

9. ANTENNA PORT RESTRICTED BAND LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Power Limit (dBm)
30 - 88	-55.2
88 - 216	-51.7
216 - 960	-49.2
Above 960	-41.2

TEST PROCEDURE

The conducted measurements were made for this test.

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For peak measurements above 1 GHz, the resolution bandwidth is set to 1 MHz and the video bandwidth is set to 3 MHz. For average measurements above 1GHz, the resolution bandwidth and video bandwidth are set as described in ANSI C63.10:2013 for the applicable measurement. For this evaluation, RMS Power Averaging was used and the resolution/video bandwidth settings were 1MHz/3MHz.

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

All 8 antenna ports were measured individually and then the ports and their associated antenna gained were summed as described in KDB 558074 D01 v03r04 Section 12.2.2 a-d.

9.1. 540 kHz MODE IN THE RESTRICTED BAND

9.1.1. TX ABOVE 1 GHz IN THE 2.4 GHz BAND: 1-4 GHz

RESTRICTED BANDEDGE (LOW CHANNEL) TABULAR SUMMED DATA

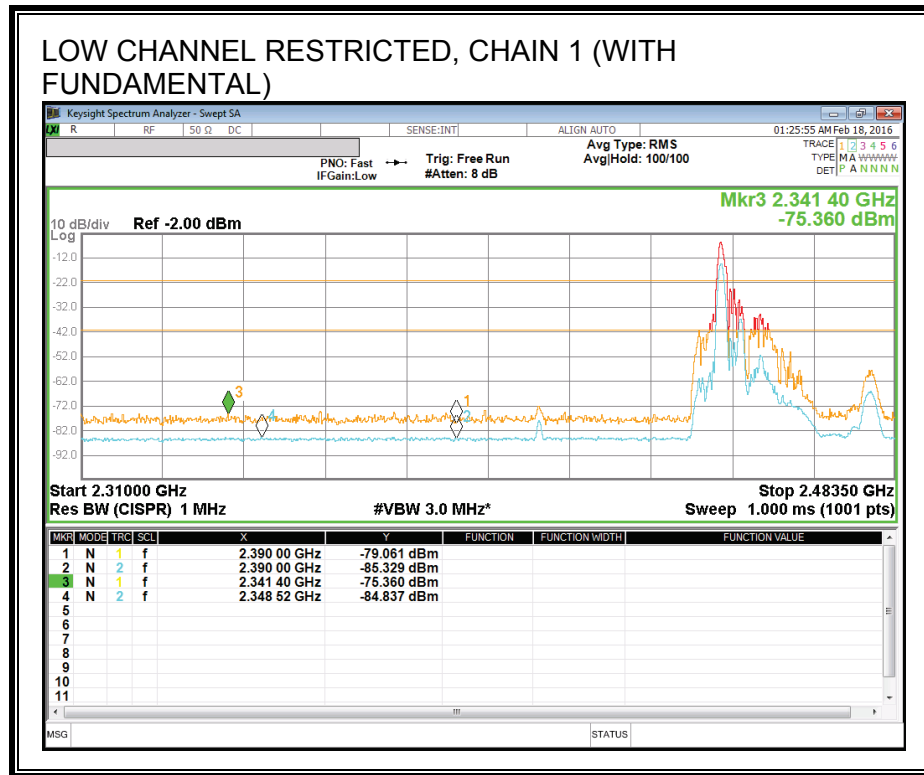
The following measurements include an antenna gain of:

AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

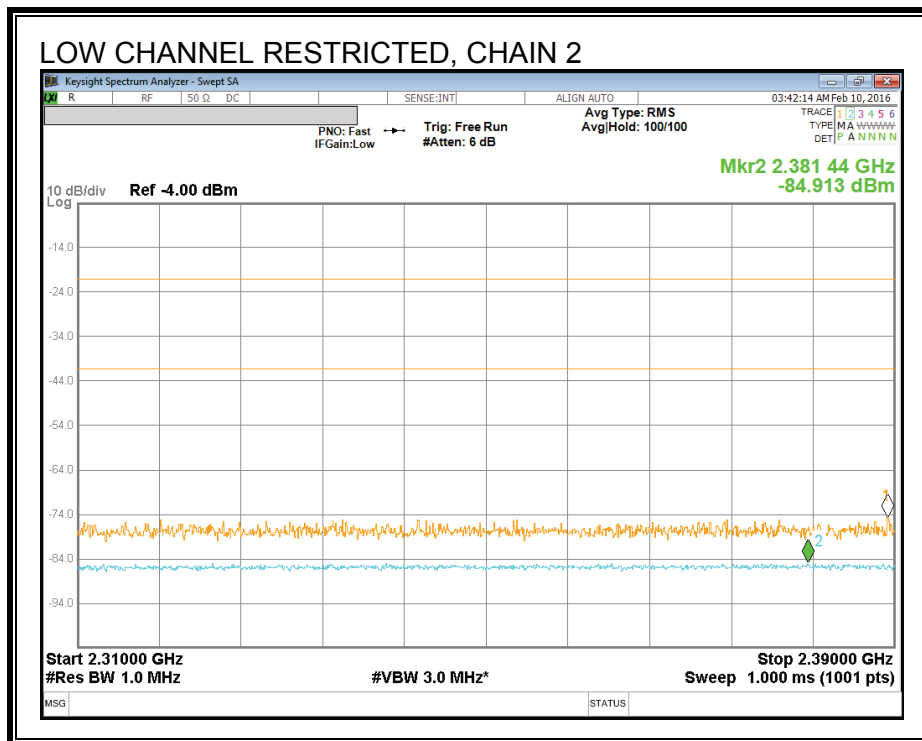
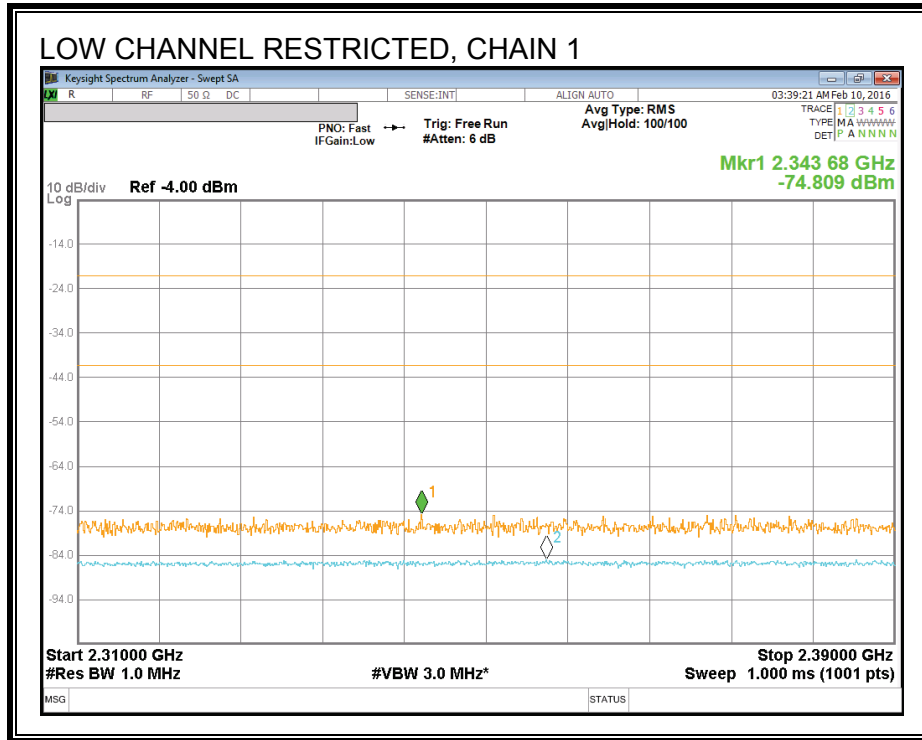
Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-74.809	-74	-75.902	-74	-74.232	-74	-74.446	-74			
2310-2390	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
Final Value		-73.889	-73.08	-74.982	-73.08	-73.312	-73.08	-73.526	-73.08	-44.47	-21.2	-23.27

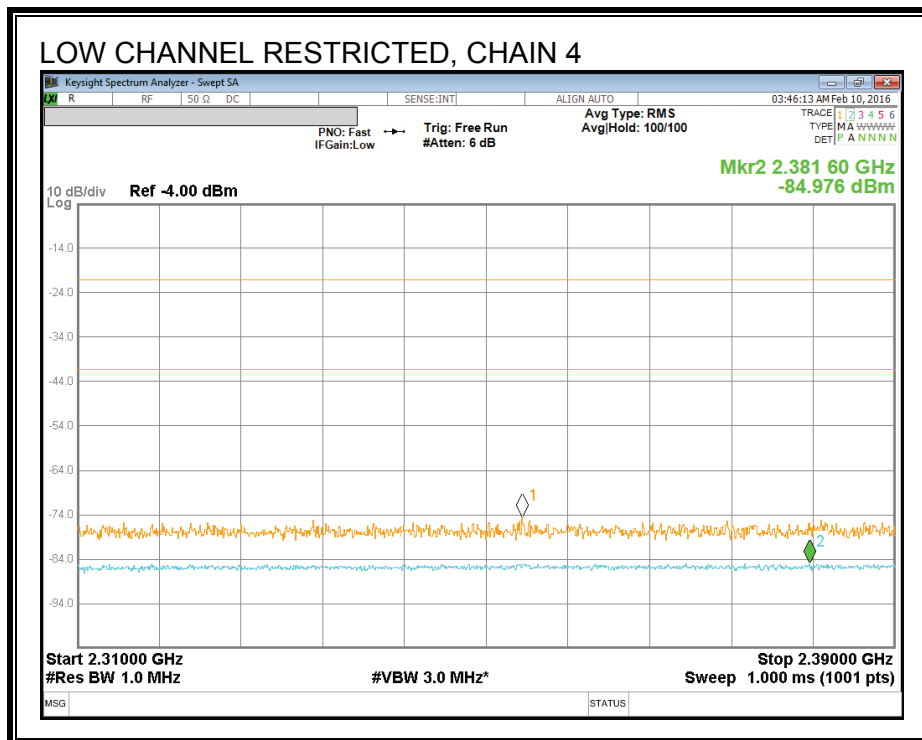
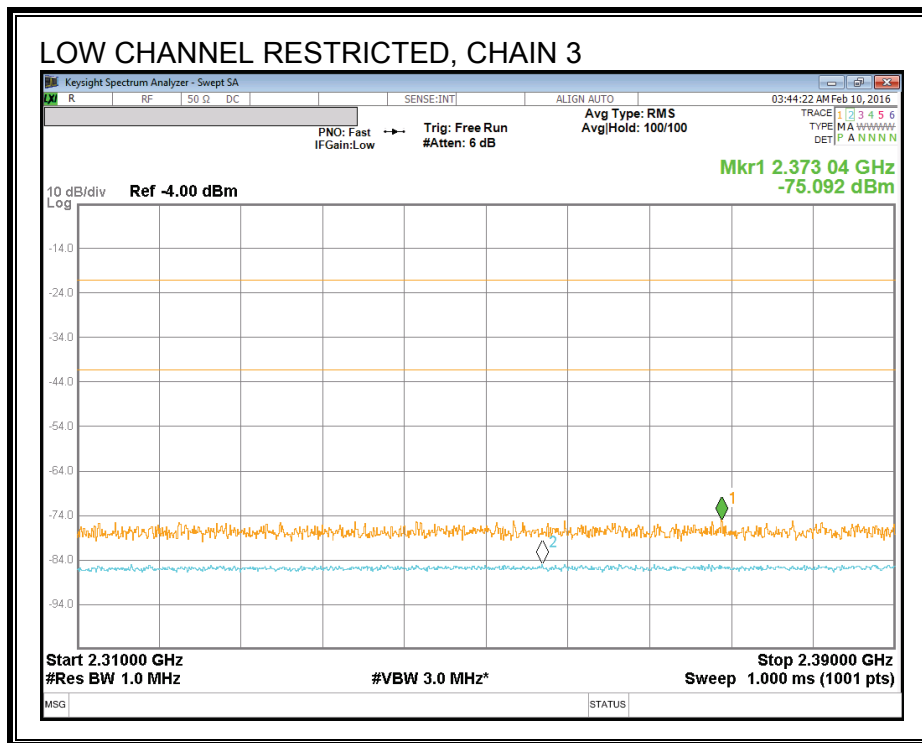
Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-84.75	-84.913	-84.5	-84.976	-84	-84.655	-84	-84.851			
2310-2390	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-83.15	-83.993	-83.58	-84.056	-82.4	-83.065	-82.33	-83.201	-54.19	-41.2	-12.99

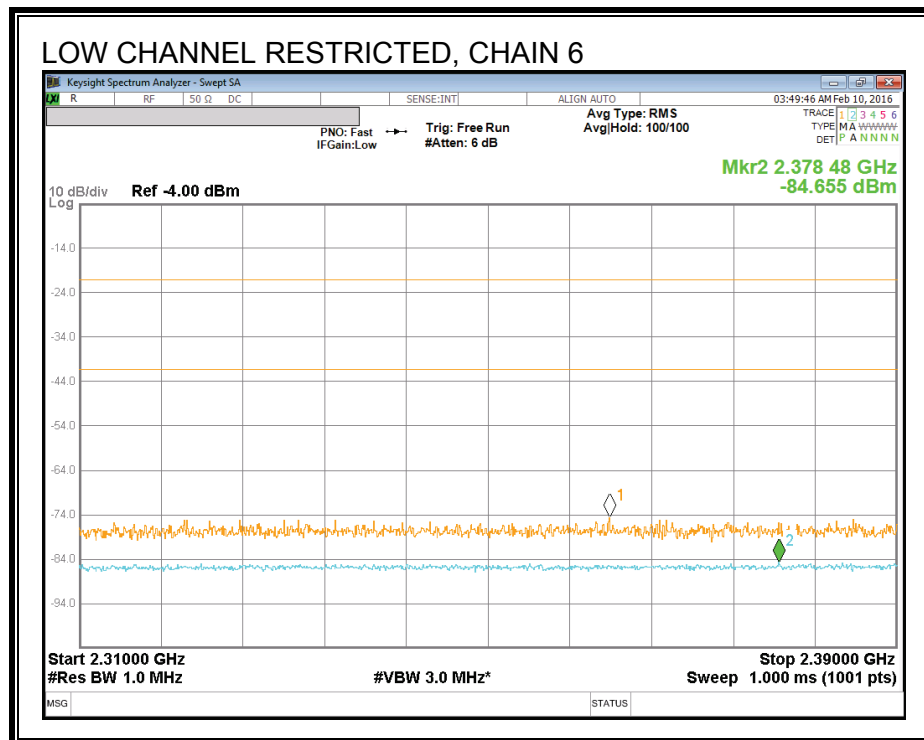
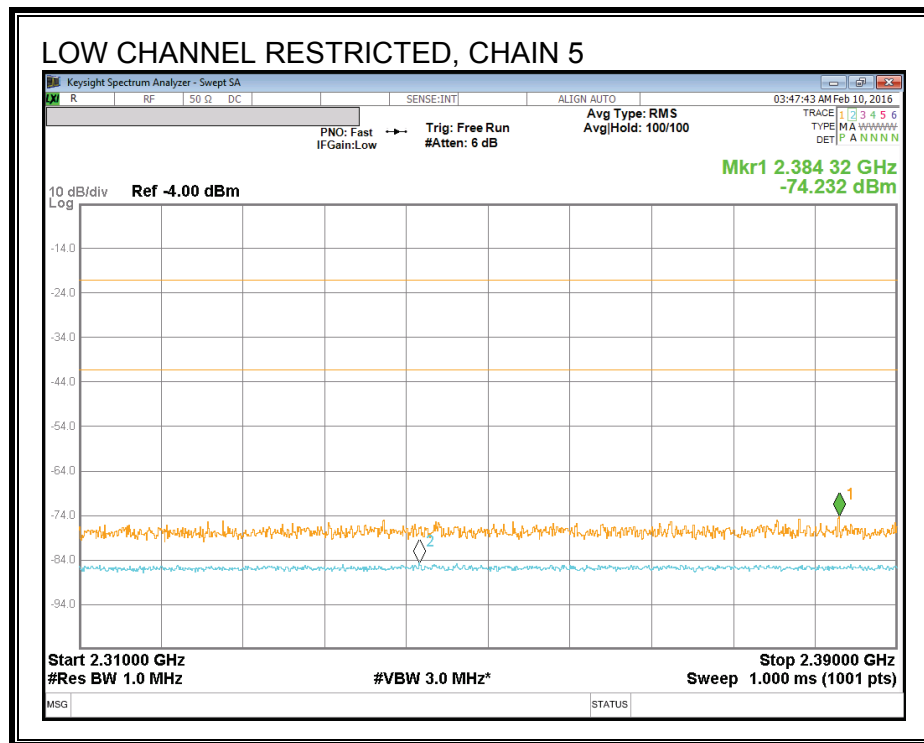
RESTRICTED BANDEDGE (LOW CHANNEL) PLOTS

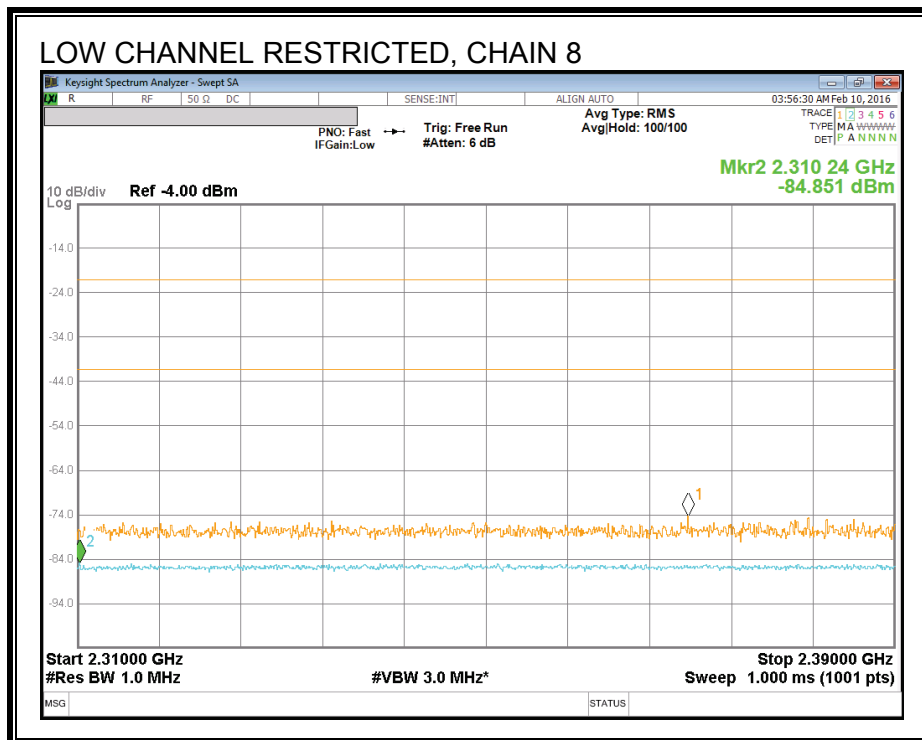
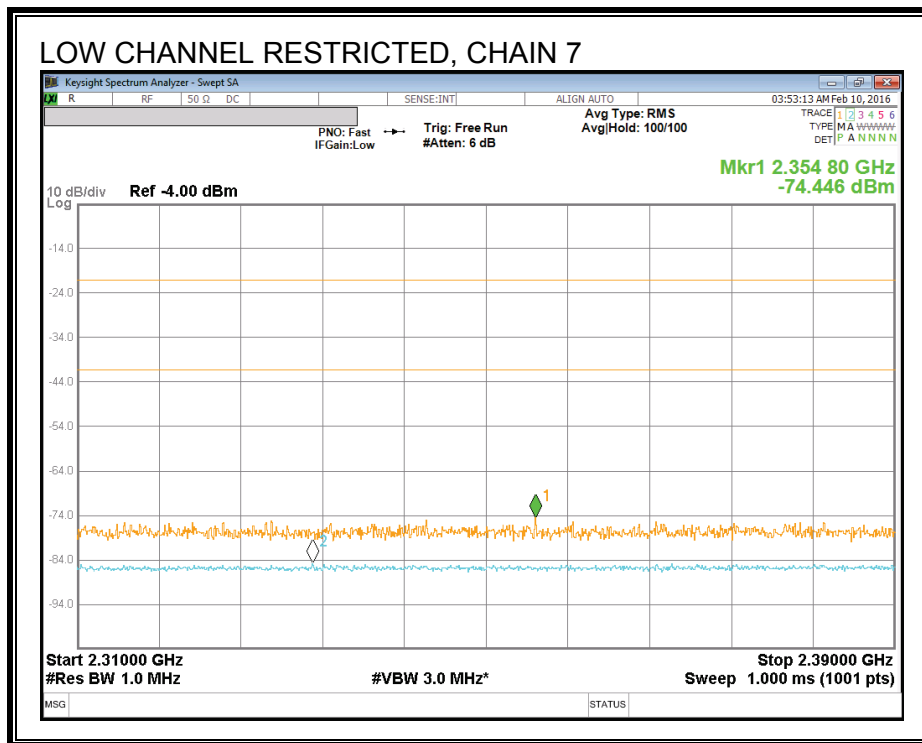


Note – Initially, all Bandedge plots were taken with the fundamental not included in the plot. The above bandedge measurement was taken with the fundamental included to show the fundamental was present.









RESTRICTED BANDEDGE (HIGH CHANNEL) TABULAR SUMMED DATA

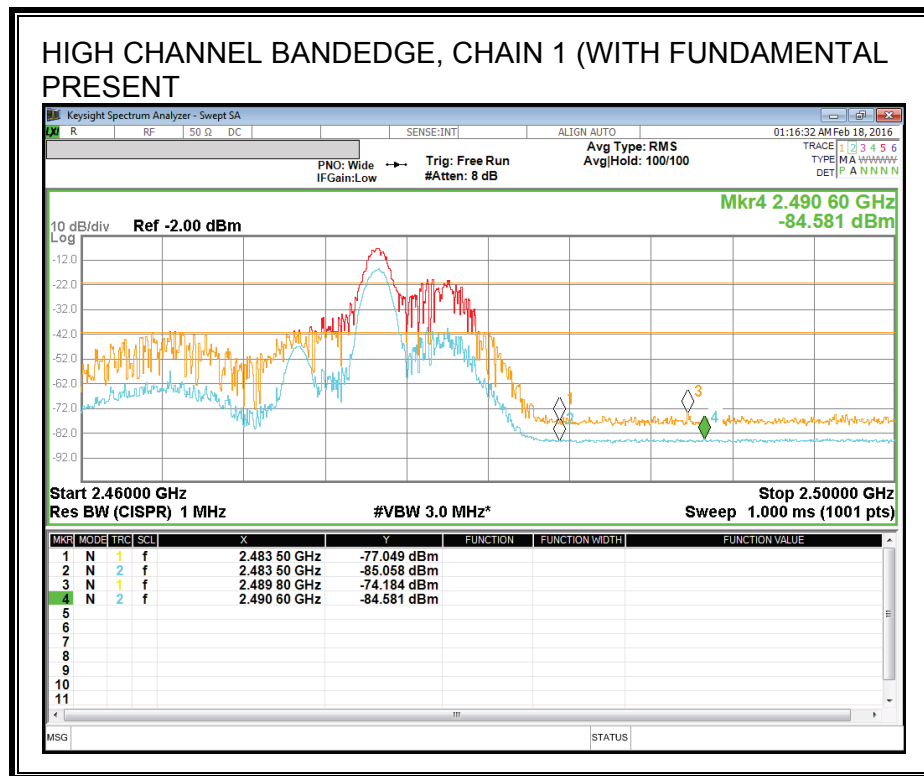
The following measurements include an antenna gain of:

AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

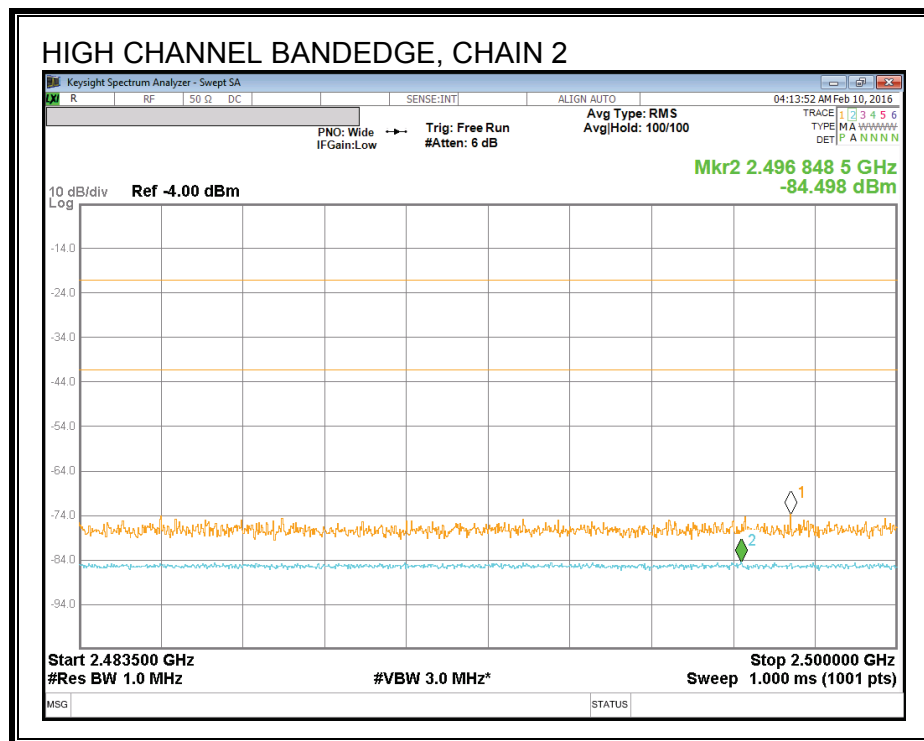
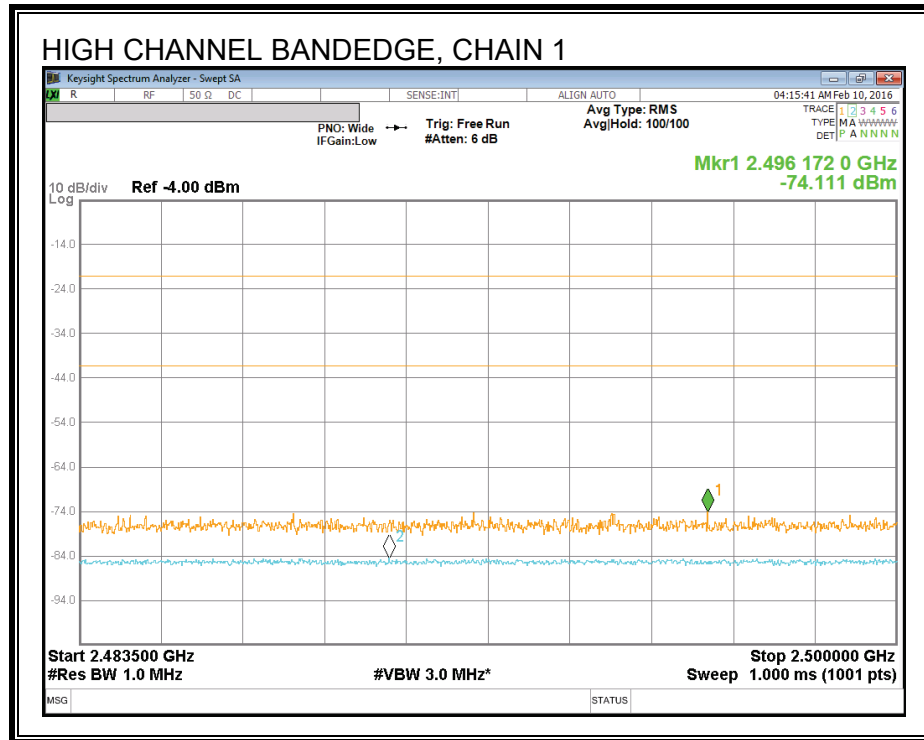
Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-74.111	-73.75	-73.89	-73.75	-73.379	-73.75	-73.934	-73.75			
2483.5-2500	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
Final Value		-73.191	-72.83	-72.97	-72.83	-72.459	-72.83	-73.014	-72.83	-43.87	-21.2	-22.67

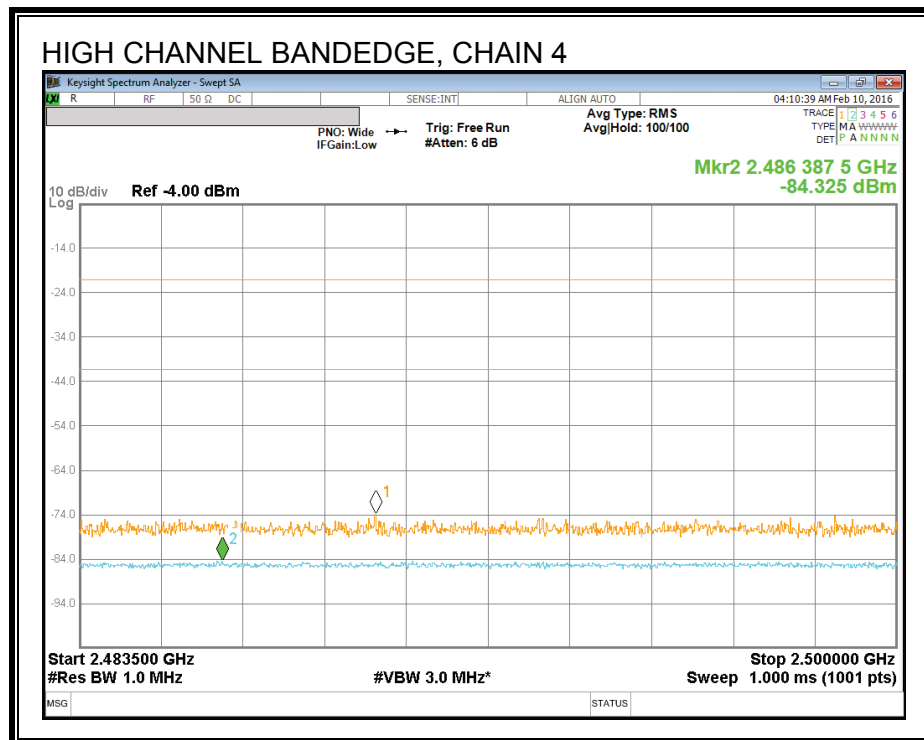
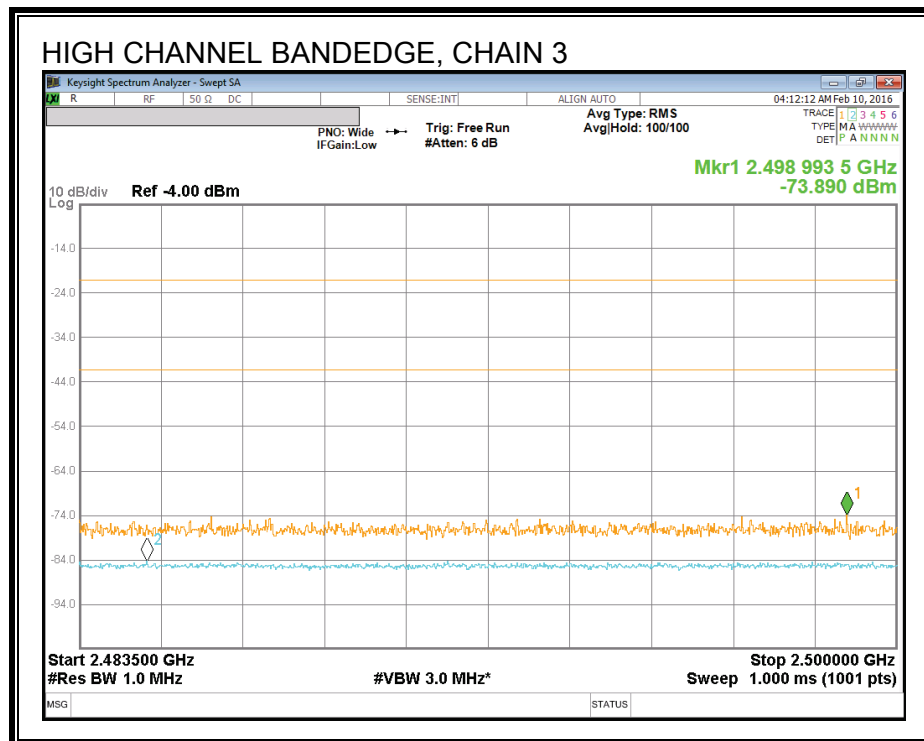
Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-83.75	-84.498	-83.75	-84.325	-84	-84.351	-84	-84.319			
2483.5-2500	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-82.15	-83.578	-82.83	-83.405	-82.4	-82.761	-82.33	-82.669	-53.76	-41.2	-12.56

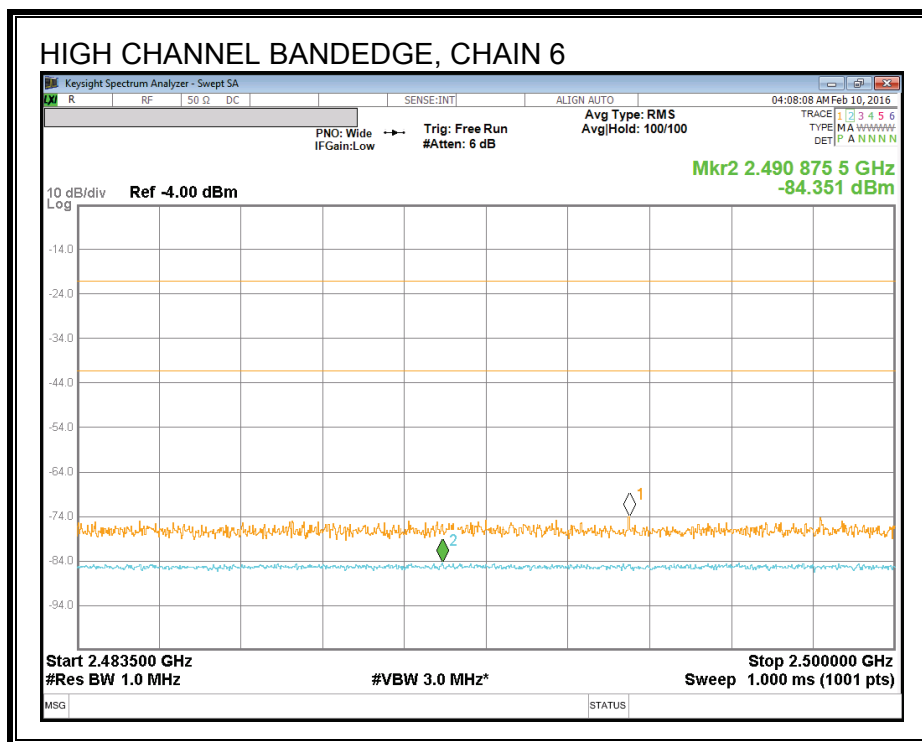
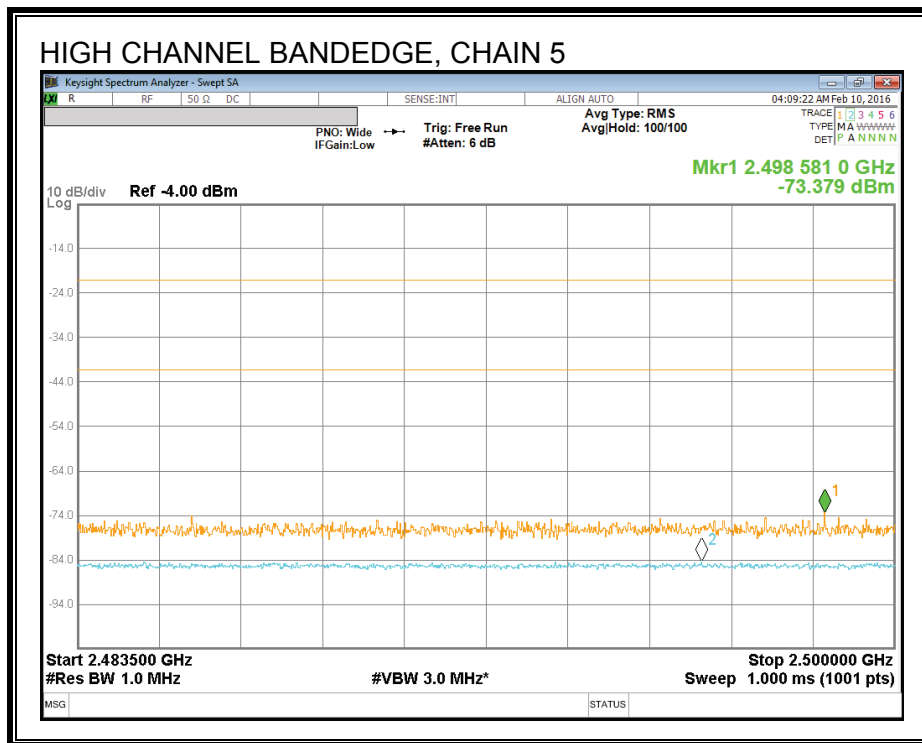
RESTRICTED BANDEDGE (HIGH CHANNEL) PLOTS

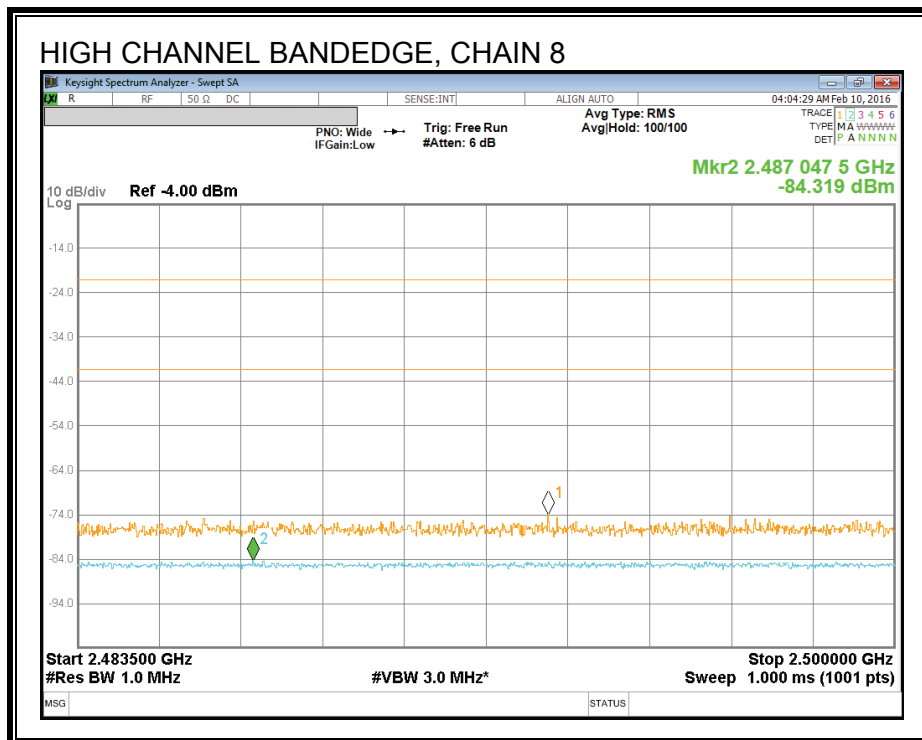
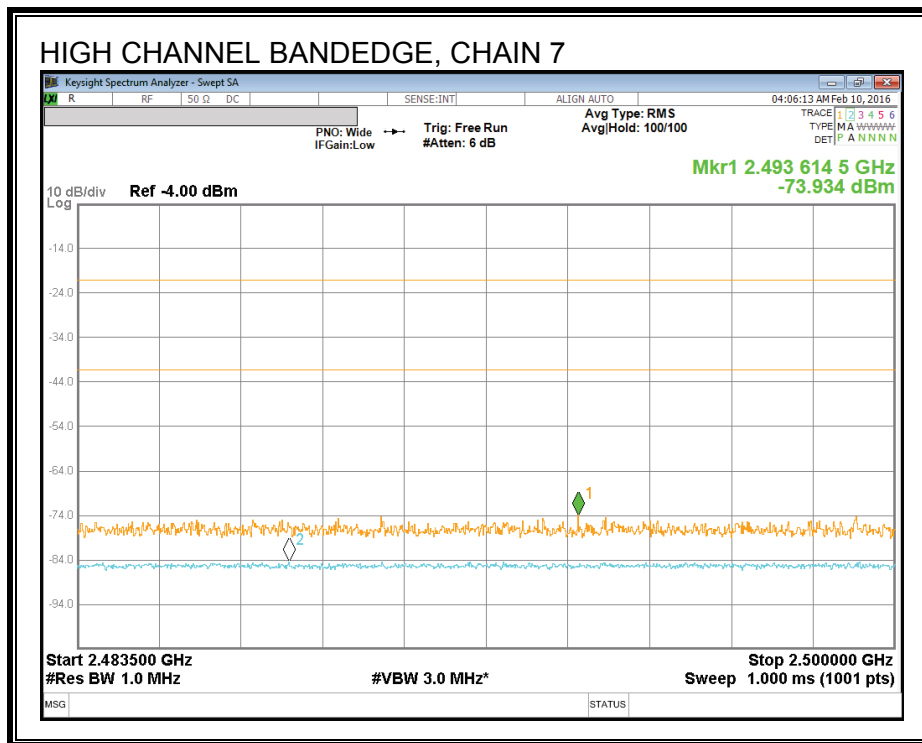


Note – Initially, all Bandedge plots were taken with the fundamental not included in the plot. The above bandedge measurement was taken with the fundamental included to show the fundamental was present.









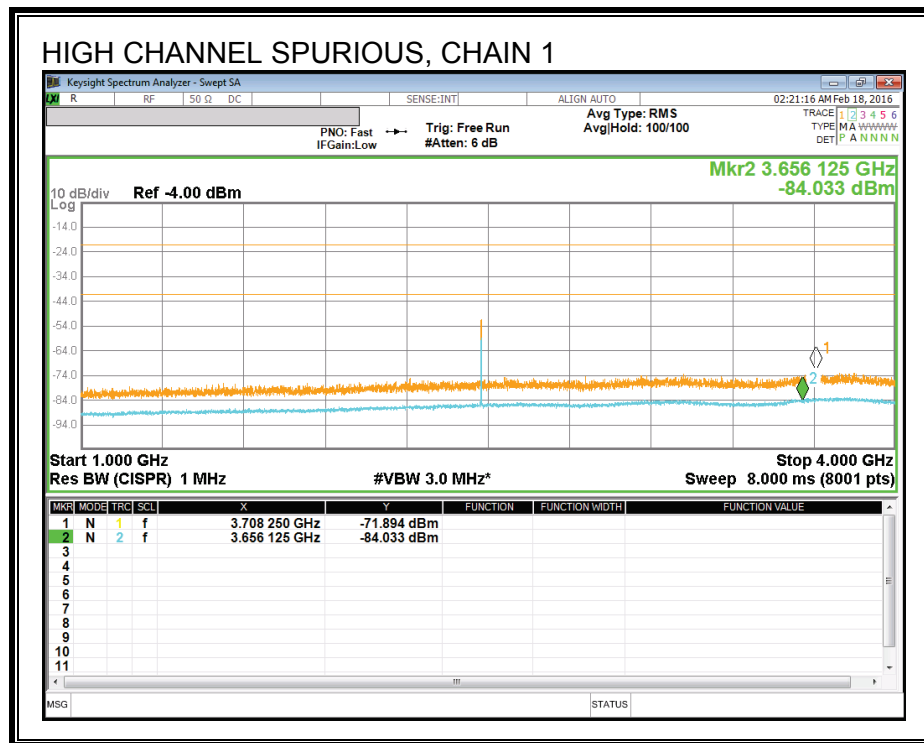
HARMONICS AND SPURIOUS EMISSIONS, LOW CHANNEL, TABULAR DATA

The following measurements include an antenna gain of:

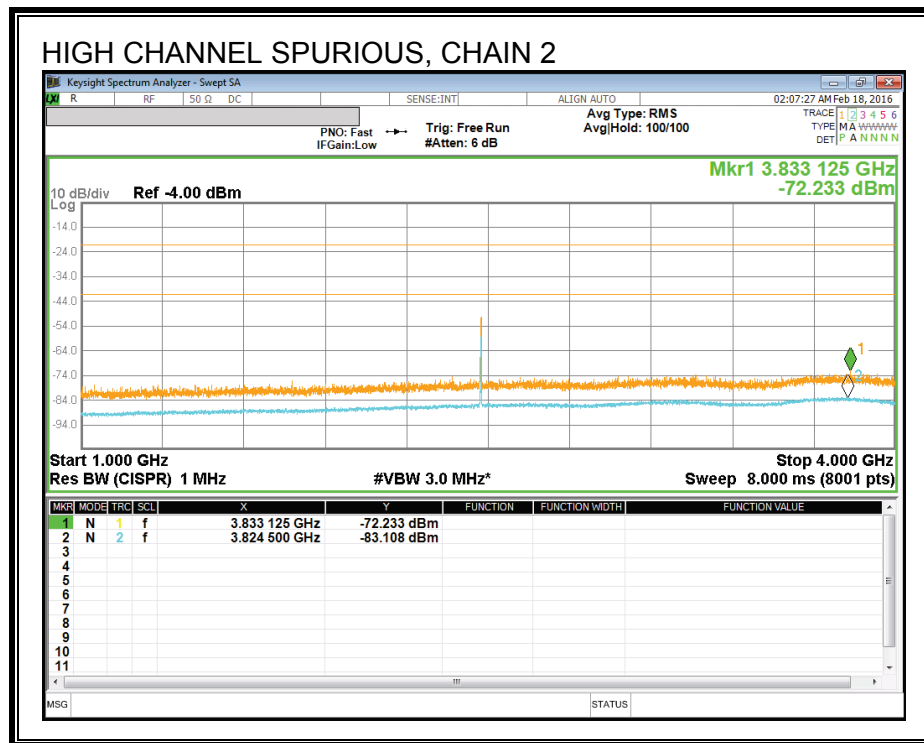
AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-74.112	-72.664	-73.606	-72.63	-72.045	-72.481	-72.736	-72.768			
1000-4000	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
Final Value		-73.192	-71.744	-72.686	-71.71	-71.125	-71.561	-71.816	-71.848	-42.92	-21.2	-21.72

Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-83.288	-83.663	-83.699	-83.623	-84.329	-83.668	-83.918	-83.631			
1000-4000	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-81.688	-82.743	-82.779	-82.703	-82.729	-82.078	-82.248	-81.981	-53.38	-41.2	-12.18

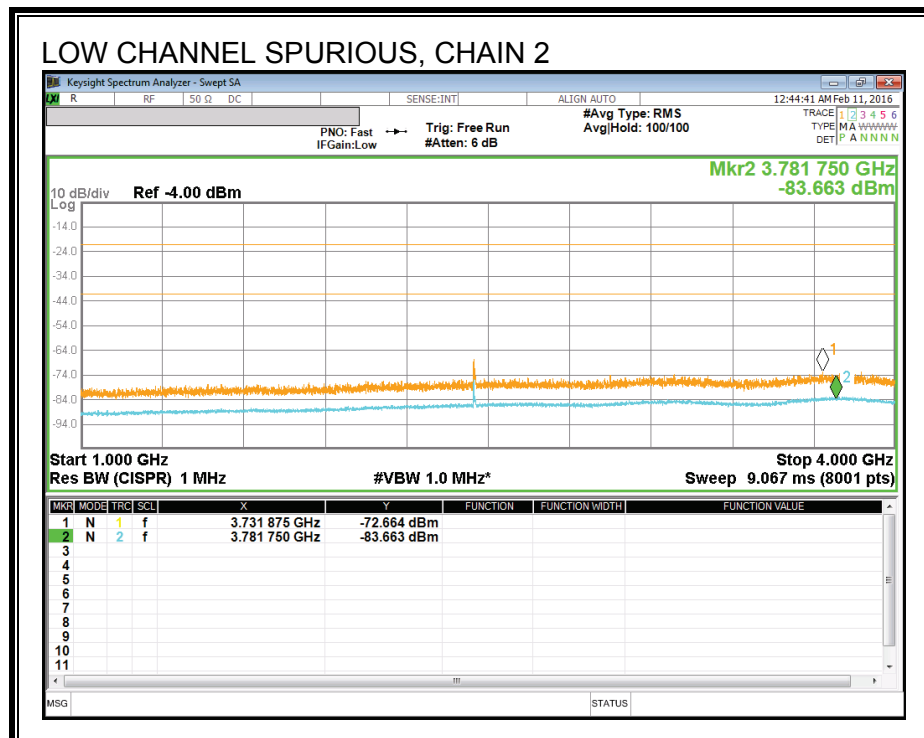
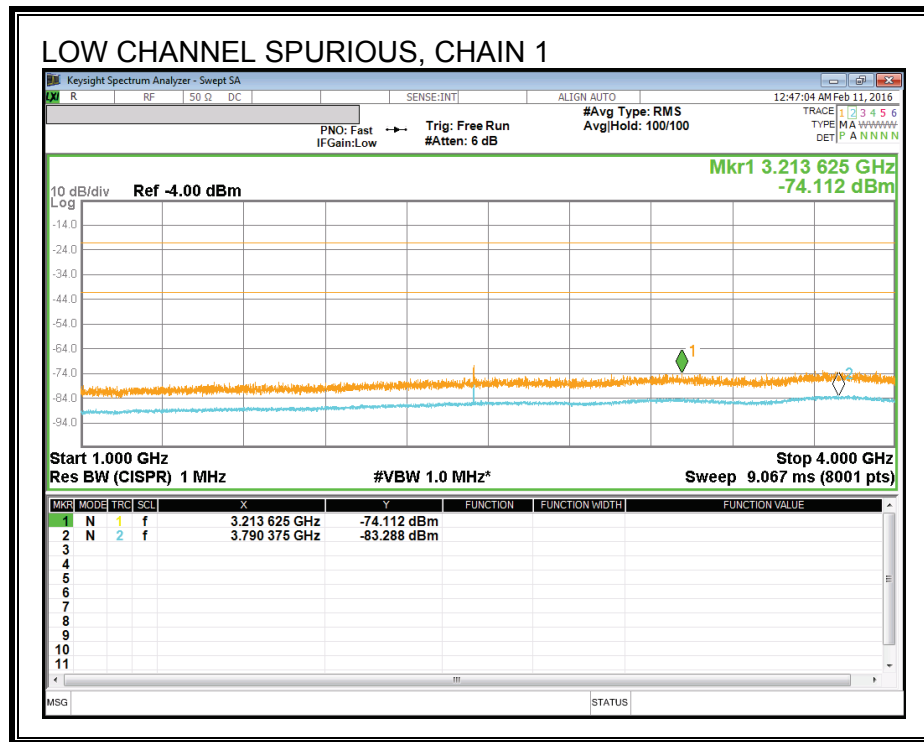


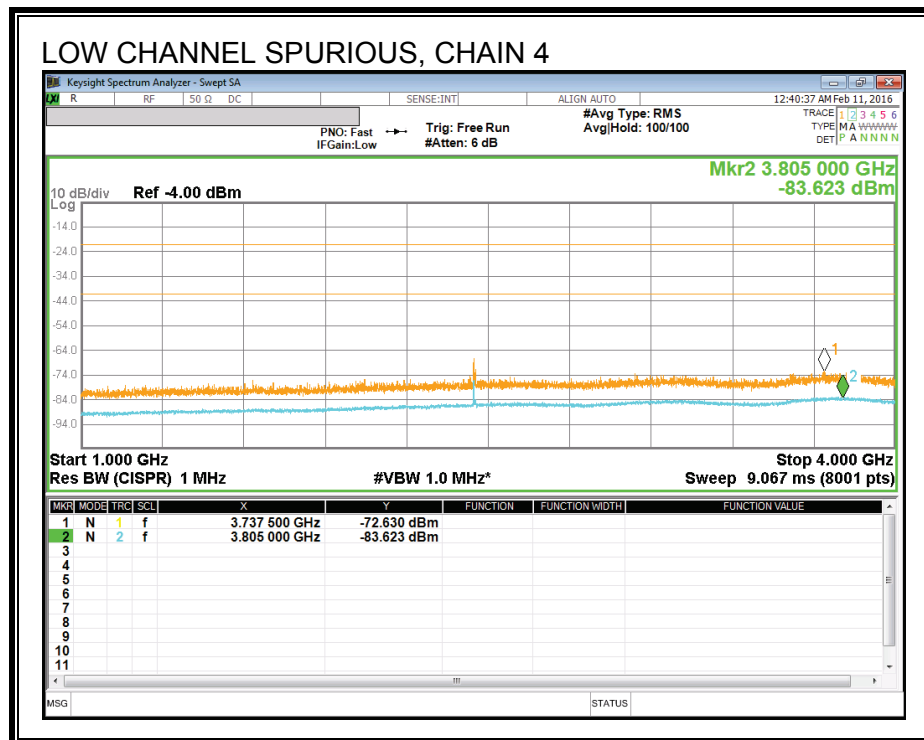
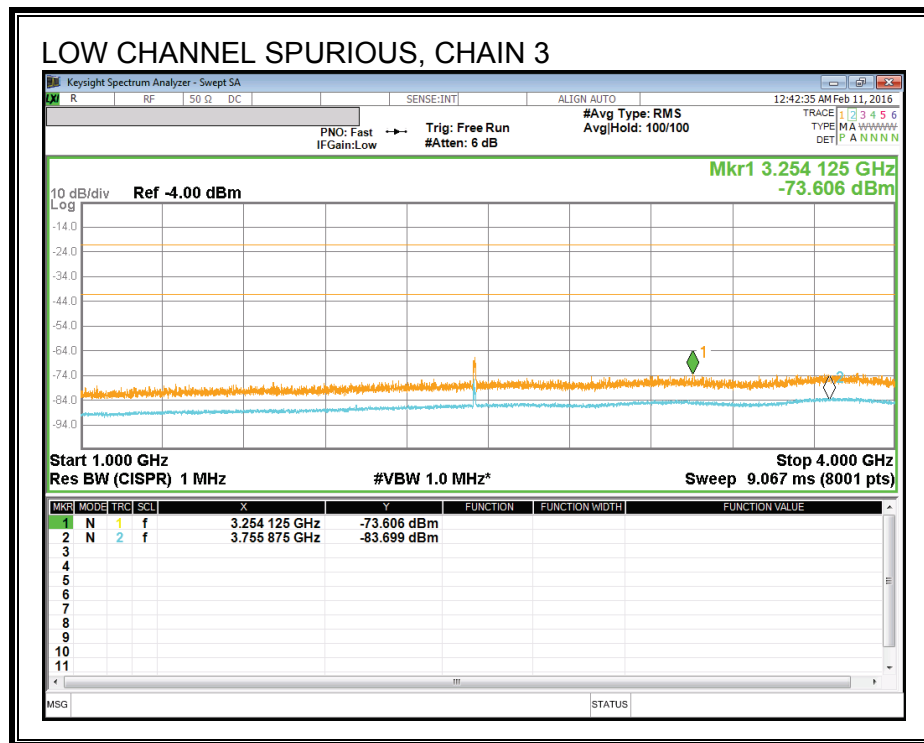
Note - The following Low Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 85% duty cycle (Chains 1, 5-8).

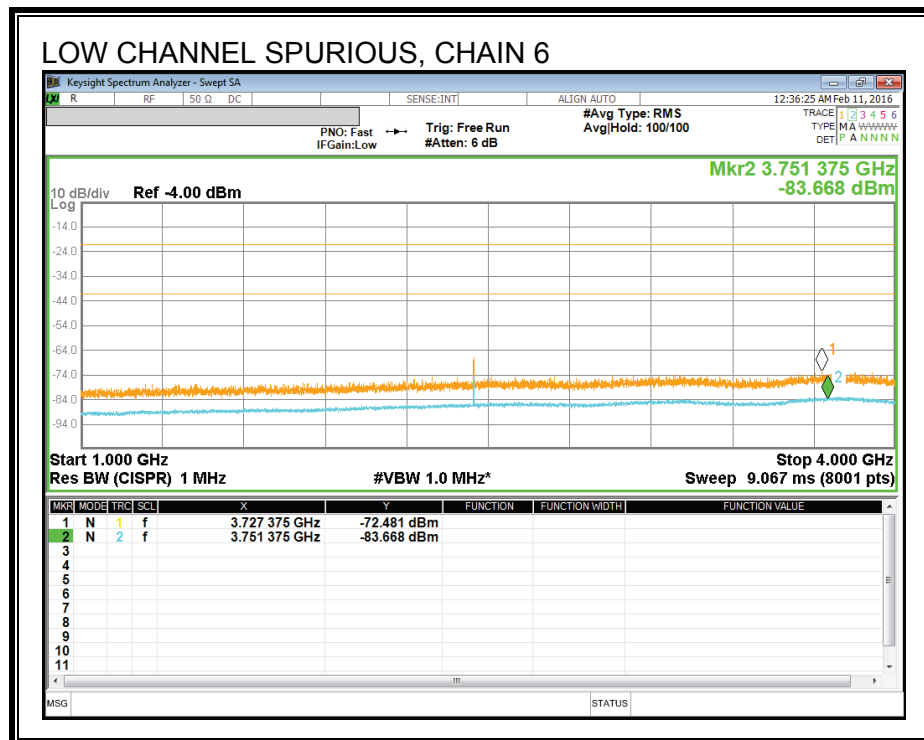
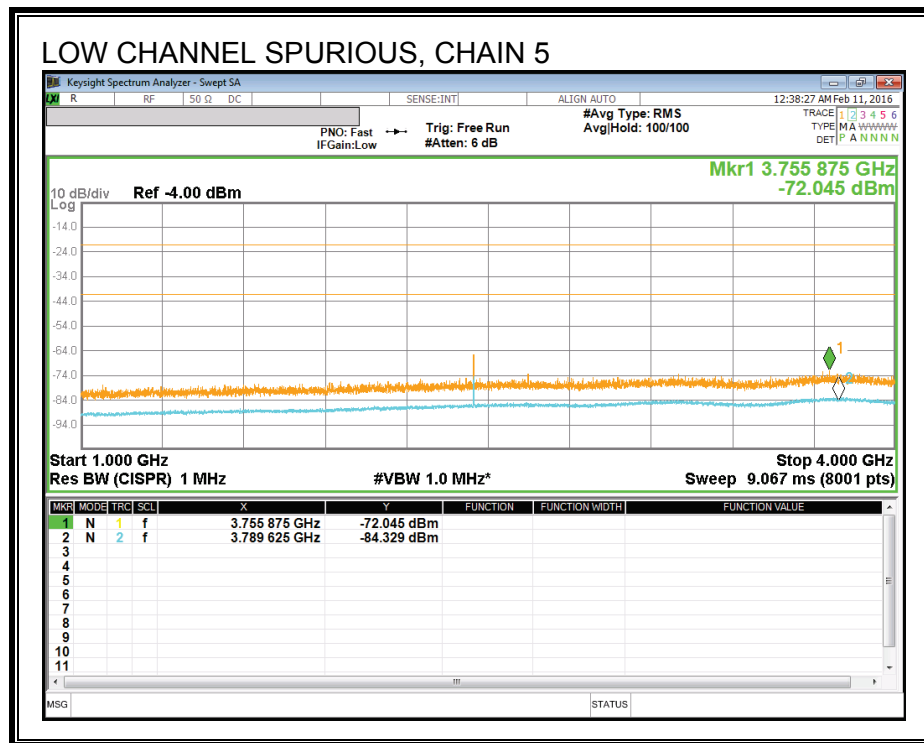


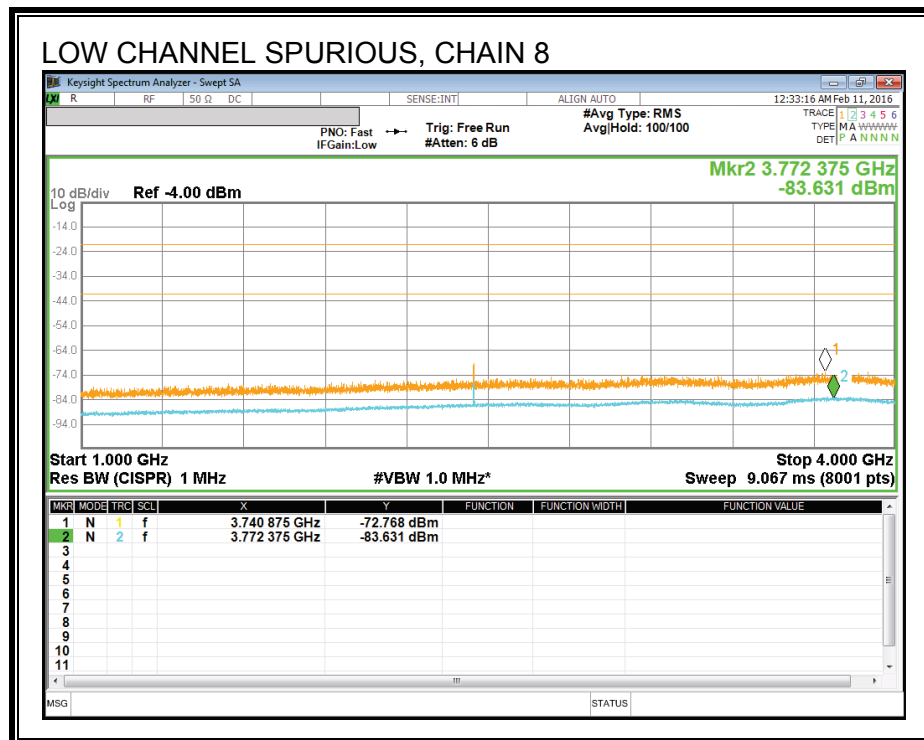
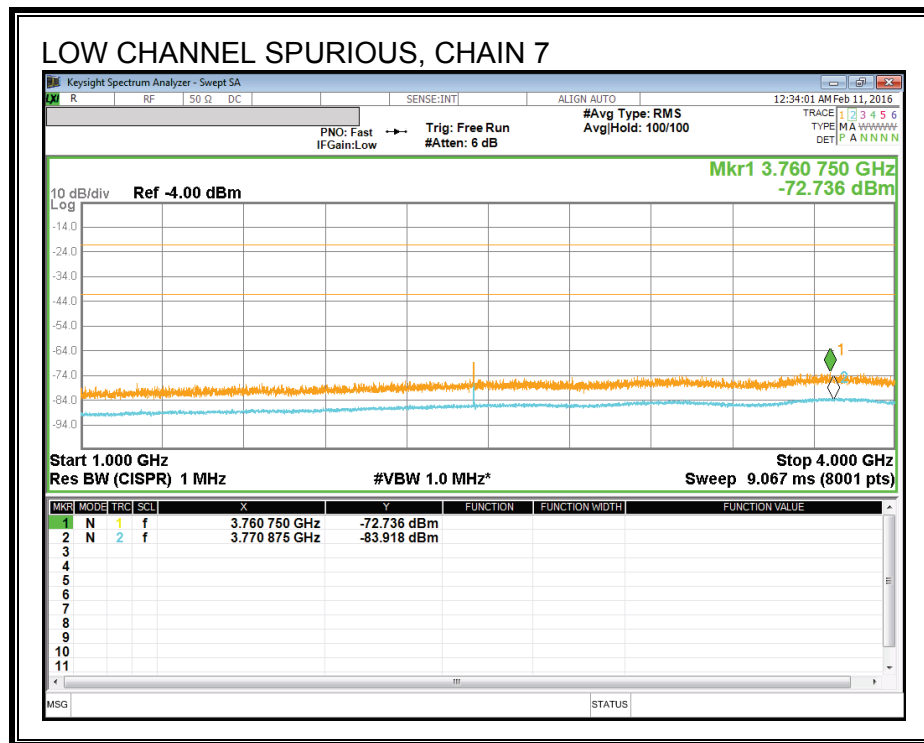
Note - The following Low Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 100% duty cycle (Chains 2-4).

HARMONICS AND SPURIOUS EMISSIONS, LOW CHANNEL









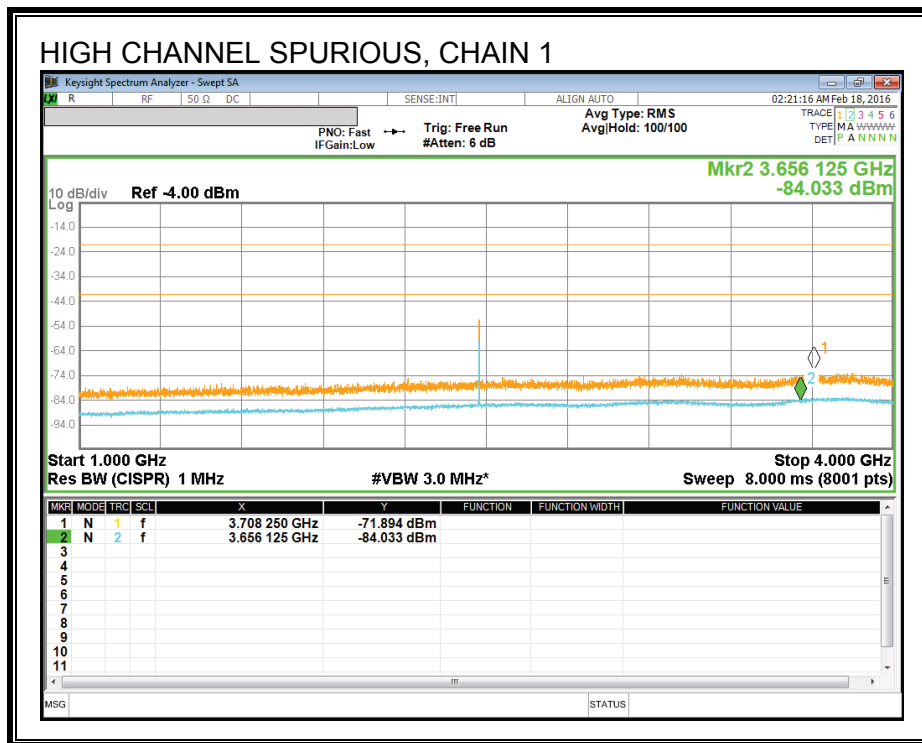
HARMONICS AND SPURIOUS EMISSIONS, MID CHANNEL, TABULAR DATA

The following measurements include an antenna gain of:

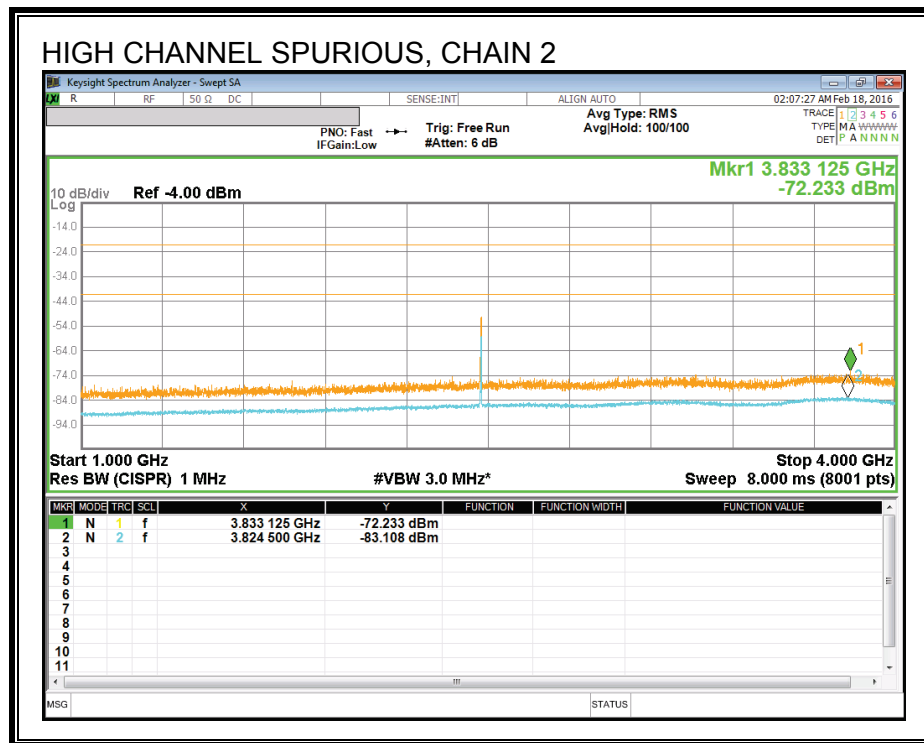
AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-73.77	-72.695	-72.499	-72.648	-72.191	-73.588	-72.877	-72.473			
1000-4000	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
Final Value		-72.85	-71.775	-71.579	-71.728	-71.271	-72.668	-71.957	-71.553	-42.90	-21.2	-21.70

Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-83.887	-84.124	-83.906	-83.39	-83.588	-83.62	-83.292	-83.045			
1000-4000	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-82.287	-83.204	-82.986	-82.47	-81.988	-82.03	-81.622	-81.395	-53.23	-41.2	-12.03

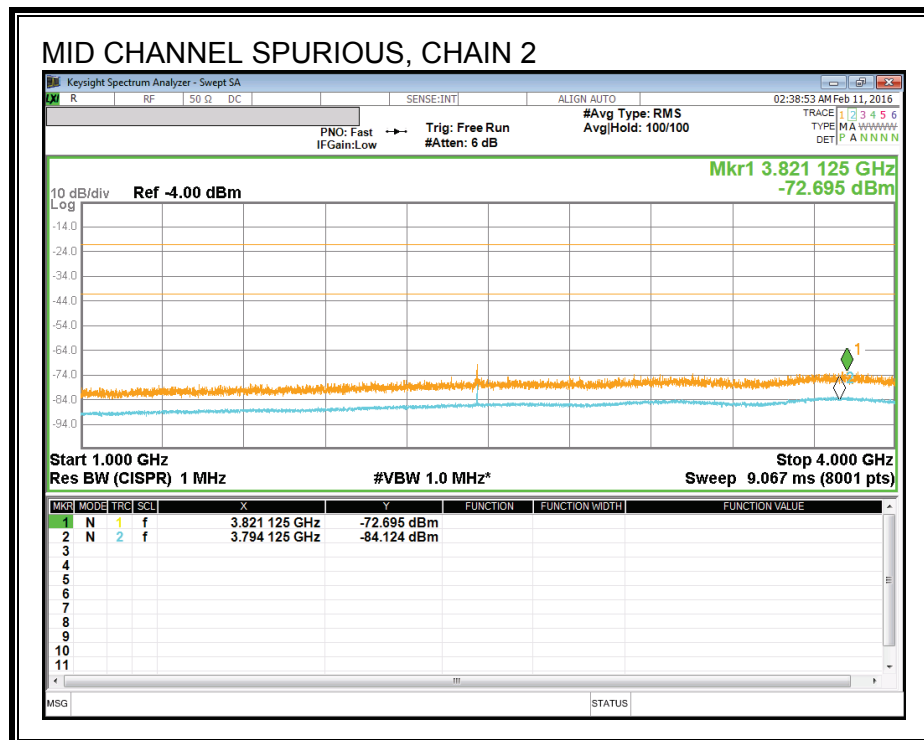
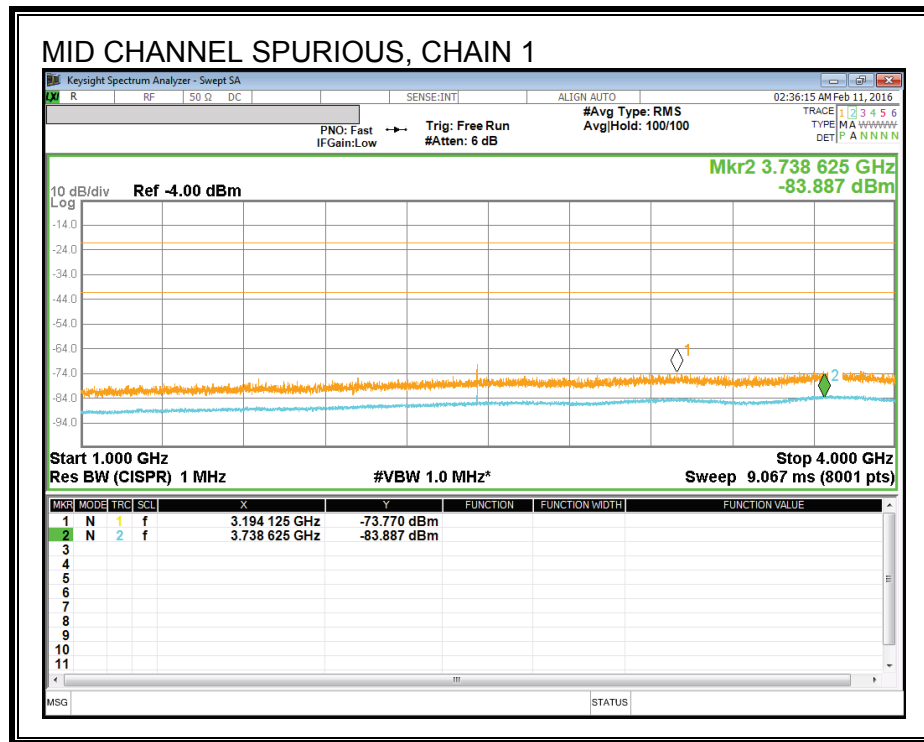


Note - The following Mid Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHZ and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 85% duty cycle (Chains 1, 5-8).

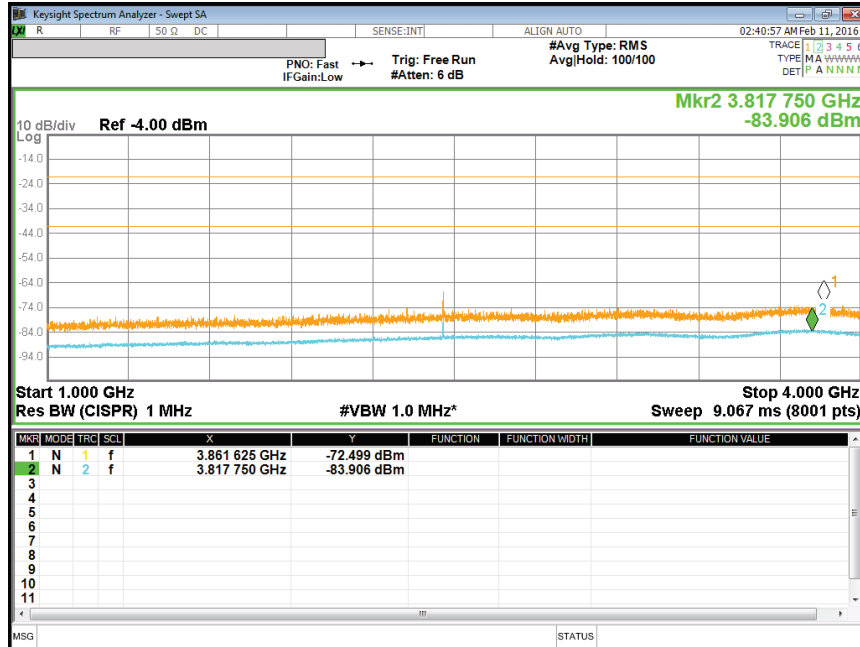


Note - The following Mid Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 100% duty cycle (Chains 2-4).

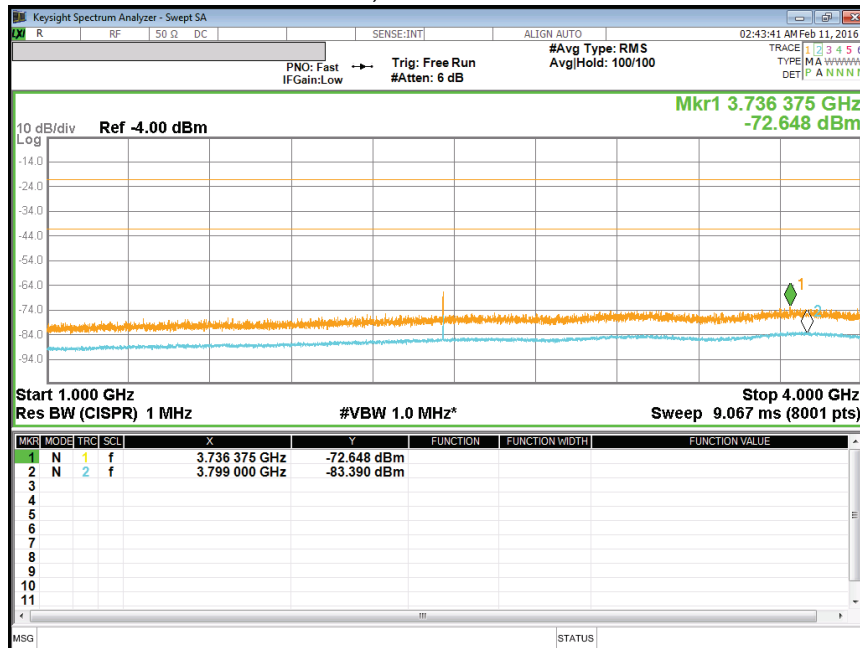
HARMONICS AND SPURIOUS EMISSIONS, MID CHANNEL

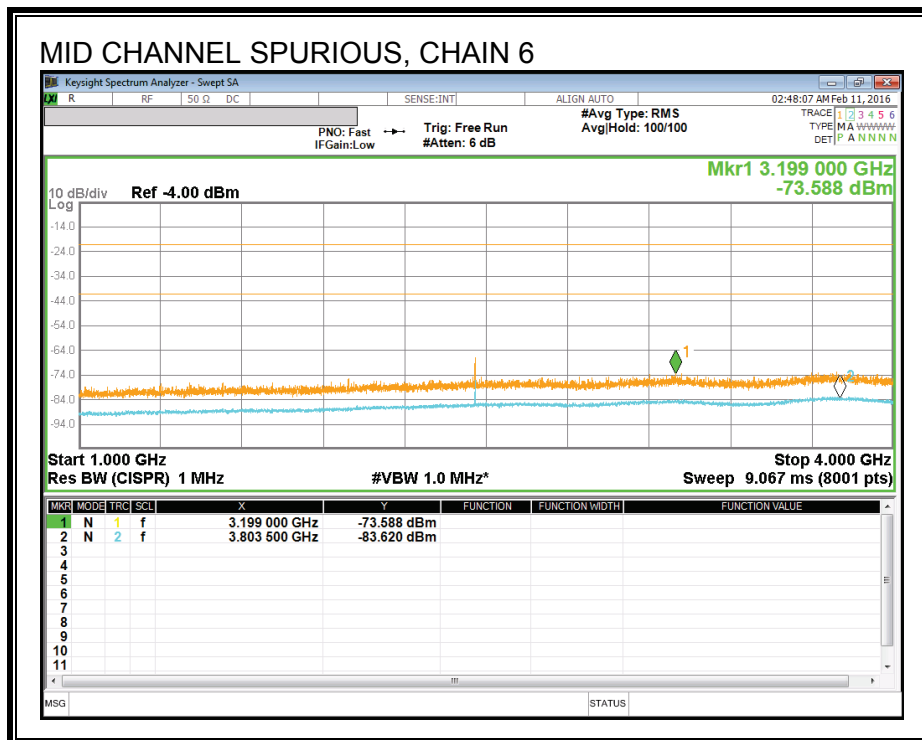
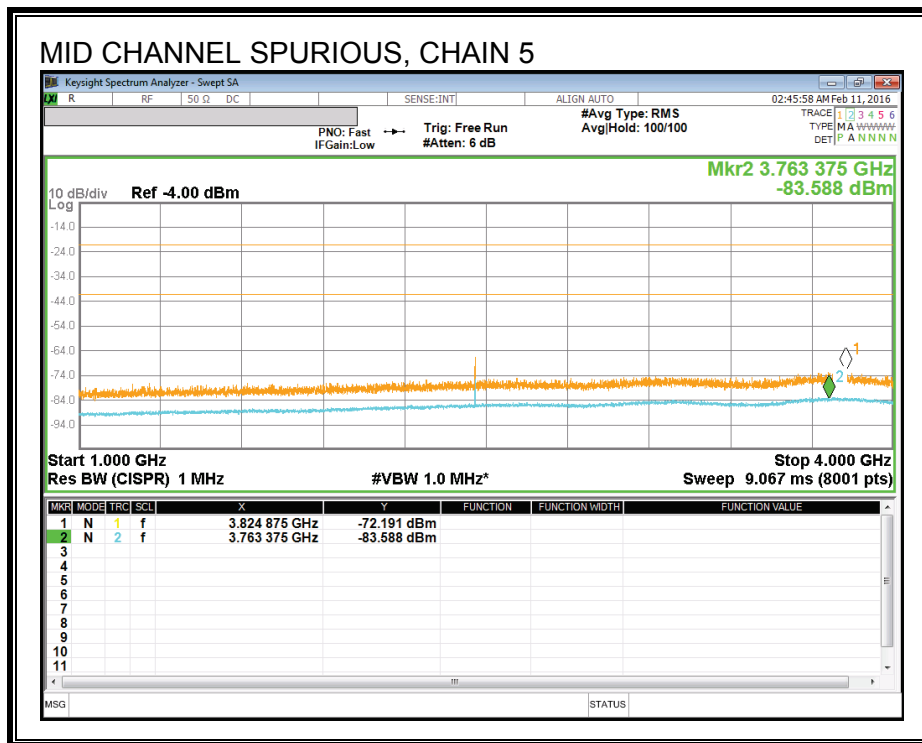


MID CHANNEL SPURIOUS, CHAIN 3

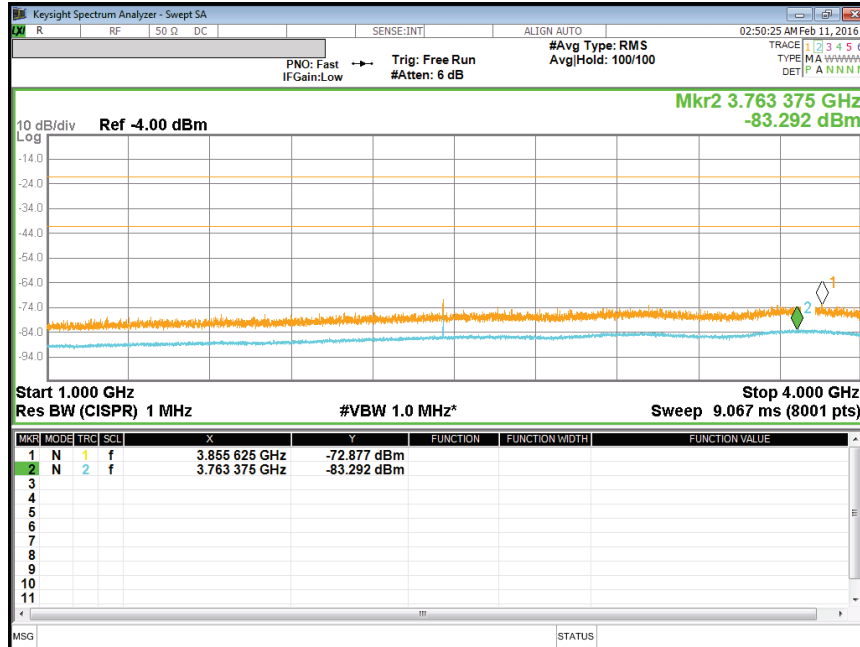


MID CHANNEL SPURIOUS, CHAIN 4

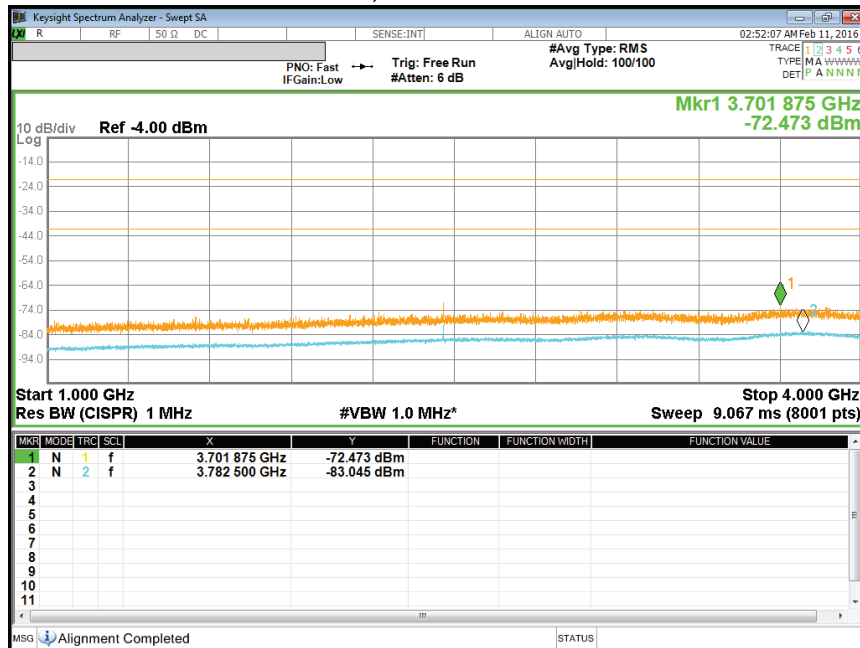




MID CHANNEL SPURIOUS, CHAIN 7



MID CHANNEL SPURIOUS, CHAIN 8



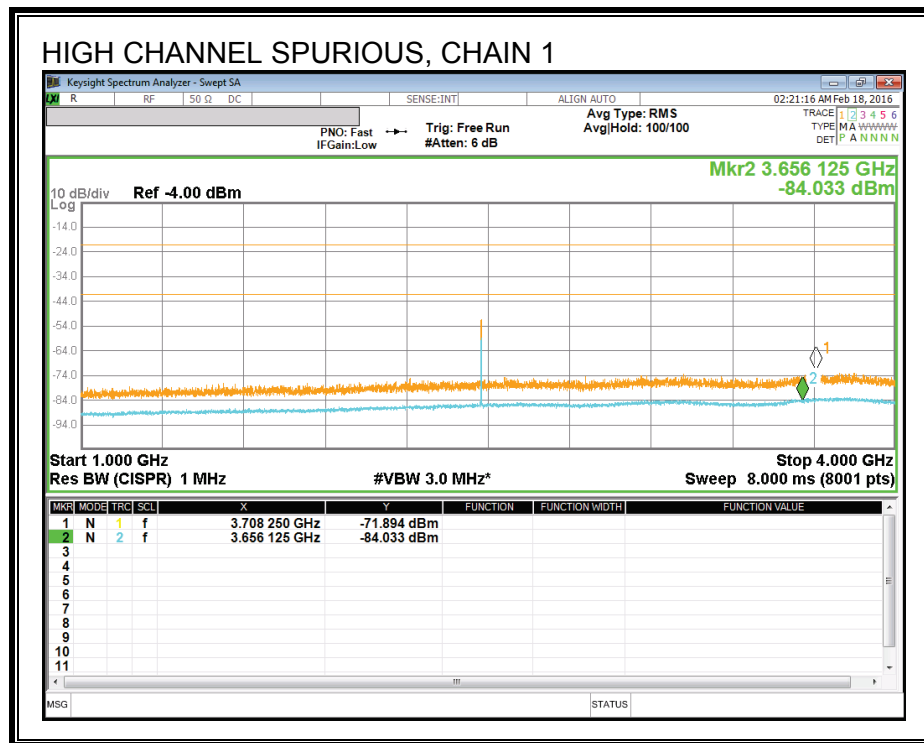
HARMONICS AND SPURIOUS EMISSIONS, HIGH CHANNEL, TABULAR DATA

The following measurements include an antenna gain of:

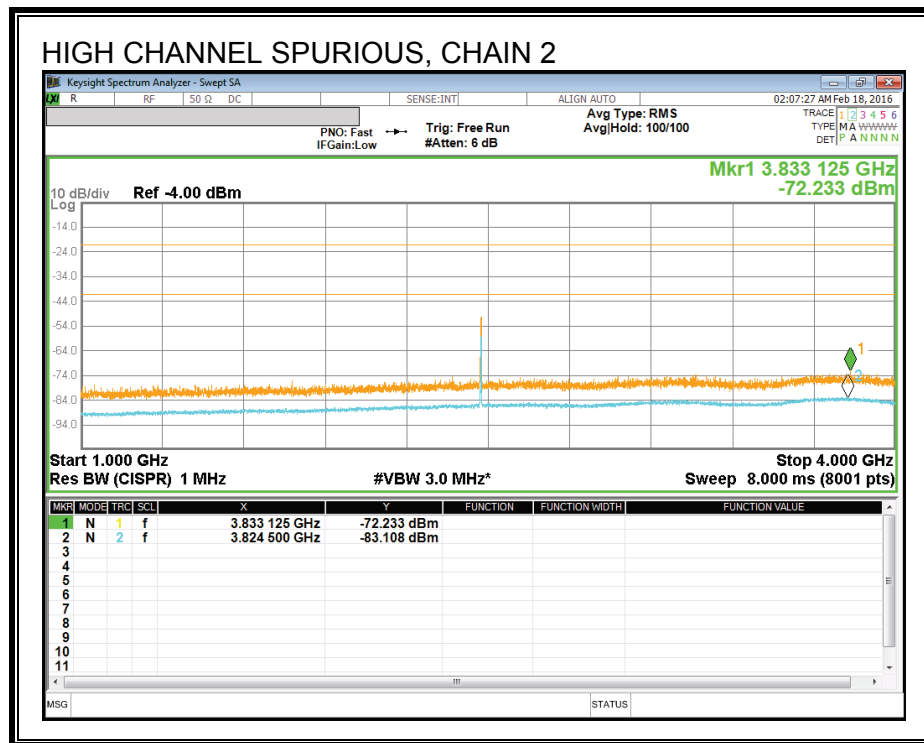
AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-73.673	-72.47	-71.877	-73.233	-72.754	-73.694	-72.687	-72.249			
1000-4000	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
Final Value		-72.753	-71.55	-70.957	-72.313	-71.834	-72.774	-71.767	-71.329	-42.89	-21.2	-21.69

Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-83.863	-83.769	-83.864	-83.823	-83.282	-83.438	-82.797	-83.472			
1000-4000	FILTER	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	CBL1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416			
	CBL2	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-82.263	-82.849	-82.944	-82.903	-81.682	-81.848	-81.127	-81.822	-53.15	-41.2	-11.95

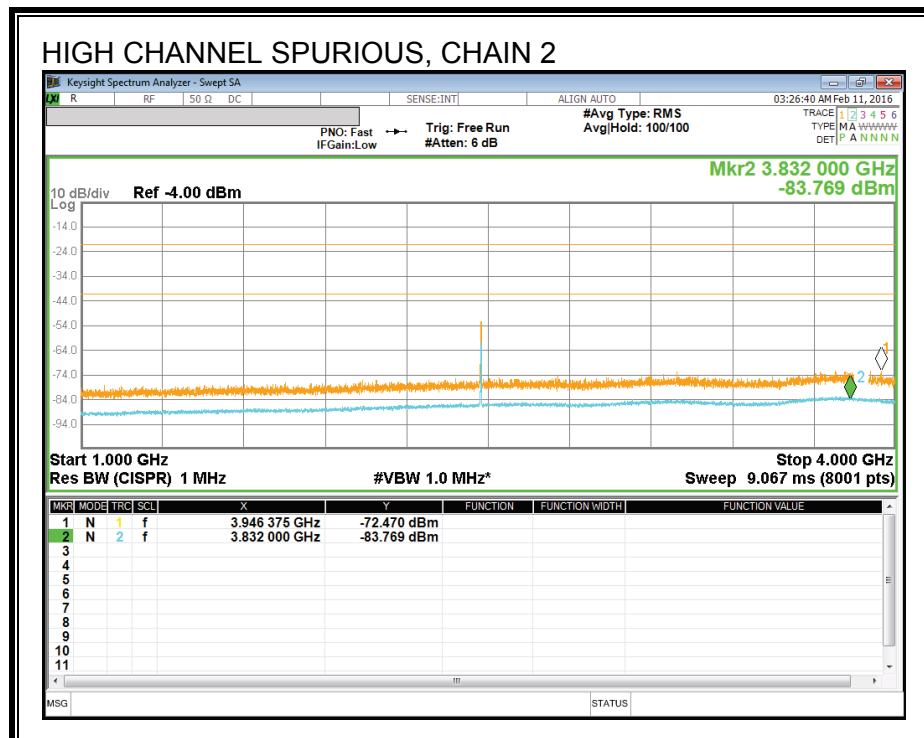
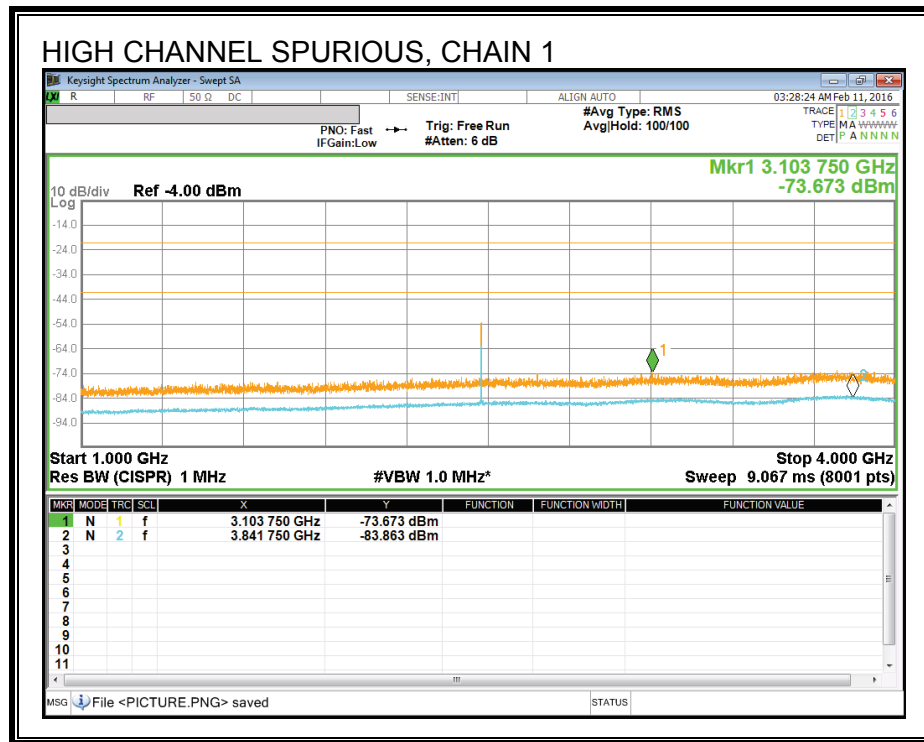


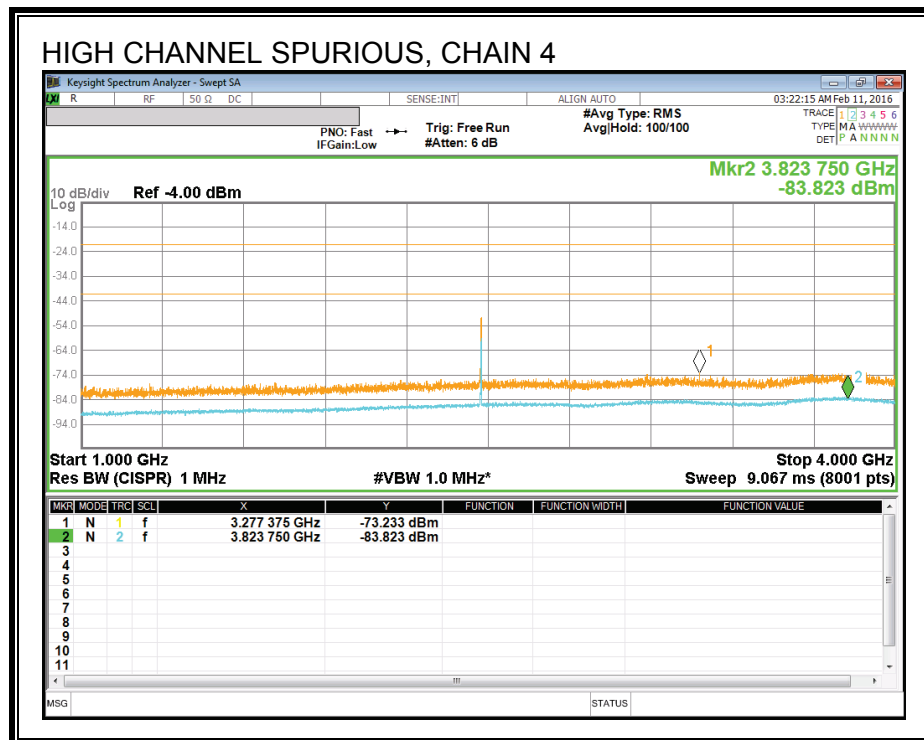
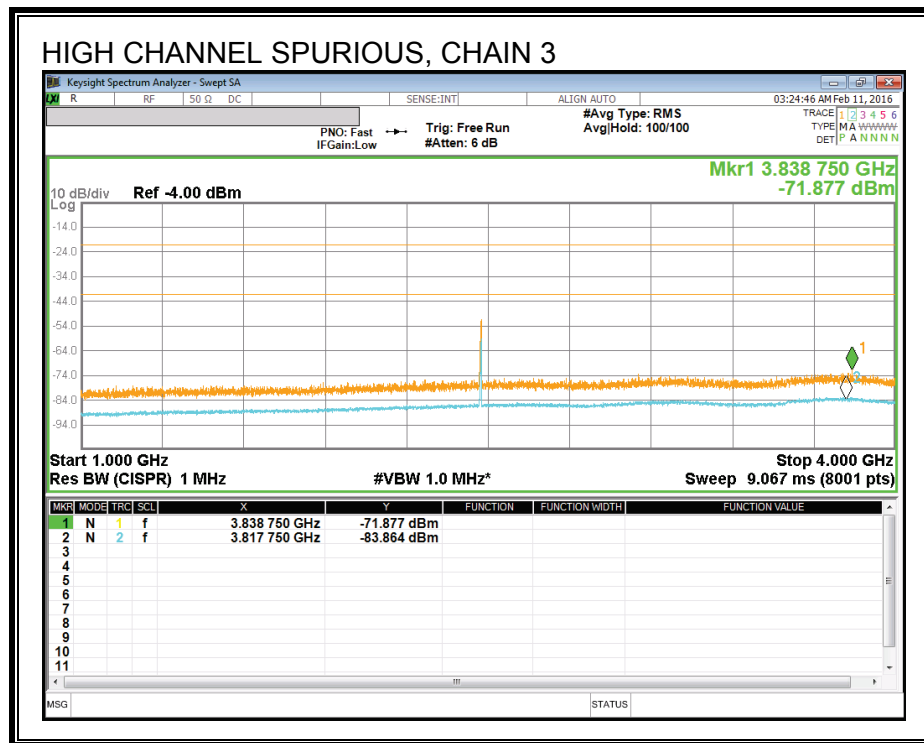
Note - The following HIGH Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 85% duty cycle (Chains 1, 5-8).

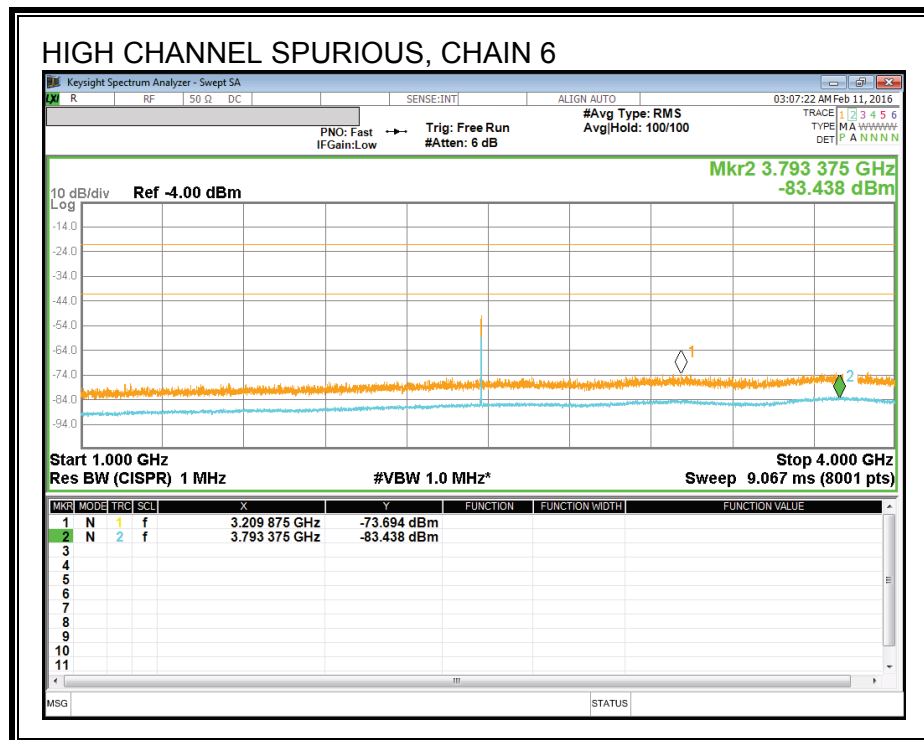
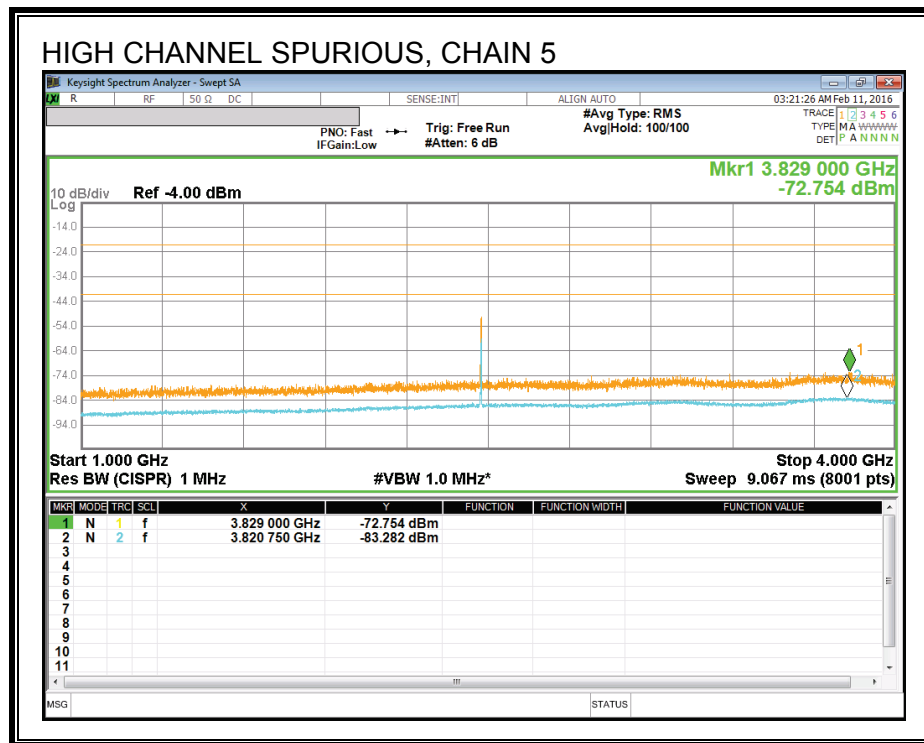


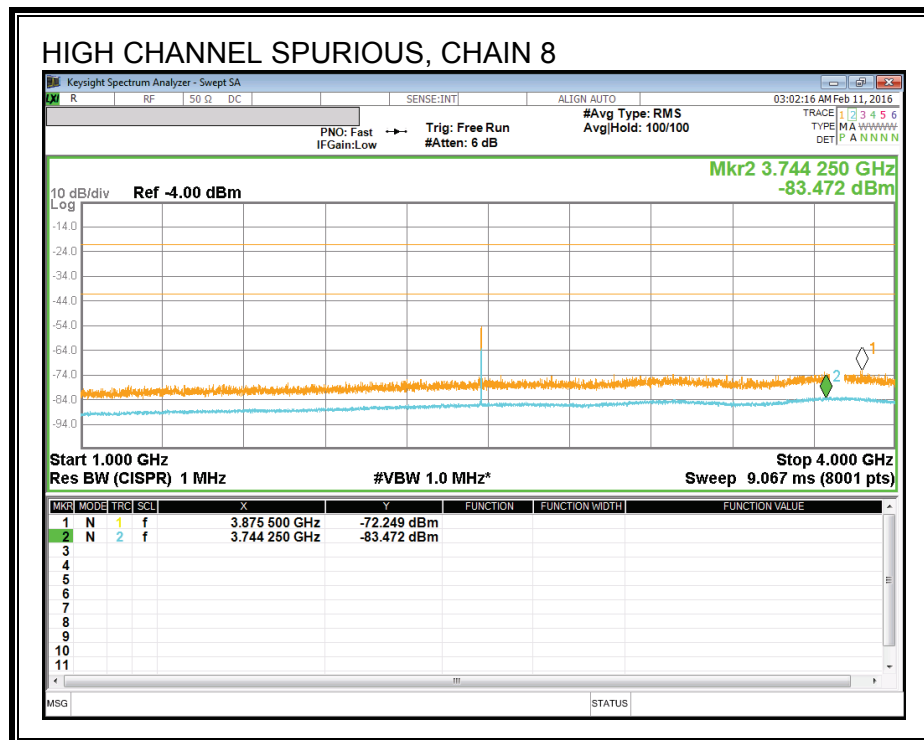
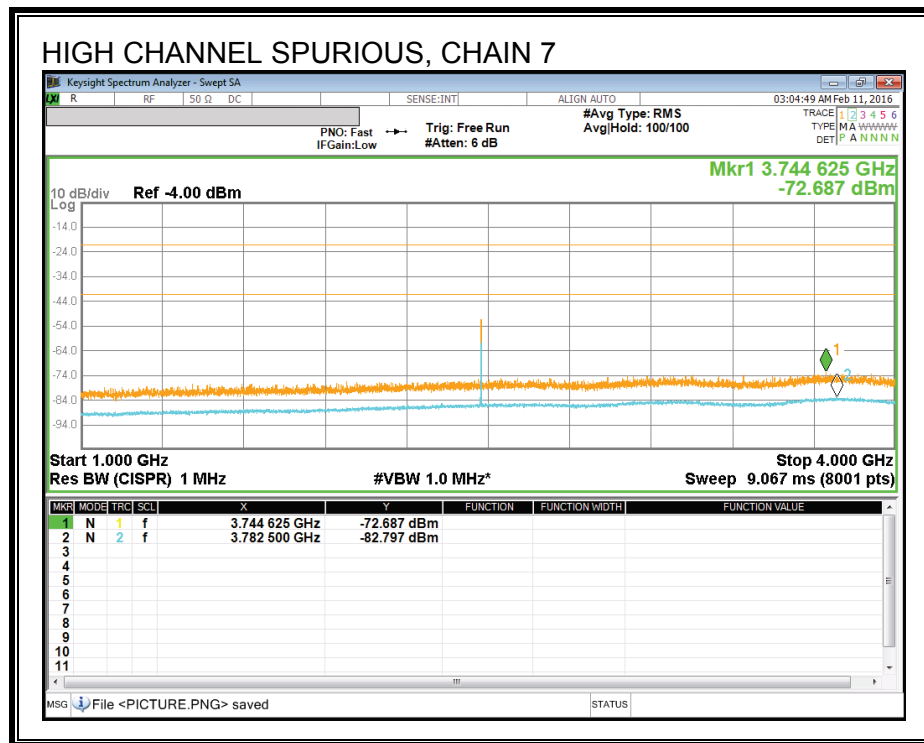
Note - The following High Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 100% duty cycle (Chains 2-4).

HARMONICS AND SPURIOUS EMISSIONS, HIGH CHANNEL









9.1.2. TX ABOVE 1 GHz IN THE 2.4 GHz BAND: 4-18 GHz

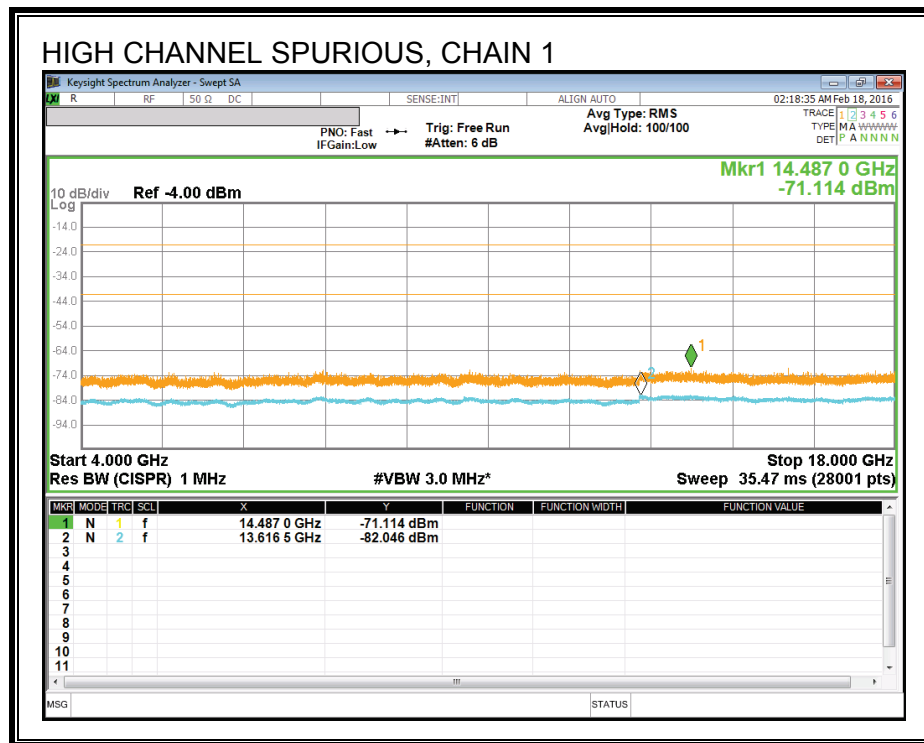
HARMONICS AND SPURIOUS EMISSIONS, LOW CHANNEL, TABULAR DATA

The following measurements include an antenna gain of:

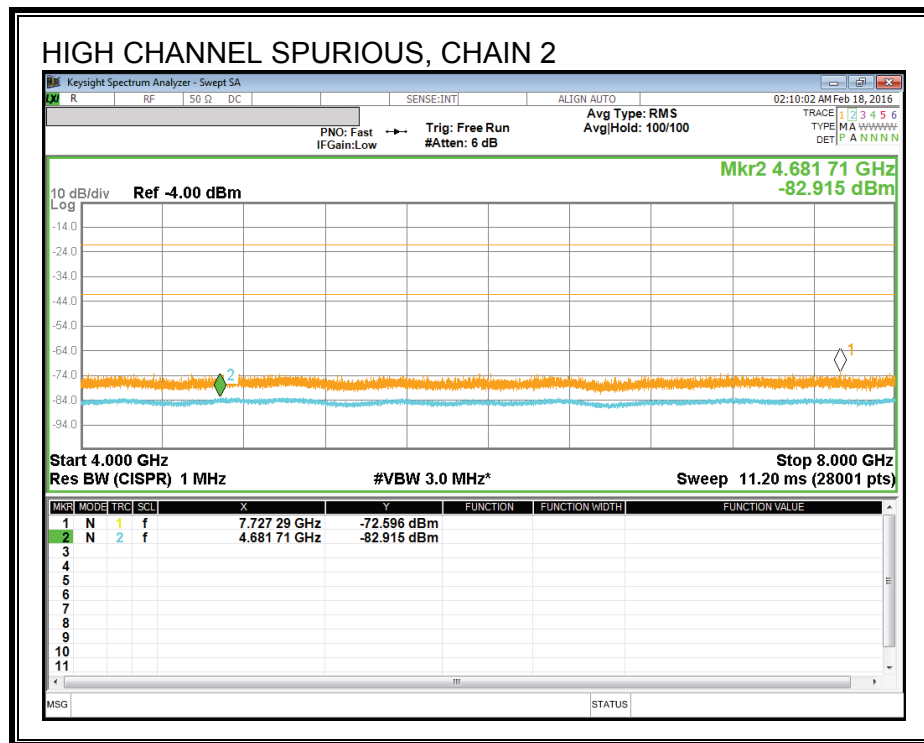
AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-71.538	-70.546	-71.043	-71.112	-71.621	-71.877	-70.89	-71.187			
4000-18000	FILTER	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8			
	CBL1	1.414	1.414	1.414	1.414	1.414	1.414	1.414	1.414			
	CBL2	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475			
Final Value		-66.849	-65.857	-66.354	-66.423	-66.932	-67.188	-66.201	-66.498	-37.54	-21.2	-16.34

Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-82.032	-82.062	-81.868	-81.986	-81.846	-81.694	-82.115	-81.885			
4000-18000	FILTER	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8			
	CBL1	1.414	1.414	1.414	1.414	1.414	1.414	1.414	1.414			
	CBL2	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-76.663	-77.373	-77.179	-77.297	-76.477	-76.335	-76.676	-76.466	-47.81	-41.2	-6.61

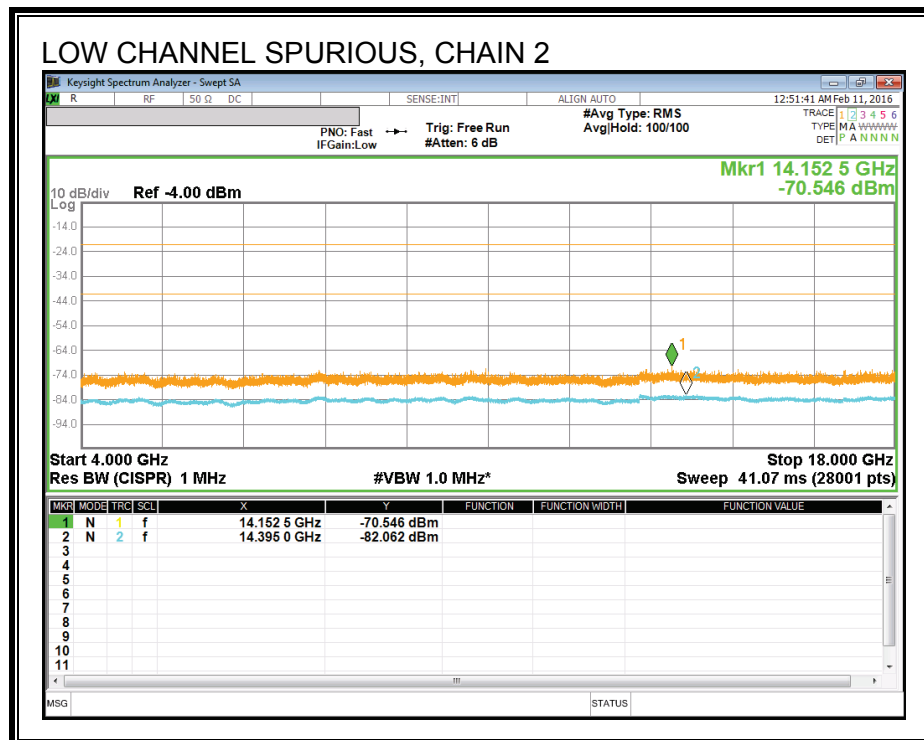
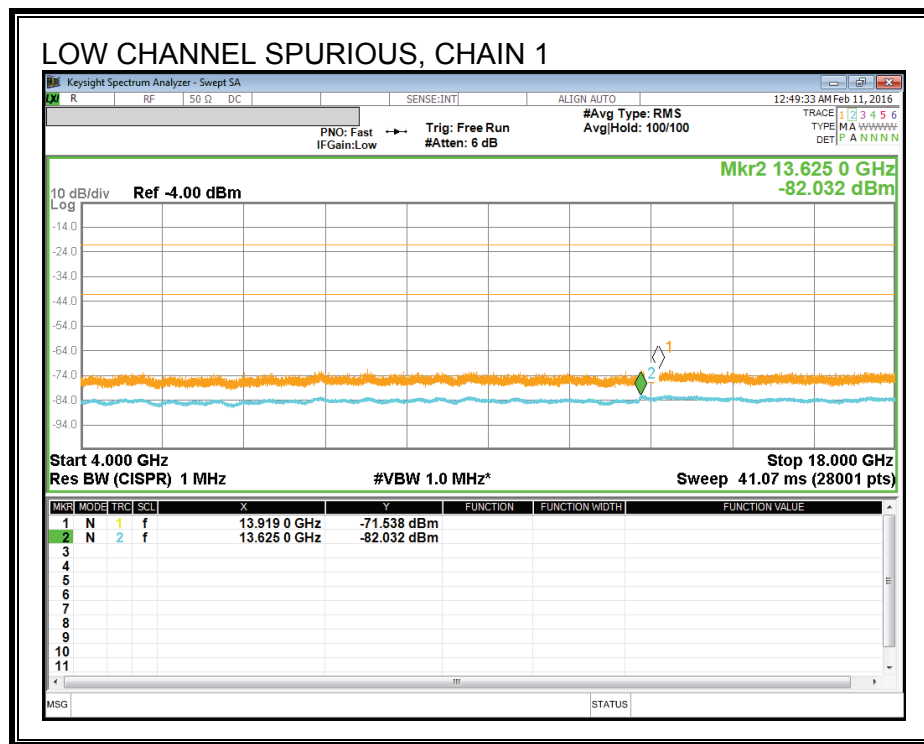


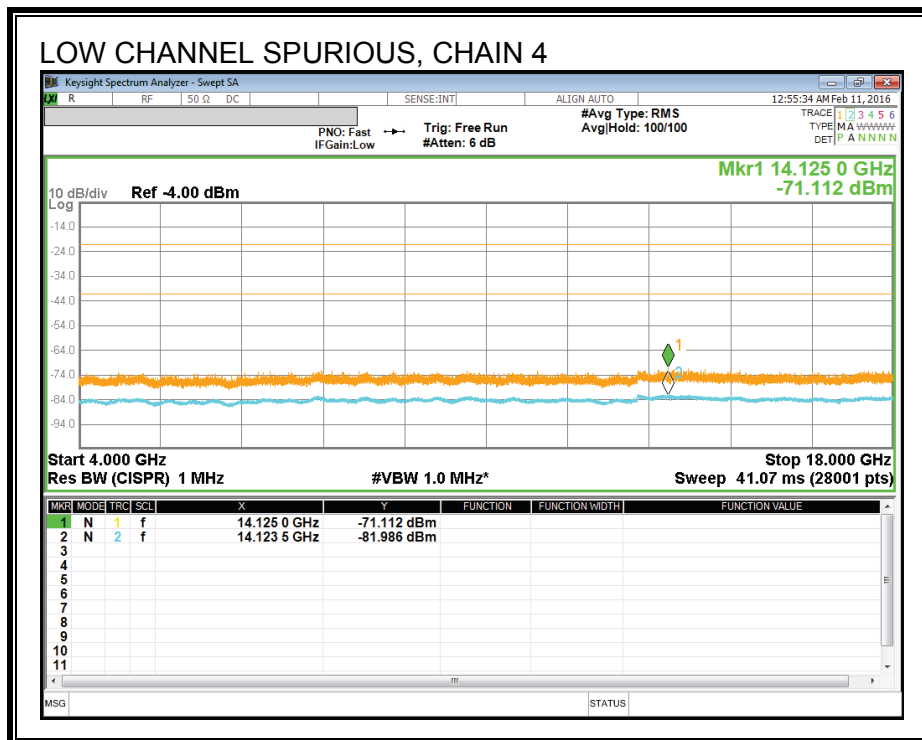
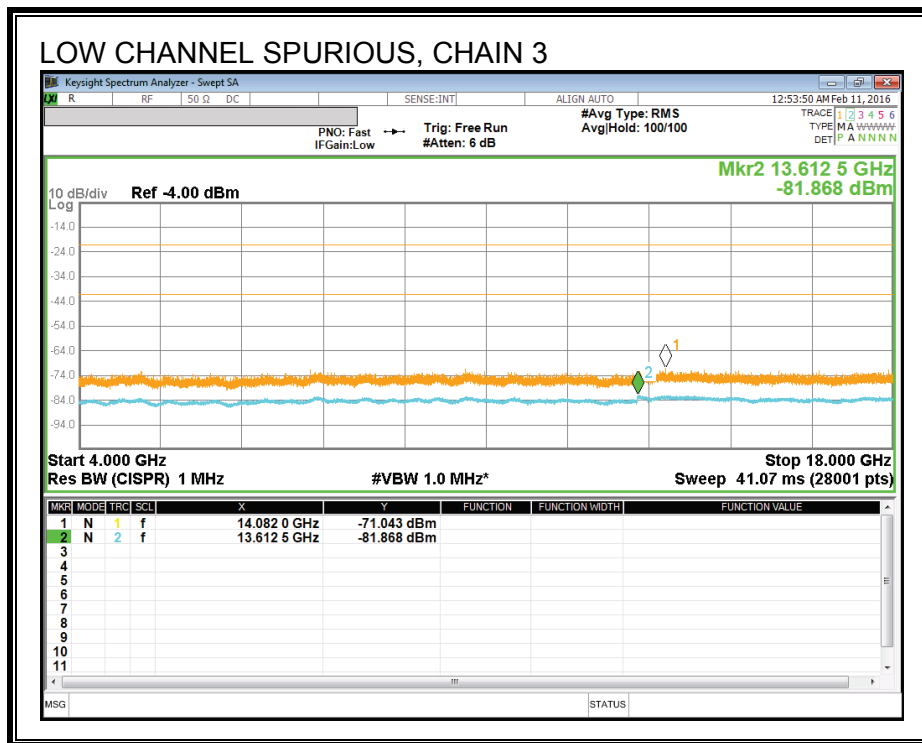
Note - The following Low Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 85% duty cycle (Chains 1, 5-8).

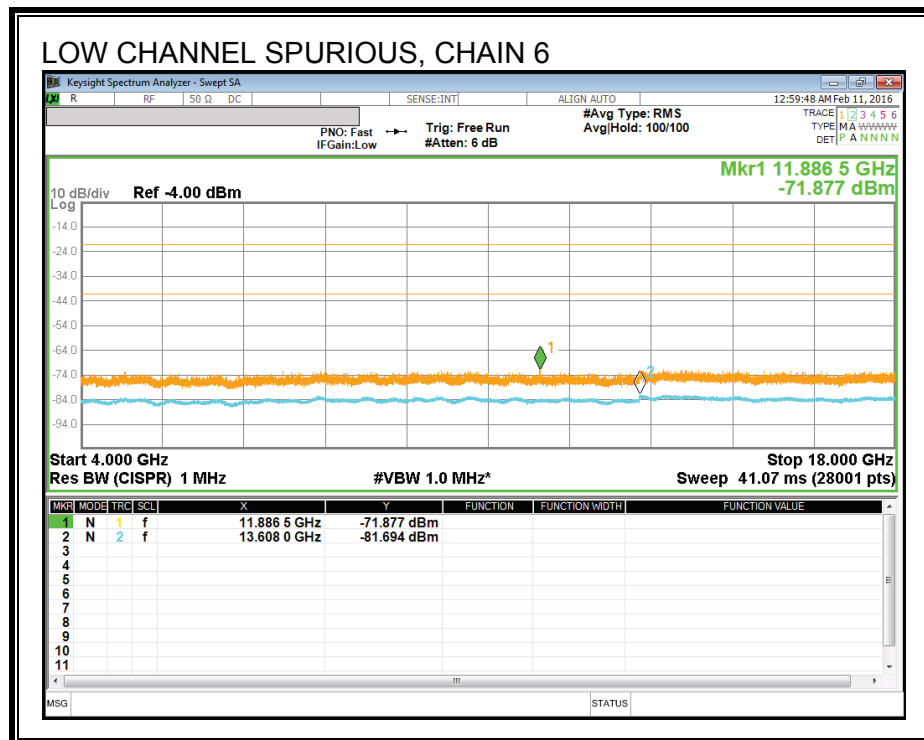
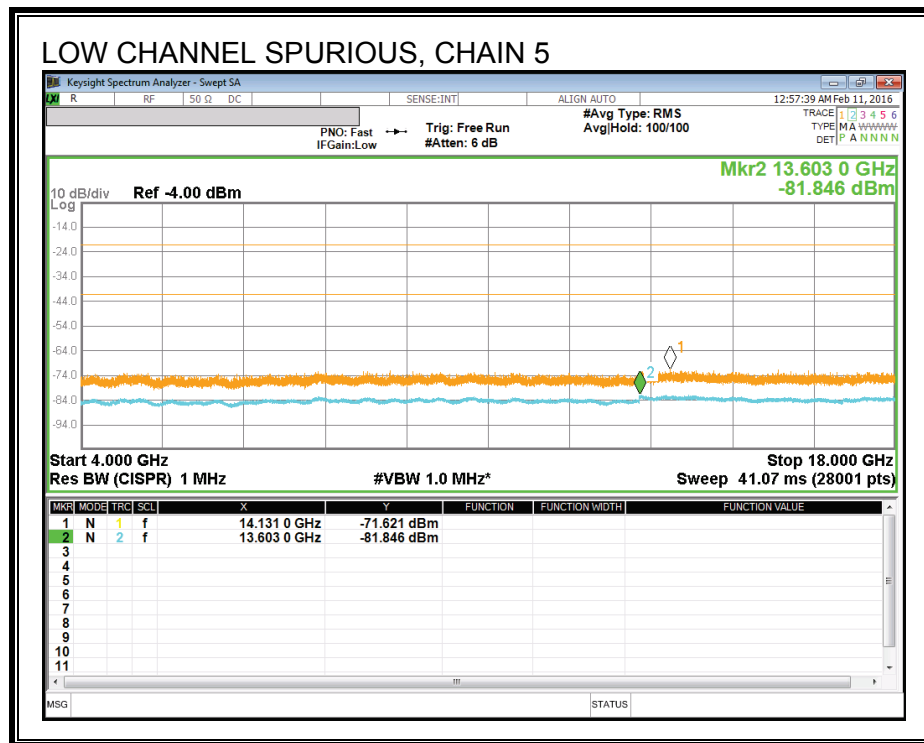


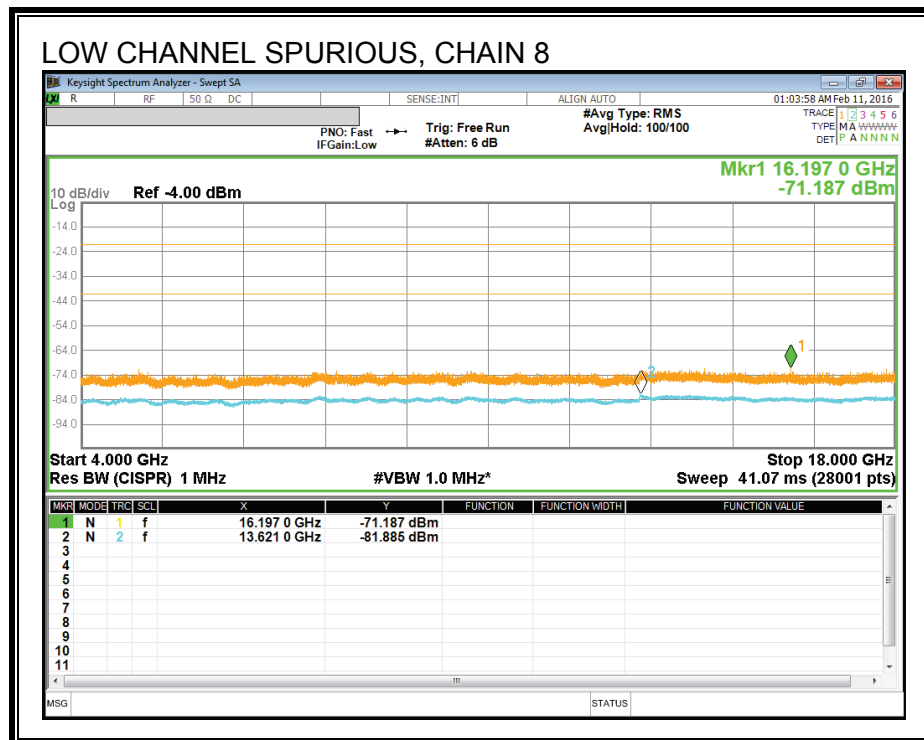
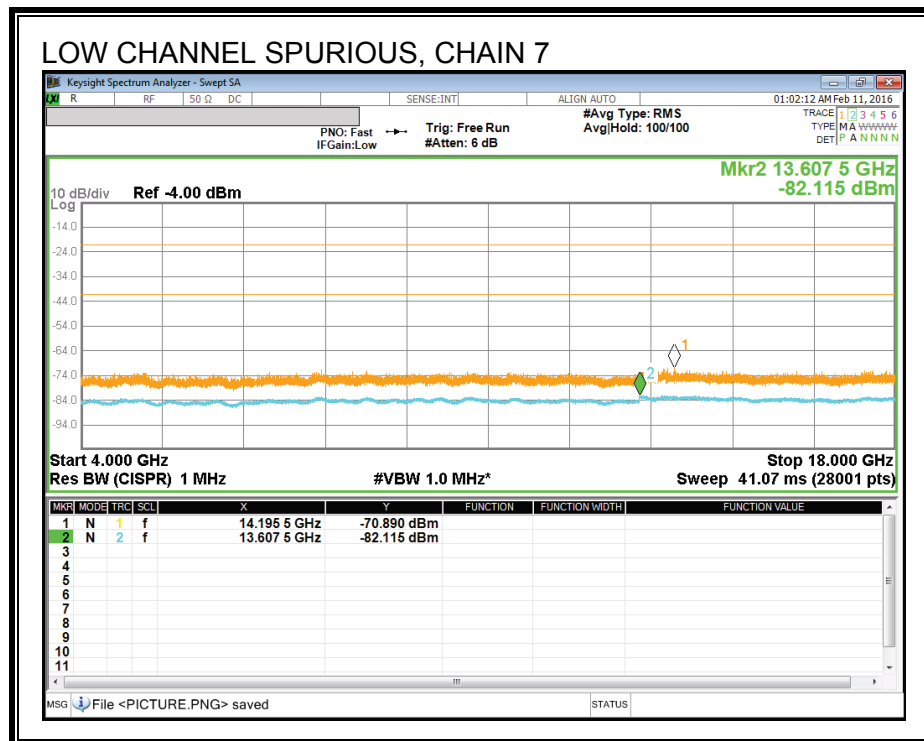
Note - The following Low Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 100% duty cycle (Chains 2-4).

HARMONICS AND SPURIOUS EMISSIONS, LOW CHANNEL









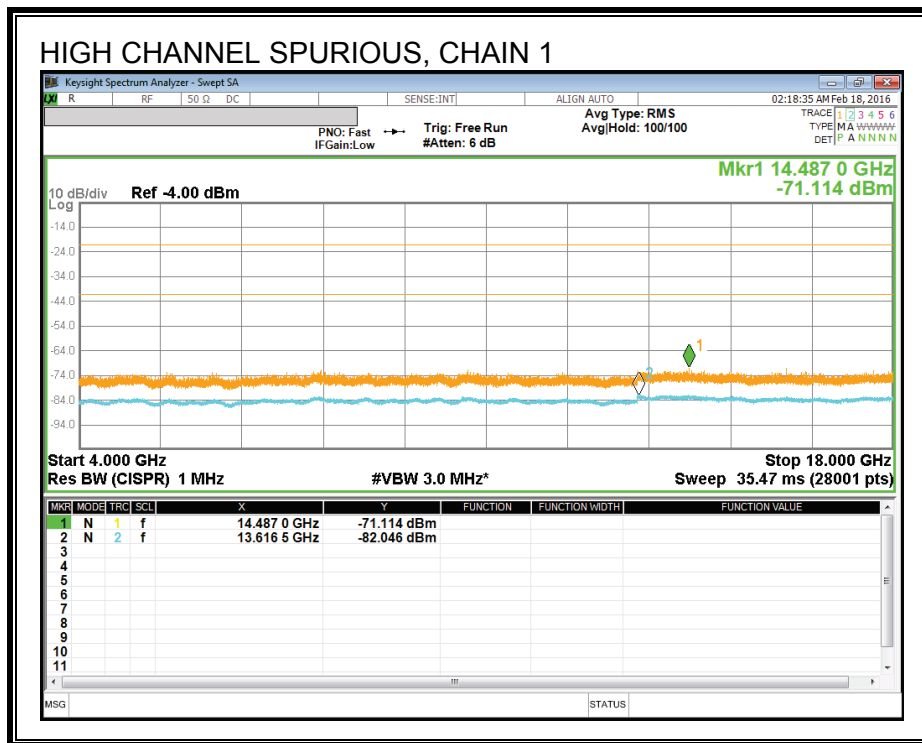
HARMONICS AND SPURIOUS EMISSIONS, MID CHANNEL, TABULAR DATA

The following measurements include an antenna gain of:

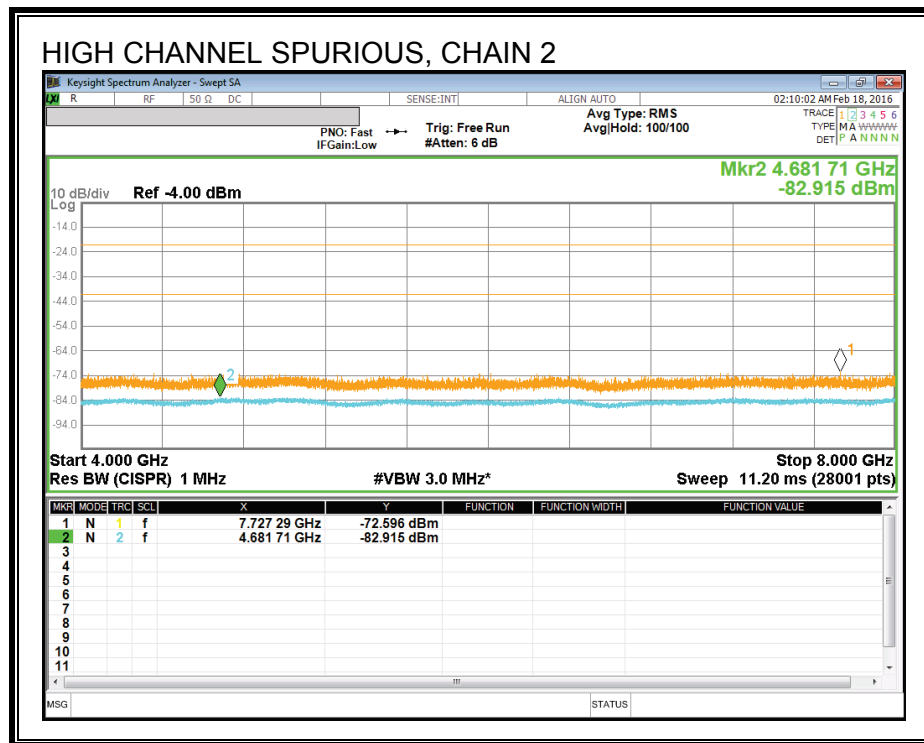
AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-71.121	-71.398	-71.517	-71.727	-71.714	-71.406	-71.518	-71.355			
4000-18000	FILTER	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8			
	CBL1	1.414	1.414	1.414	1.414	1.414	1.414	1.414	1.414			
	CBL2	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475			
Final Value		-67.907	-68.184	-68.303	-68.513	-68.5	-68.192	-68.304	-68.141	-39.27	-21.2	-18.07

Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-81.867	-81.778	-81.736	-82.065	-81.915	-81.735	-81.974	-81.93			
4000-18000	FILTER	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8			
	CBL1	1.414	1.414	1.414	1.414	1.414	1.414	1.414	1.414			
	CBL2	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-76.498	-77.089	-77.047	-77.376	-76.546	-76.376	-76.535	-76.511	-47.75	-41.2	-6.55

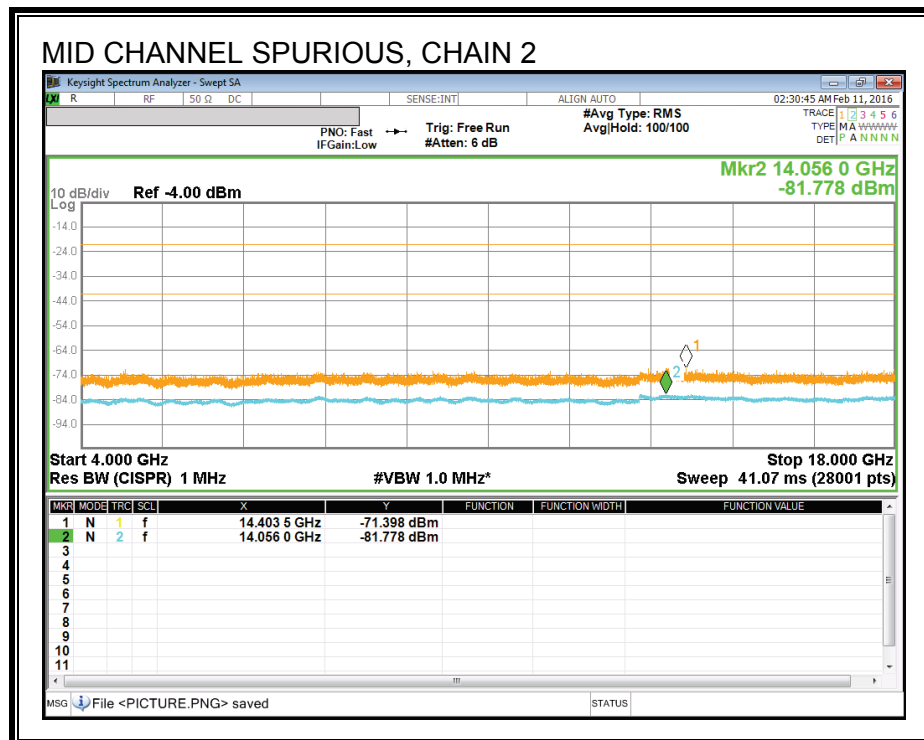
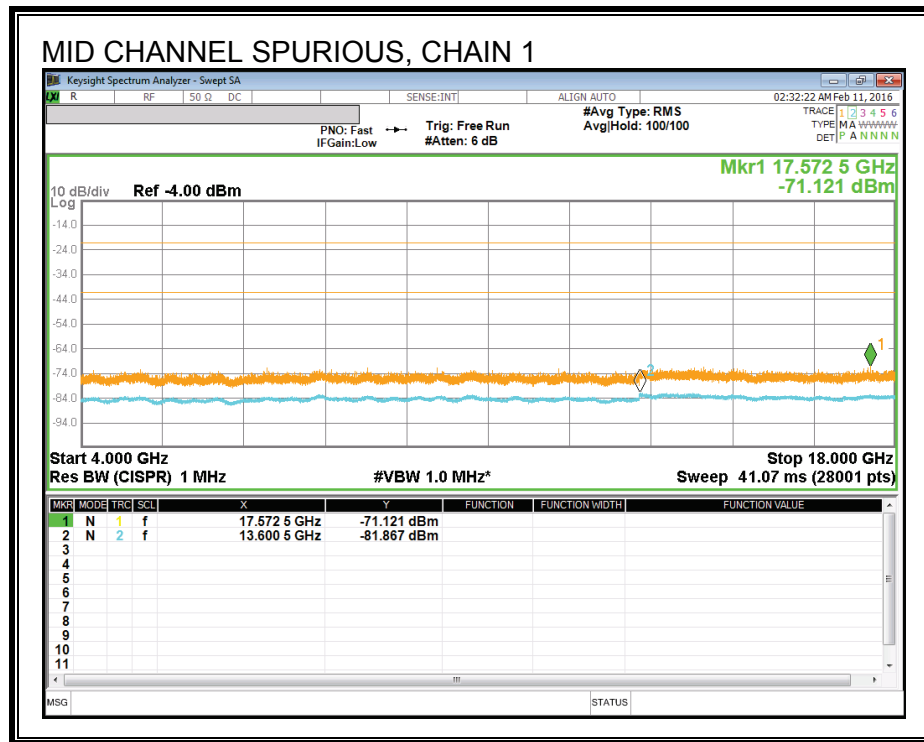


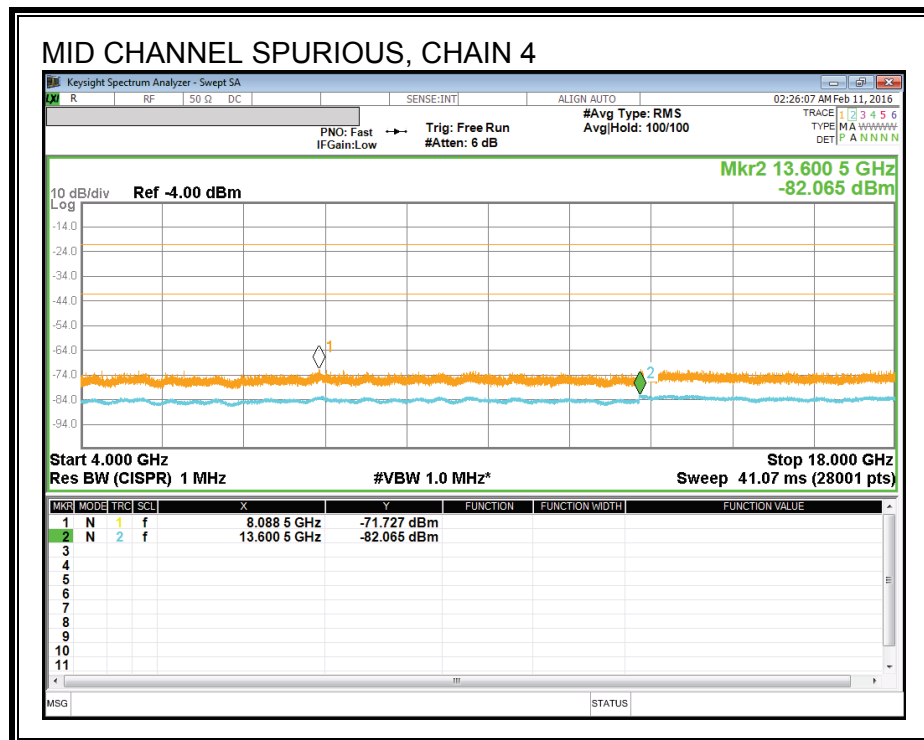
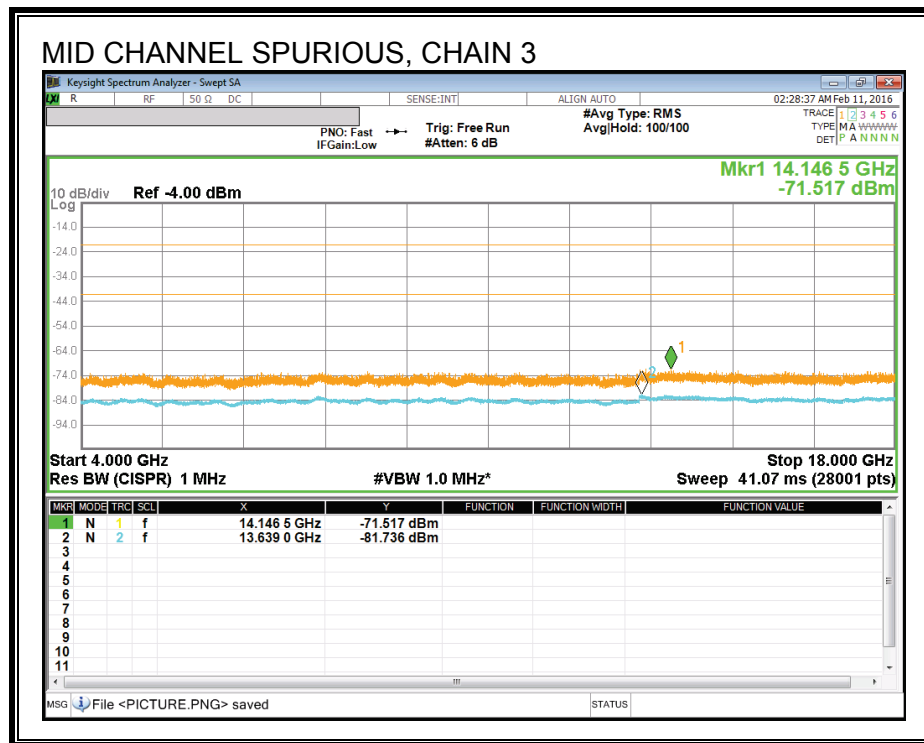
Note - The following Mid Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 85% duty cycle (Chains 1, 5-8).

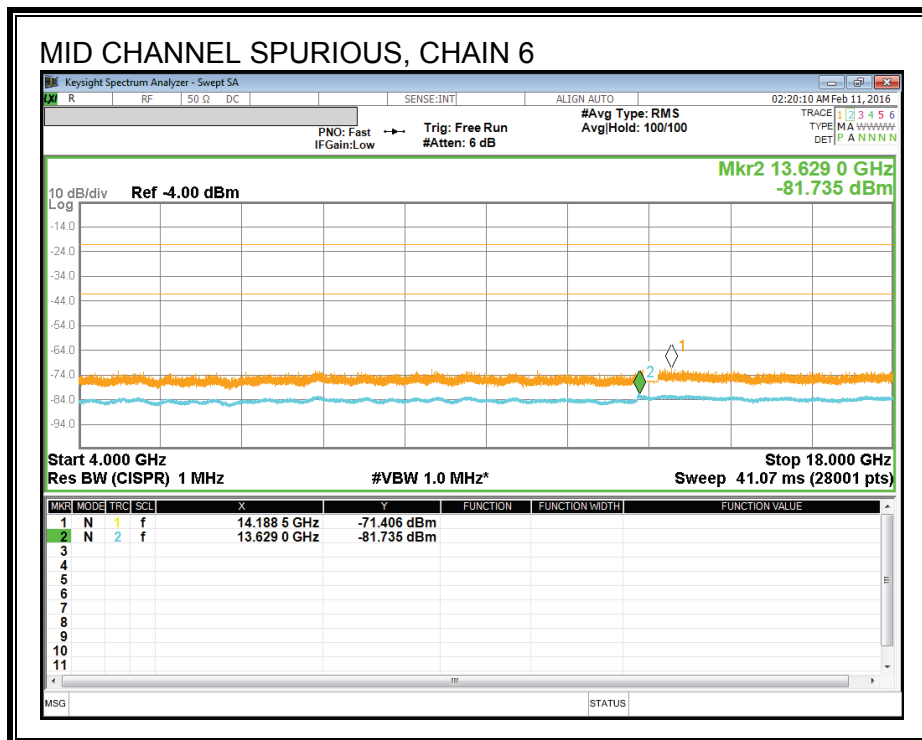
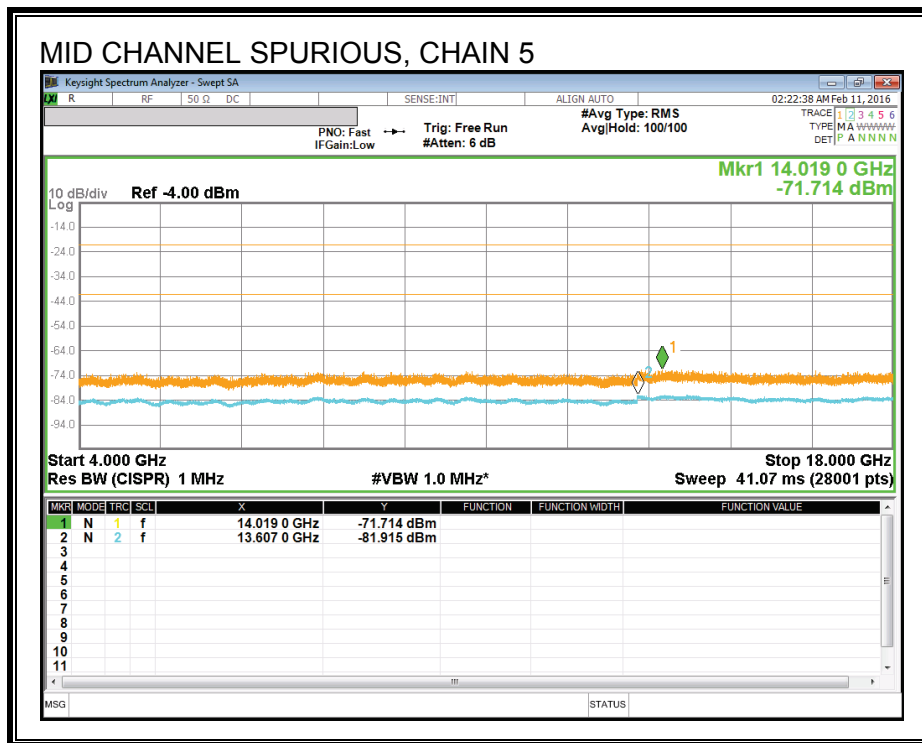


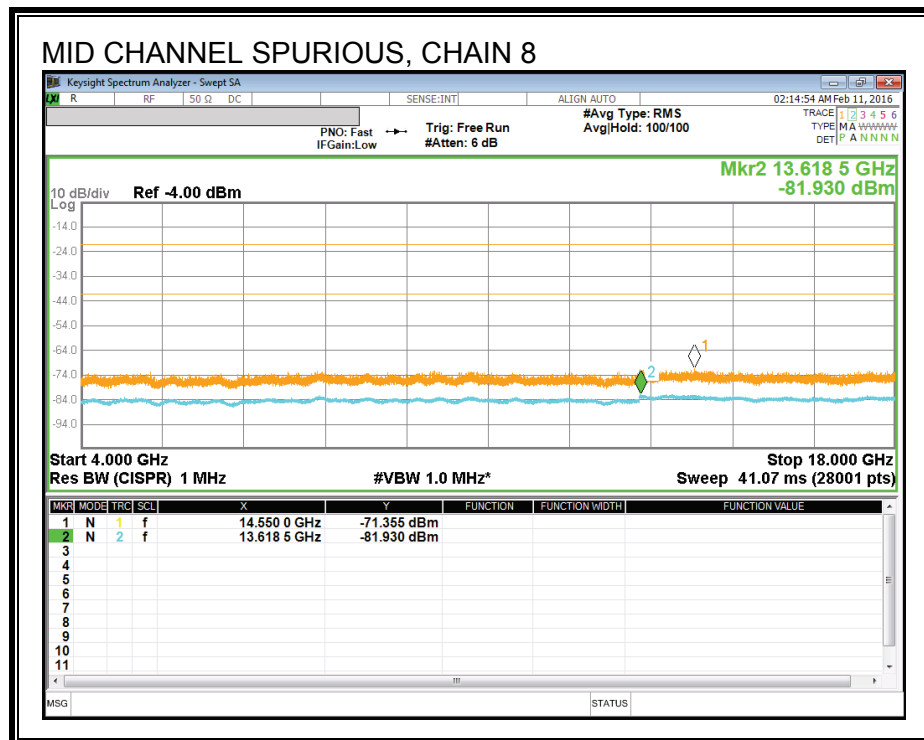
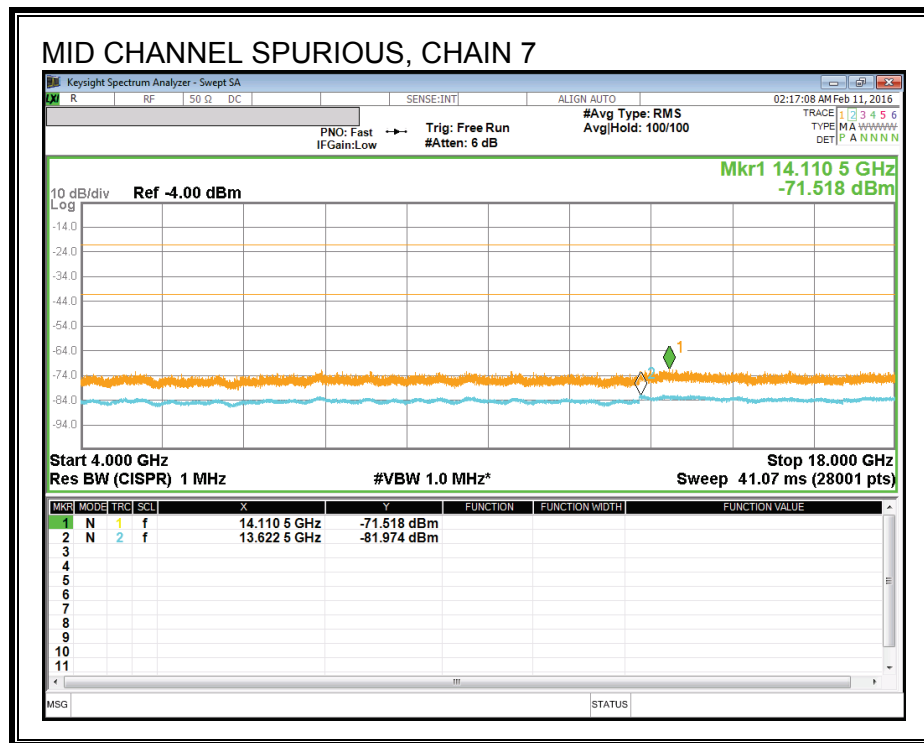
Note - The following Mid Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 100% duty cycle (Chains 2-4).

HARMONICS AND SPURIOUS EMISSIONS, MID CHANNEL









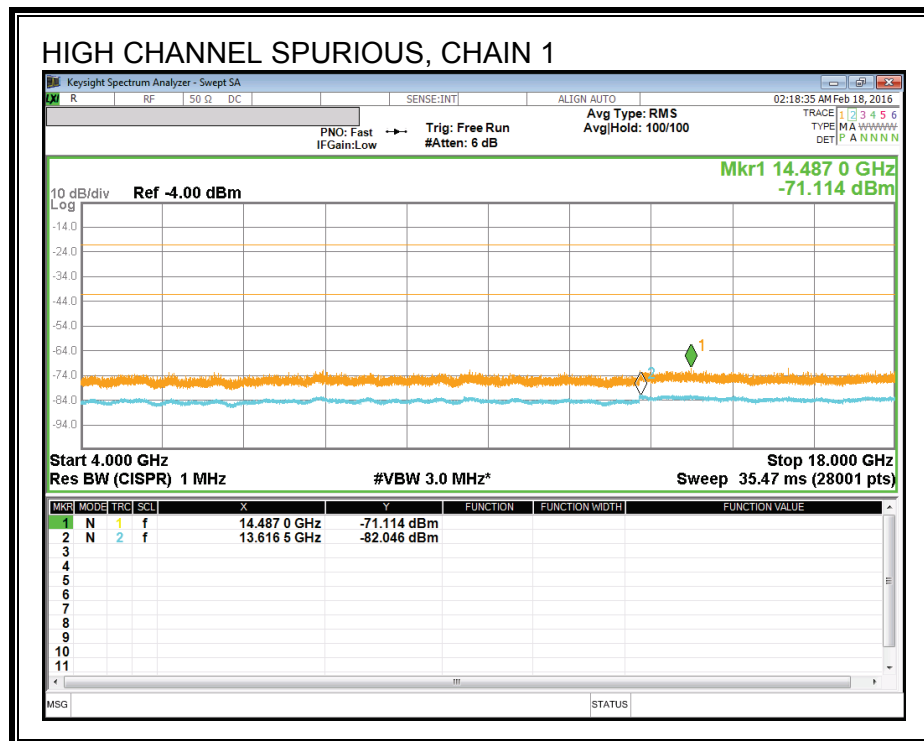
HARMONICS AND SPURIOUS EMISSIONS, HIGH CHANNEL, TABULAR DATA

The following measurements include an antenna gain of:

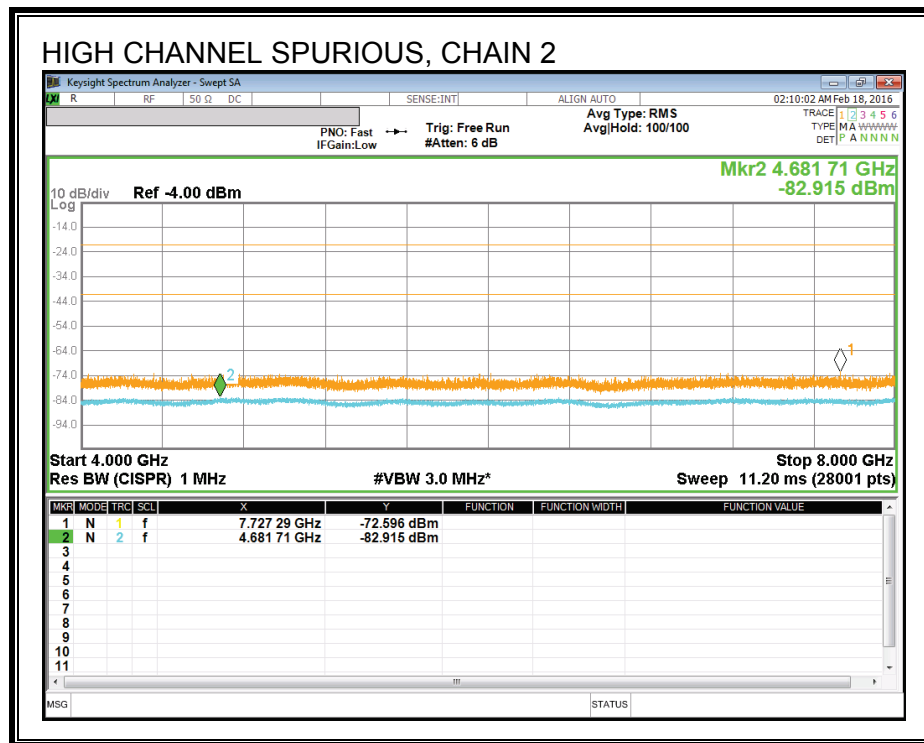
AG Chain 1 (dBi)	AG Chain 2 (dBi)	AG Chain 3 (dBi)	AG Chain 4 (dBi)	AG Chain 5 (dBi)	AG Chain 6 (dBi)	AG Chain 7 (dBi)	AG Chain 8 (dBi)
19.7	19.9	20	20.2	20.2	20.1	19.9	19.6

Frequency (MHz)		Meter PK Reading Chain 1 (dBm)	Meter PK Reading Chain 2 (dBm)	Meter PK Reading Chain 3 (dBm)	Meter PK Reading Chain 4 (dBm)	Meter PK Reading Chain 5 (dBm)	Meter PK Reading Chain 6 (dBm)	Meter PK Reading Chain 7 (dBm)	Meter PK Reading Chain 8 (dBm)	PK EIRP (dBm)	PK E-field Limit (dBm)	PK E-field Margin (dB)
Enter SA Value here		-71.915	-70.772	-71.161	-71.26	-71.019	-71.5	-71.355	-71.928			
4000-18000	FILTER	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8			
	CBL1	1.414	1.414	1.414	1.414	1.414	1.414	1.414	1.414			
	CBL2	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475			
Final Value		-68.701	-67.558	-67.947	-68.046	-67.805	-68.286	-68.141	-68.714	-39.14	-21.2	-17.94

Frequency (MHz)		Meter AVG Reading Chain 1	Meter AVG Reading Chain 2	Meter AVG Reading Chain 3	Meter AVG Reading Chain 4	Meter AVG Reading Chain 5	Meter AVG Reading Chain 6	Meter AVG Reading Chain 7 (dBm)	Meter AVG Reading Chain 8	AVG EIRP (dBm)	AVG E-field Limit (dBm)	AVG E-field Margin (dB)
Enter SA Value here		-81.826	-82.007	-82.004	-81.939	-81.941	-81.832	-81.717	-82.016			
4000-18000	FILTER	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8			
	CBL1	1.414	1.414	1.414	1.414	1.414	1.414	1.414	1.414			
	CBL2	1.475	1.475	1.475	1.475	1.475	1.475	1.475	1.475			
	DCCF	0.68	0	0	0	0.68	0.67	0.75	0.73			
Final Value		-76.457	-77.318	-77.315	-77.25	-76.572	-76.473	-76.278	-76.597	-47.78	-41.2	-6.58

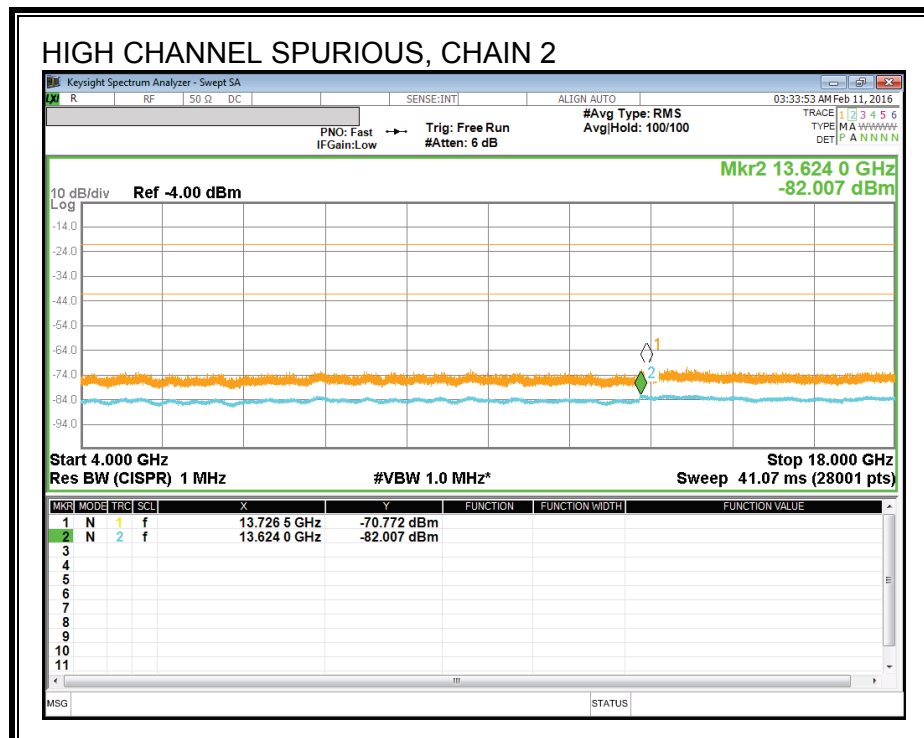
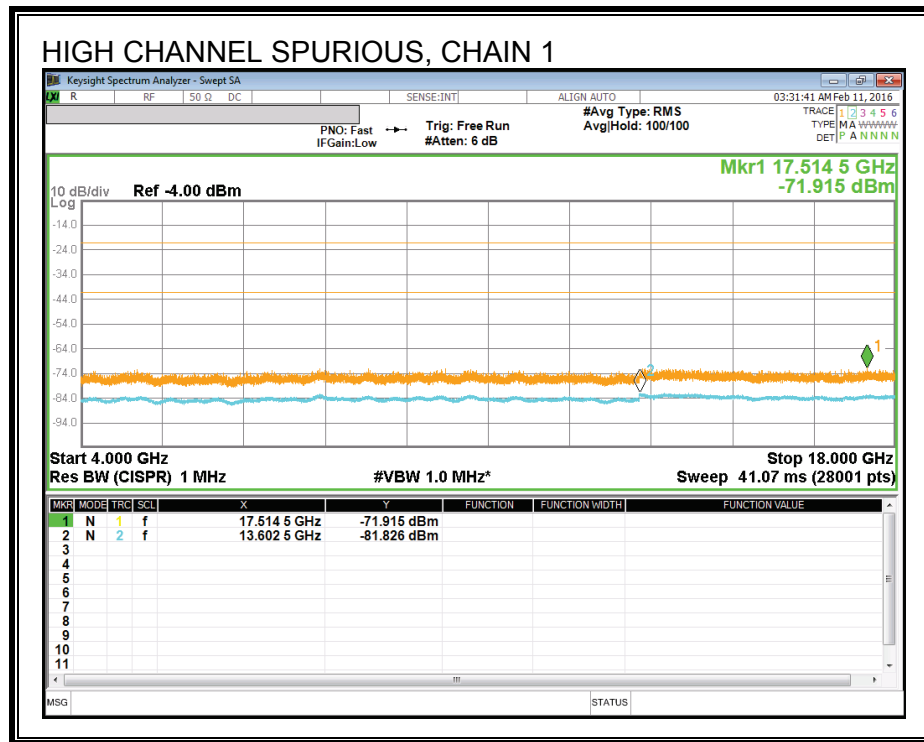


Note - The following HIGH Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHZ and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 85% duty cycle (Chains 1, 5-8).

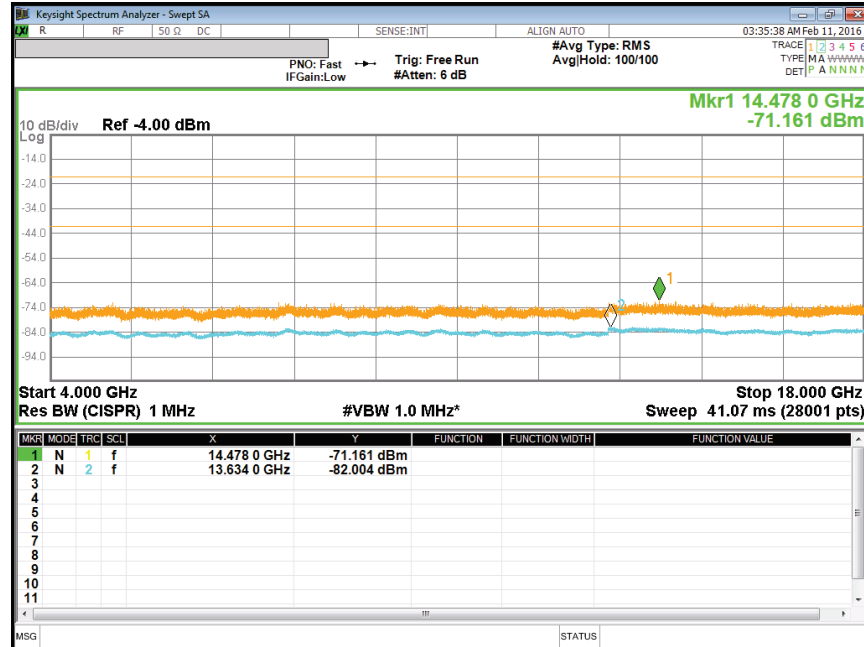


Note - The following High Channel spurious plots were taken with an RBW of 1MHz and VBW of 1MHz. The above was taken at RBW – 1MHz and VBW – 3MHz to show that the results were not impacted by the change in VBW. This plot represents all chains operating at 100% duty cycle (Chains 2-4).

HARMONICS AND SPURIOUS EMISSIONS, HIGH CHANNEL



HIGH CHANNEL SPURIOUS, CHAIN 3



HIGH CHANNEL SPURIOUS, CHAIN 4

