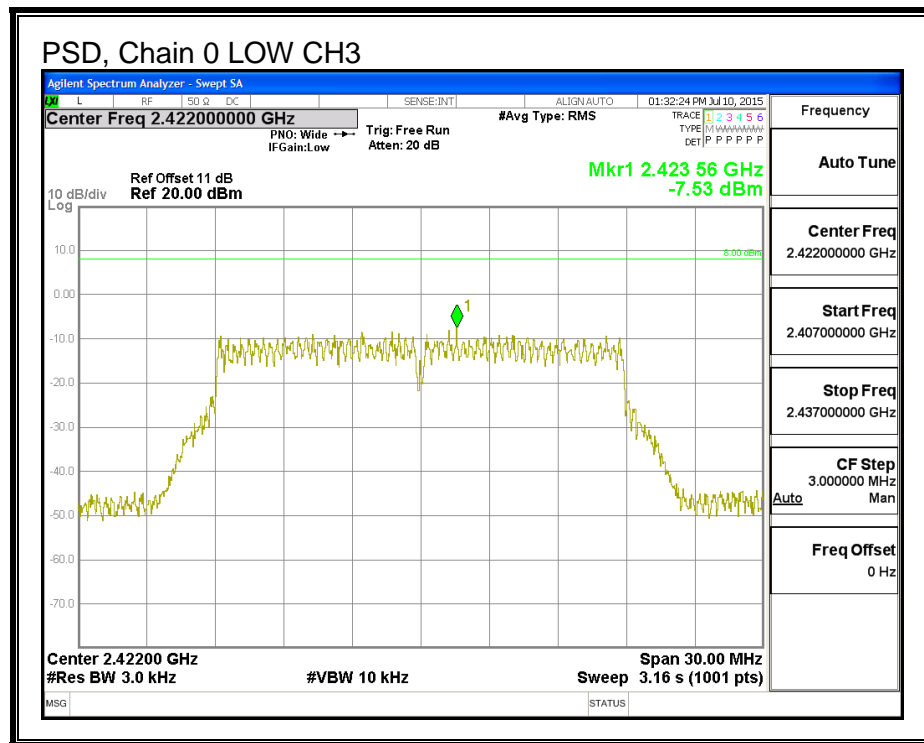
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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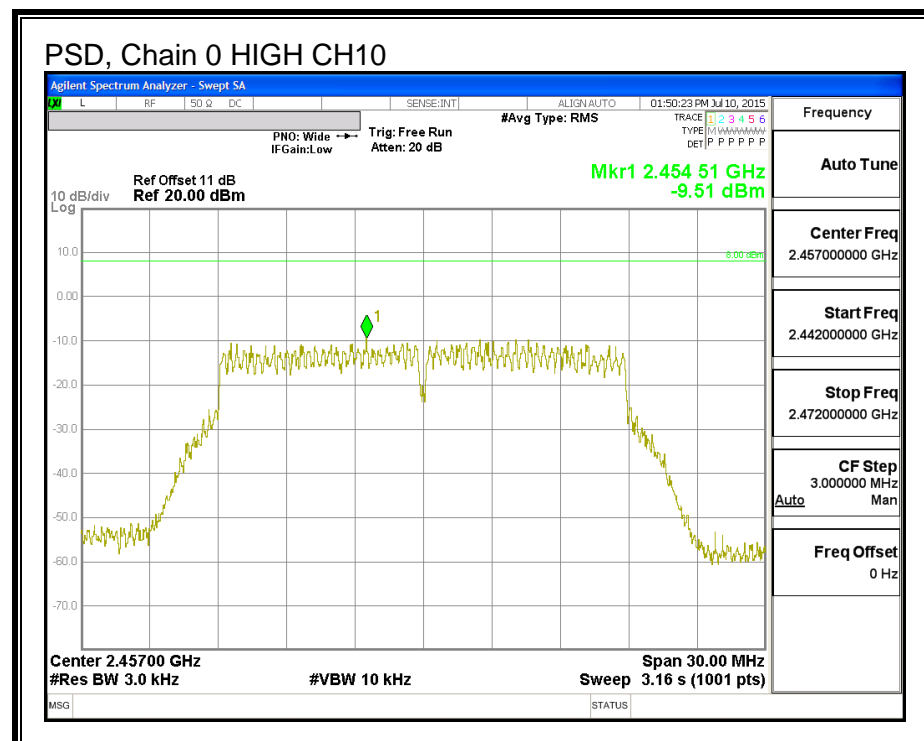
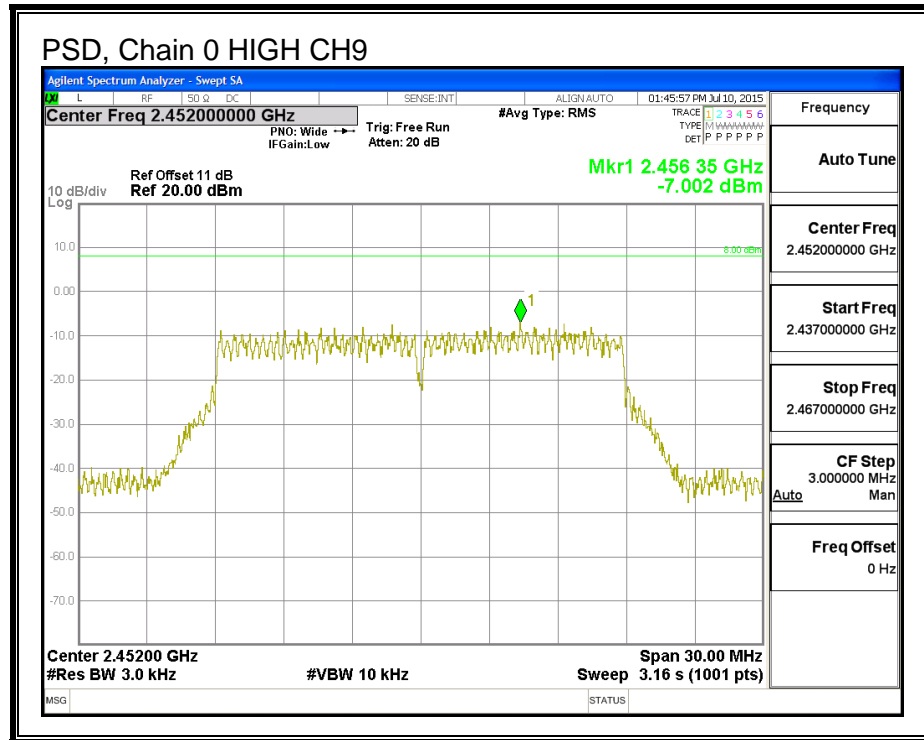
PSD Results

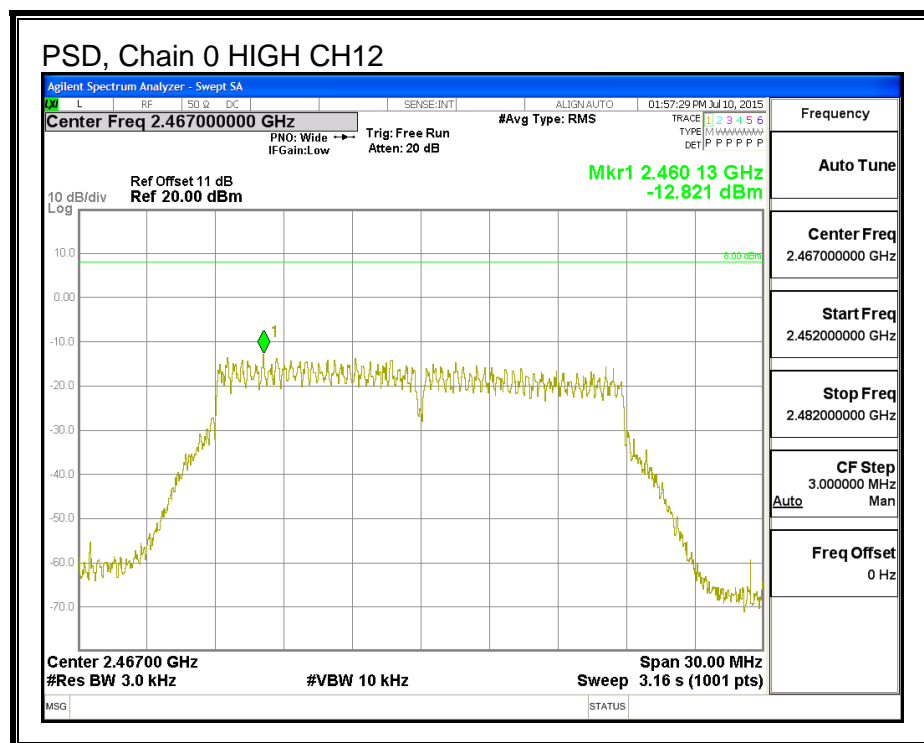
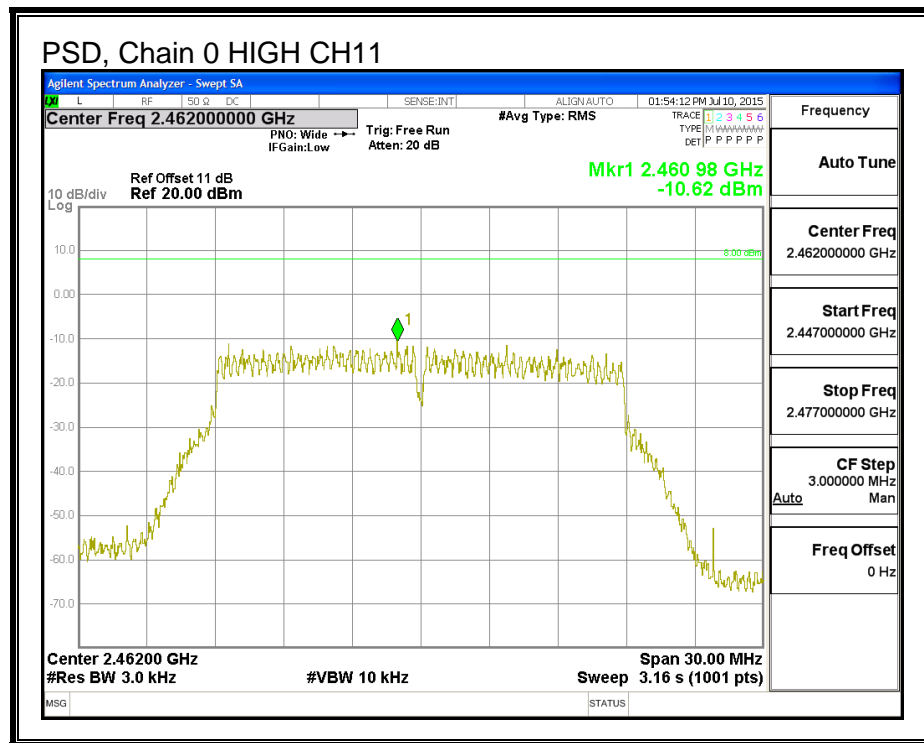
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low_1	2412	-11.64	-11.59	-8.60	8.0	-16.6
Low_2	2417	-9.79	-10.06	-6.91	8.0	-14.9
Low_3	2422	-7.53	-7.85	-4.68	8.0	-12.7
Mid	2437	-7.27	-8.10	-4.65	8.0	-12.7
High_9	2452	-7.00	-7.24	-4.11	8.0	-12.1
High_10	2457	-9.51	-9.66	-6.57	8.0	-14.6
High_11	2462	-10.62	-11.12	-7.85	8.0	-15.9
High_12	2467	-12.82	-13.02	-9.91	8.0	-17.9
High_13	2472	-21.88	-22.11	-18.98	8.0	-27.0

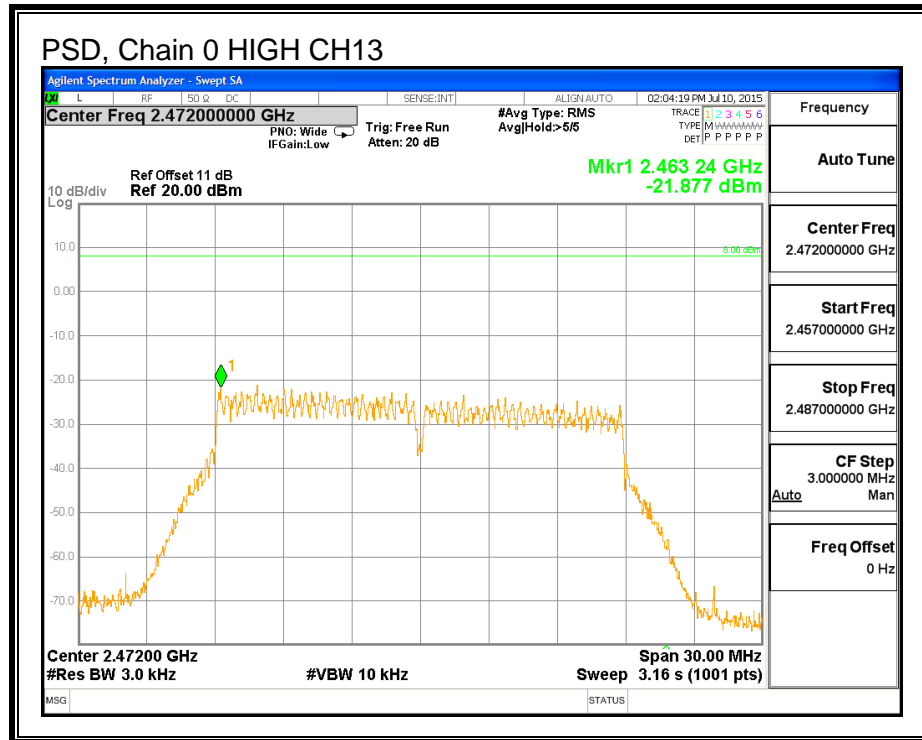
PSD, Chain 0



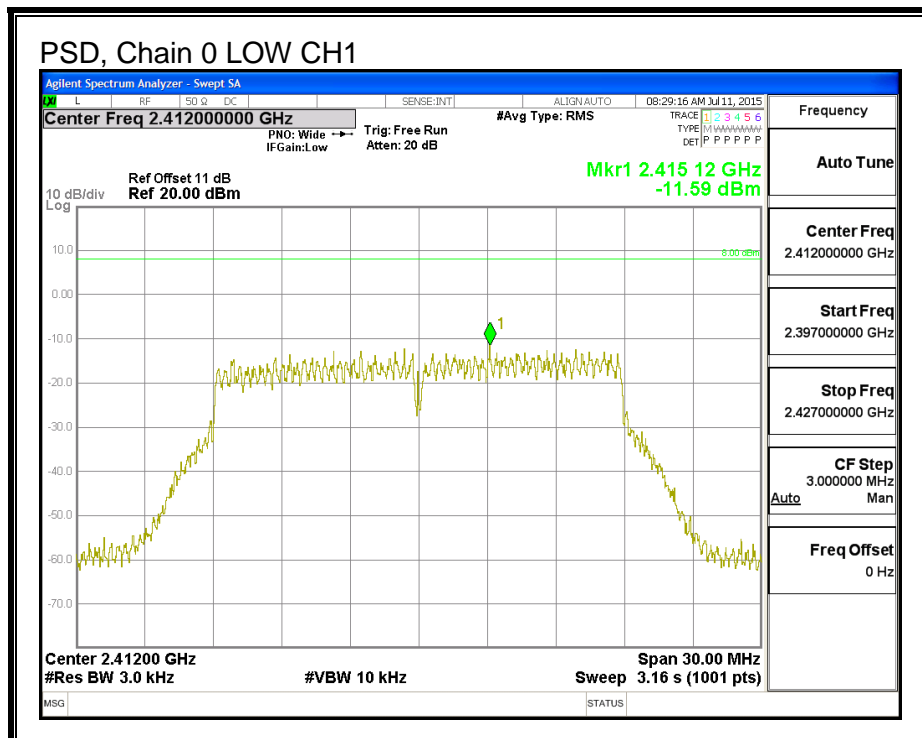


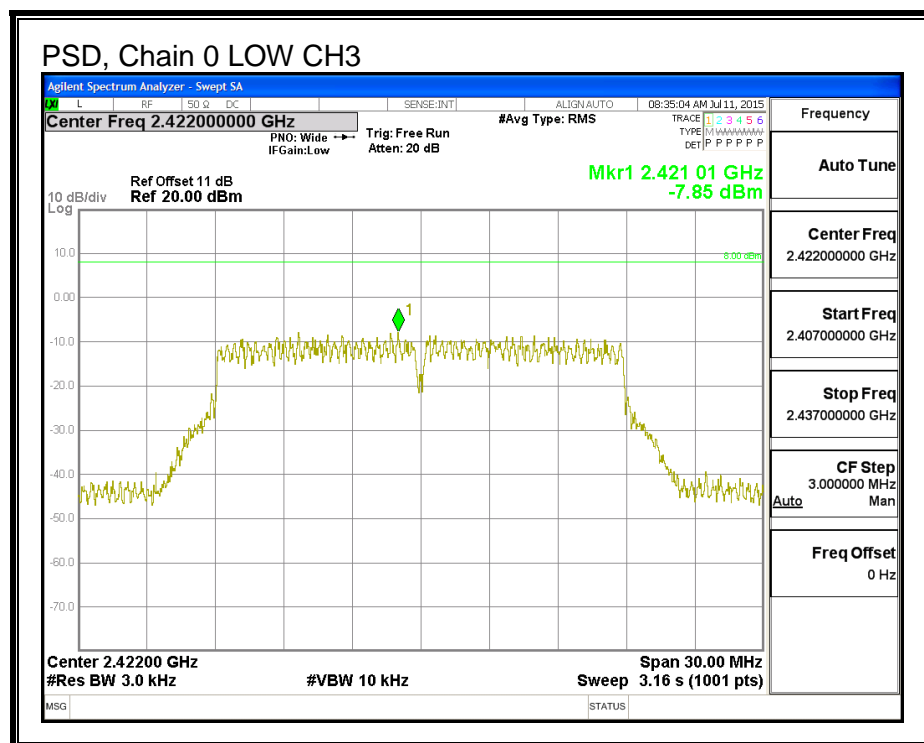
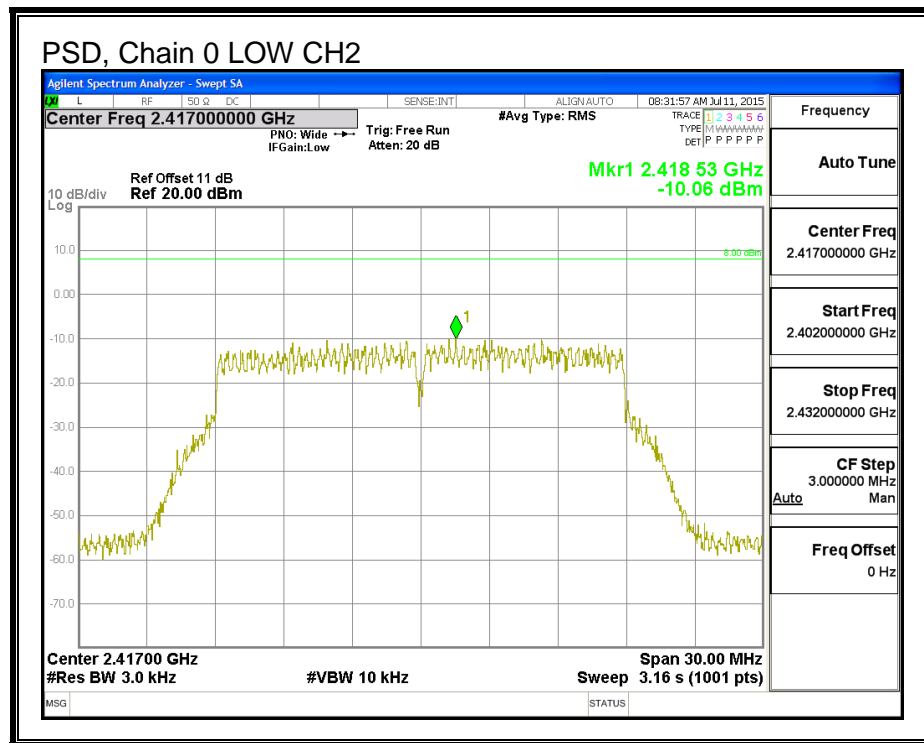


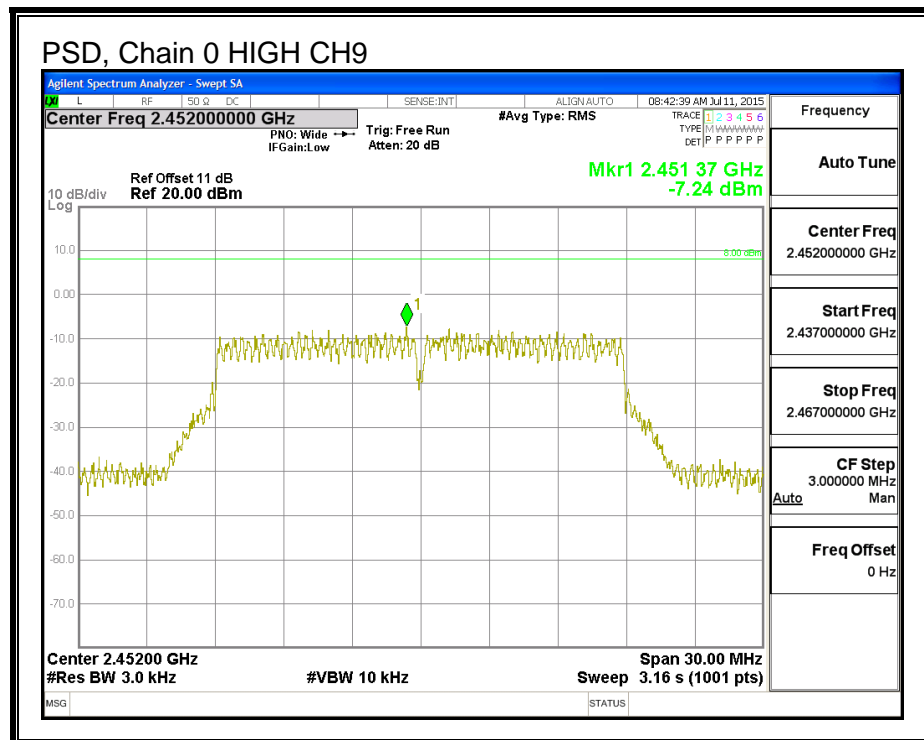
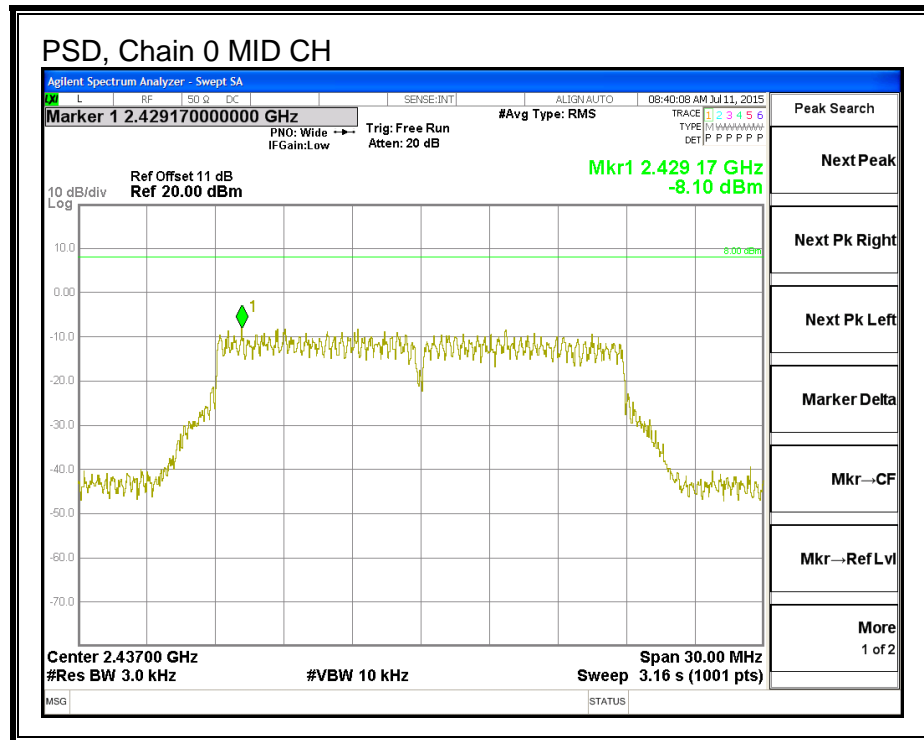


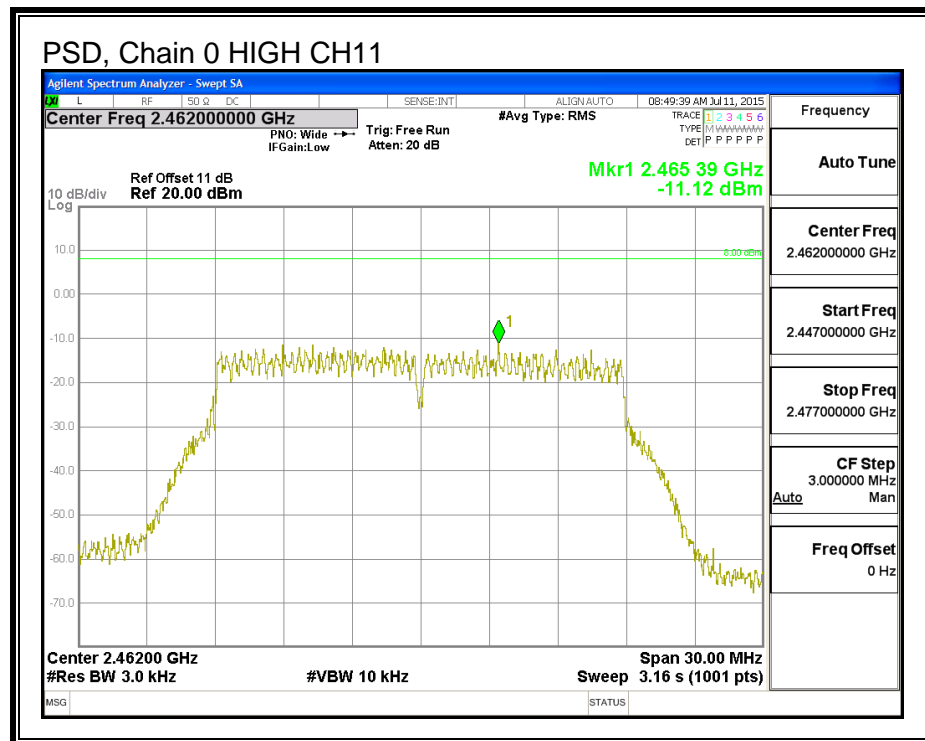
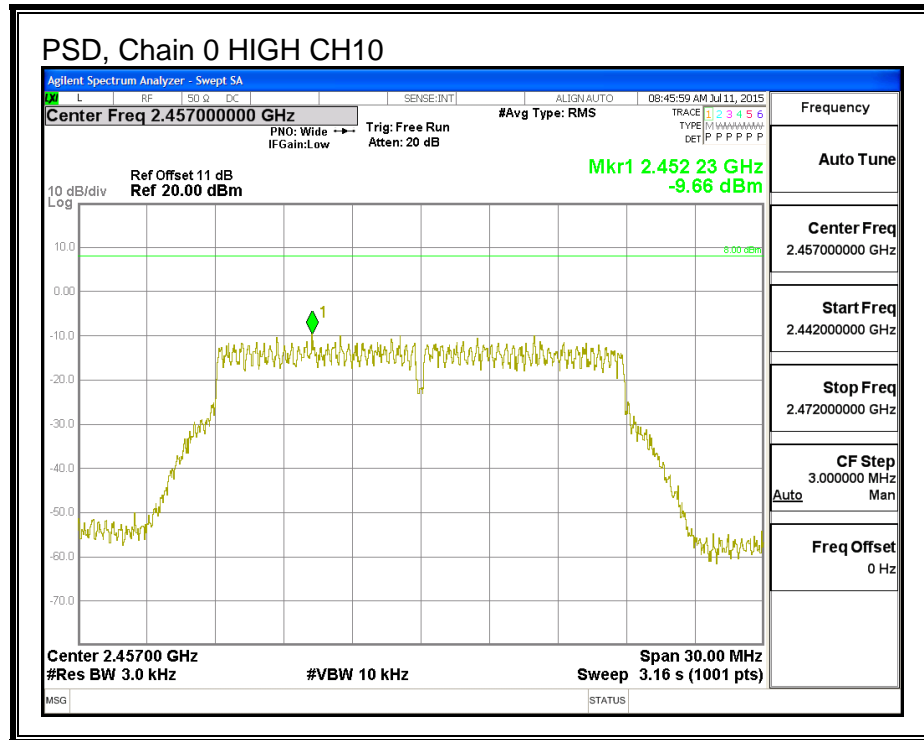


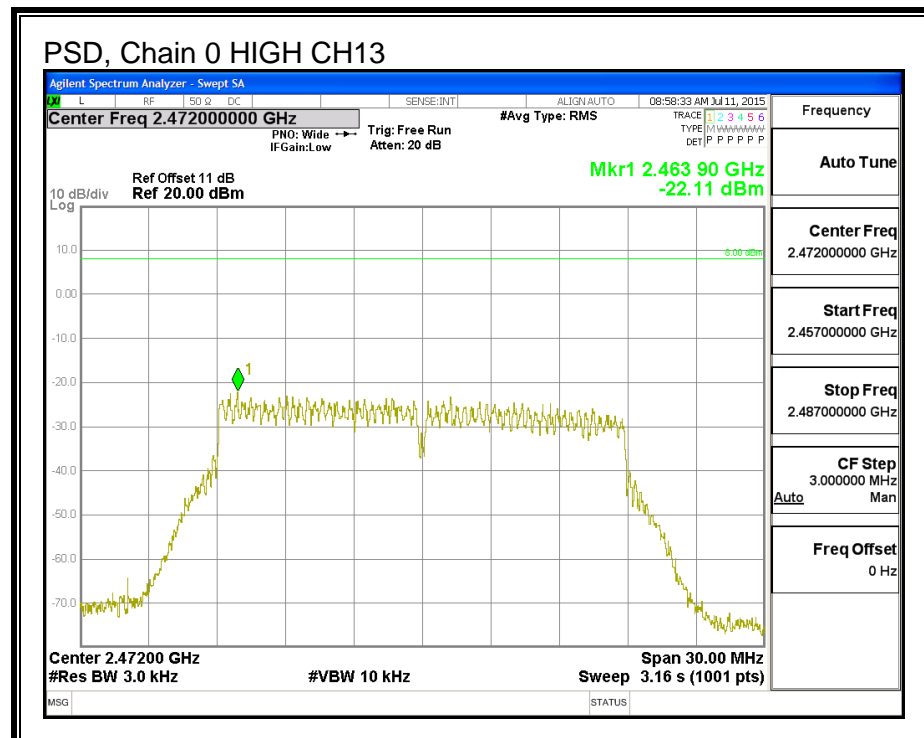
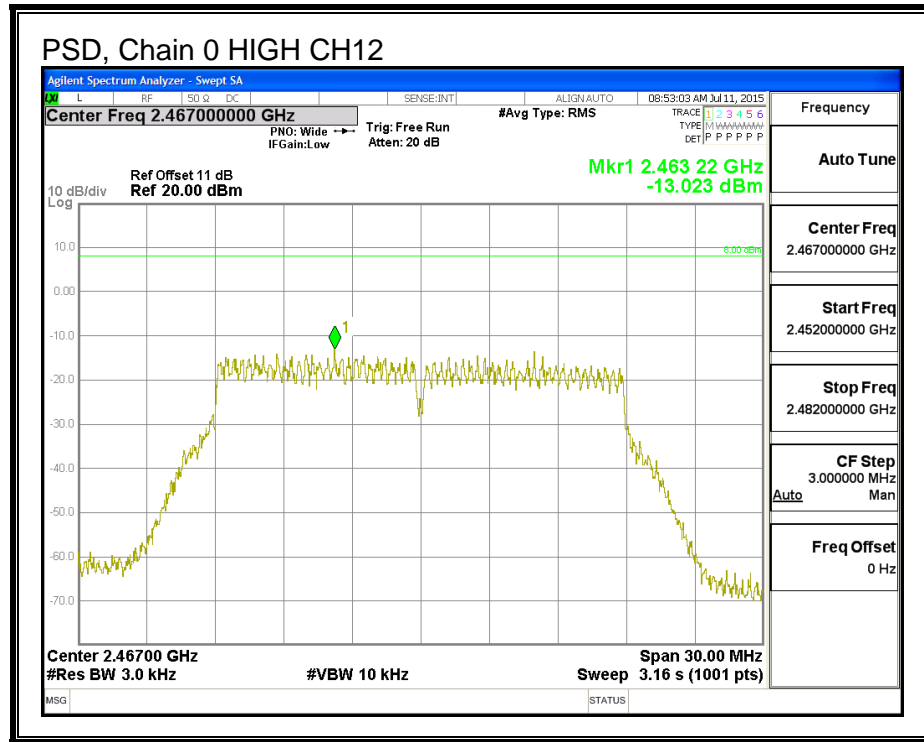
PSD, Chain 1











9.4.6. OUT-OF-BAND EMISSIONS

LIMITS

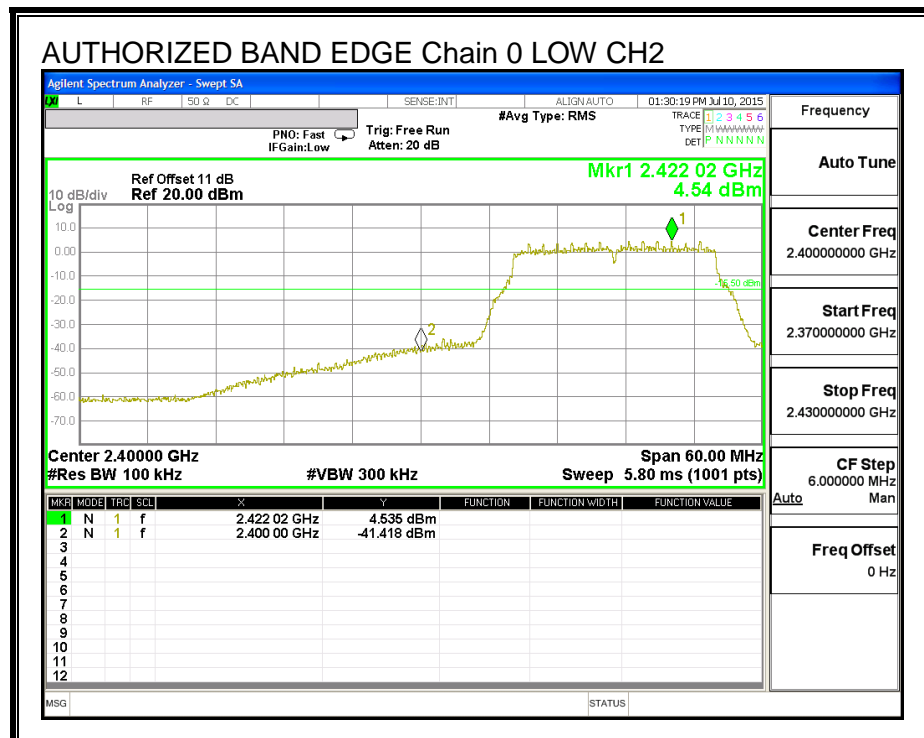
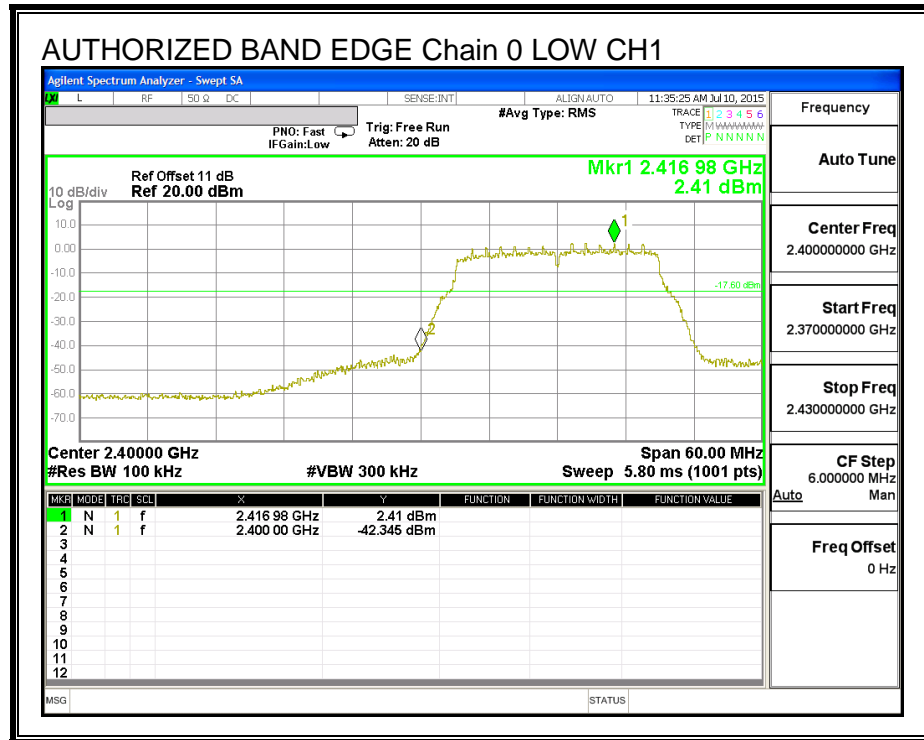
FCC §15.247 (d)

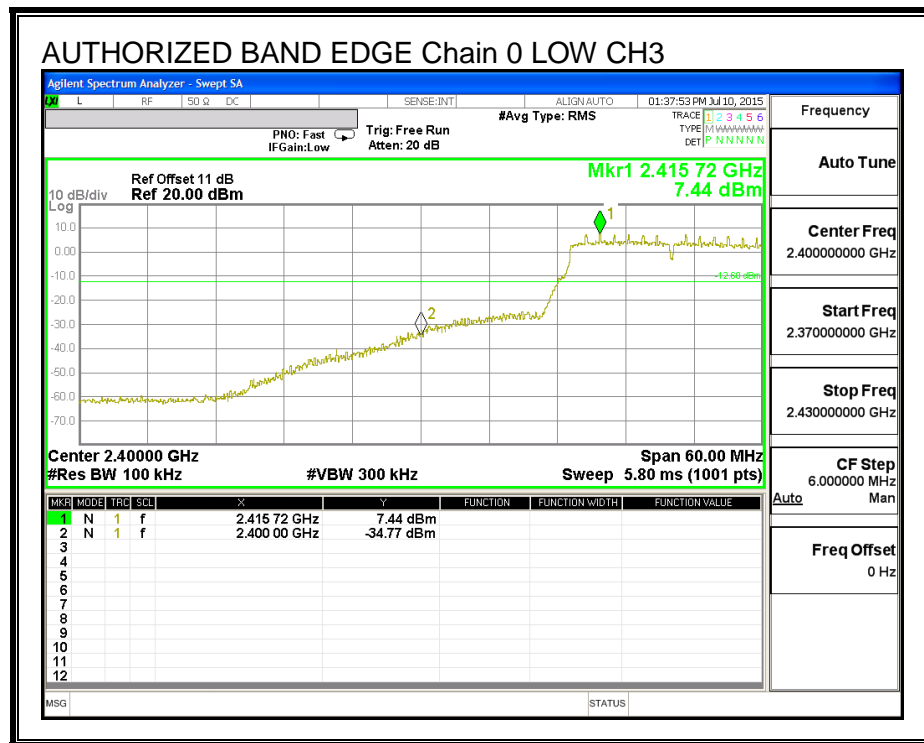
IC RSS-247 (5.5)

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.

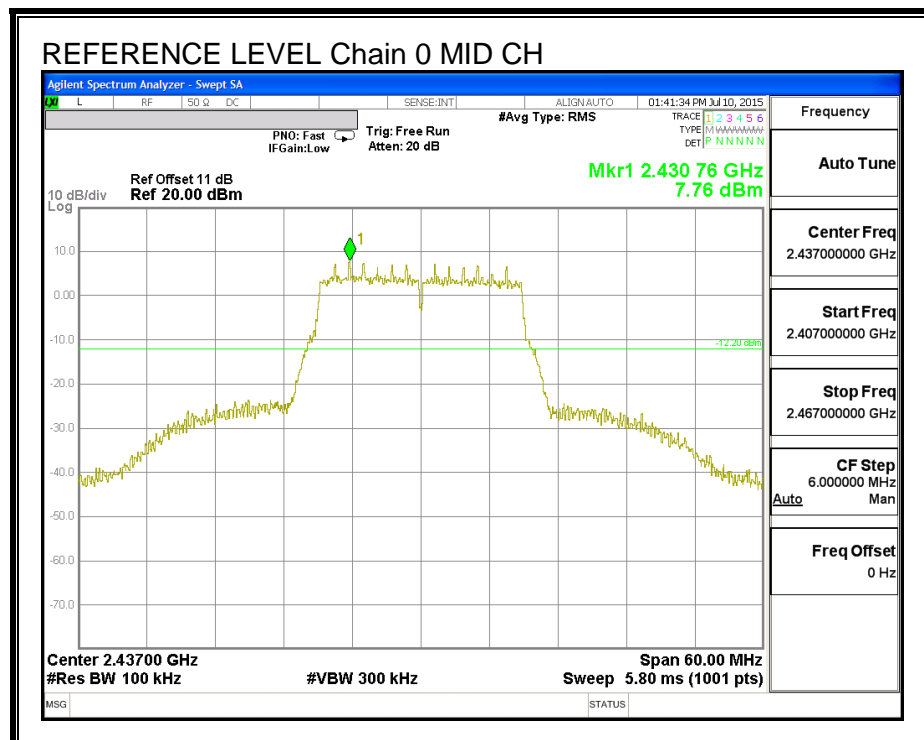
RESULTS

LOW CHANNEL BANDEDGE, Chain 0

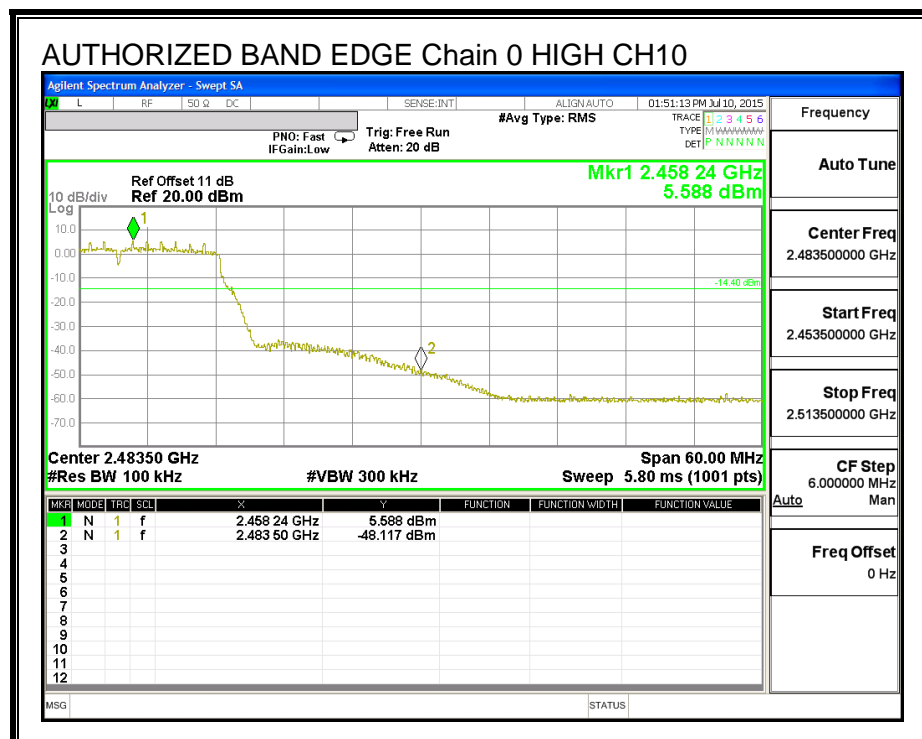
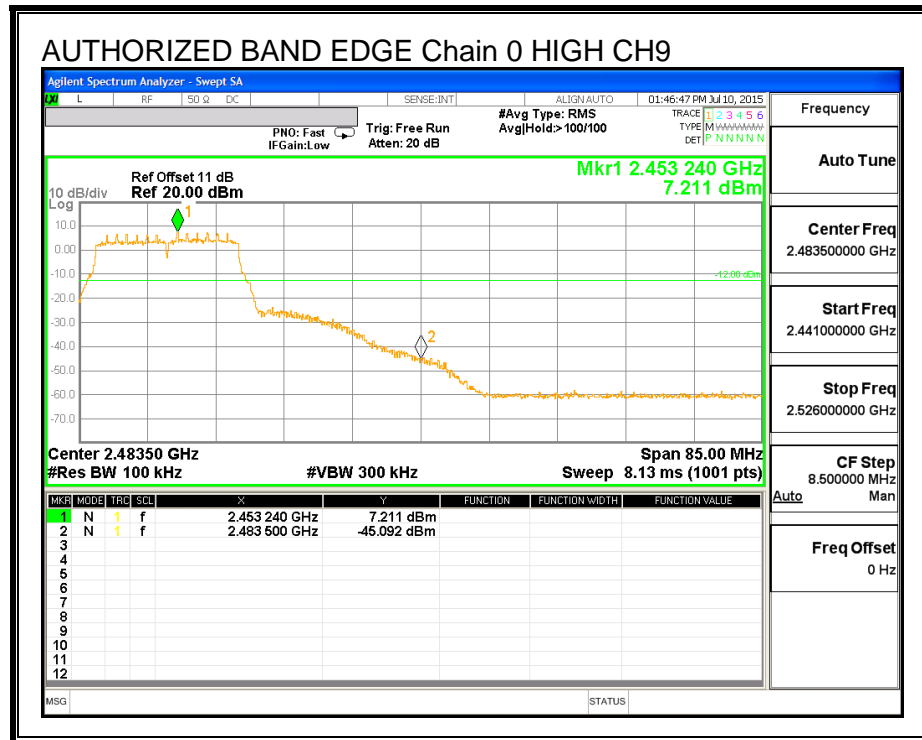


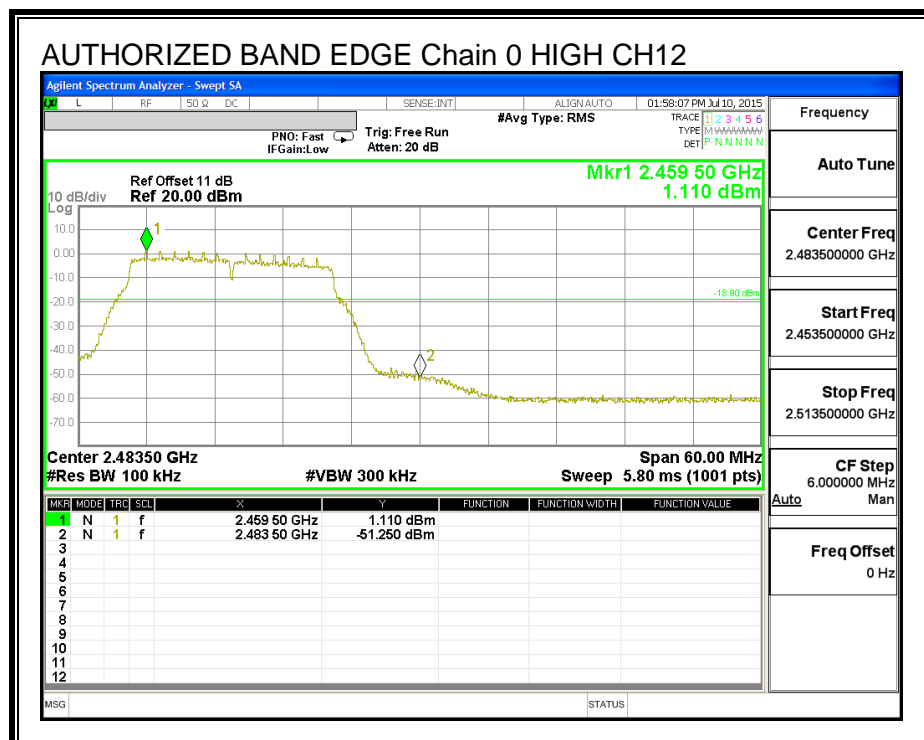
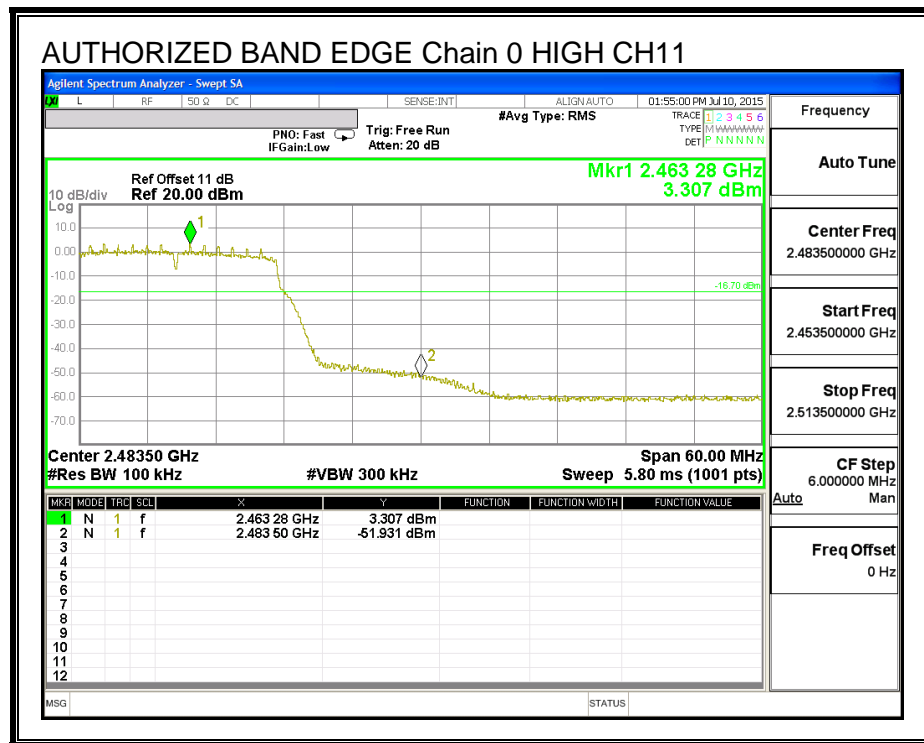


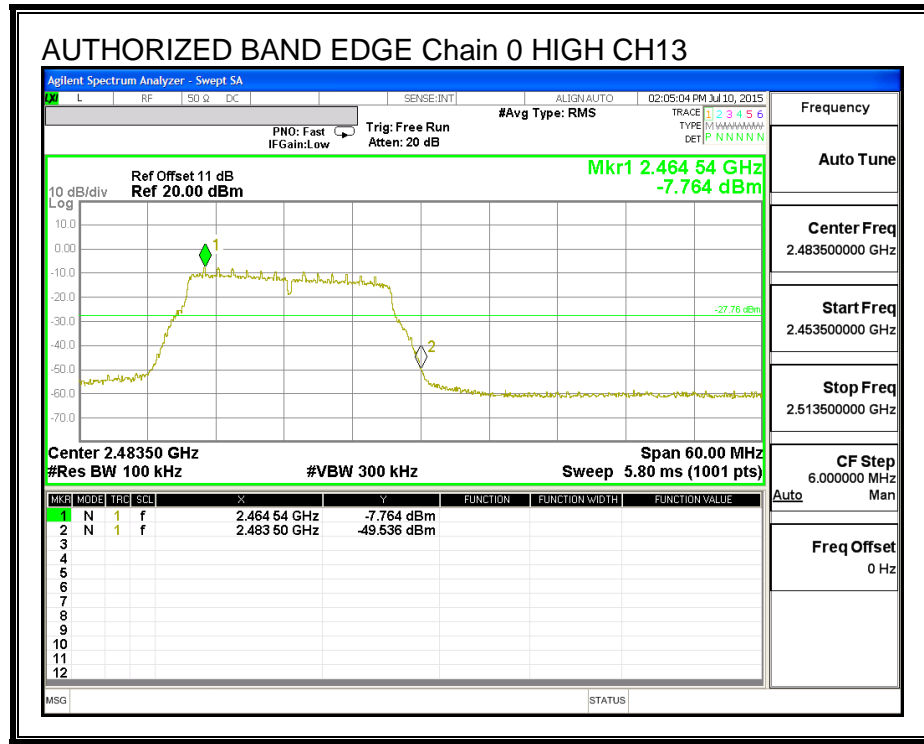
MID CHANNEL BANDEDGE, Chain 0



HIGH CHANNEL BANDEDGE, Chain 0







OUT-OF-BAND EMISSIONS, Chain 0

