

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Laptop

Trade Mark: Trekstor, PEAQ

Test Model: G137

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

C.1 Duty Cycle

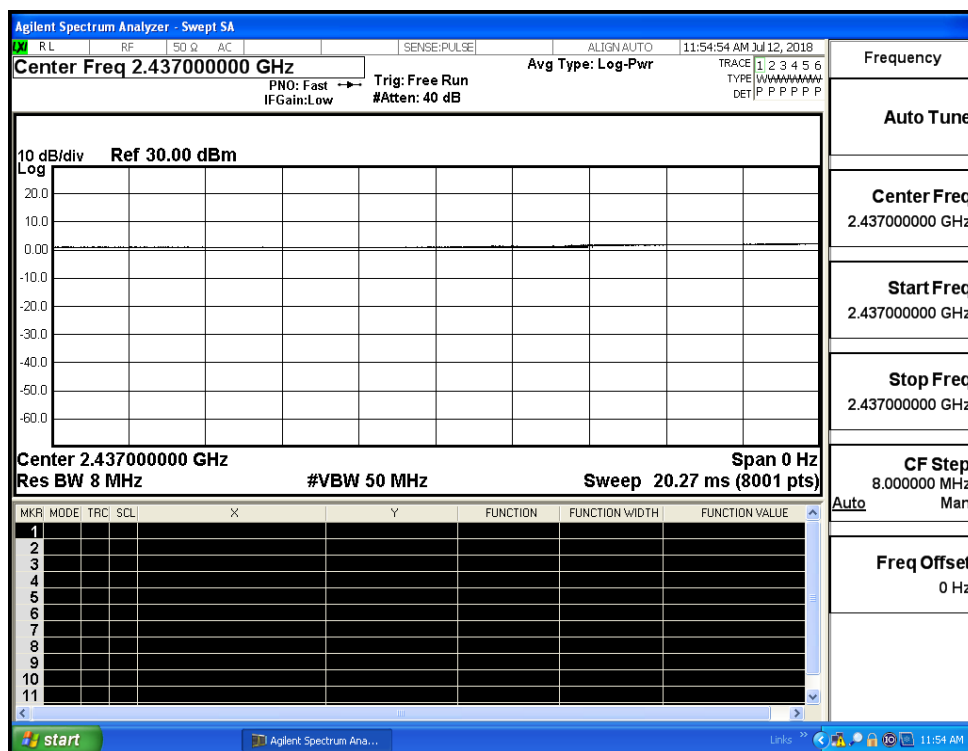
Antenna 0

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS
11N40SISO	2437	Ant0	100	PASS

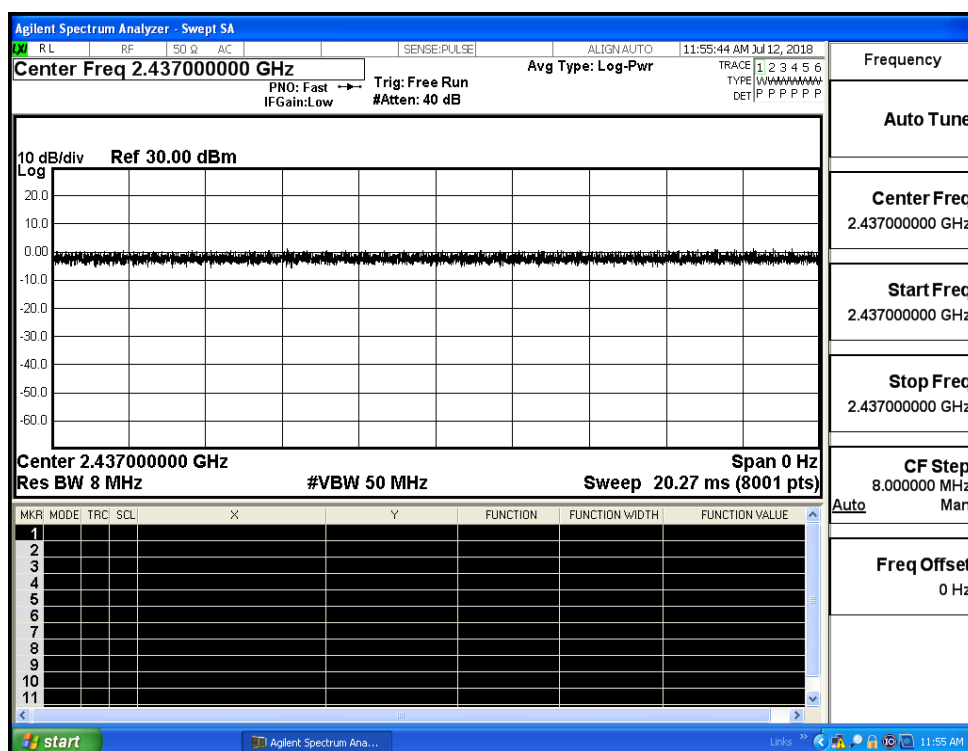
Antenna 1

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS
11N40SISO	2437	Ant0	100	PASS

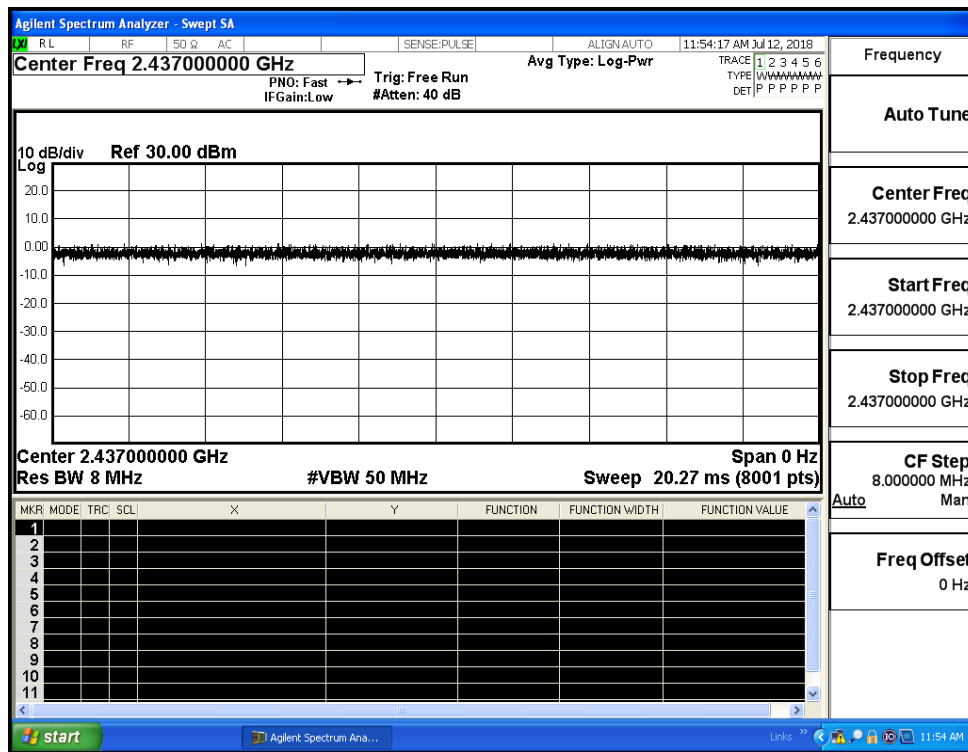
Duty Cycle_11B_2437_Ant0



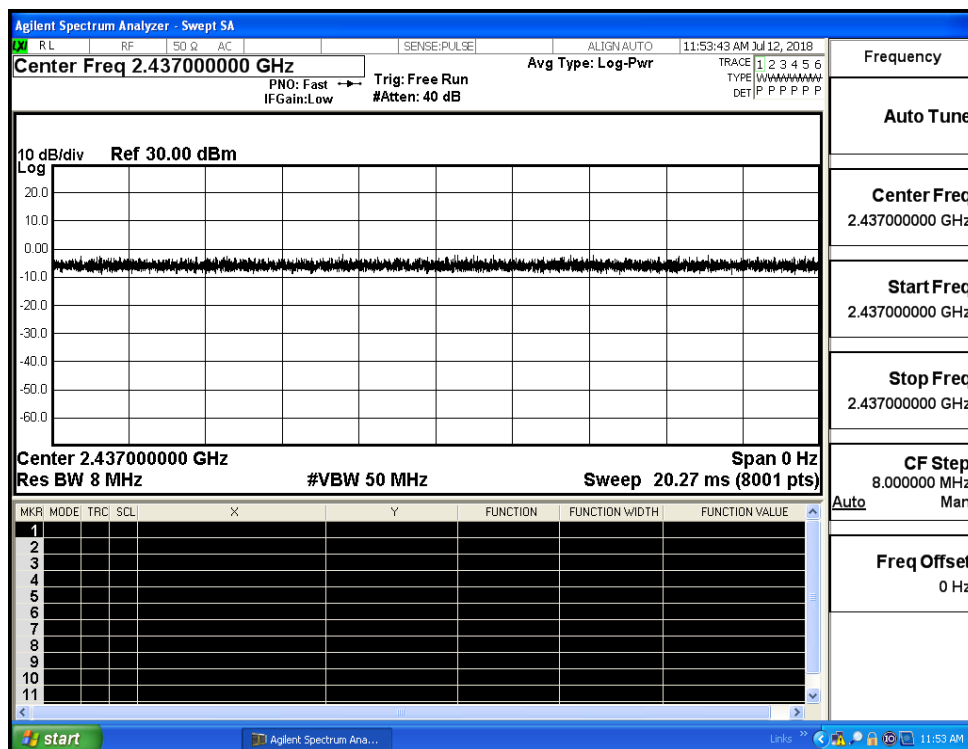
Duty Cycle_11G_2437_Ant0



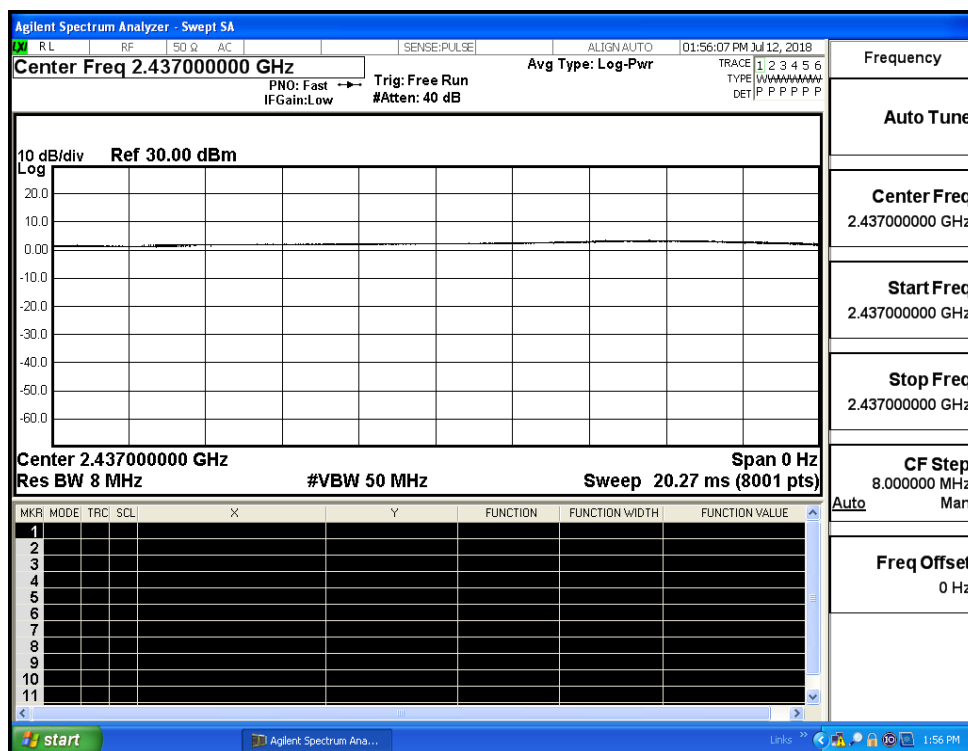
Duty Cycle_11N20SISO_2437_Ant0



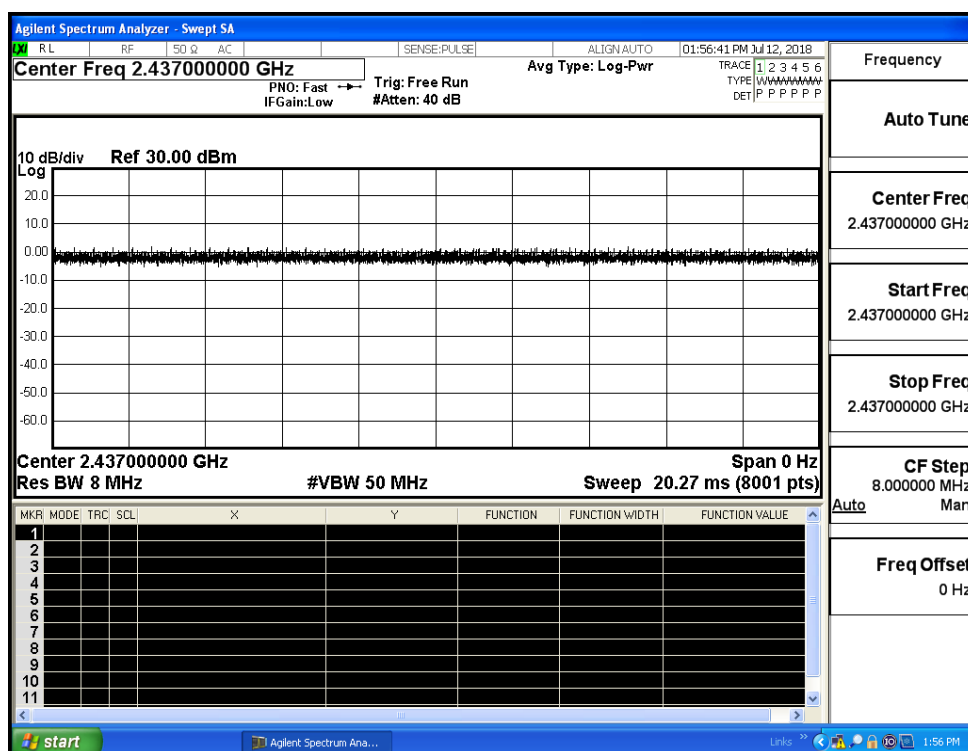
Duty Cycle_11N40SISO_2437_Ant0



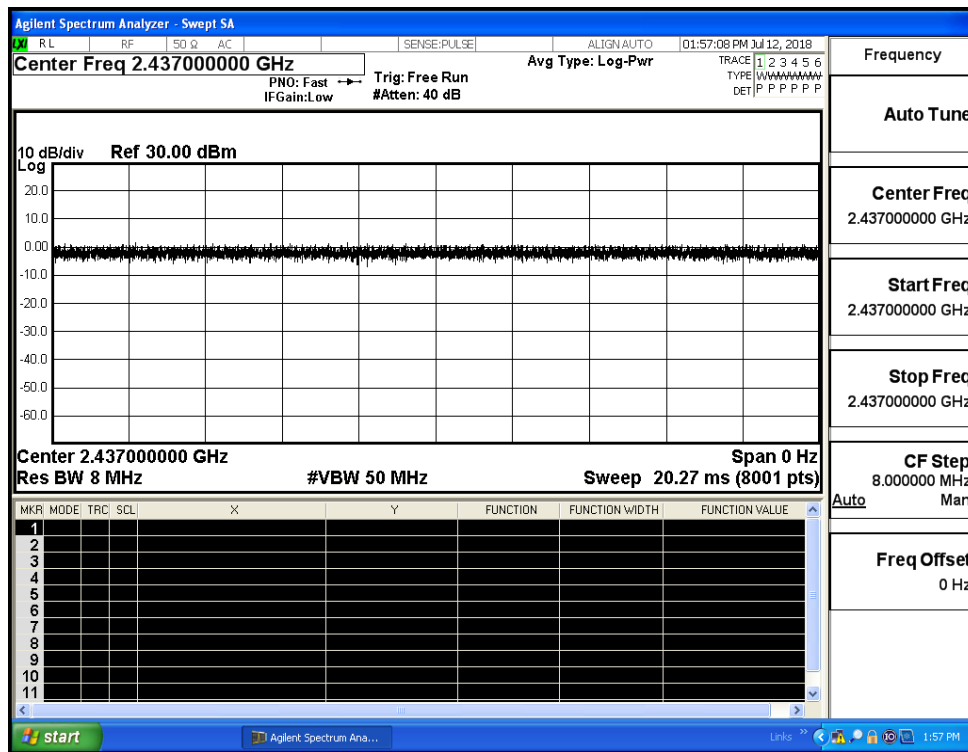
Duty Cycle_11B_2437_Ant1



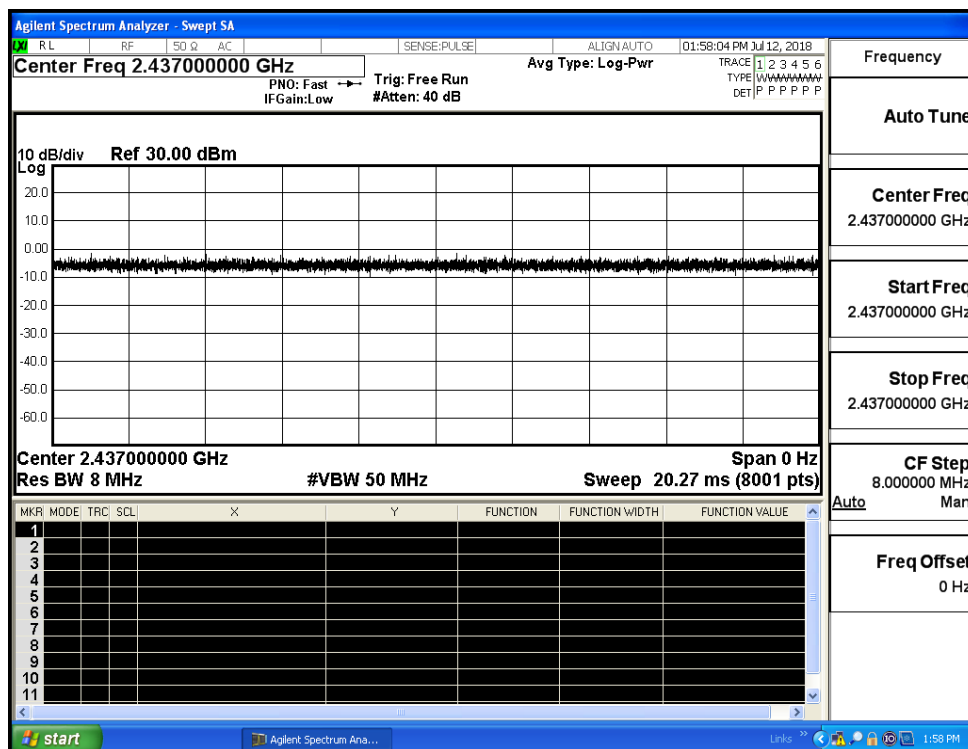
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



C.2 Maximum Conducted Peak Output Power

Antenna 0

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	10.15	30	PASS
	MCH	10.21	30	PASS
	HCH	10.11	30	PASS
11G	LCH	12.10	30	PASS
	MCH	12.63	30	PASS
	HCH	12.95	30	PASS
11N20SISO	LCH	13.03	30	PASS
	MCH	13.72	30	PASS
	HCH	13.08	30	PASS
11N40SISO	LCH	14.55	30	PASS
	MCH	14.52	30	PASS
	HCH	15.09	30	PASS

Antenna 1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	10.11	30	PASS
	MCH	10.26	30	PASS
	HCH	10.40	30	PASS
11G	LCH	12.84	30	PASS
	MCH	12.58	30	PASS
	HCH	12.25	30	PASS
11N20SISO	LCH	13.05	30	PASS
	MCH	12.59	30	PASS
	HCH	13.23	30	PASS
11N40SISO	LCH	14.83	30	PASS
	MCH	14.89	30	PASS
	HCH	14.82	30	PASS

C.3 Maximum Power Spectral Density

Antenna 0

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-9.699	8	PASS
	MCH	-10.117	8	PASS
	HCH	-10.536	8	PASS
11G	LCH	-14.637	8	PASS
	MCH	-15.114	8	PASS
	HCH	-15.782	8	PASS
11N20SISO	LCH	-14.035	8	PASS
	MCH	-14.553	8	PASS
	HCH	-15.260	8	PASS
11N40SISO	LCH	-17.691	8	PASS
	MCH	-17.307	8	PASS
	HCH	-18.488	8	PASS

Antenna 1

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-9.718	8	PASS
	MCH	-10.189	8	PASS
	HCH	-10.877	8	PASS
11G	LCH	-14.938	8	PASS
	MCH	-15.171	8	PASS
	HCH	-14.400	8	PASS
11N20SISO	LCH	-14.082	8	PASS
	MCH	-15.332	8	PASS
	HCH	-14.777	8	PASS
11N40SISO	LCH	-18.573	8	PASS
	MCH	-18.385	8	PASS
	HCH	-18.537	8	PASS

Test Graphs_Ant0

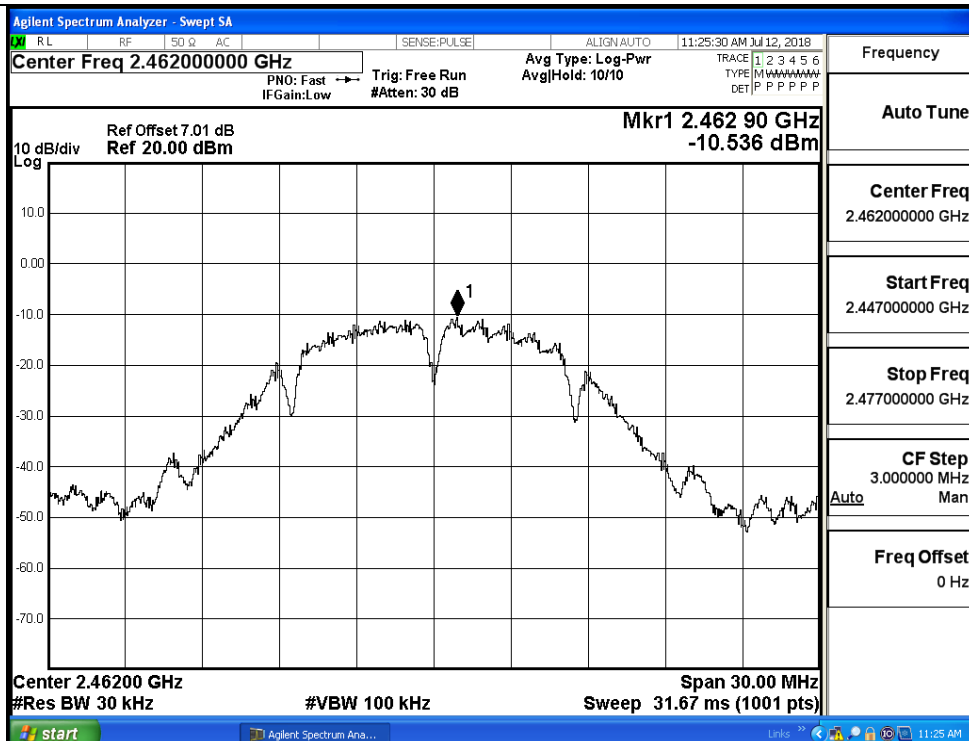
11B/LCH



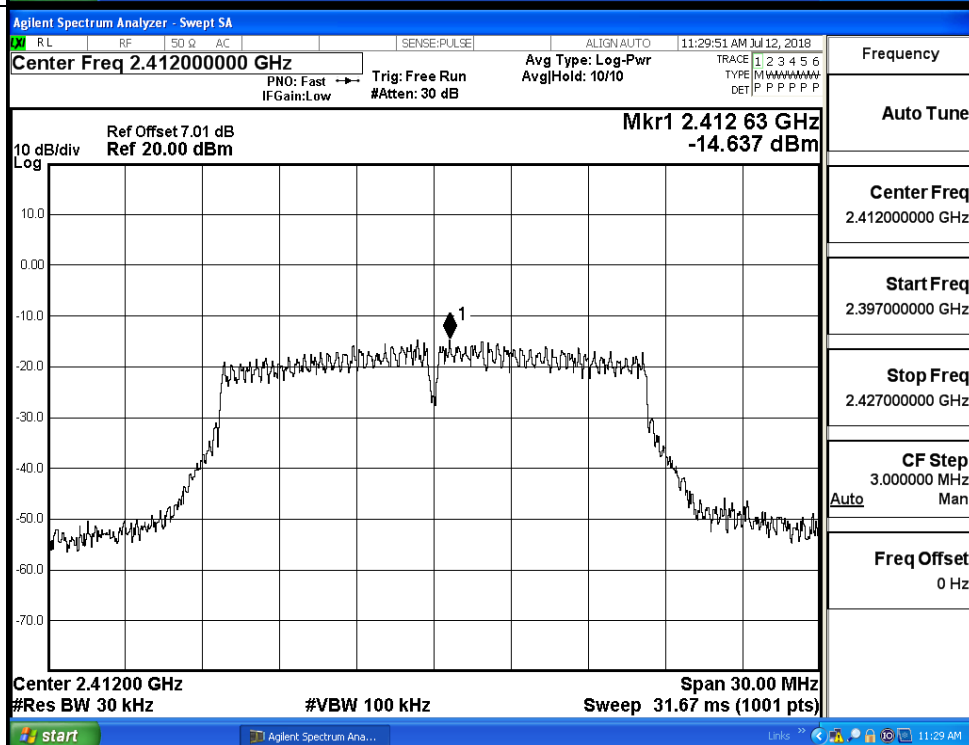
11B/MCH



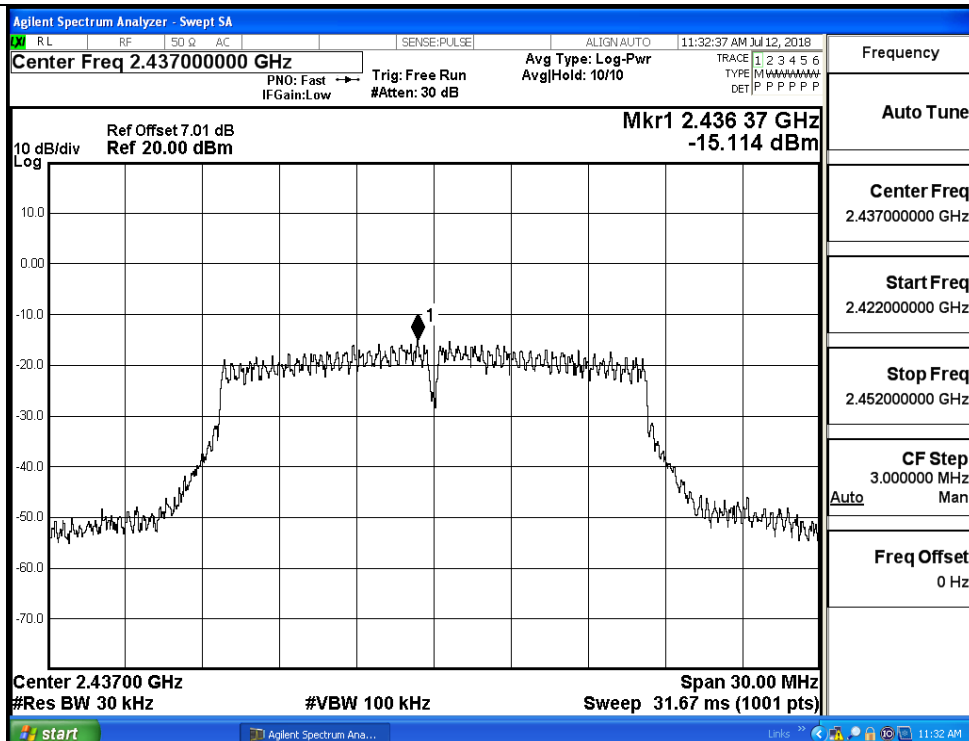
11B/HCH



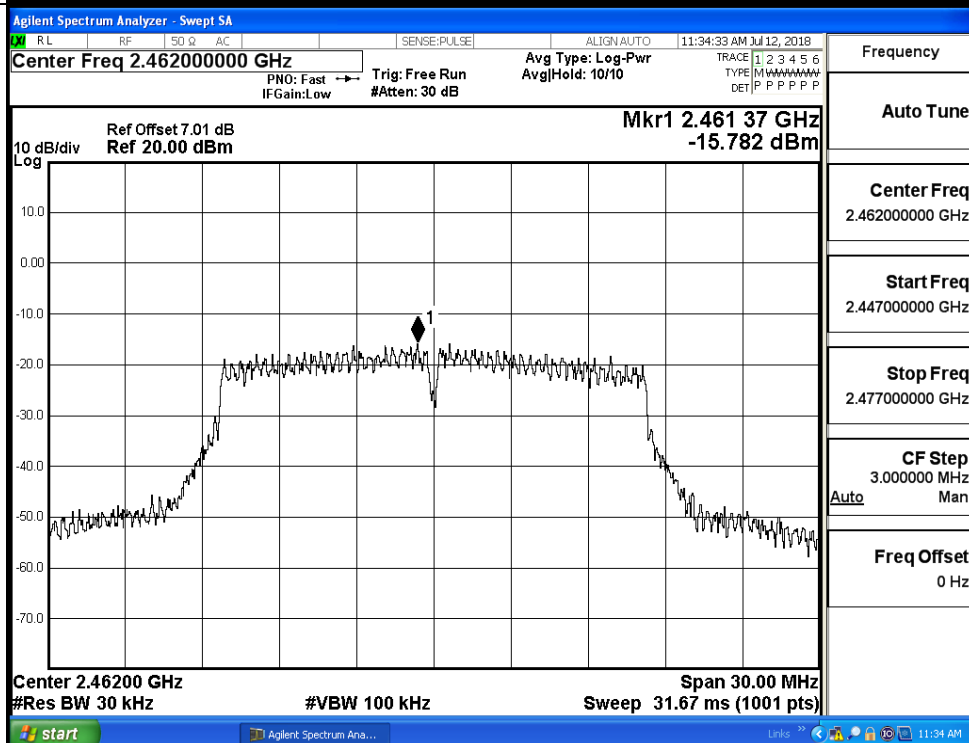
11G/LCH



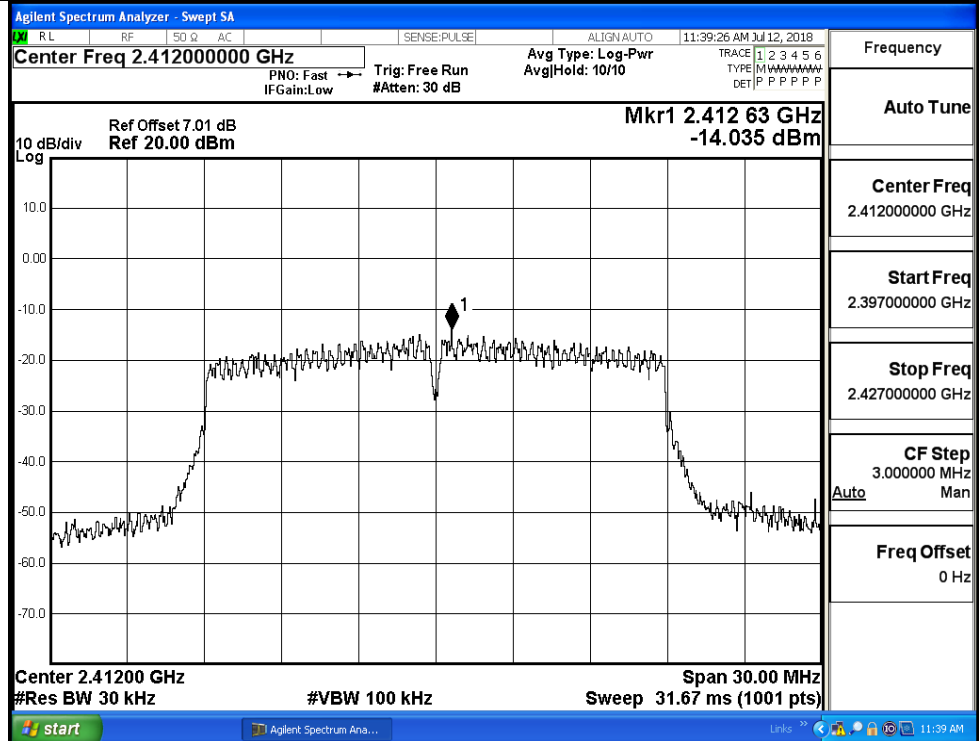
11G/MCH



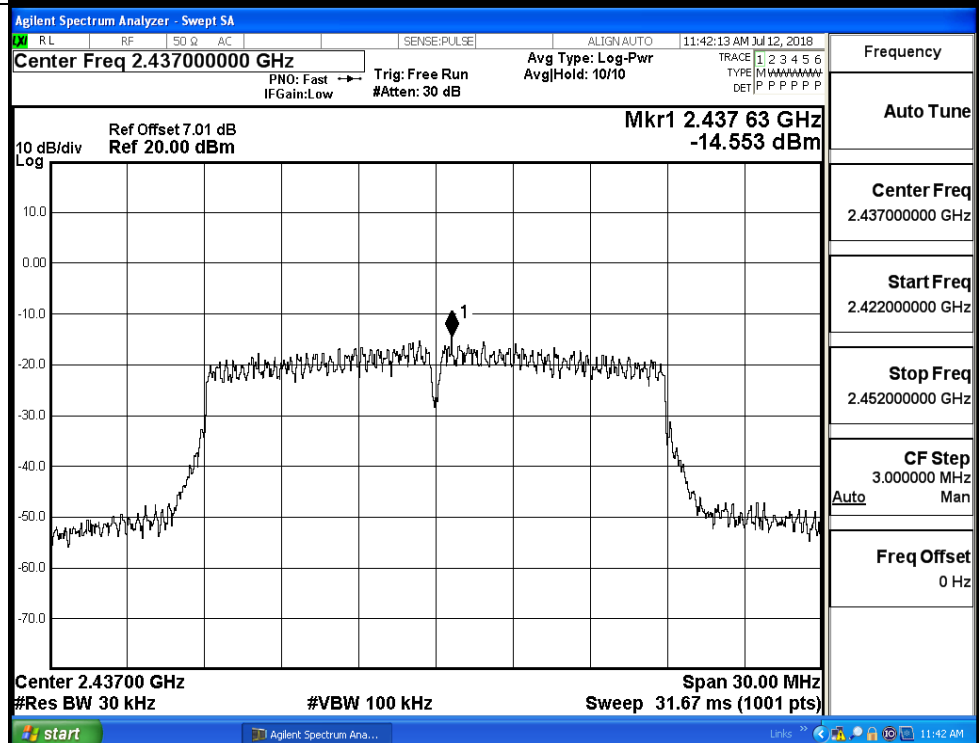
11G/HCH



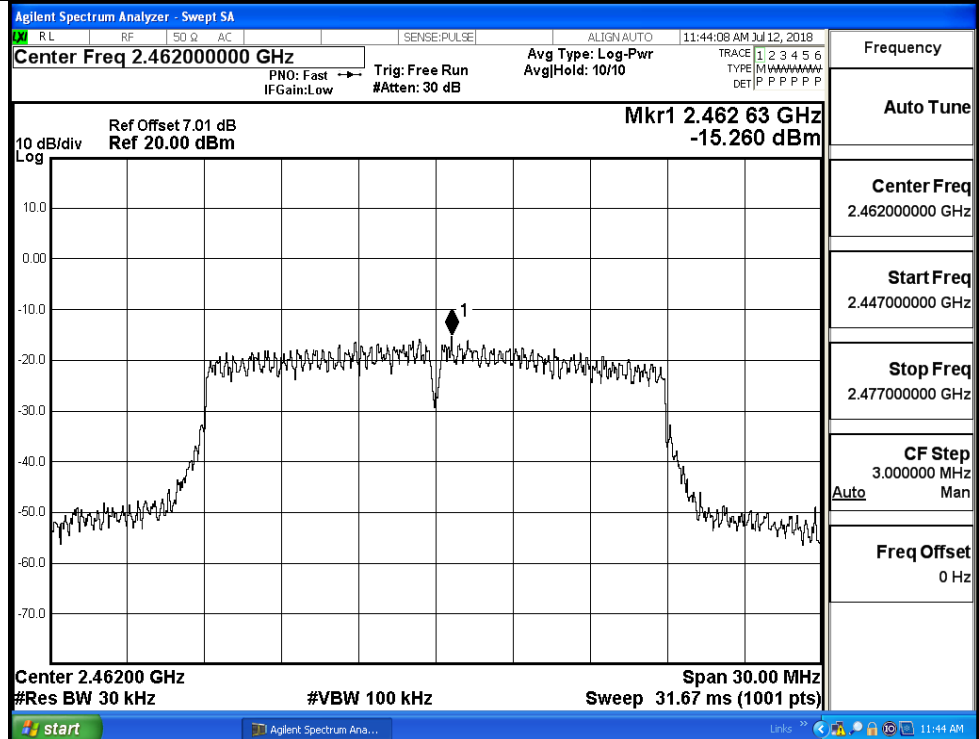
11N20SISO/LCH



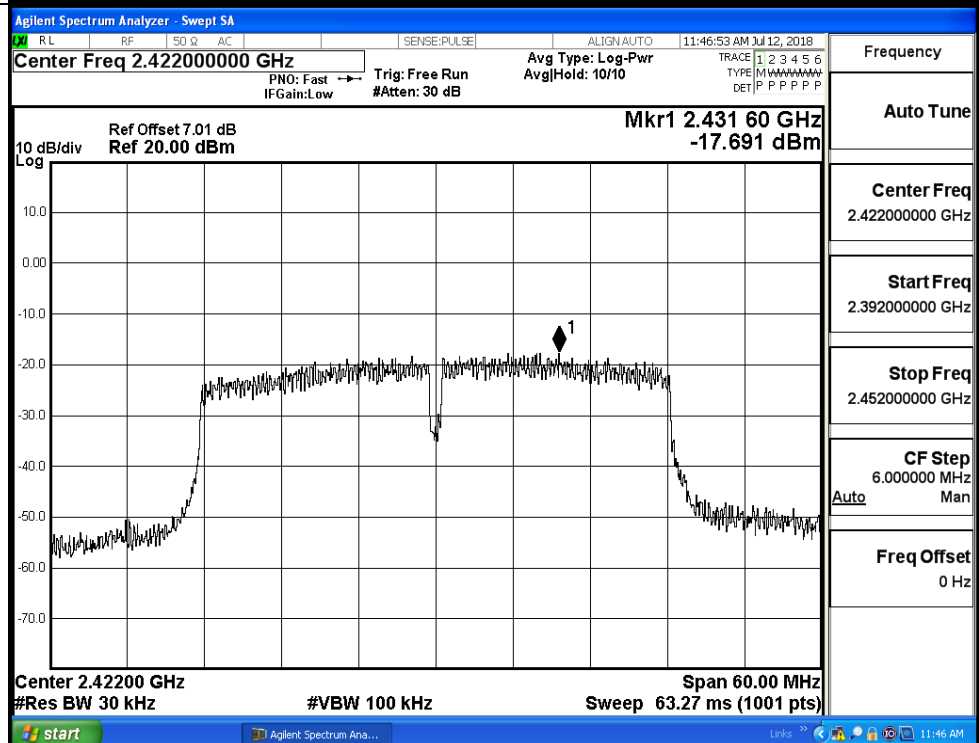
11N20SISO/MCH



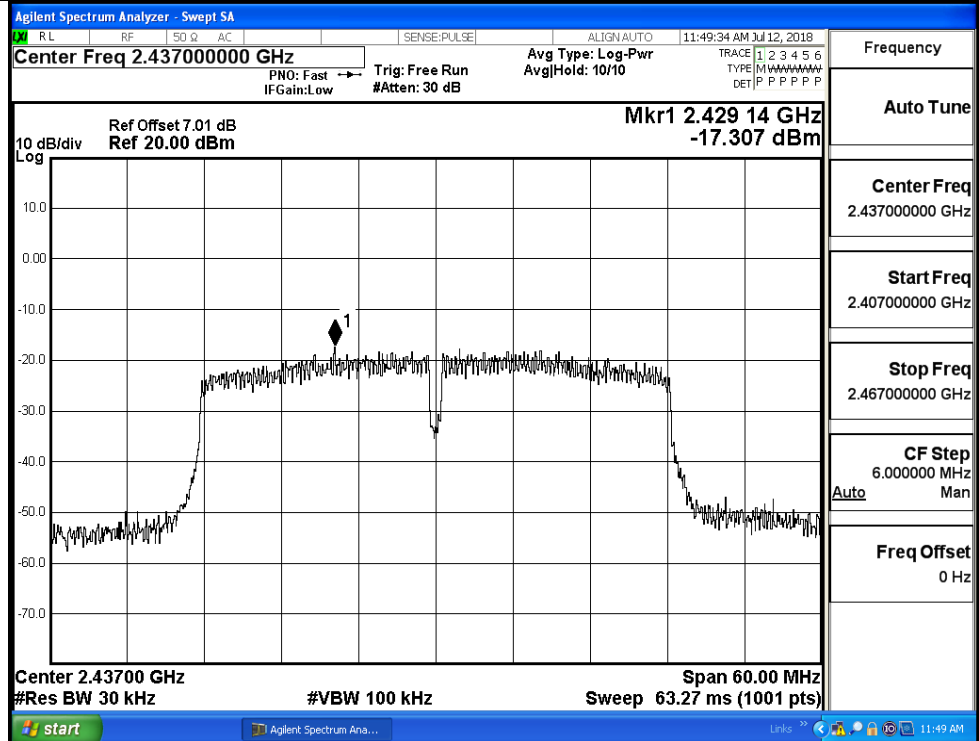
11N20SISO/HCH



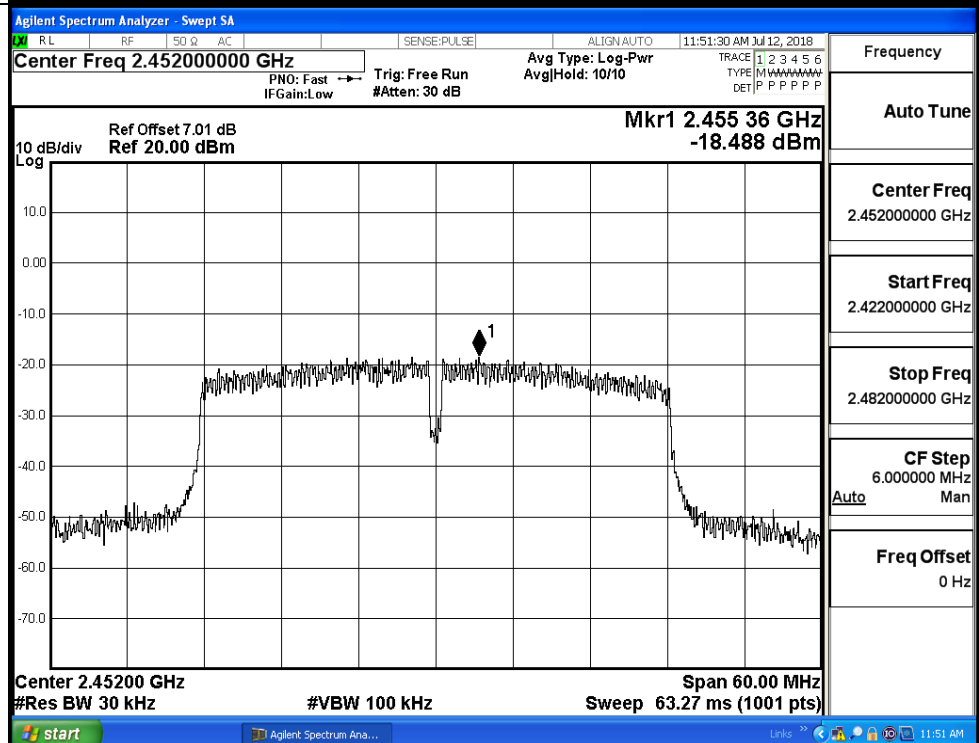
11N40SISO/LCH



11N40SISO/MCH

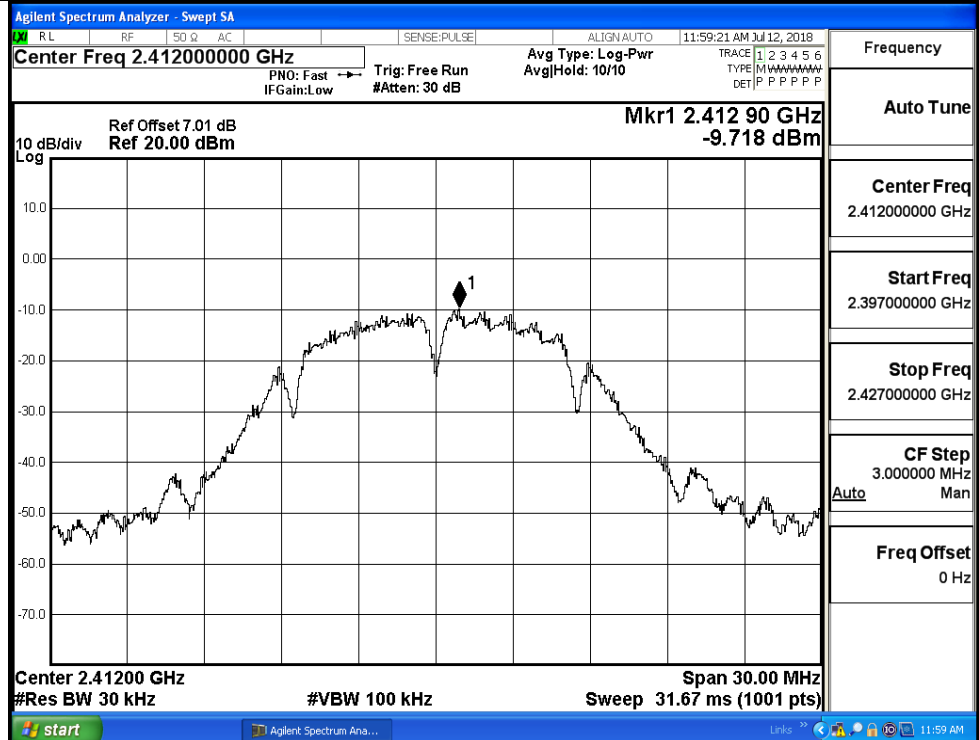


11N40SISO/HCH



Test Graphs_Ant1

11B/LCH



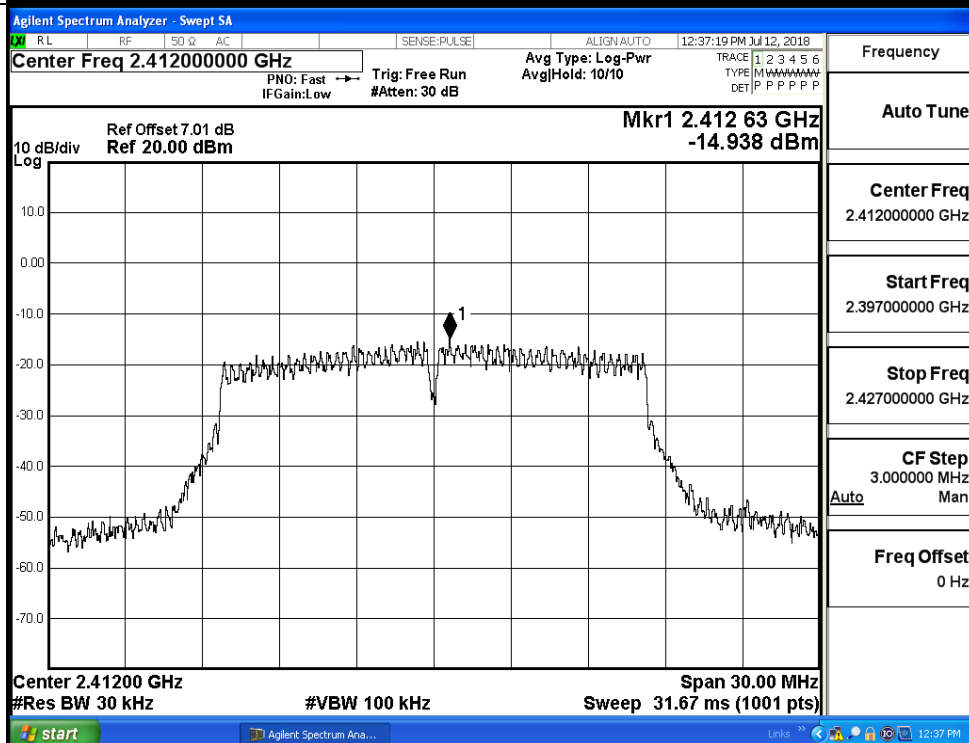
11B/MCH



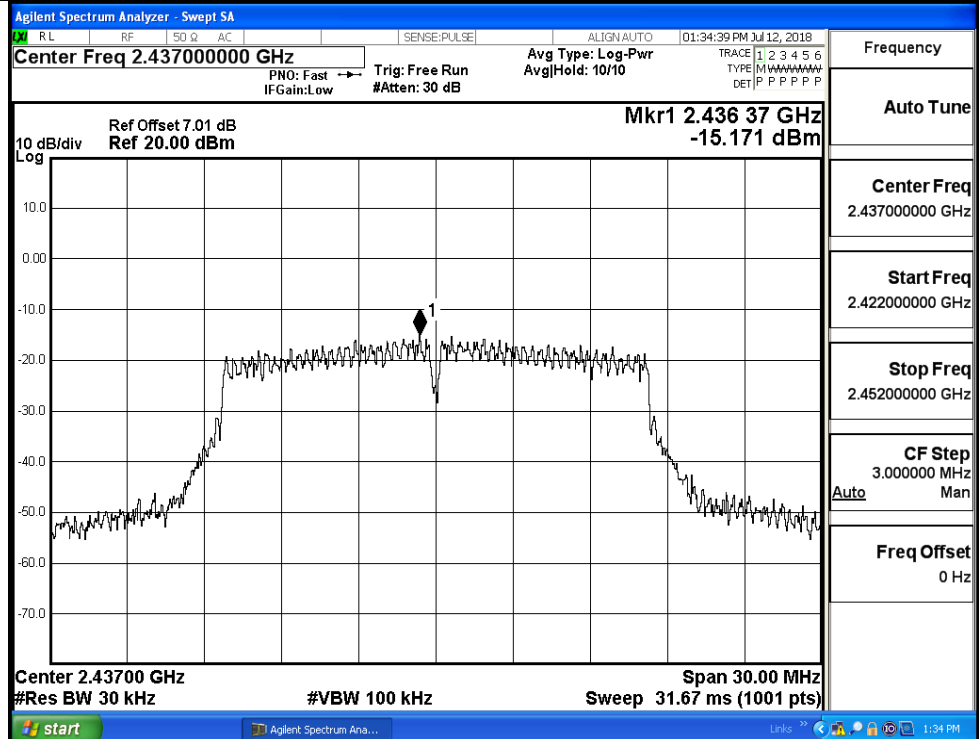
11B/HCH



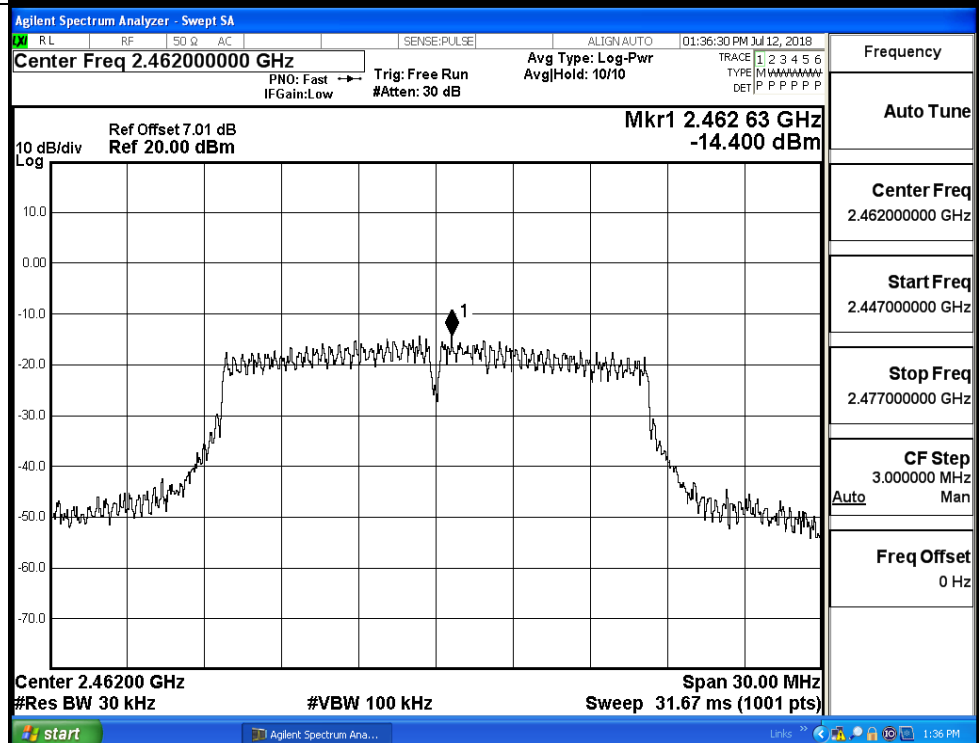
11G/LCH



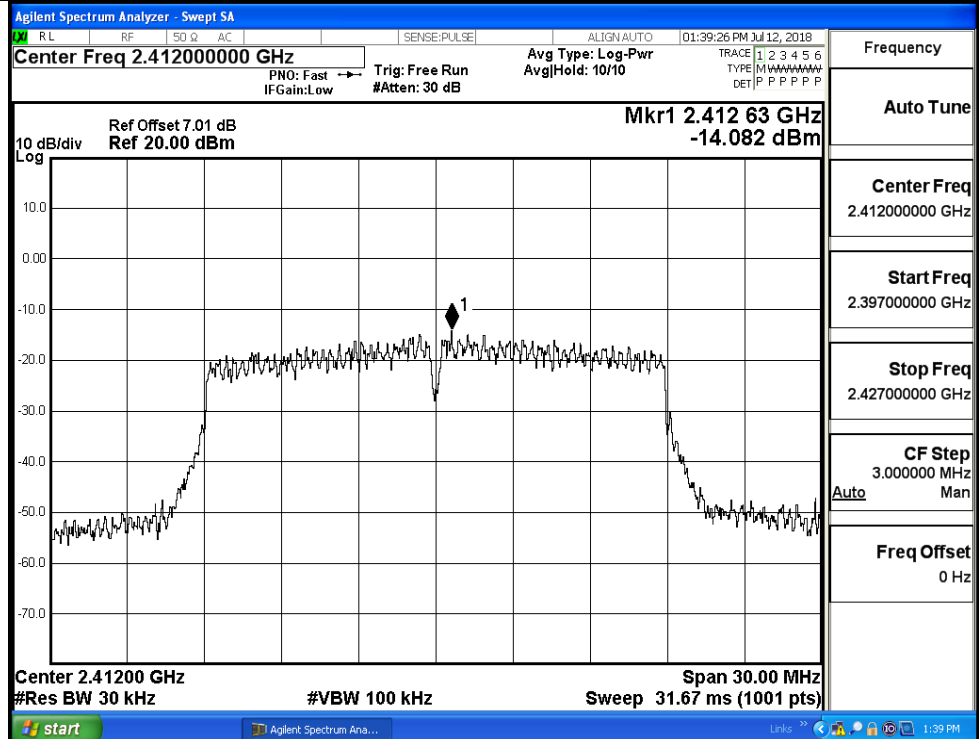
11G/MCH



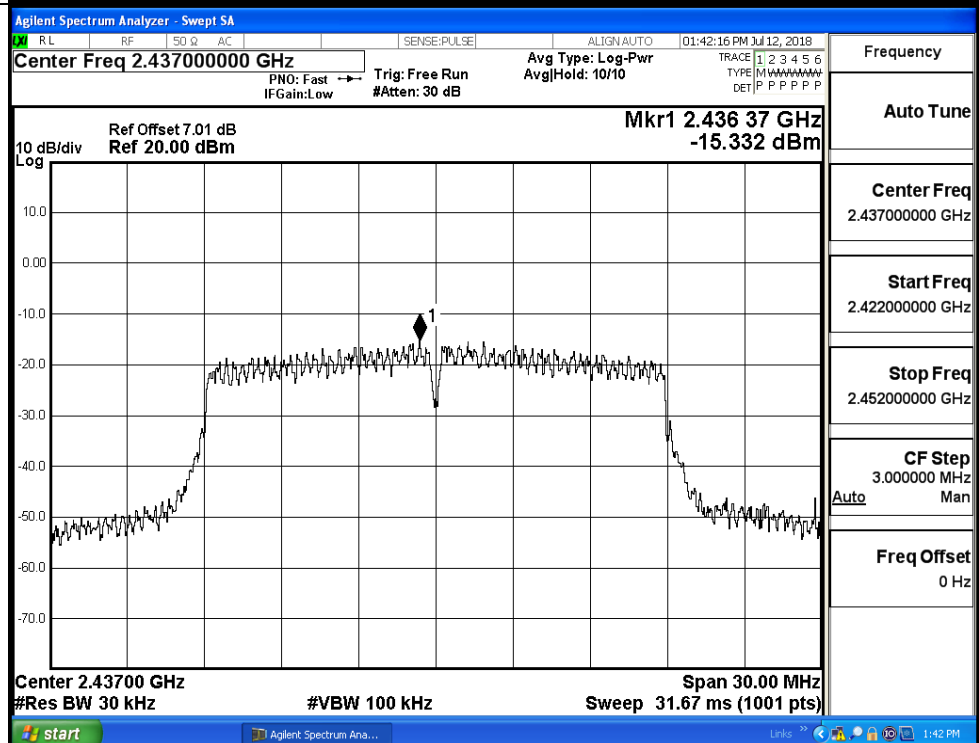
11G/HCH



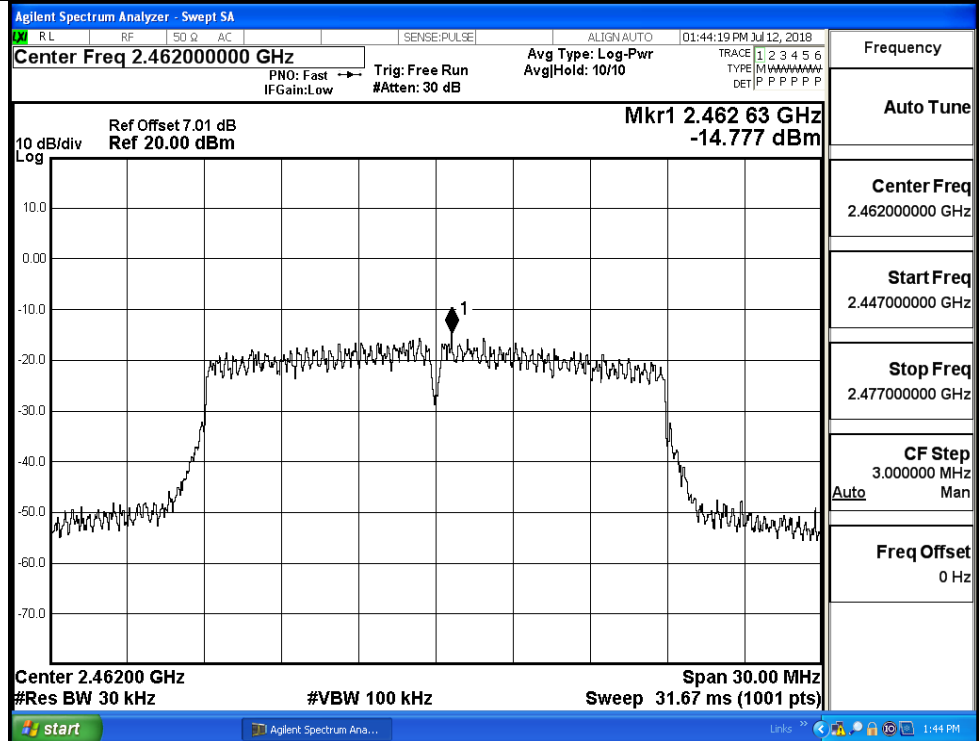
11N20SISO/LCH



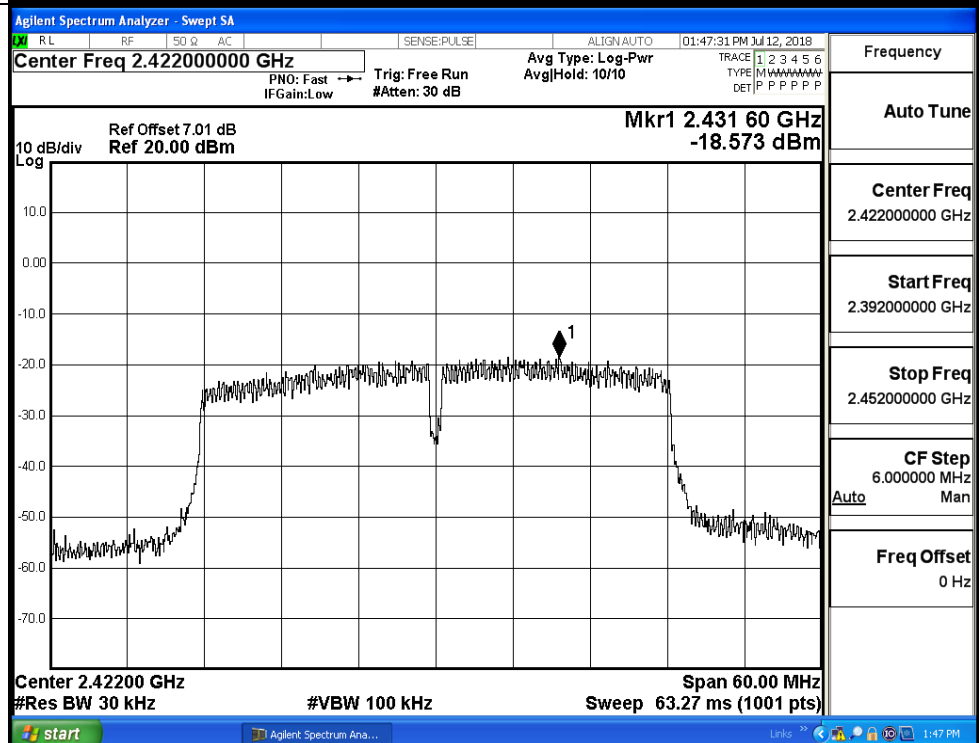
11N20SISO/MCH



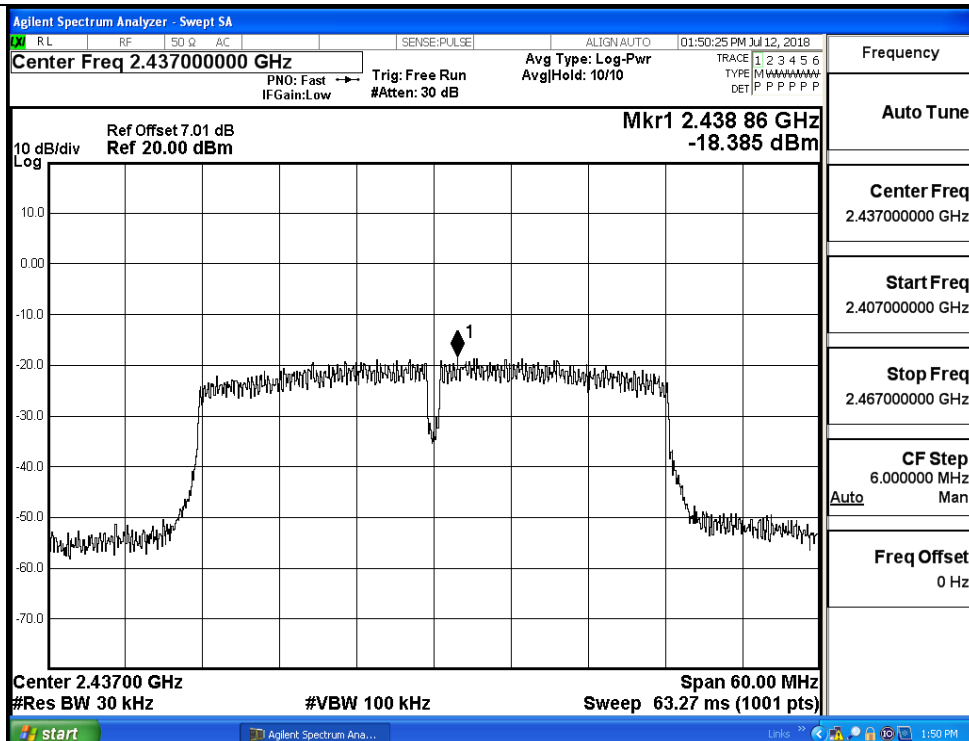
11N20SISO/HCH



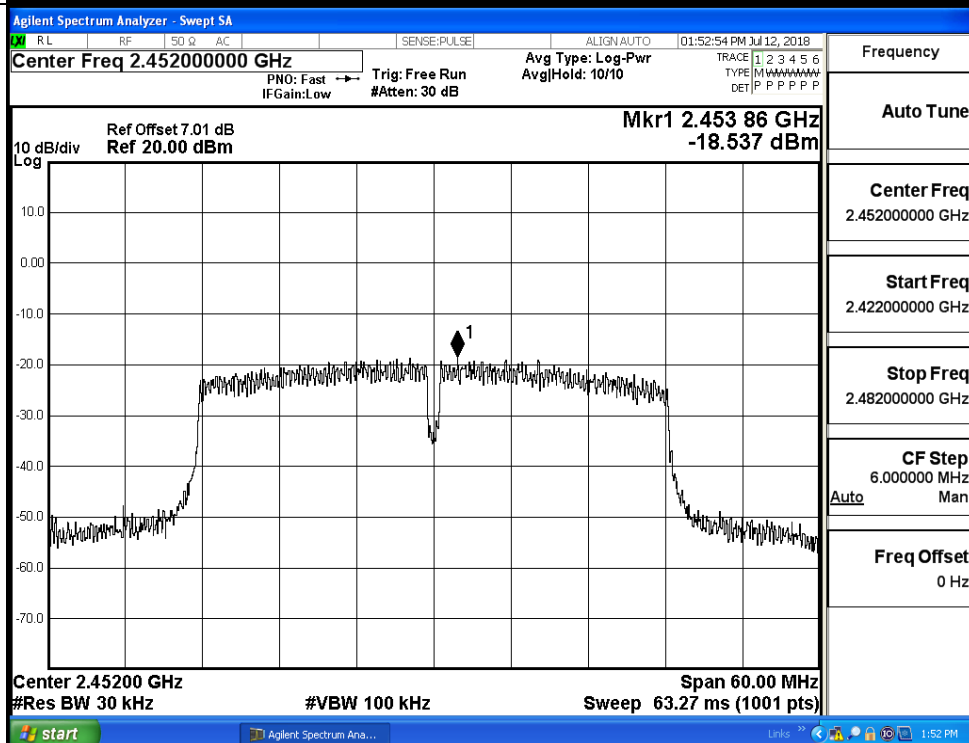
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



C.4 6dB Bandwidth

Antenna 0

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.155	≥ 0.5	PASS
	MCH	9.162	≥ 0.5	PASS
	HCH	9.535	≥ 0.5	PASS
11G	LCH	16.43	≥ 0.5	PASS
	MCH	16.40	≥ 0.5	PASS
	HCH	16.40	≥ 0.5	PASS
11N20SISO	LCH	17.64	≥ 0.5	PASS
	MCH	17.63	≥ 0.5	PASS
	HCH	17.61	≥ 0.5	PASS
11N40SISO	LCH	35.98	≥ 0.5	PASS
	MCH	36.09	≥ 0.5	PASS
	HCH	36.34	≥ 0.5	PASS

Antenna 1

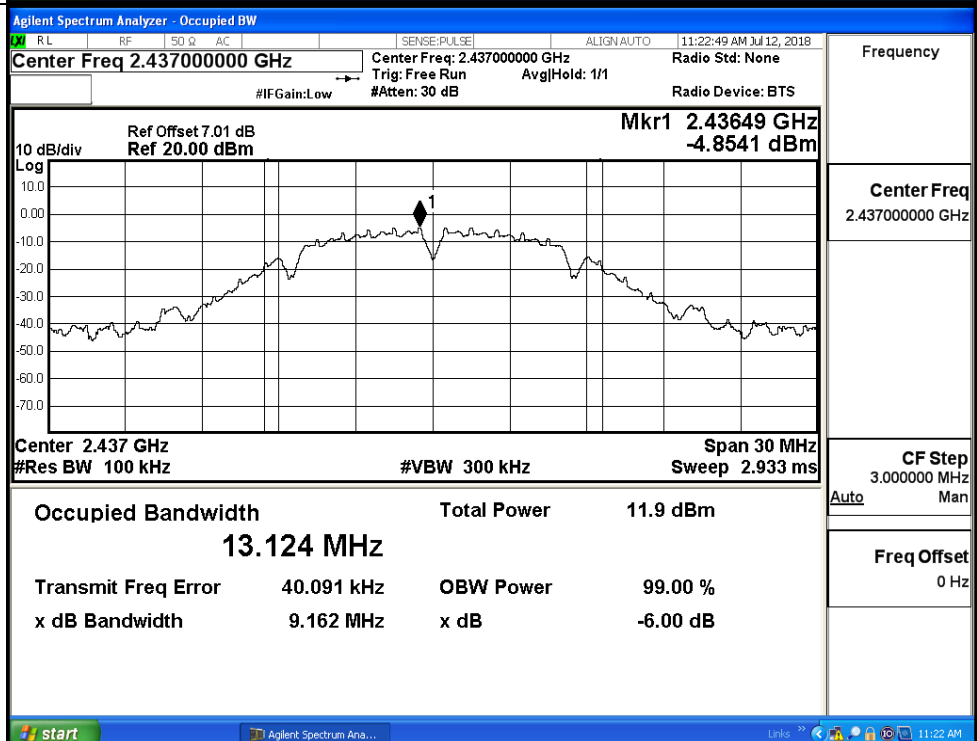
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.153	≥ 0.5	PASS
	MCH	9.161	≥ 0.5	PASS
	HCH	9.527	≥ 0.5	PASS
11G	LCH	16.41	≥ 0.5	PASS
	MCH	16.41	≥ 0.5	PASS
	HCH	16.38	≥ 0.5	PASS
11N20SISO	LCH	17.62	≥ 0.5	PASS
	MCH	17.62	≥ 0.5	PASS
	HCH	17.59	≥ 0.5	PASS
11N40SISO	LCH	35.97	≥ 0.5	PASS
	MCH	36.20	≥ 0.5	PASS
	HCH	36.12	≥ 0.5	PASS

Test Graphs_Ant0

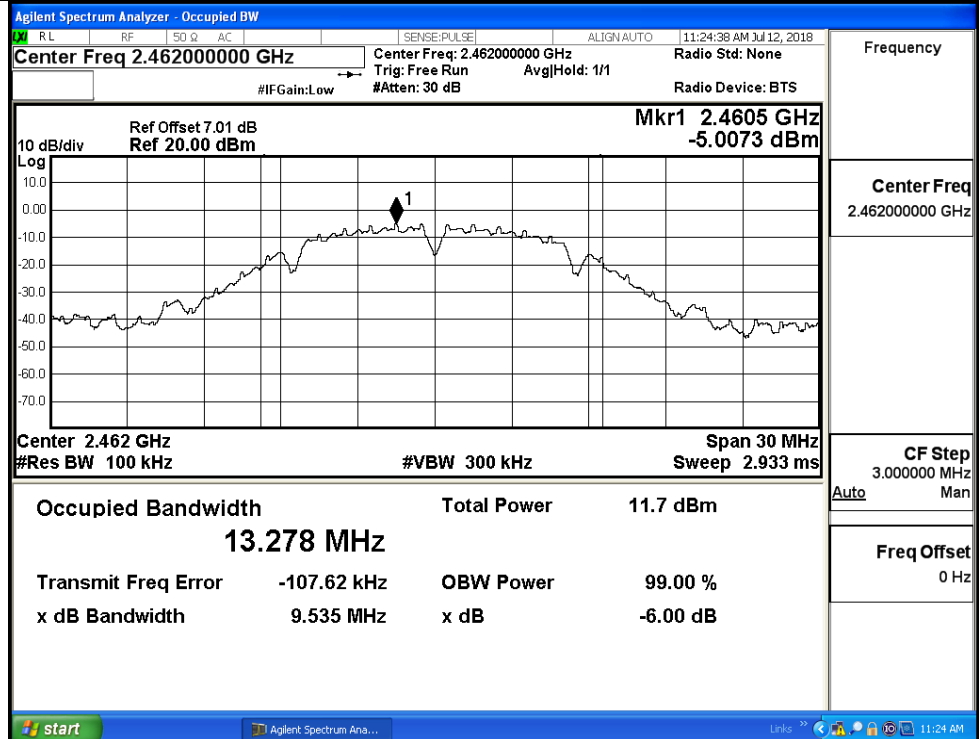
11B/LCH



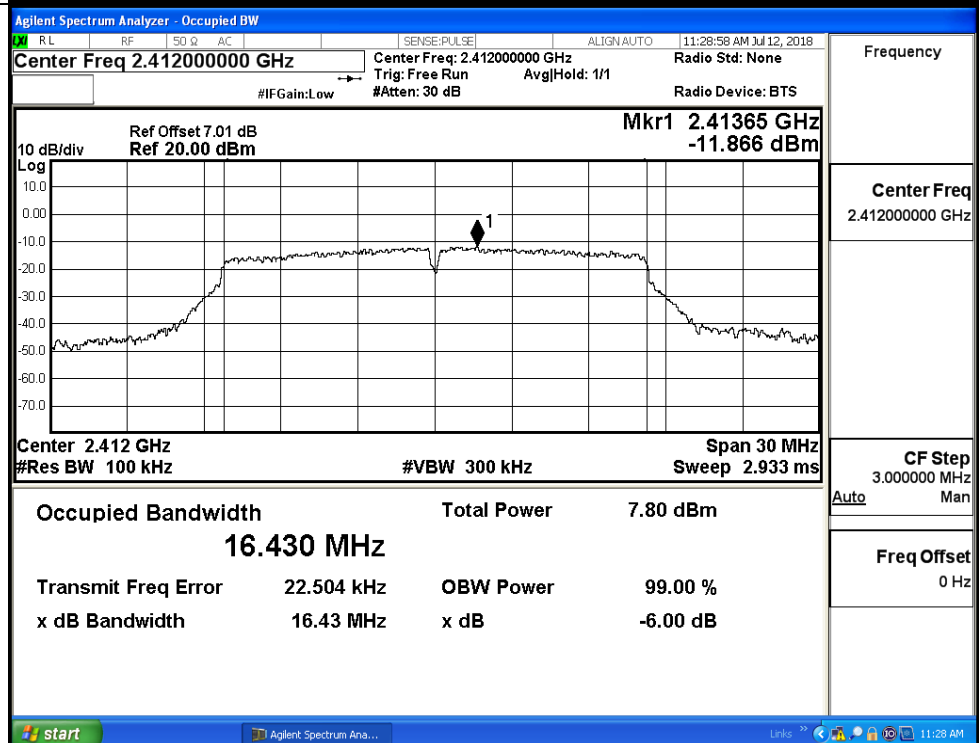
11B/MCH



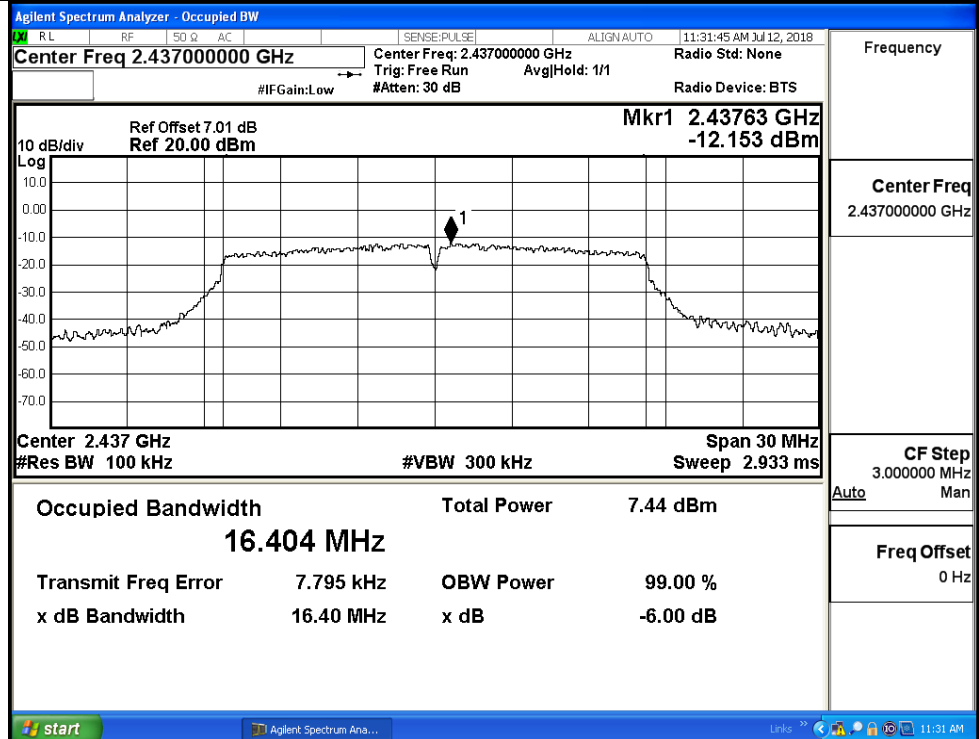
11B/HCH



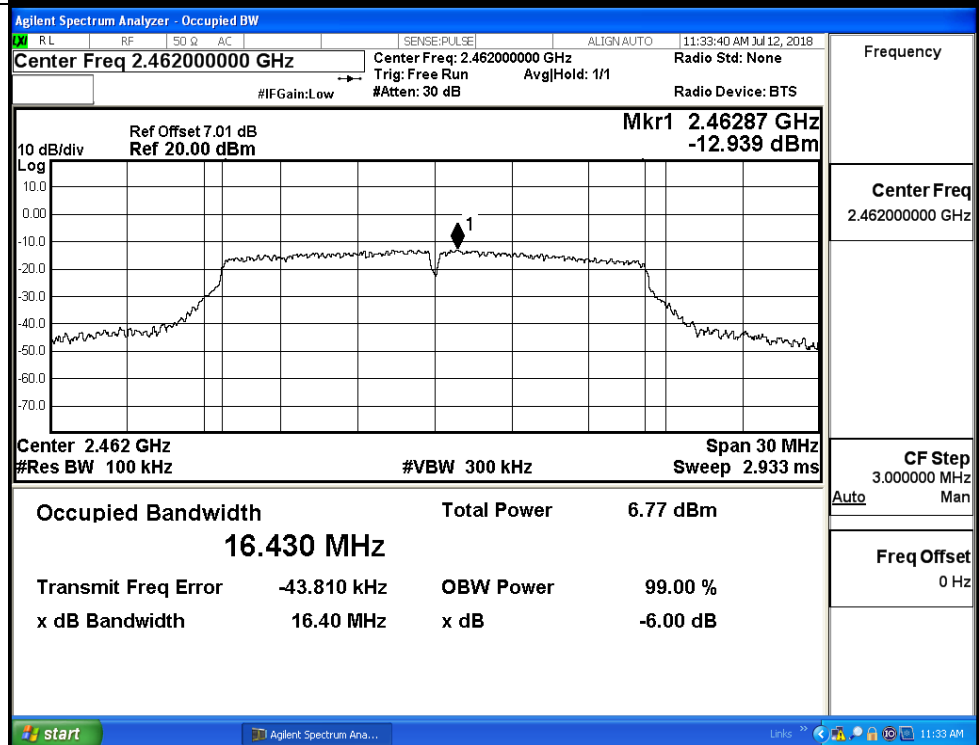
11G/LCH



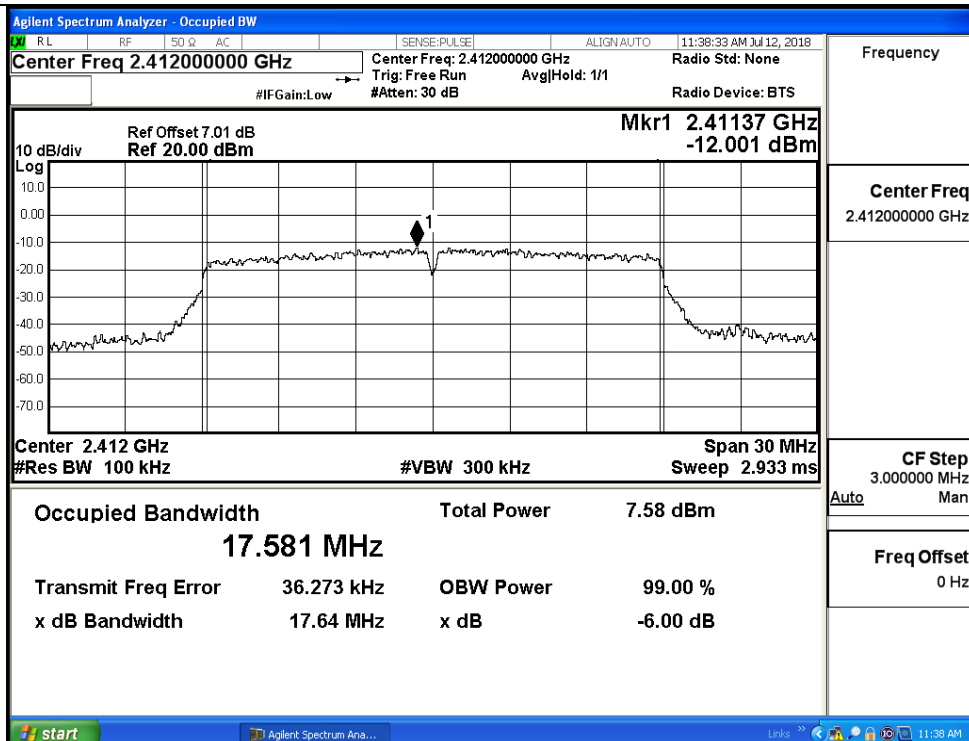
11G/MCH



11G/HCH



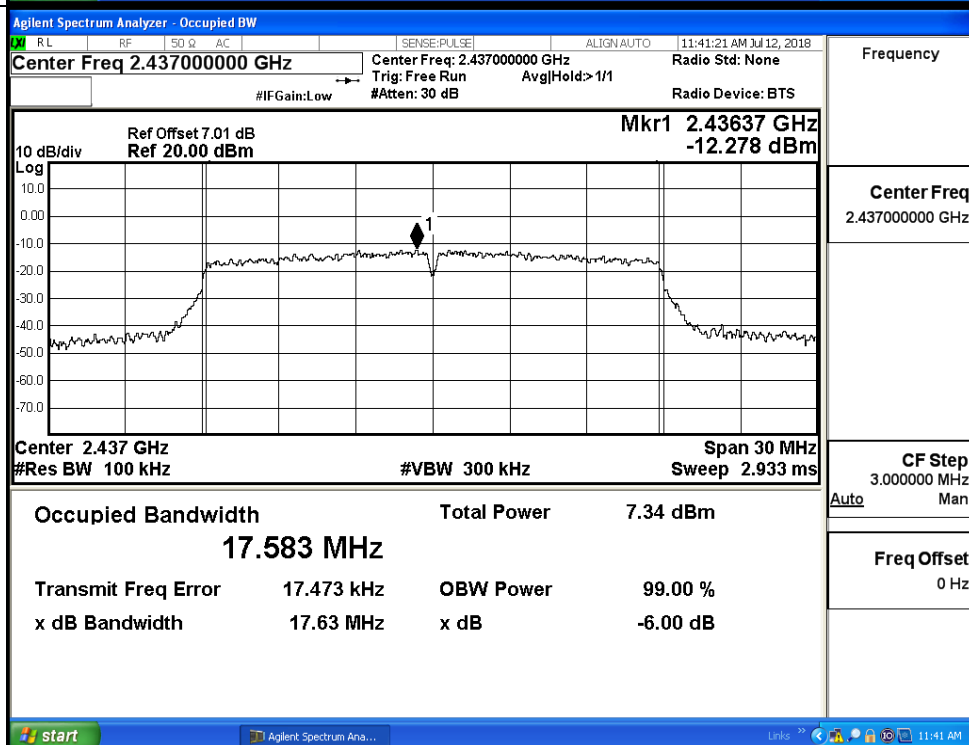
11N20SISO/LCH



Frequency

Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

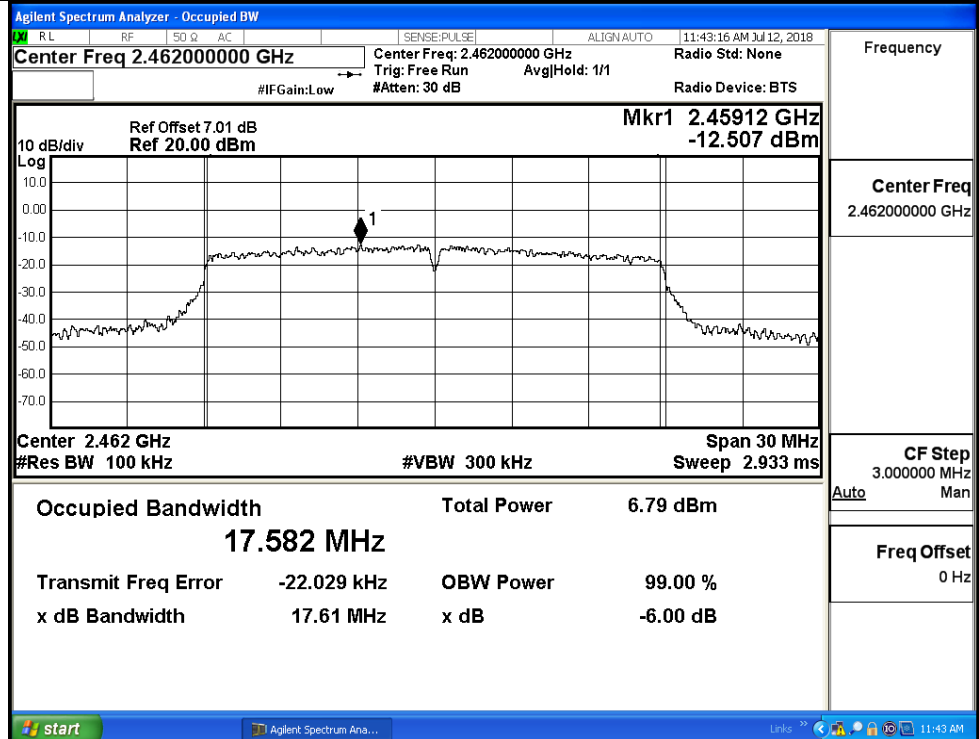
11N20SISO/MCH



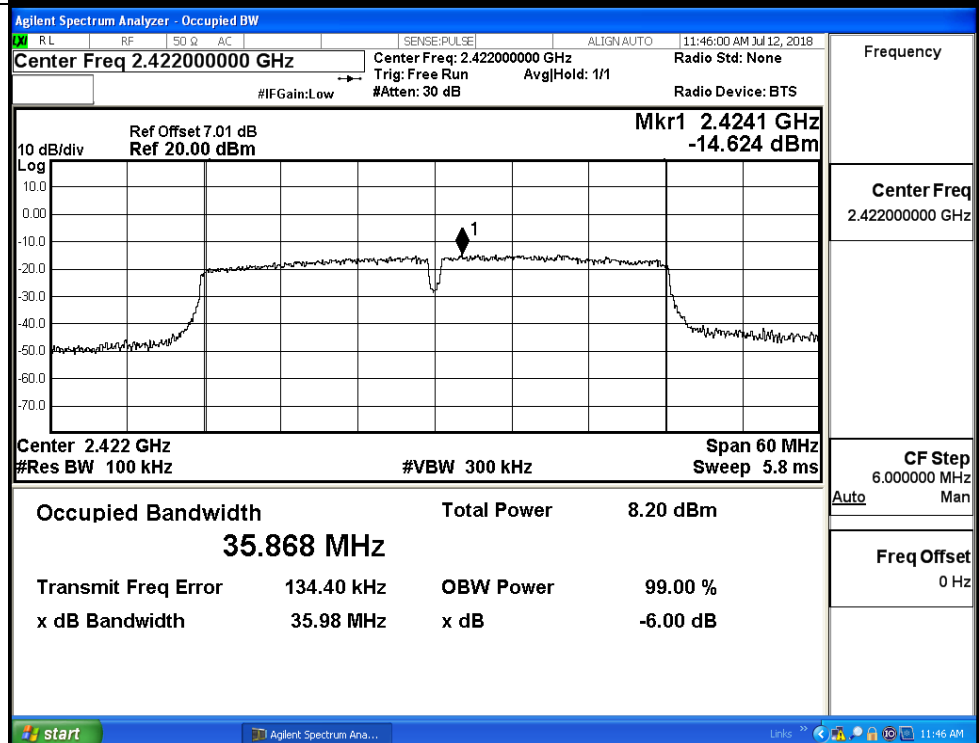
Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

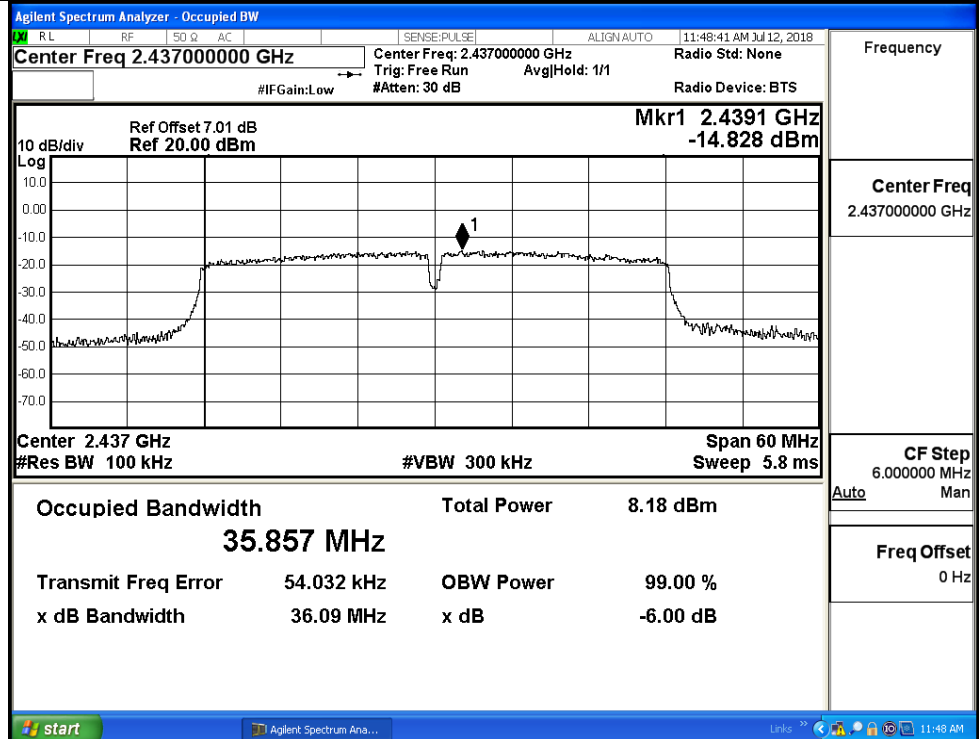
11N20SISO/HCH



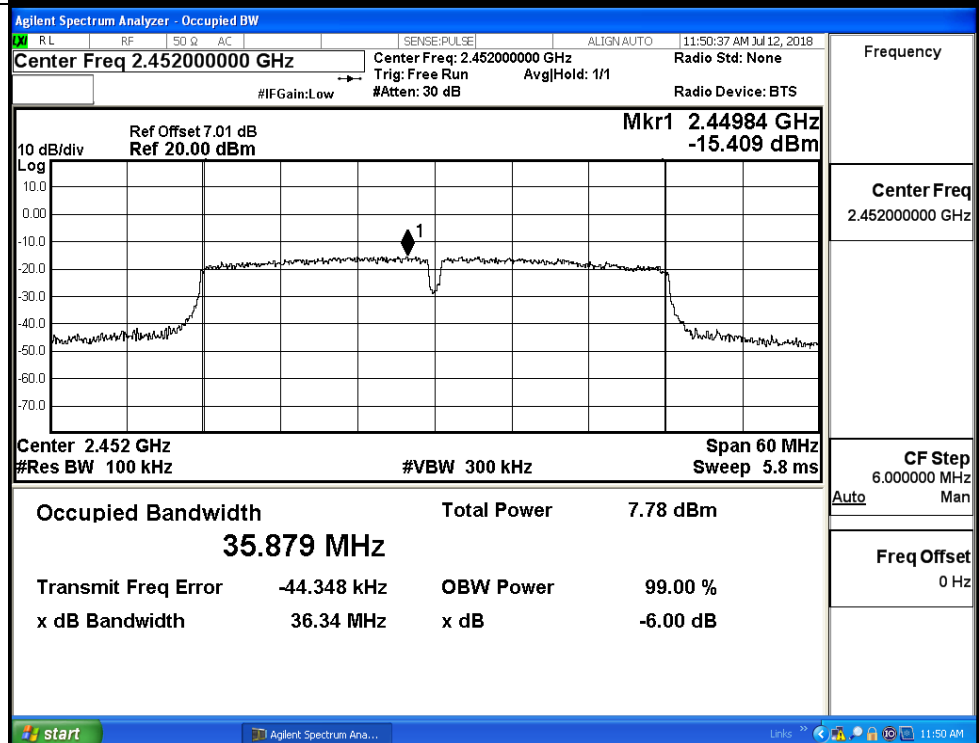
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

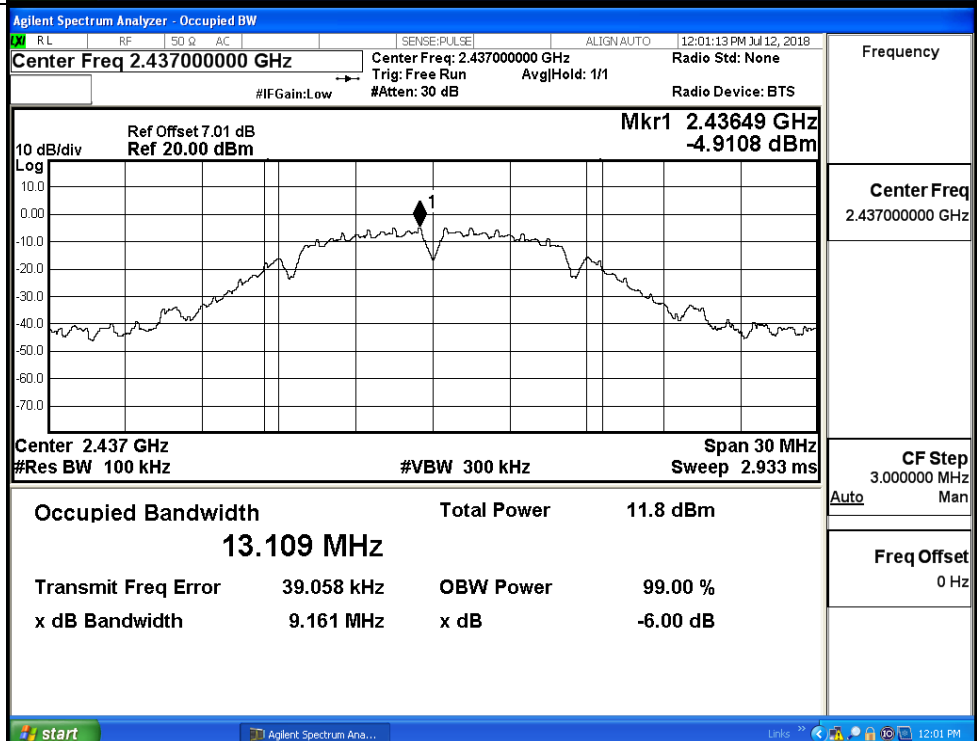


Test Graphs_Ant1

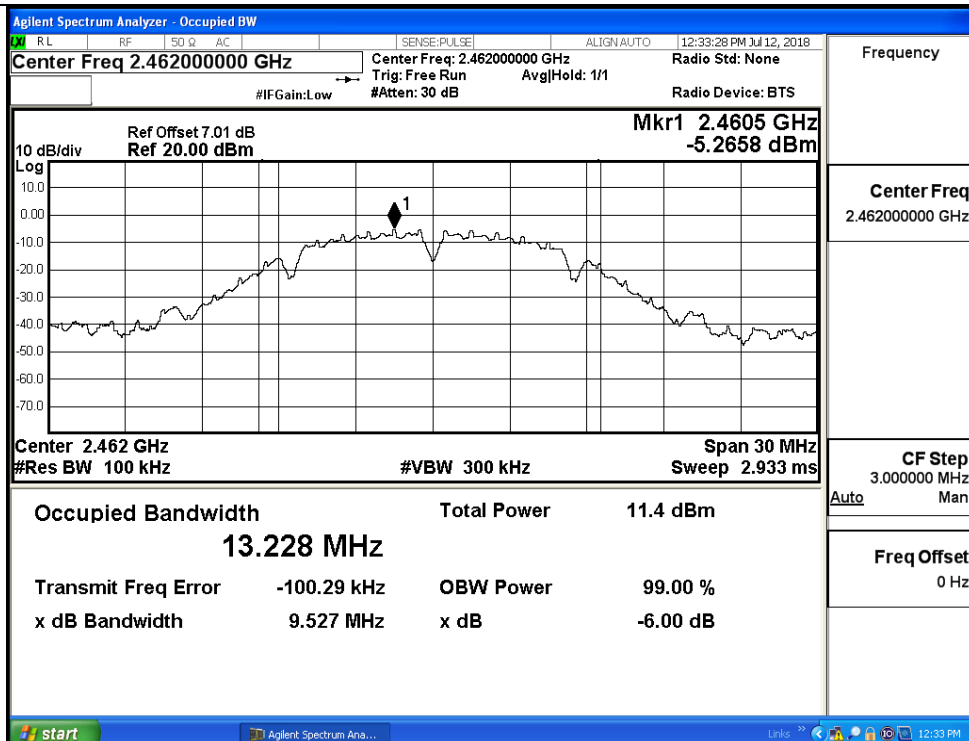
11B/LCH



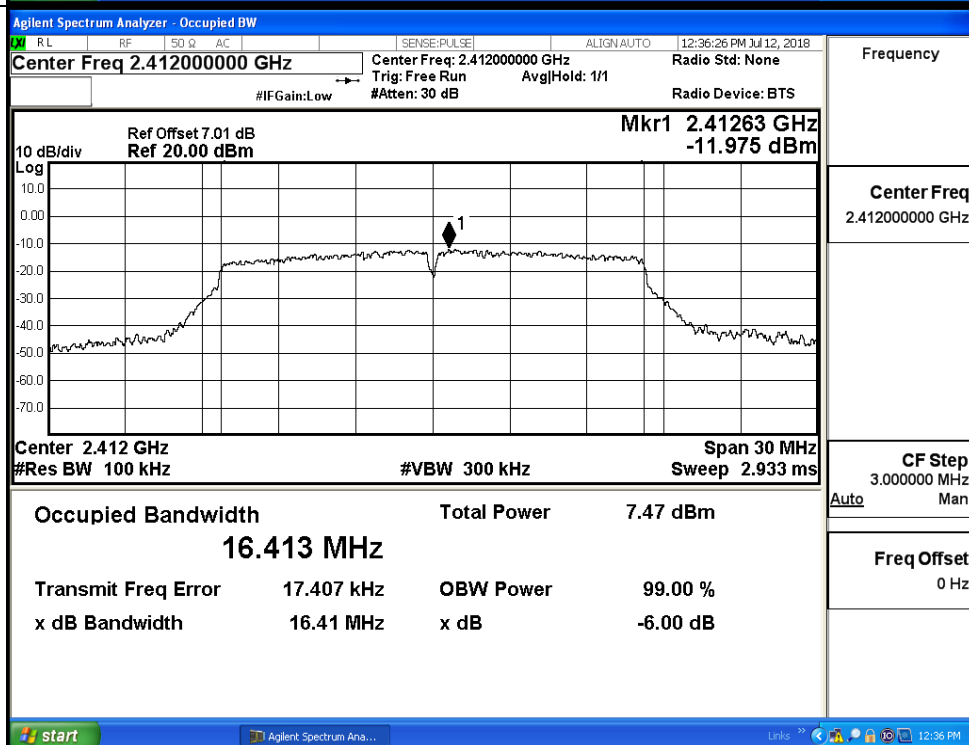
11B/MCH



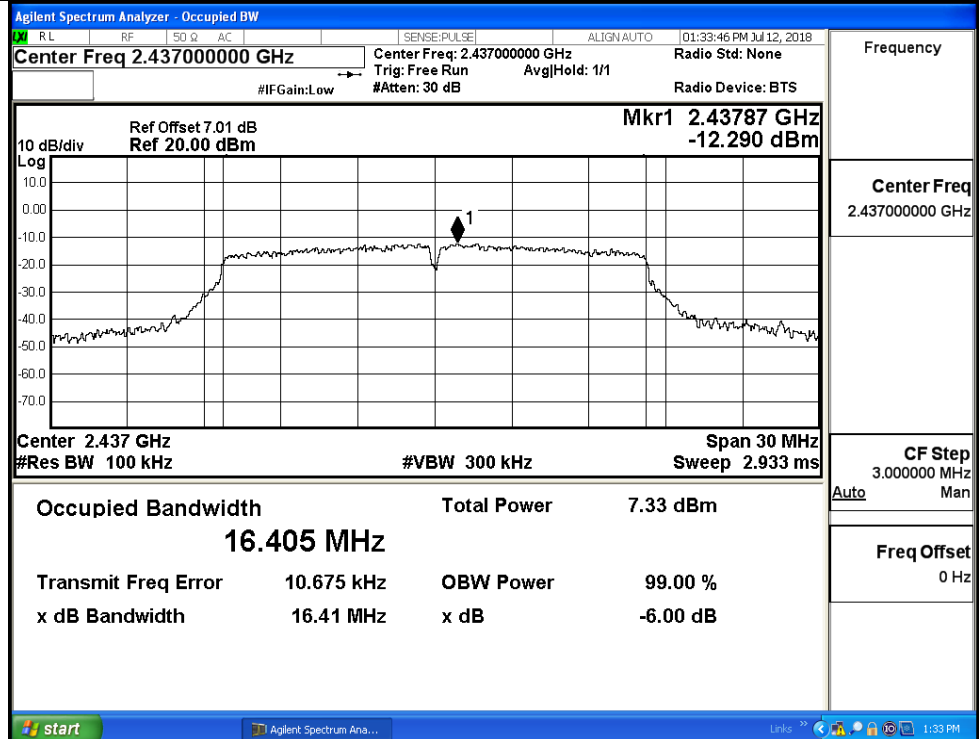
11B/HCH



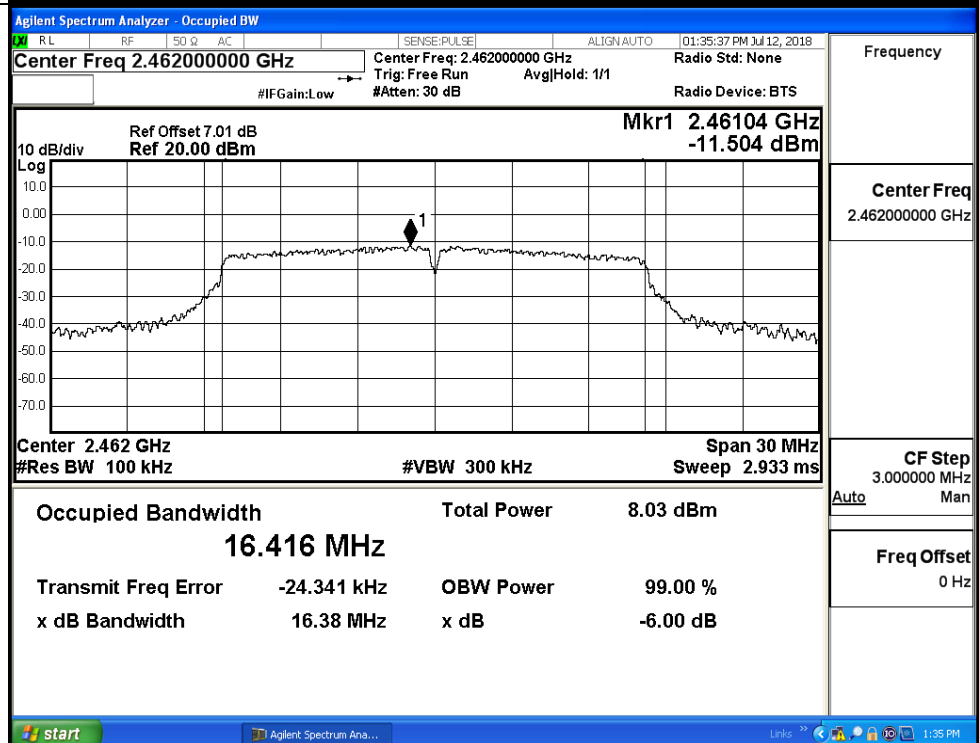
11G/LCH



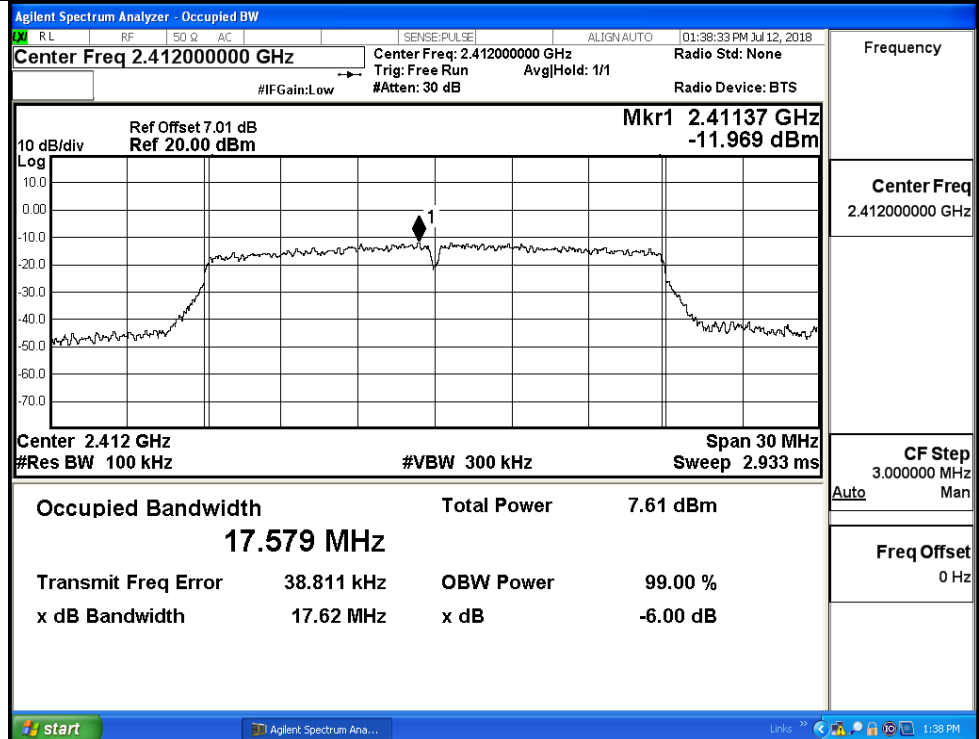
11G/MCH



11G/HCH



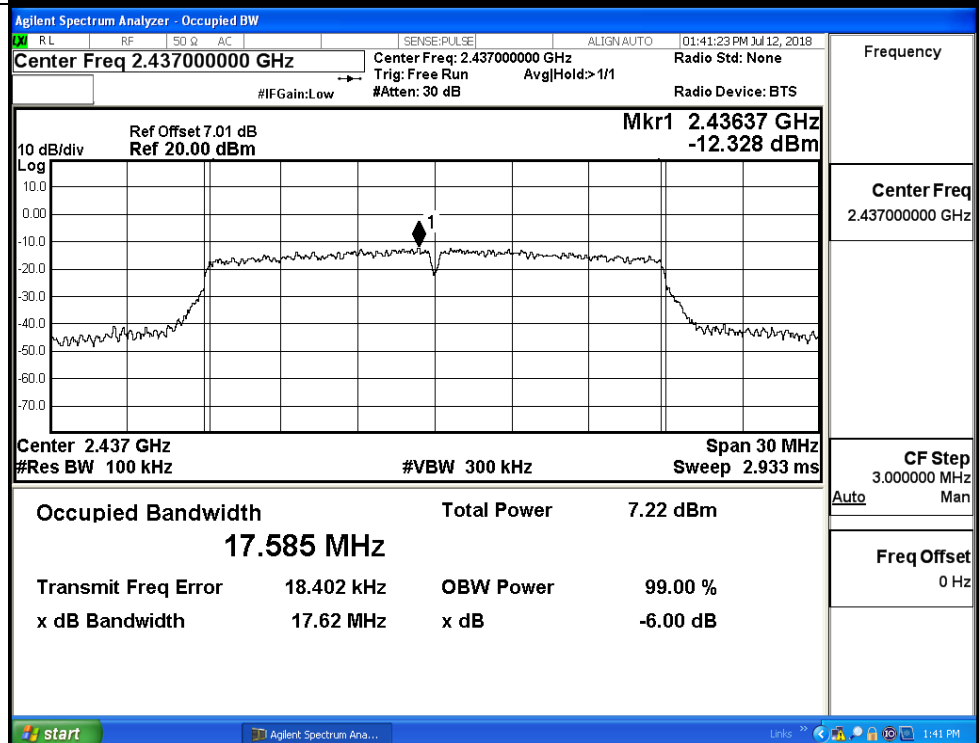
11N20SISO/LCH



Frequency

Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

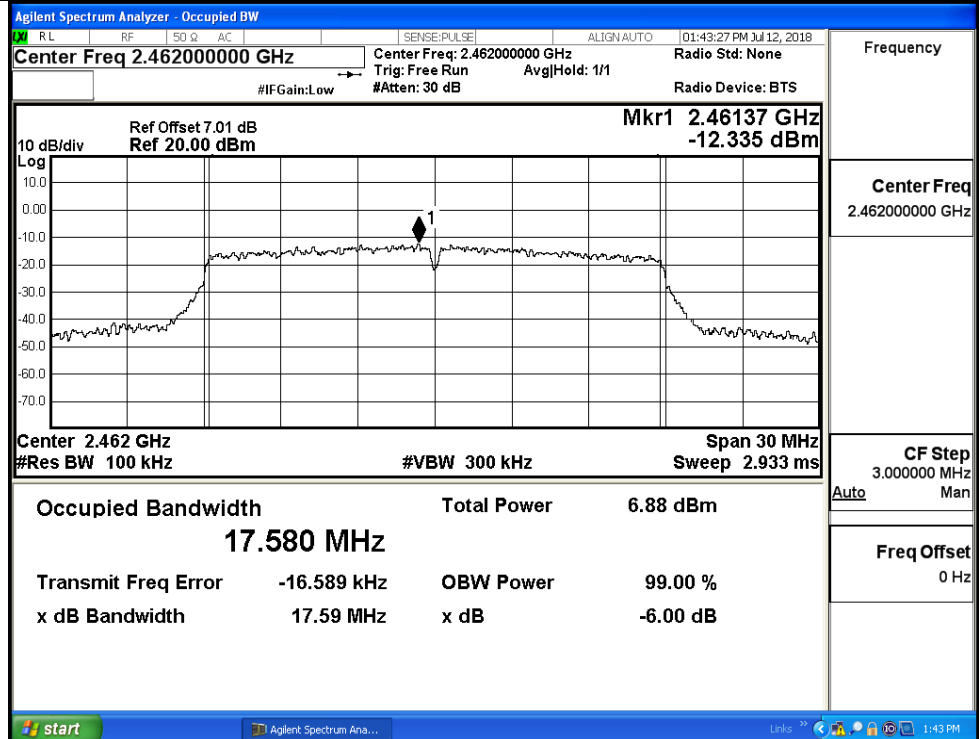
11N20SISO/MCH



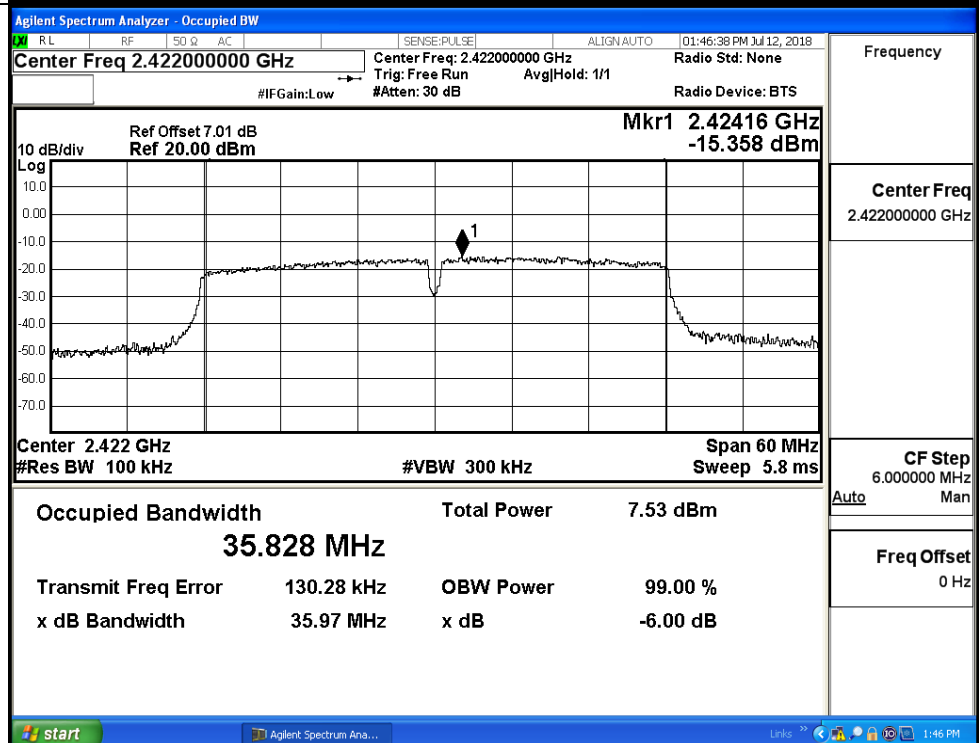
Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/HCH



11N40SISO/LCH



C.5 RF Conducted Spurious Emissions

Antenna 0

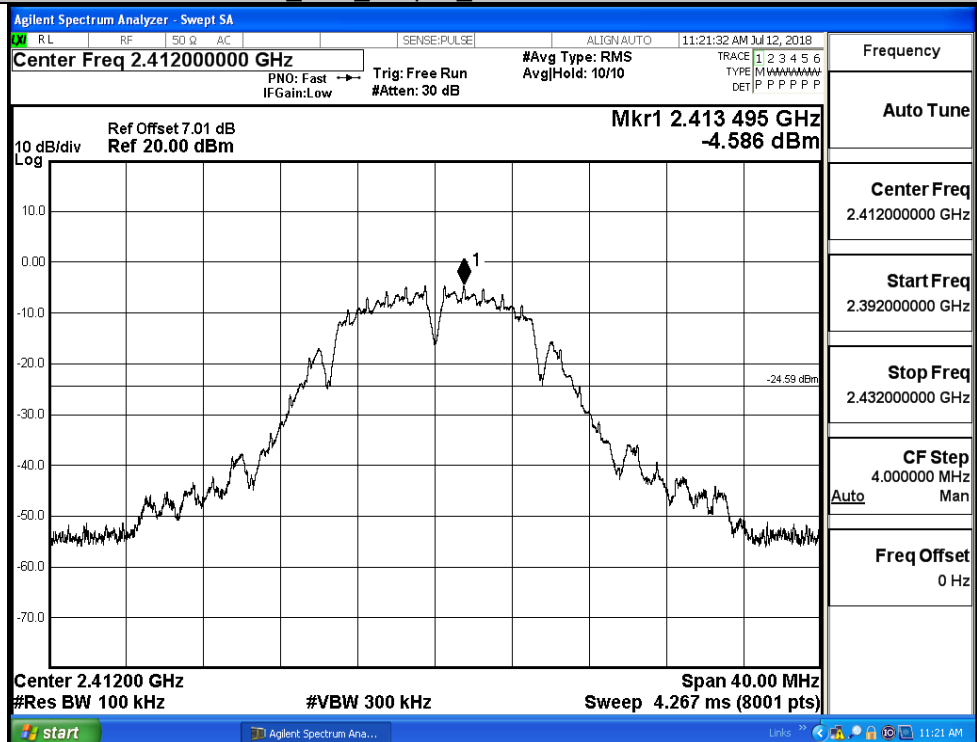
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.586	-43.183	-24.586	PASS
	MCH	-4.954	-36.330	-24.954	PASS
	HCH	-5.069	-45.281	-25.069	PASS
11G	LCH	-11.941	-44.625	-31.941	PASS
	MCH	-12.253	-44.644	-32.253	PASS
	HCH	-13.249	-45.818	-33.249	PASS
11N20 SISO	LCH	-11.869	-44.606	-31.869	PASS
	MCH	-12.279	-45.052	-32.279	PASS
	HCH	-13.046	-44.441	-33.046	PASS
11N40 SISO	LCH	-15.026	-44.672	-35.026	PASS
	MCH	-15.027	-45.335	-35.027	PASS
	HCH	-15.568	-44.333	-35.568	PASS

Antenna 1

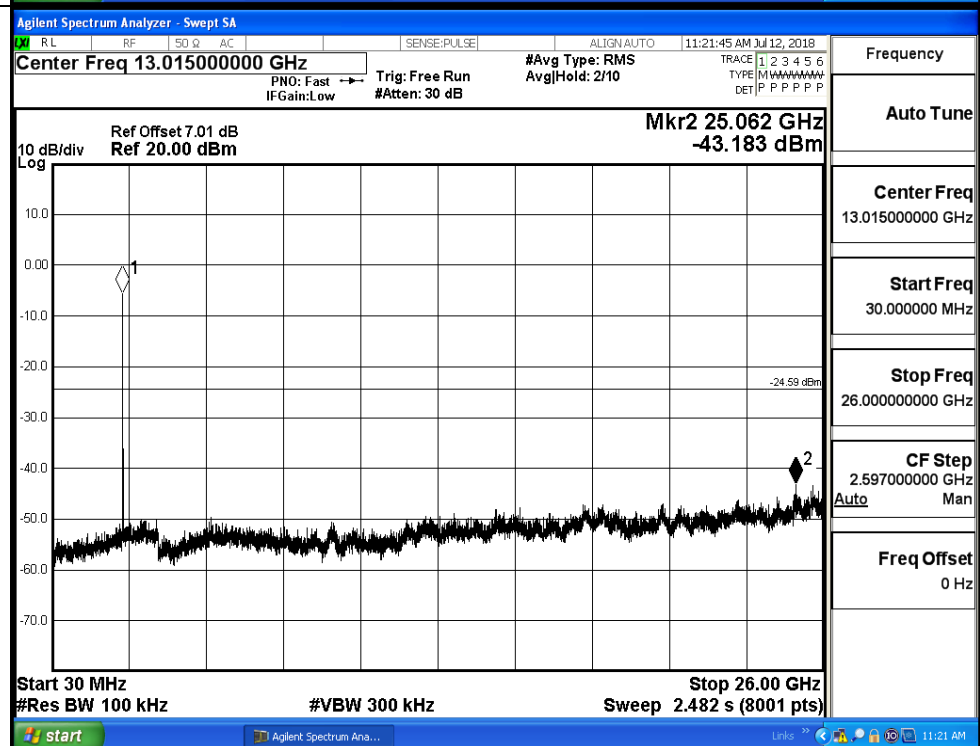
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.587	-45.011	-24.587	PASS
	MCH	-4.951	-44.321	-24.951	PASS
	HCH	-5.431	-44.721	-25.431	PASS
11G	LCH	-12.03	-44.914	-32.030	PASS
	MCH	-12.545	-43.713	-32.545	PASS
	HCH	-11.771	-45.019	-31.771	PASS
11N20 SISO	LCH	-12.231	-44.447	-32.231	PASS
	MCH	-12.439	-43.021	-32.439	PASS
	HCH	-12.868	-43.571	-32.868	PASS
11N40 SISO	LCH	-15.418	-43.968	-35.418	PASS
	MCH	-15.537	-44.415	-35.537	PASS
	HCH	-16.011	-44.541	-36.011	PASS

11B LCH Graphs Ant0

Pref/11B/LCH

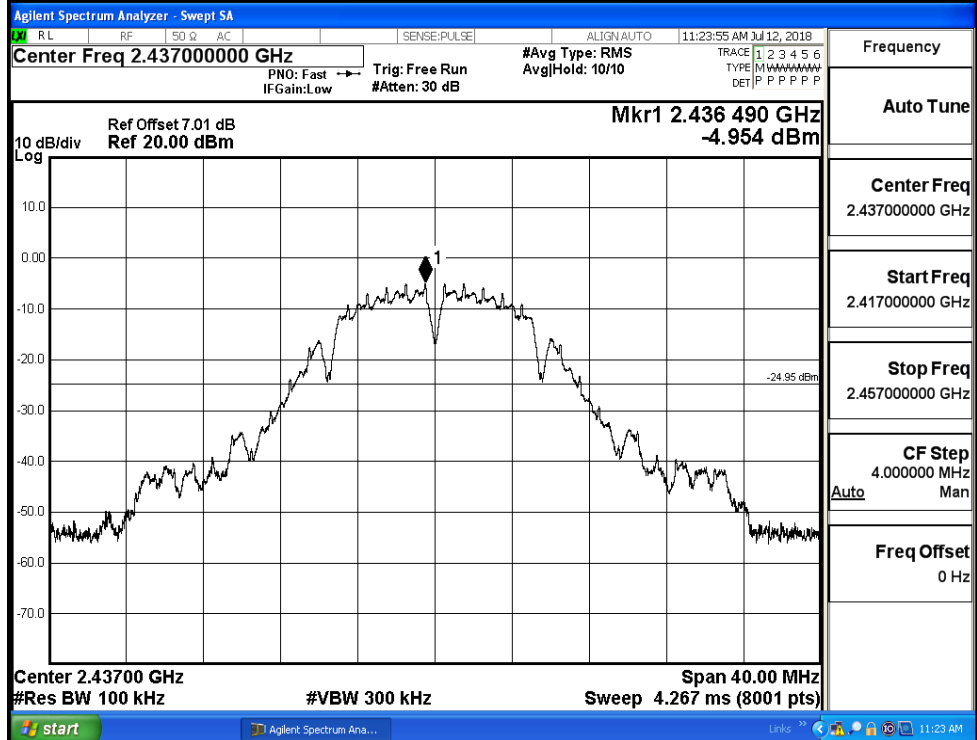


Puw/11B/LCH

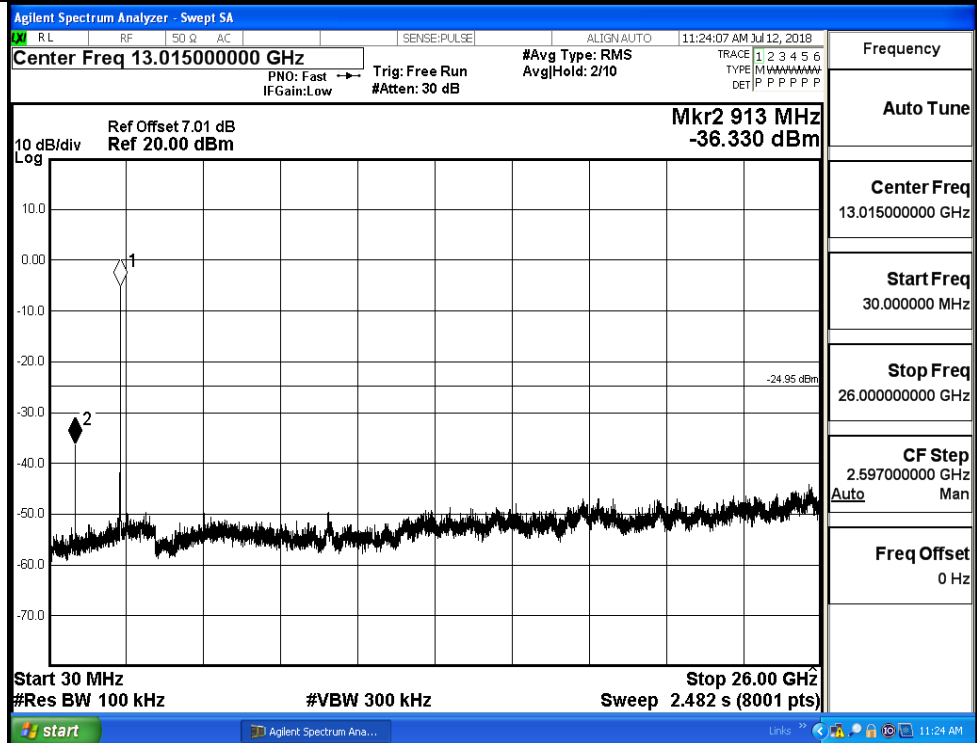


11B_MCH_Graphs_Ant0

Pref/11B/MCH

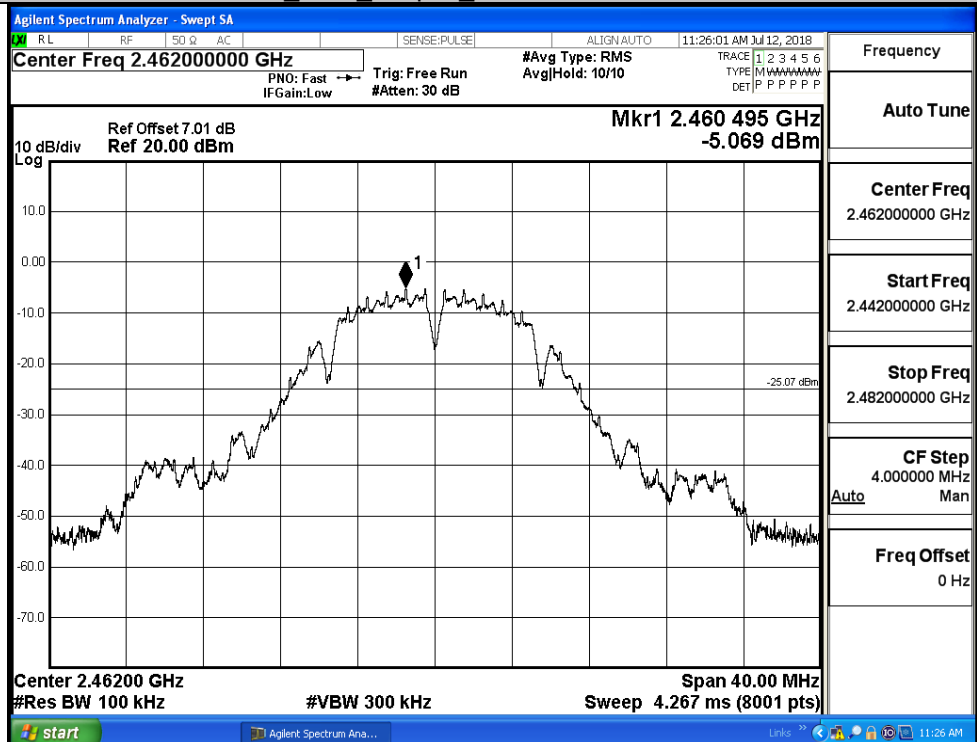


Puw/11B/MCH

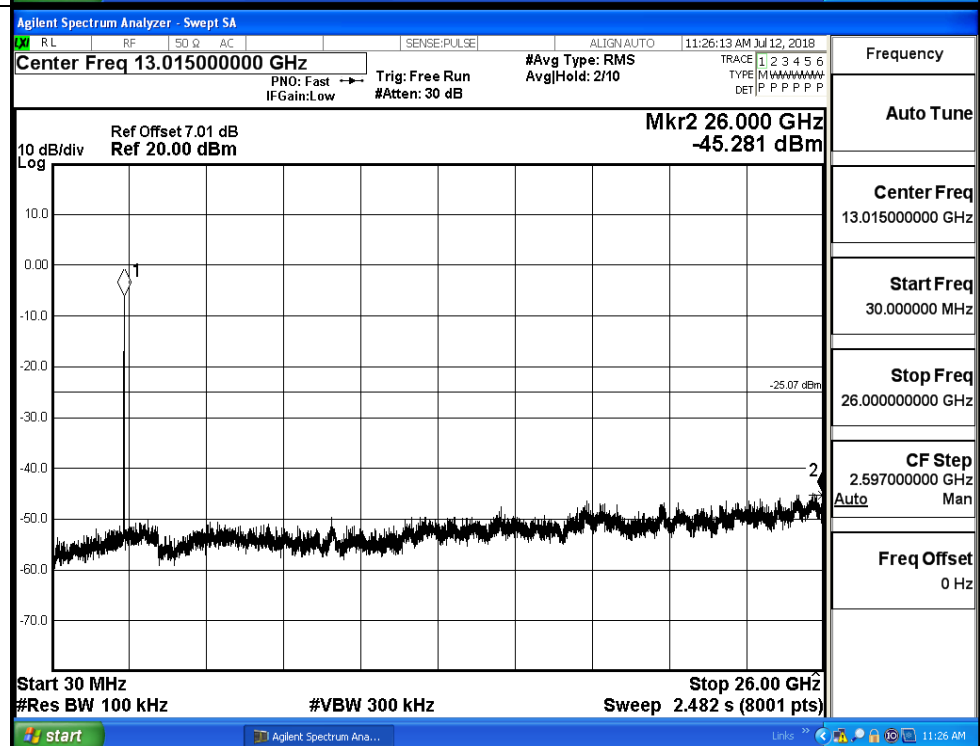


11B_HCH_Graphs_Ant0

Pref/11B/HCH

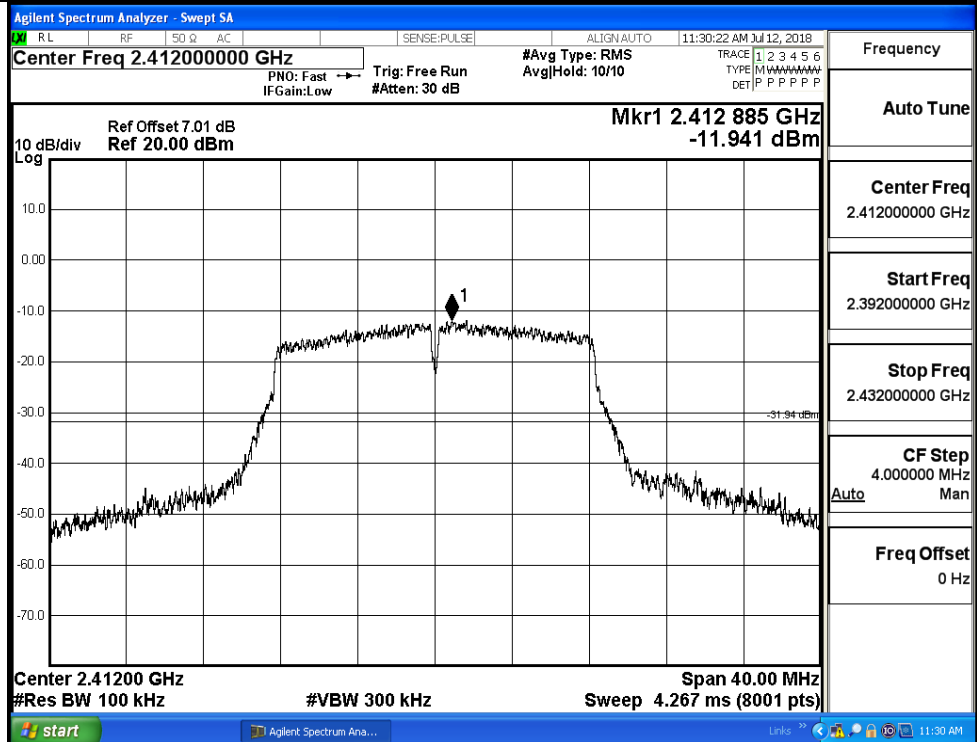


Puw/11B/HCH

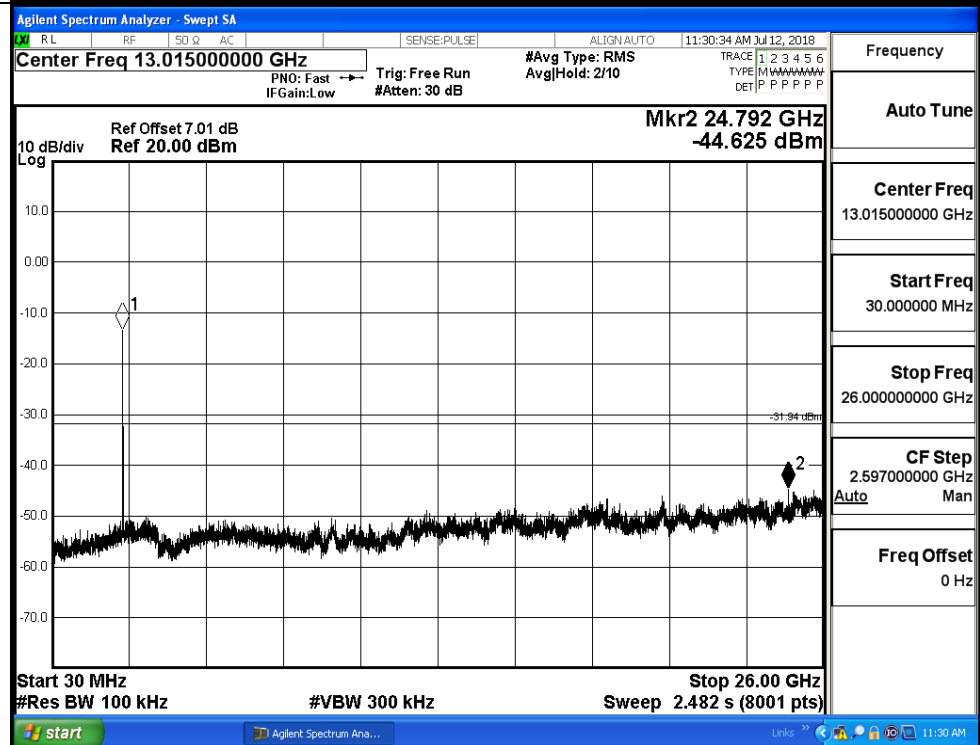


11G LCH Graphs Ant0

Pref/11G/LCH

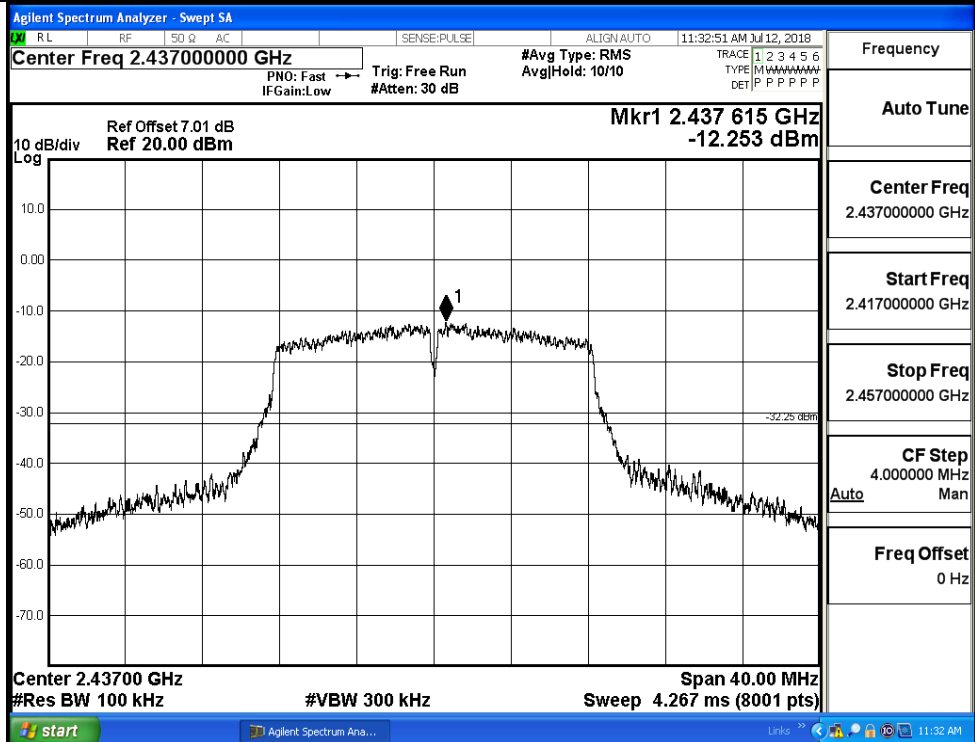


Puw/11G/LCH

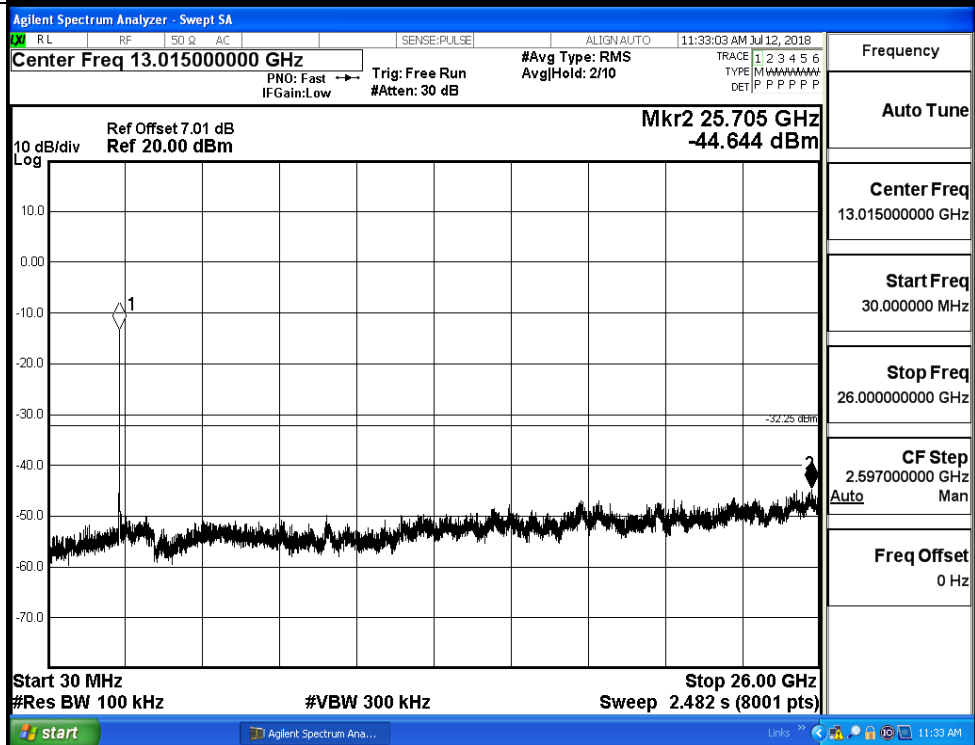


11G_MCH_Graphs_Ant0

Pref/11G/MCH

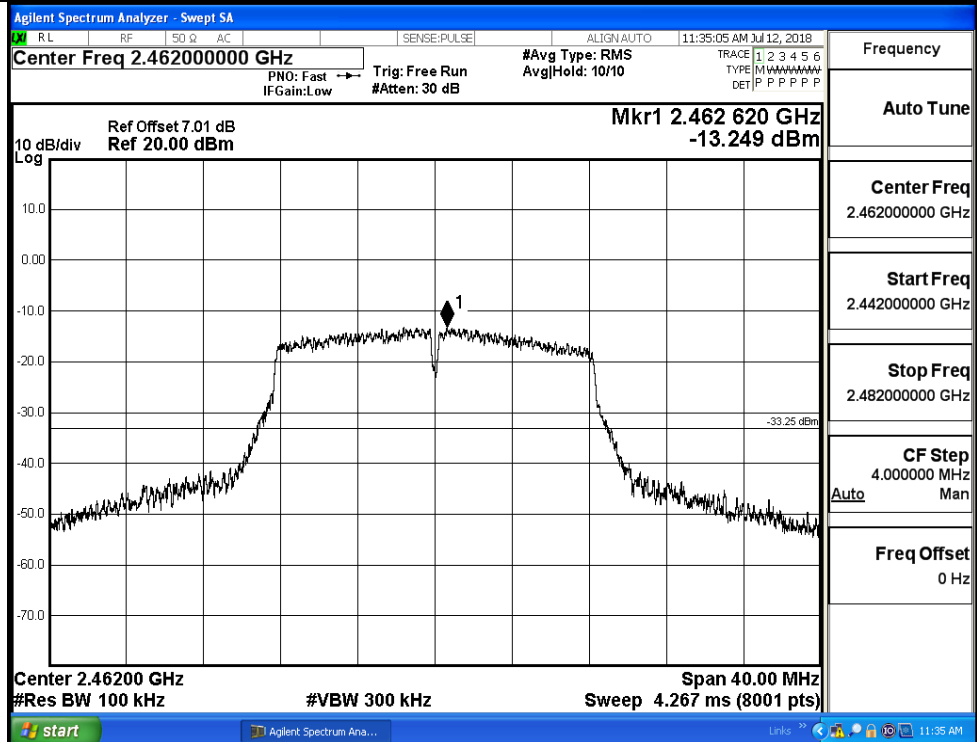


Puw/11G/MCH



11G HCH Graphs Ant0

Pref/11G/HCH

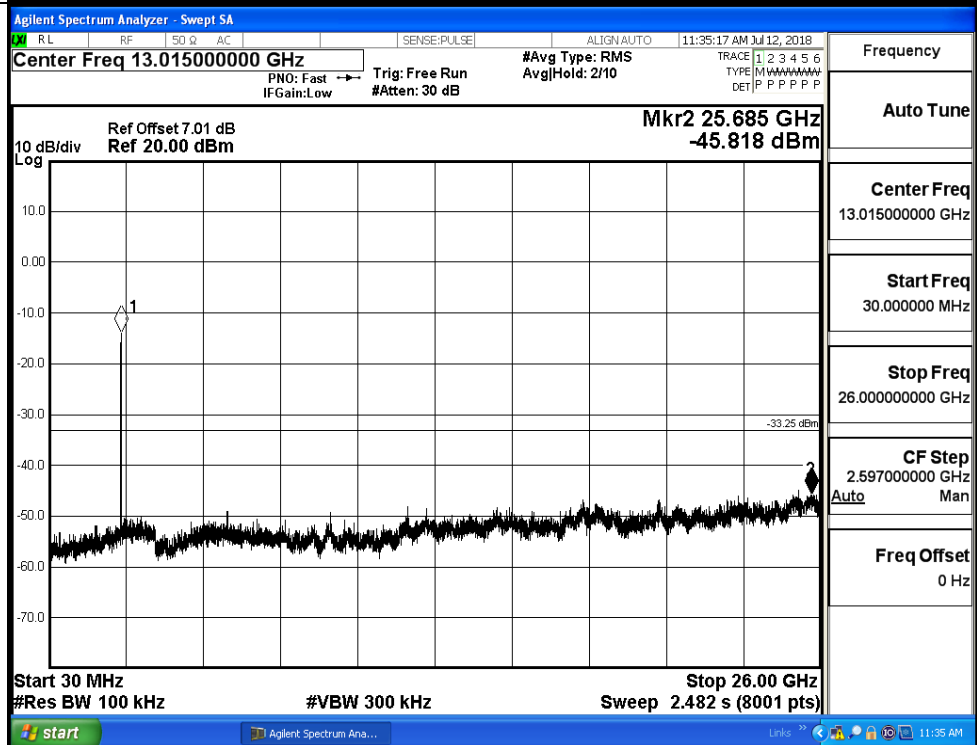


Frequency

Auto Tune

Center Freq
2.462000000 GHzStart Freq
2.442000000 GHzStop Freq
2.482000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

Puw/11G/HCH

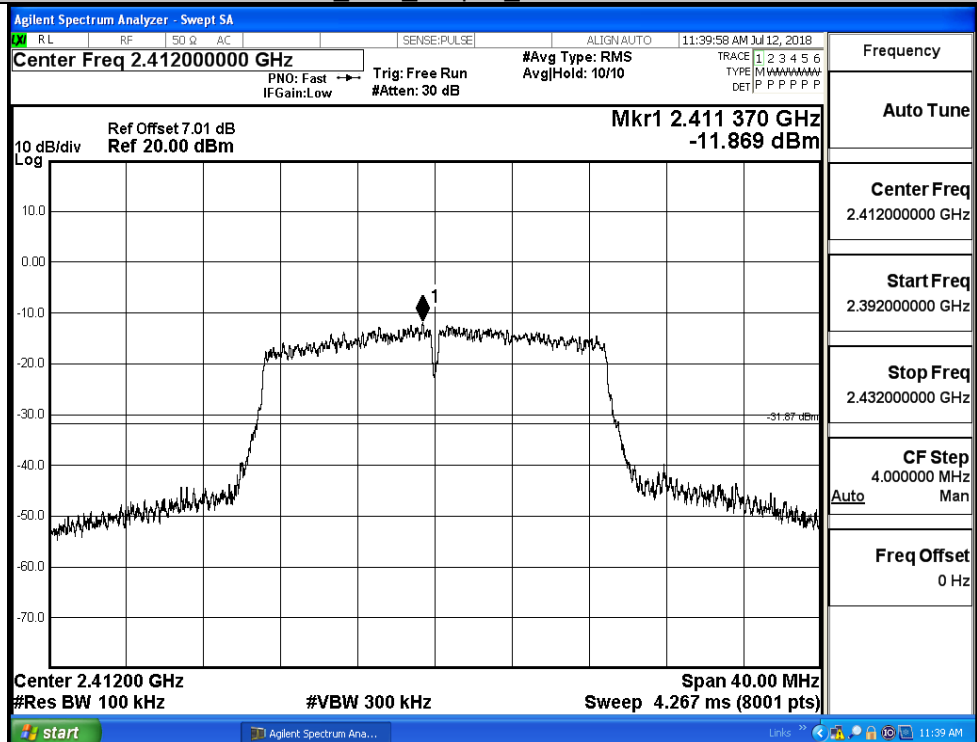


Frequency

Auto Tune

Center Freq
13.015000000 GHzStart Freq
30.000000 MHzStop Freq
26.000000000 GHzCF Step
2.597000000 GHz
Auto ManFreq Offset
0 Hz

11N20SISO LCH Graphs Ant0

Pref/11N20SIS
O/LCH

Frequency

Auto Tune

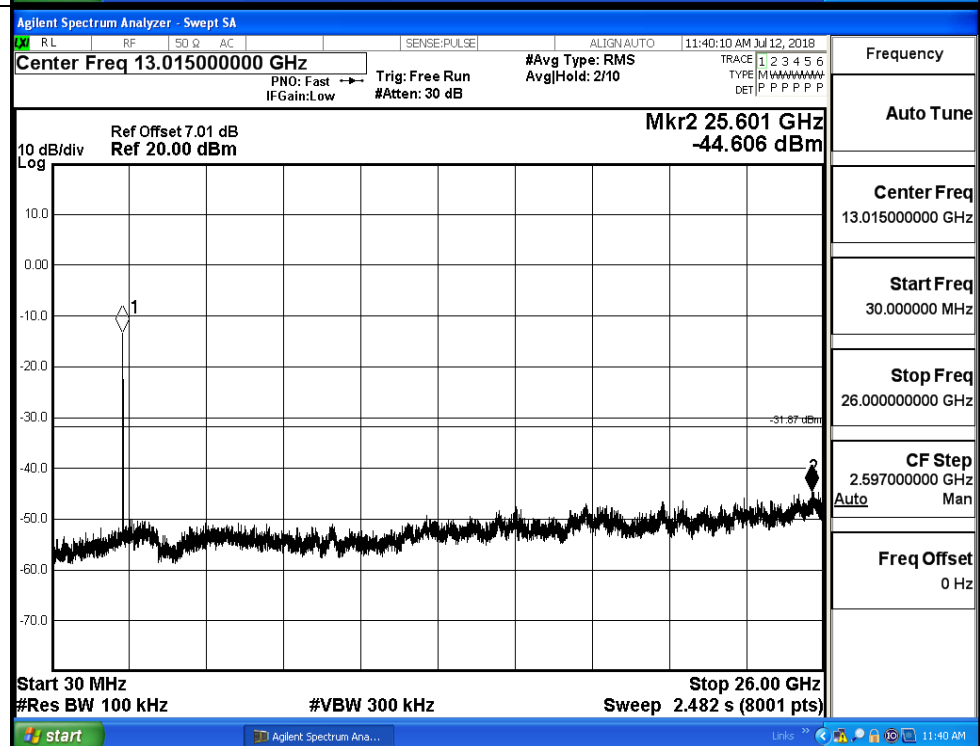
Center Freq
2.412000000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.432000000 GHz

CF Step
4.000000 MHz
Auto Man

Freq Offset
0 Hz

Puw/11N20
SISO/LCH

Frequency

Auto Tune

Center Freq
13.015000000 GHz

Start Freq
30.000000 MHz

Stop Freq
26.000000000 GHz

CF Step
2.597000000 GHz
Auto Man

Freq Offset
0 Hz