Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Set top box

Trade Mark: N/A

Test Model: J5S

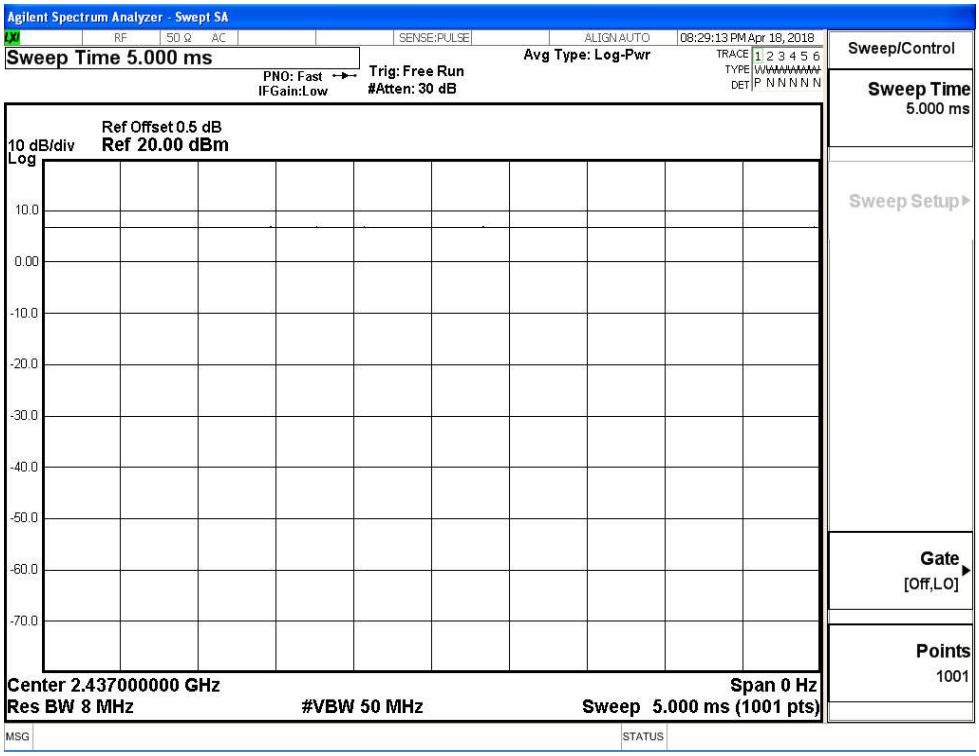
Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden Zhuo

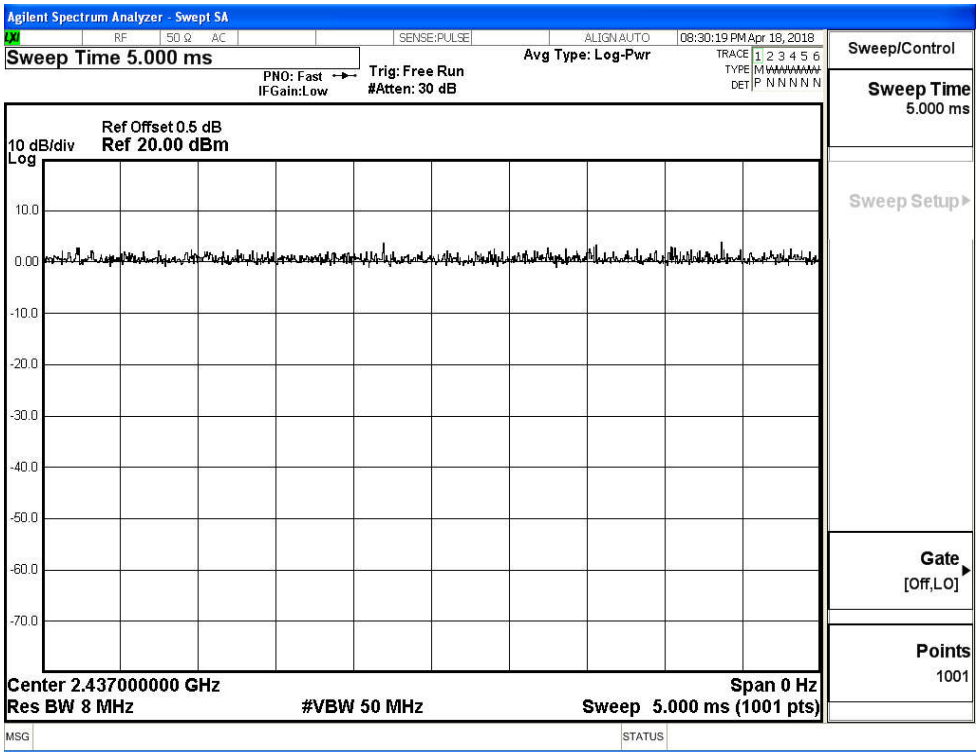
C.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS

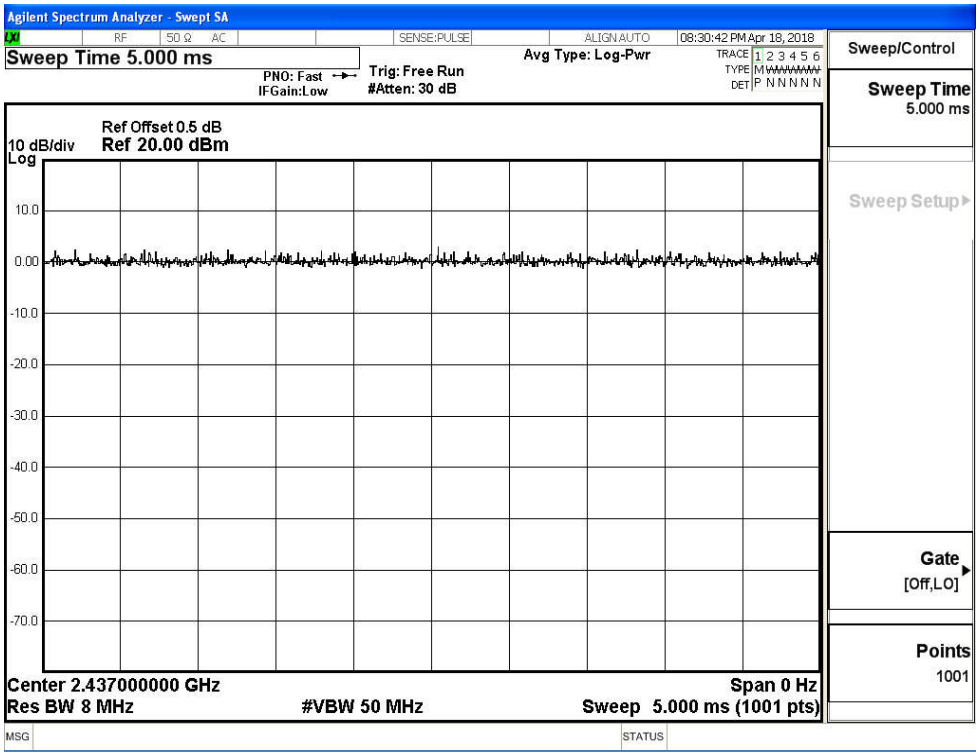
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



C.2 Maximum Peak Conducted Output Power

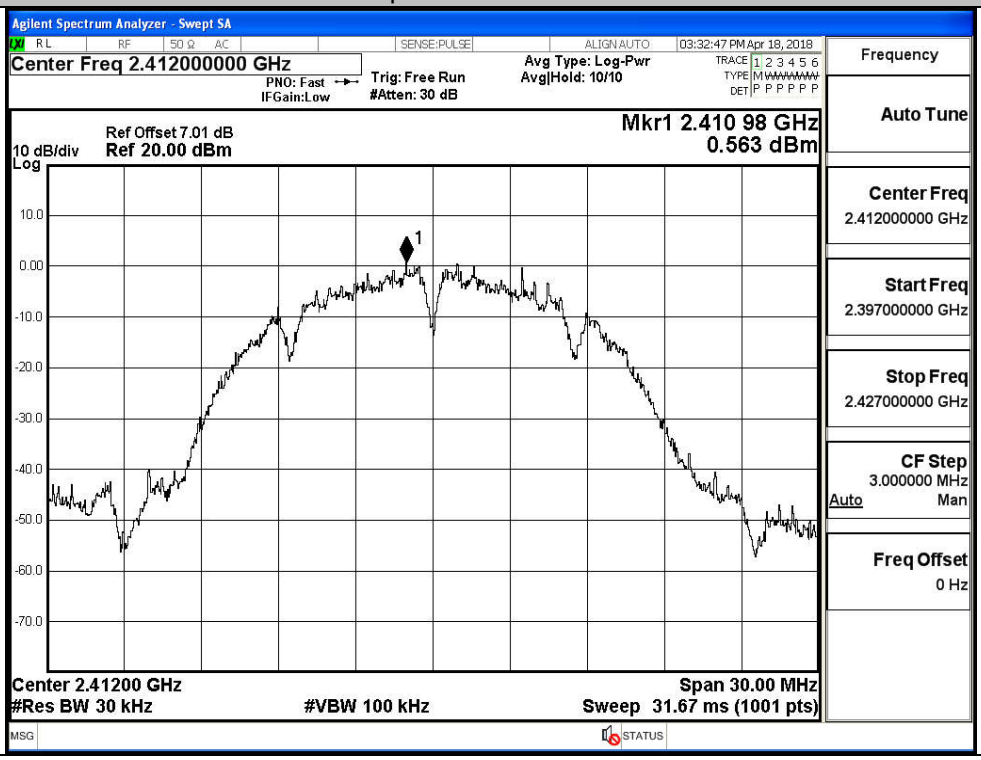
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	16.62	30	PASS
	MCH	16.53	30	PASS
	HCH	**16.69**	30	PASS
11G	LCH	16.52	30	PASS
	MCH	16.00	30	PASS
	HCH	16.31	30	PASS
11N20SISO	LCH	16.43	30	PASS
	MCH	16.00	30	PASS
	HCH	16.26	30	PASS

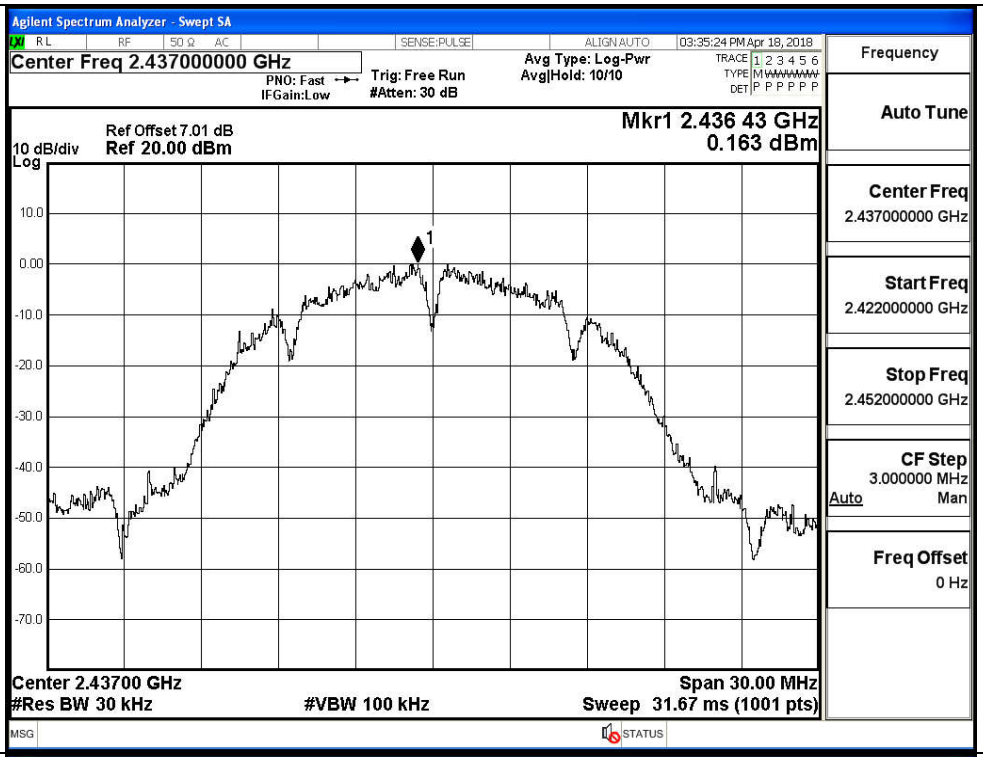
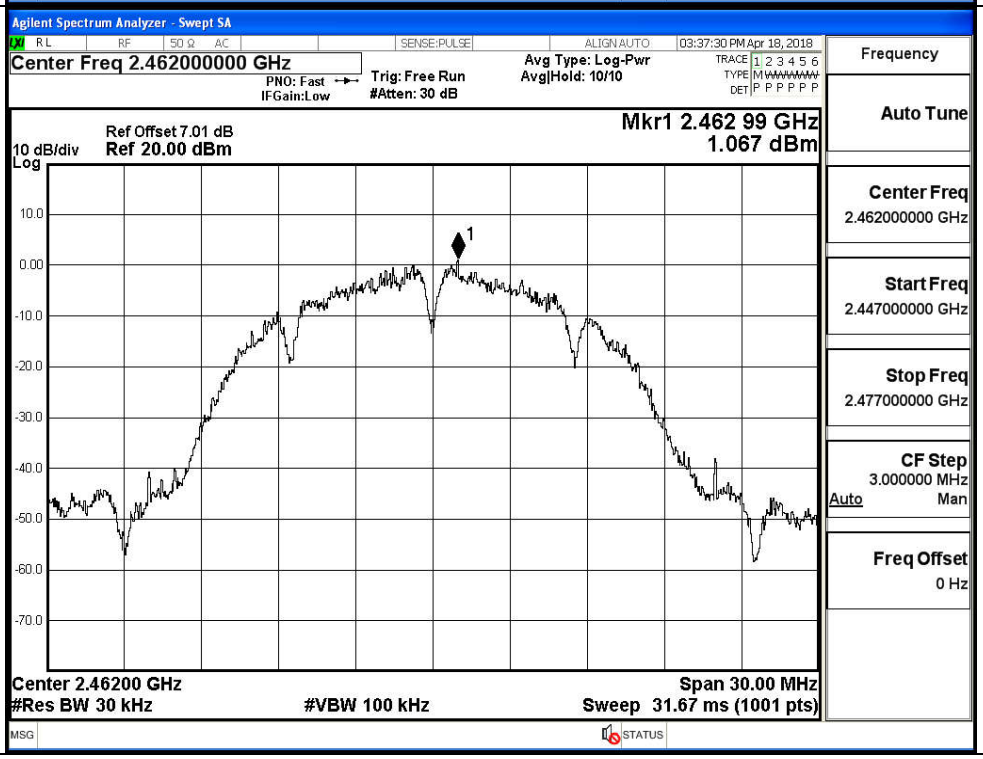
C.3 Maximum Power Spectral Density

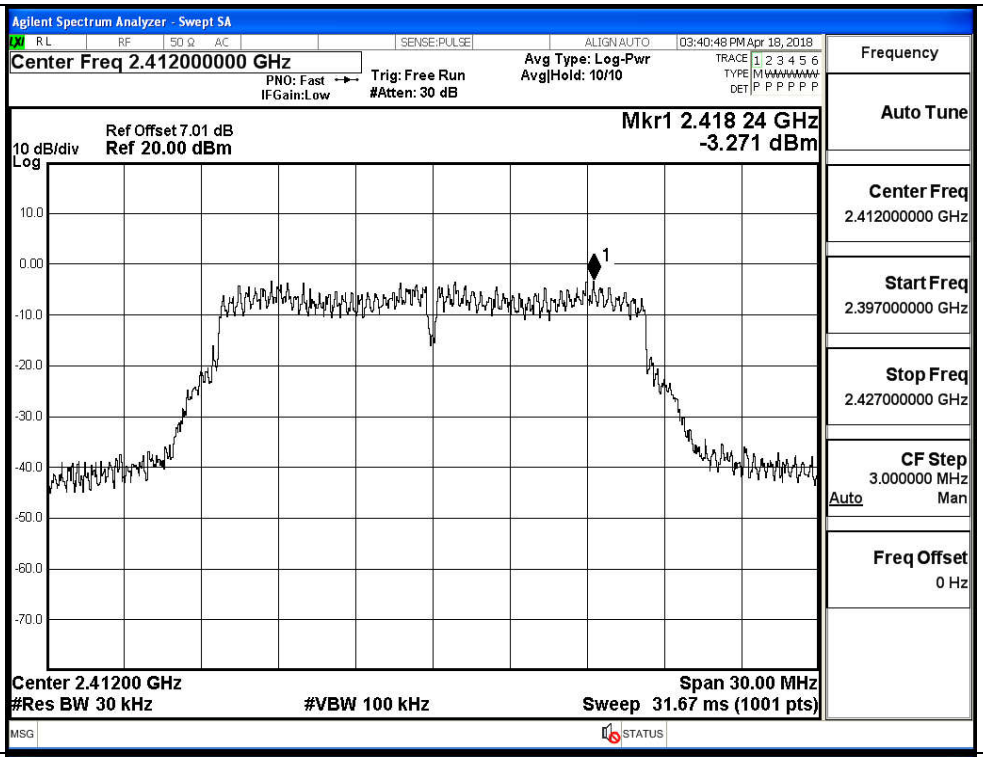
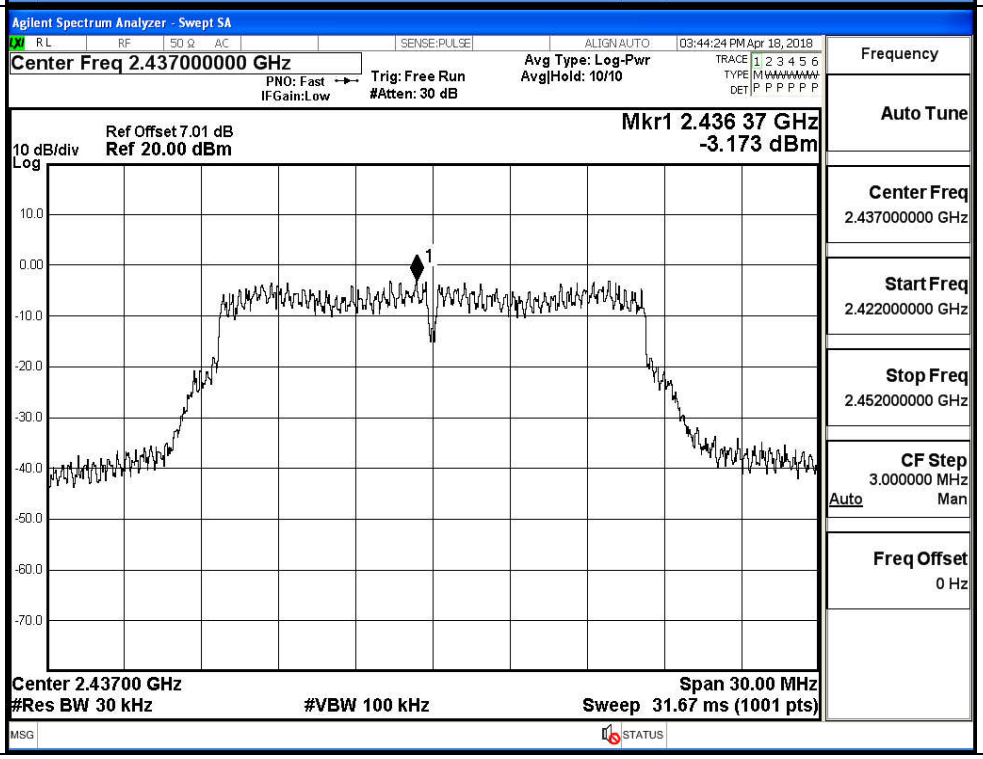
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	0.563	8	PASS
	MCH	0.163	8	PASS
	HCH	1.067	8	PASS
11G	LCH	-3.271	8	PASS
	MCH	-3.173	8	PASS
	HCH	-2.788	8	PASS
11N20SISO	LCH	-3.759	8	PASS
	MCH	-4.320	8	PASS
	HCH	-4.209	8	PASS

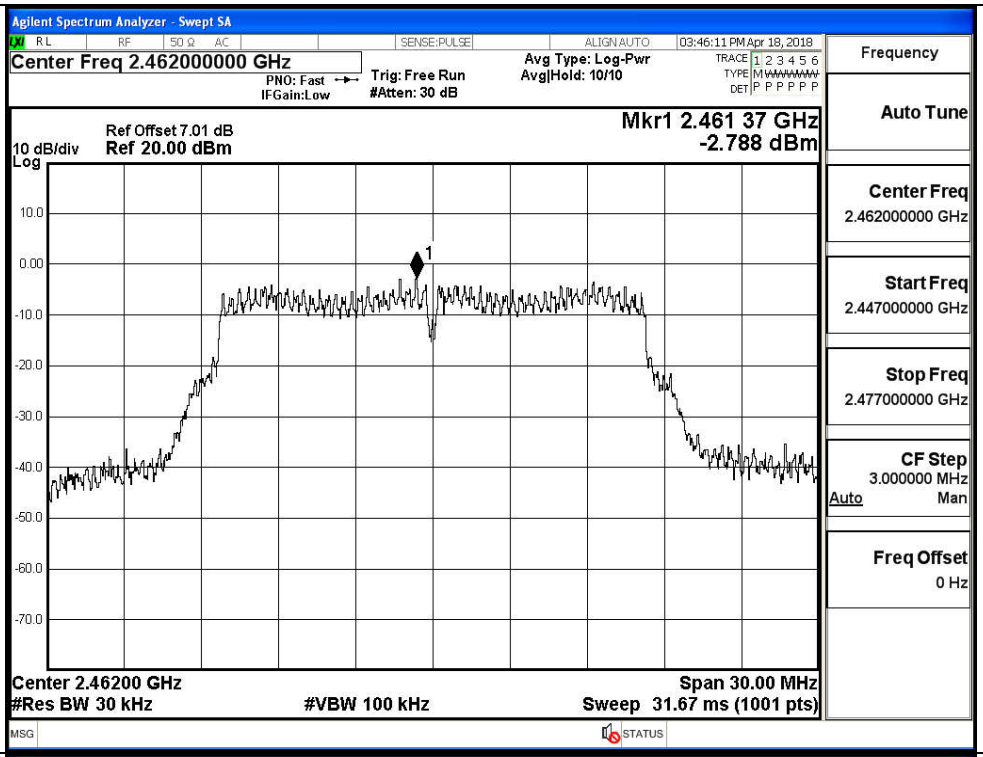
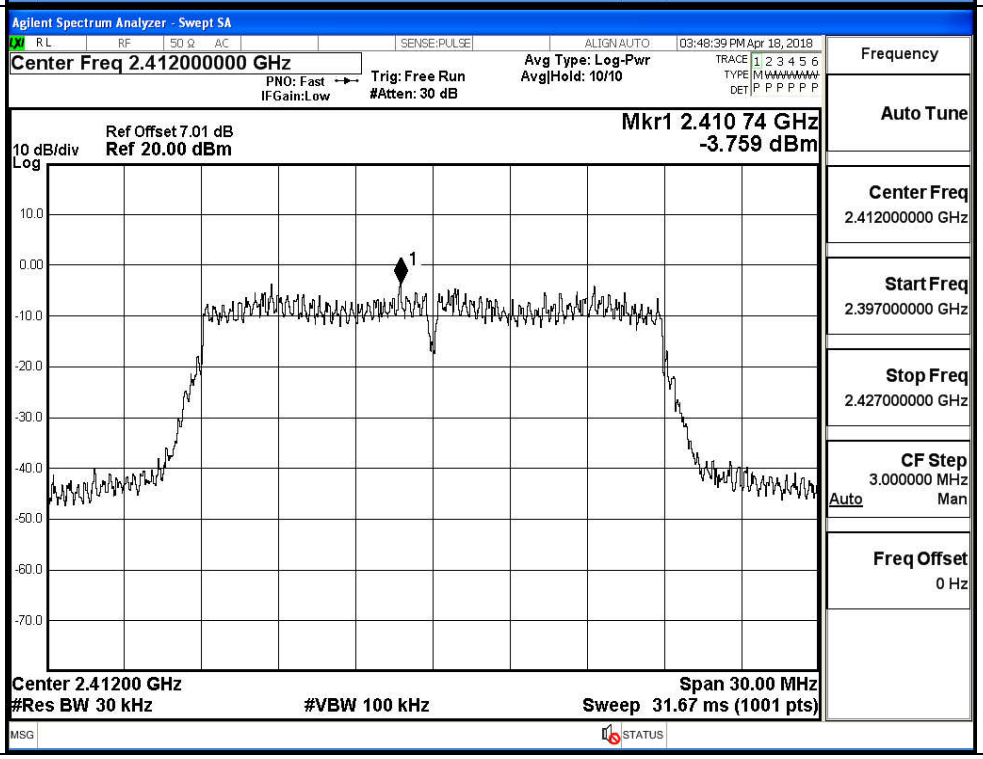
Test Graphs

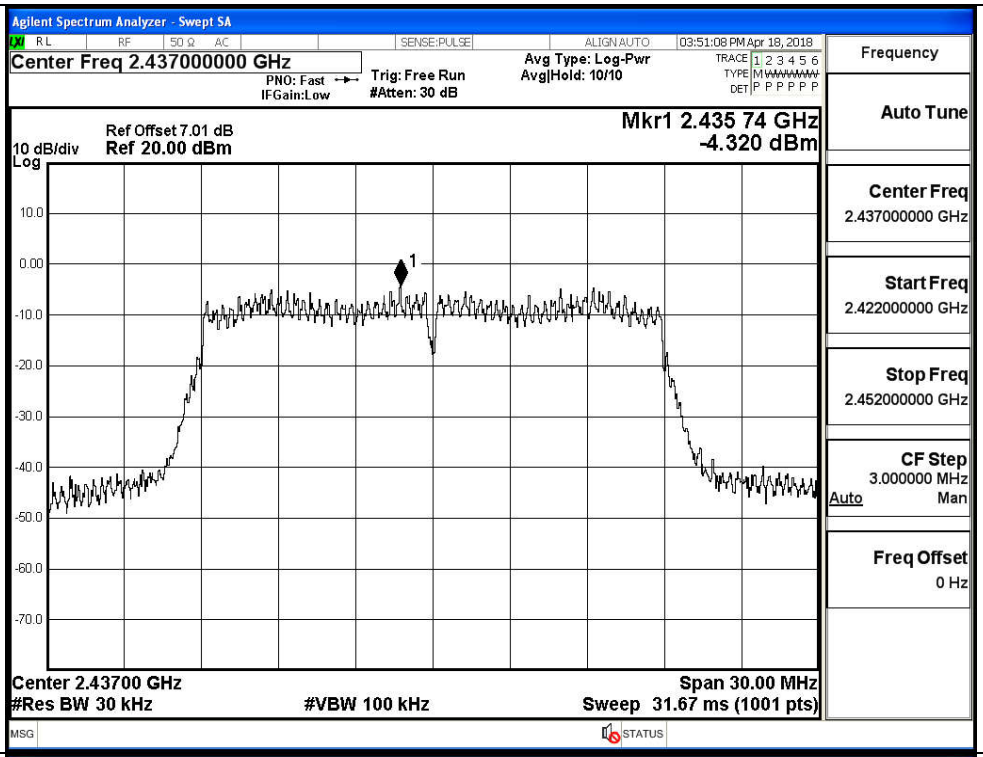
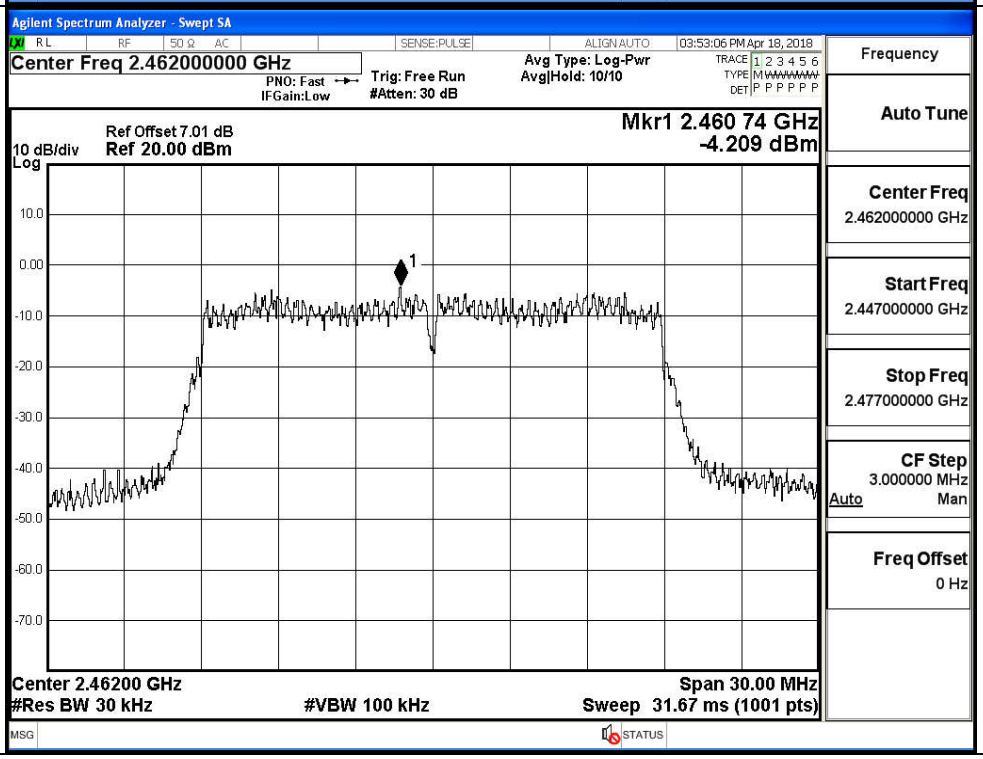
11B/LCH



11B/MCH	
11B/HCH	

11G/LCH	
11G/MCH	

11G/HCH	
11N20SISO/LCH	

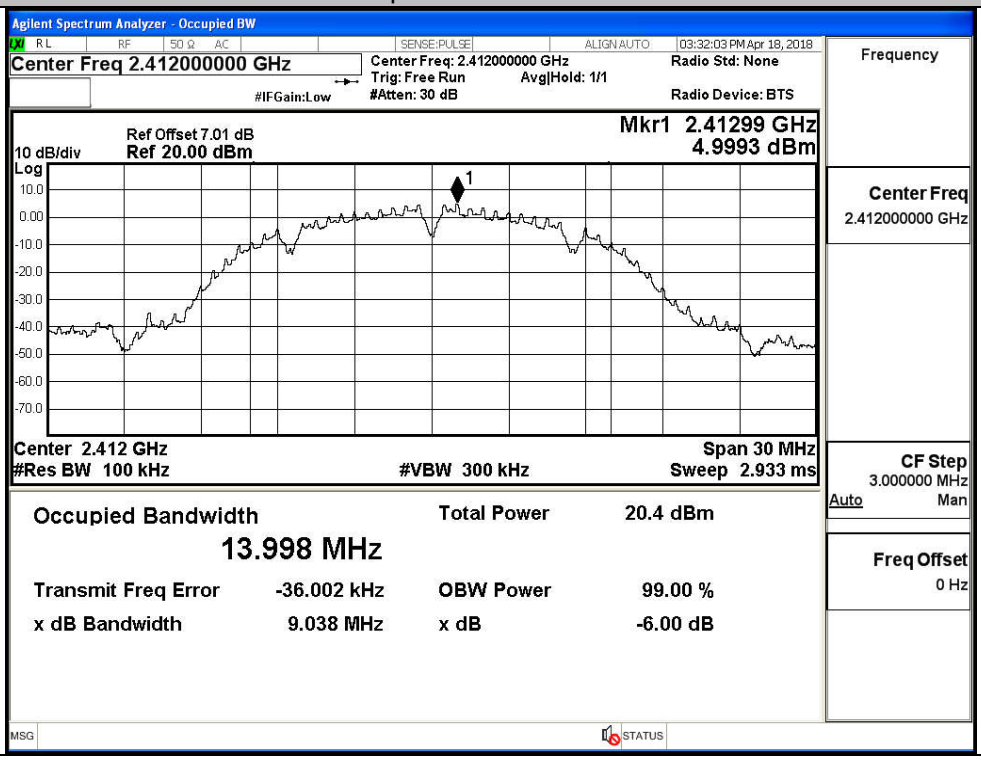
11N20SISO/MCH	
11N20SISO/HCH	

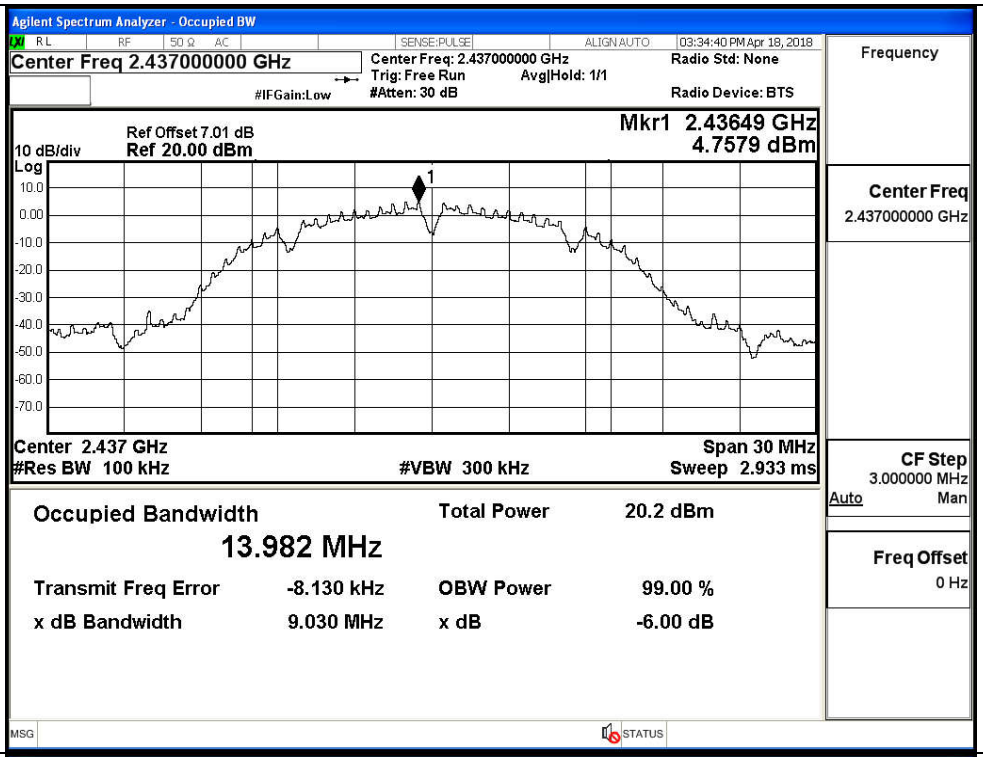
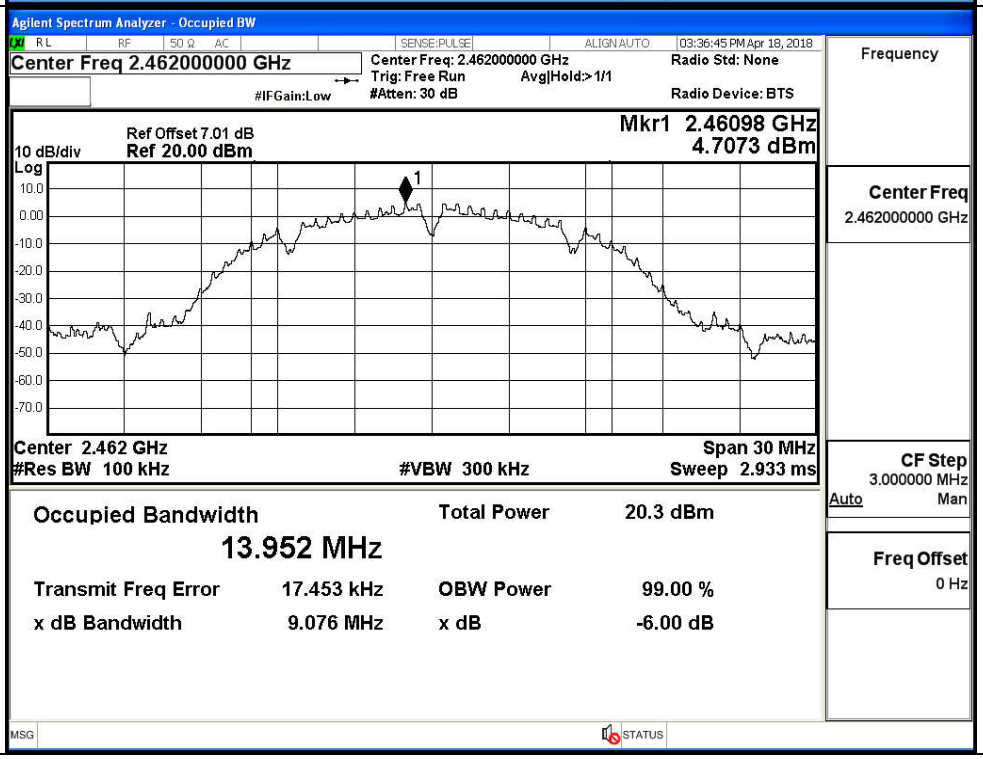
C.4 6dB Bandwidth

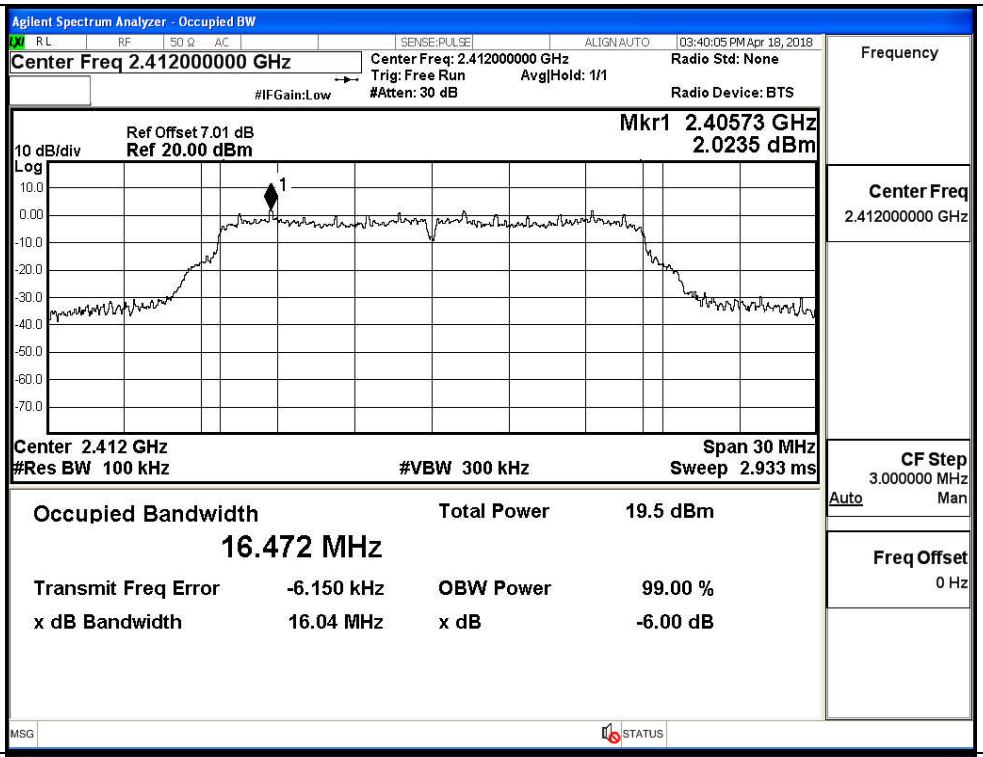
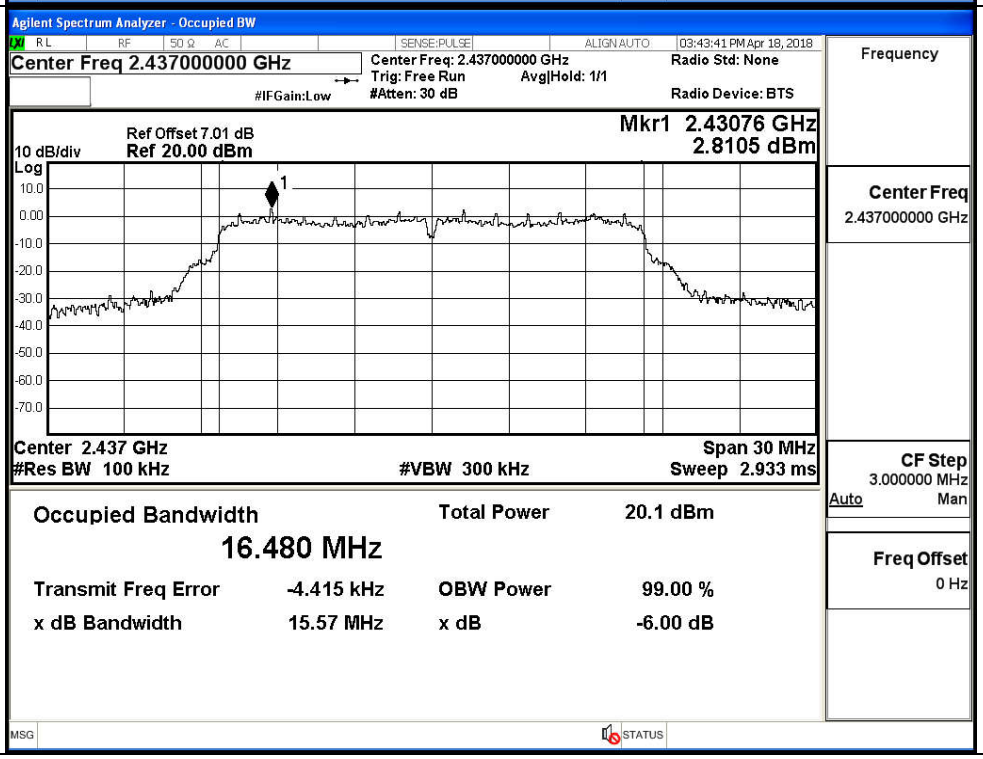
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.038	≥0.5	PASS
	MCH	9.030	≥0.5	PASS
	HCH	9.076	≥0.5	PASS
11G	LCH	16.04	≥0.5	PASS
	MCH	15.57	≥0.5	PASS
	HCH	16.05	≥0.5	PASS
11N20SISO	LCH	17.53	≥0.5	PASS
	MCH	17.55	≥0.5	PASS
	HCH	16.70	≥0.5	PASS

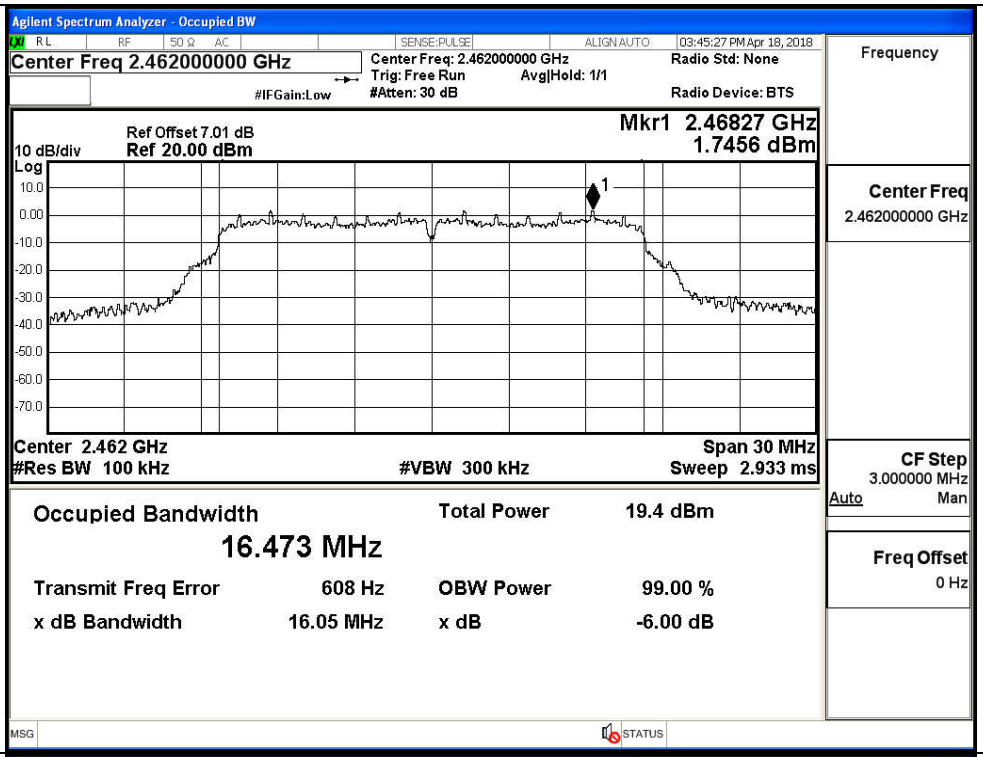
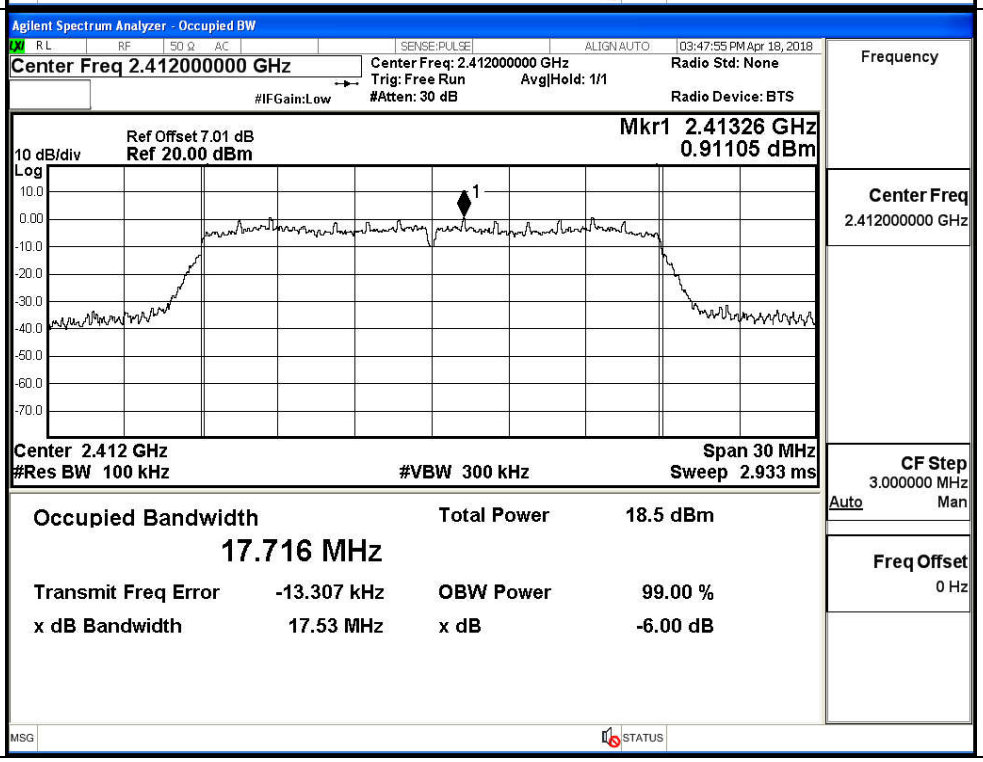
Test Graphs

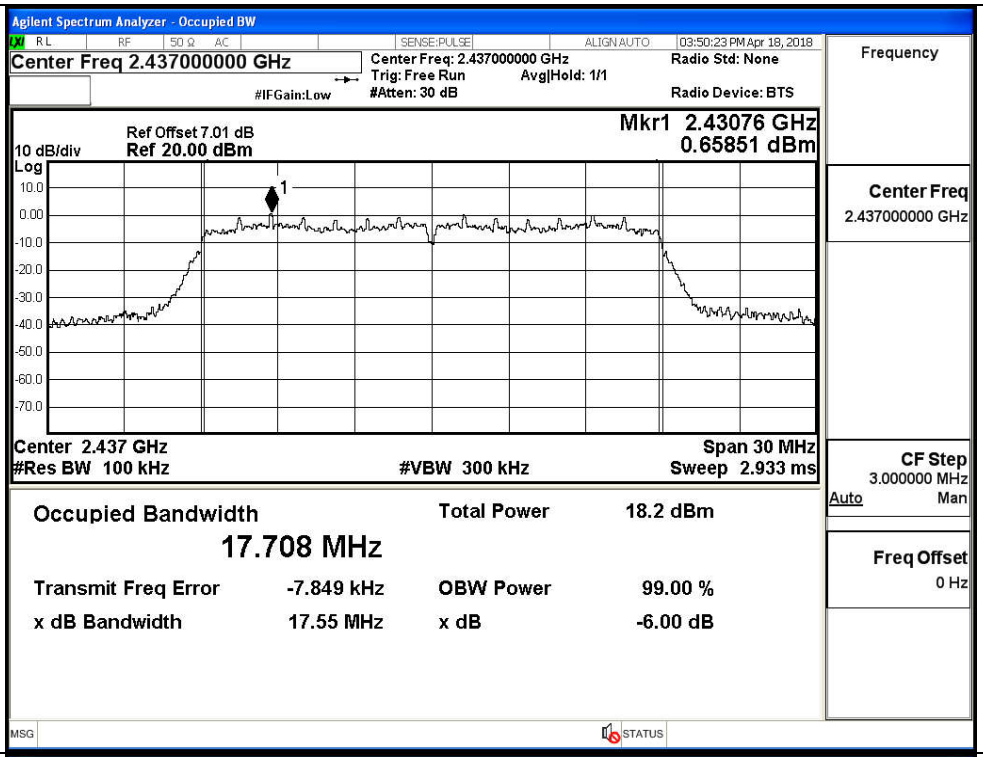
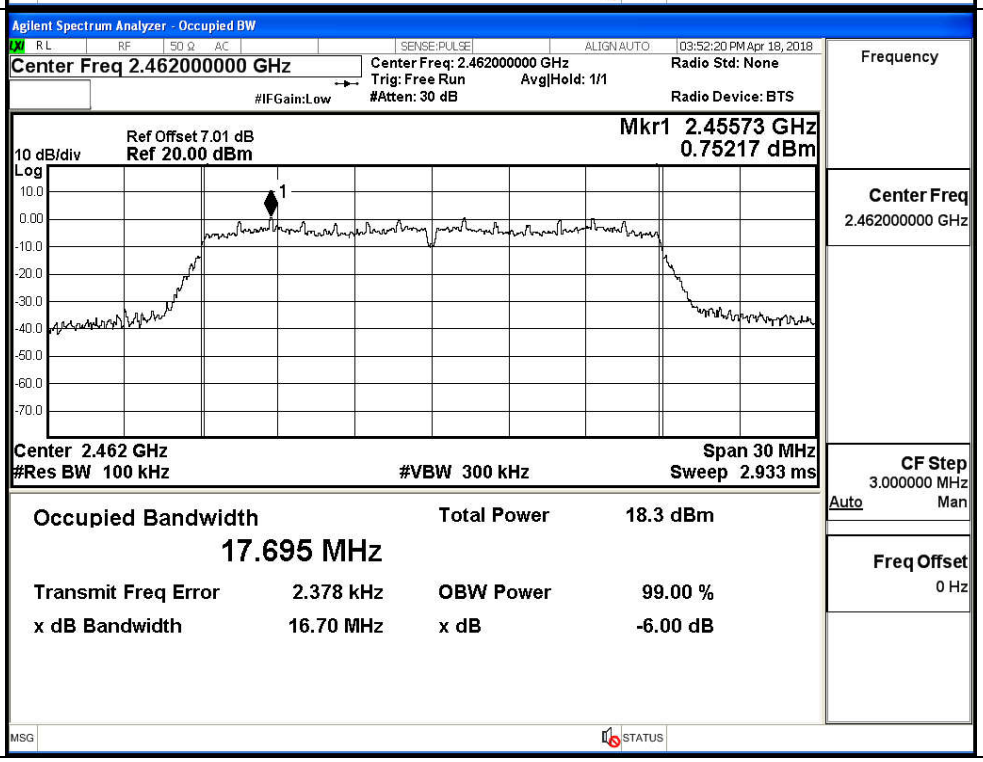
11B/LCH



11B/MCH	
11B/HCH	

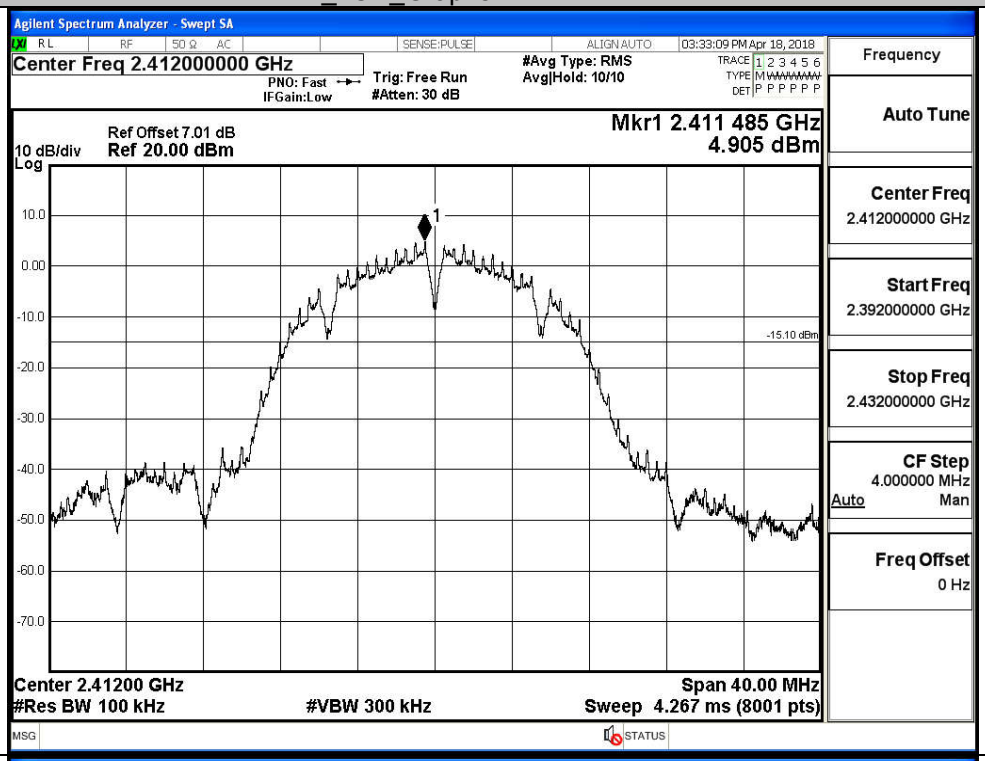
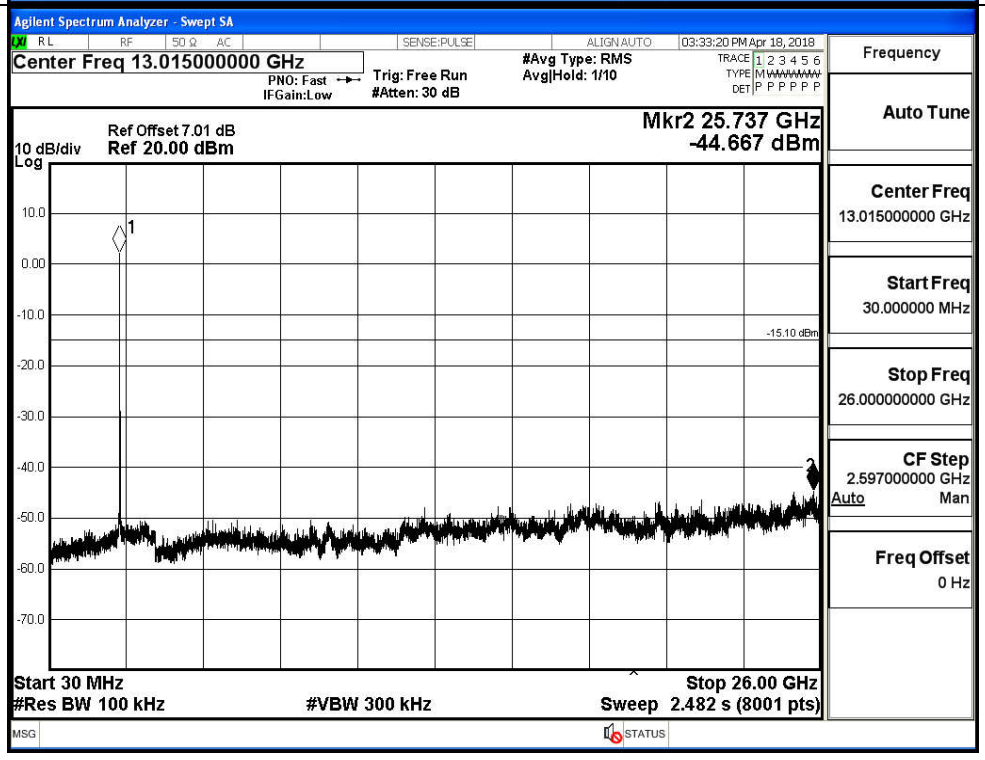
11G/LCH	
11G/MCH	

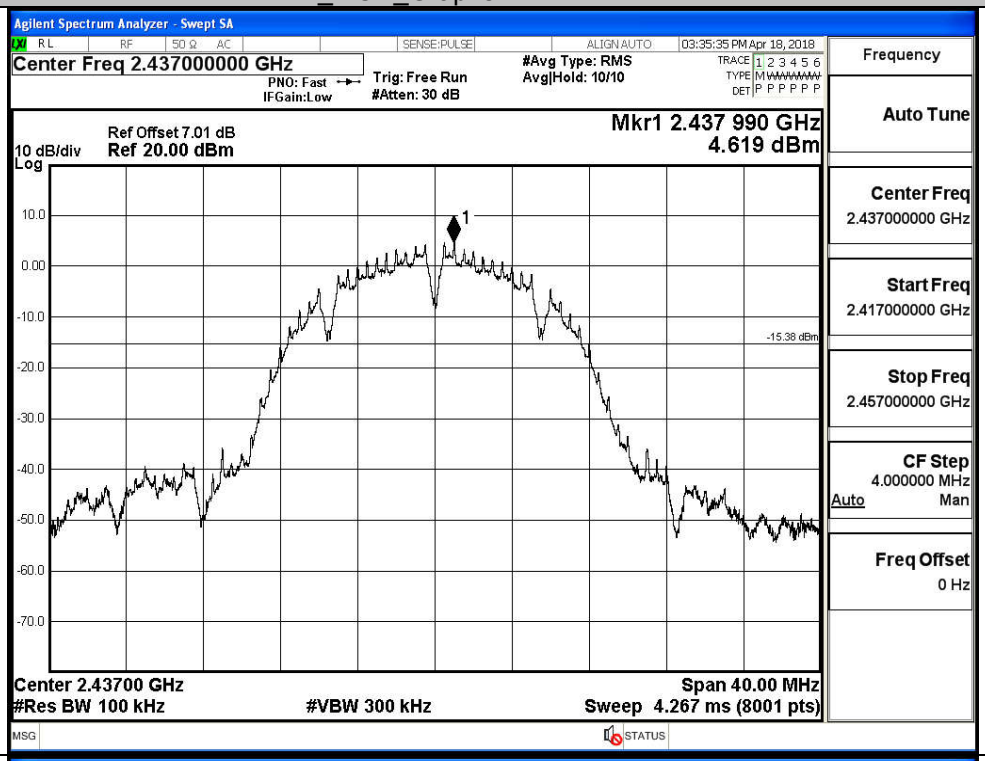
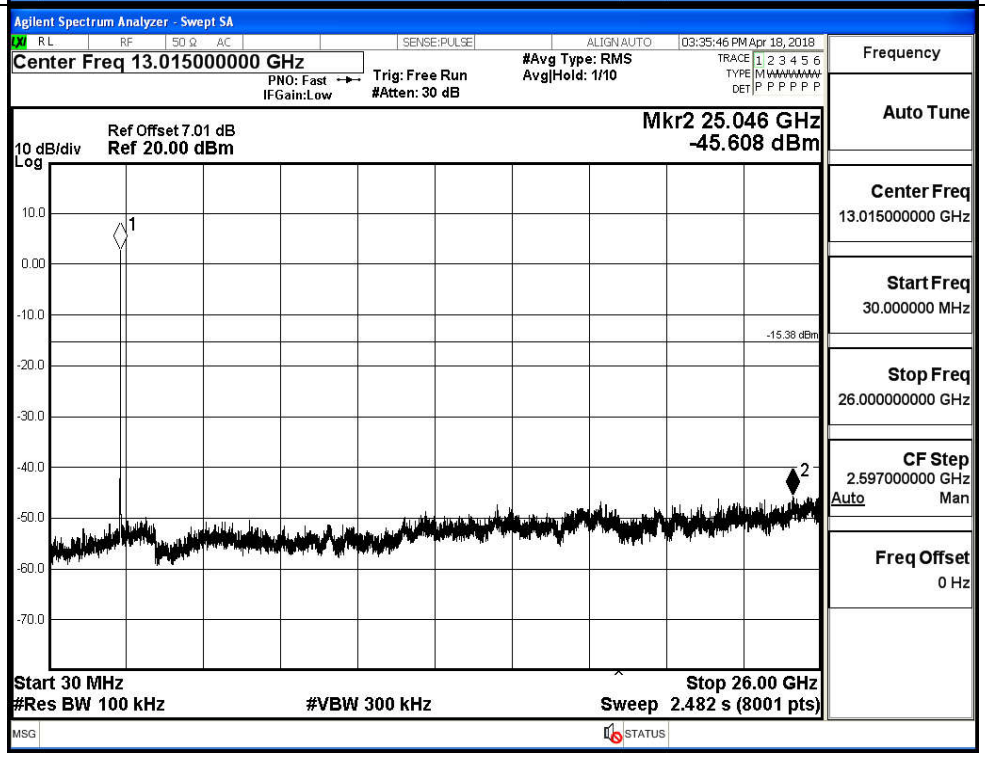
11G/HCH	
11N20SISO/LCH	

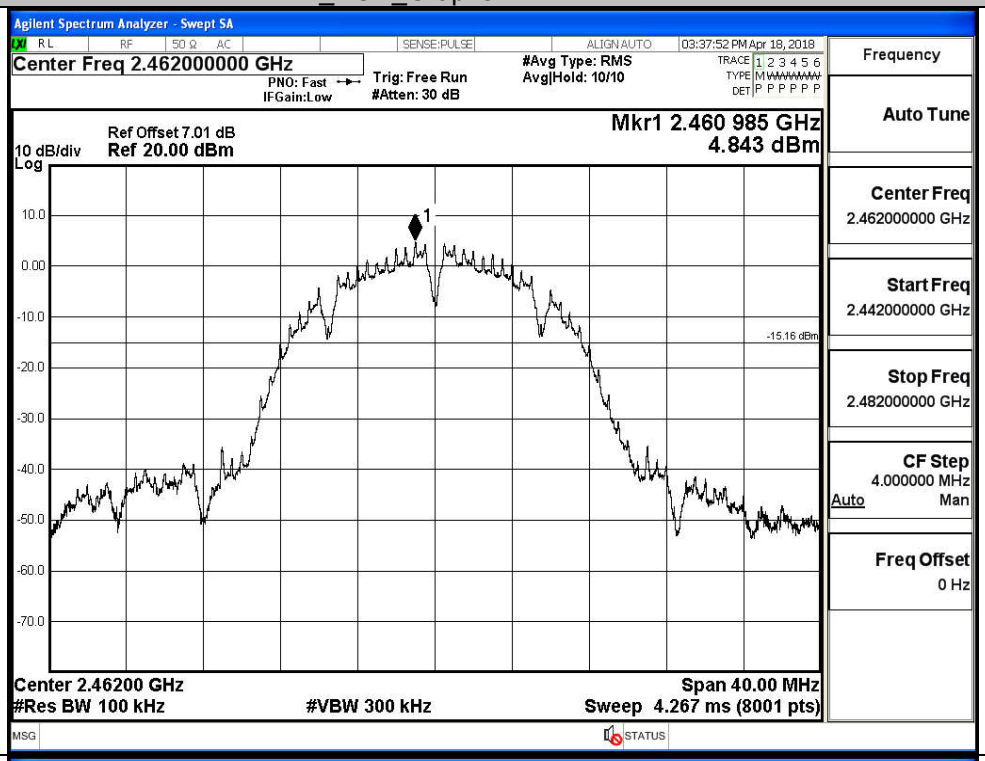
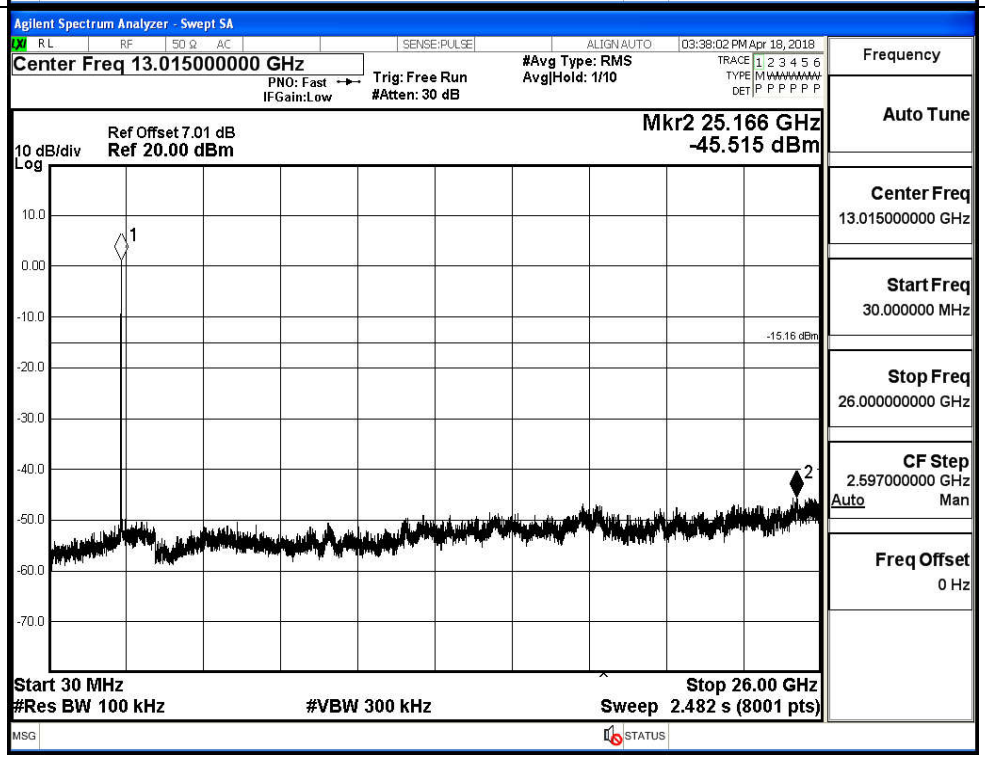
11N20SISO/MCH	
11N20SISO/HCH	

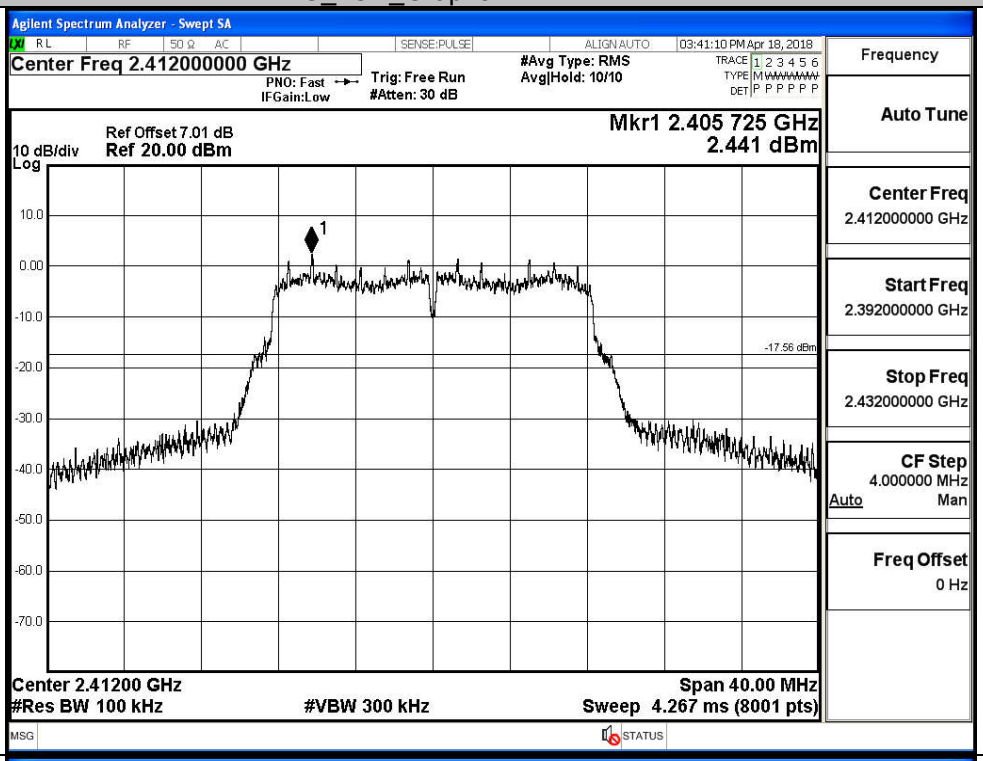
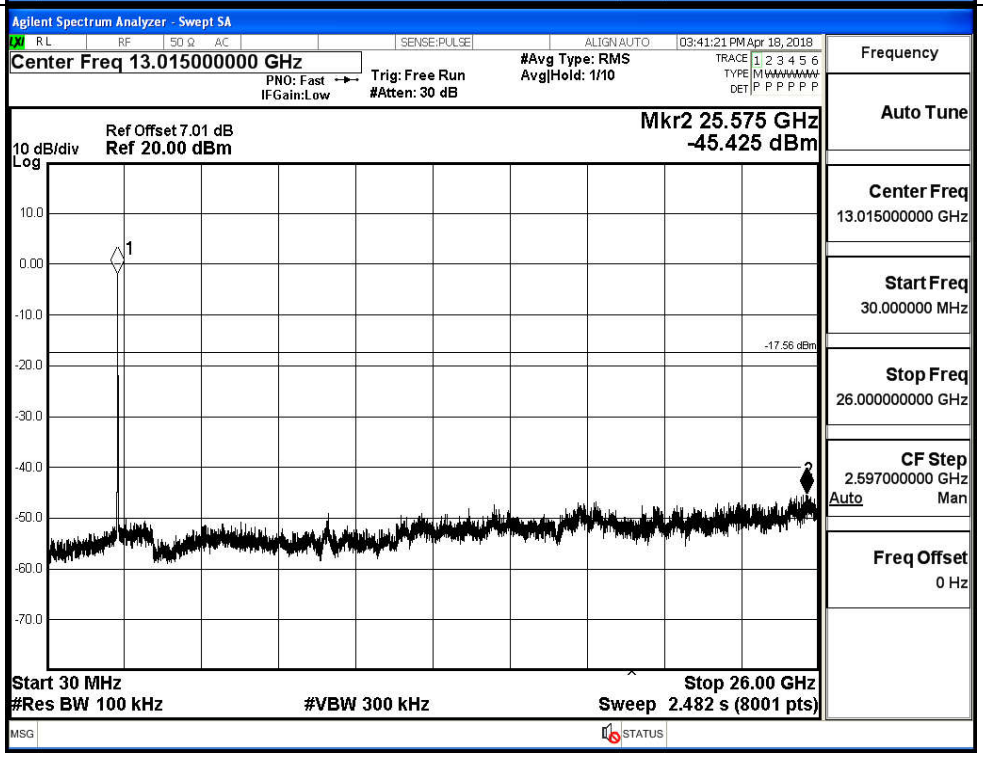
C.5 RF Conducted Spurious Emissions

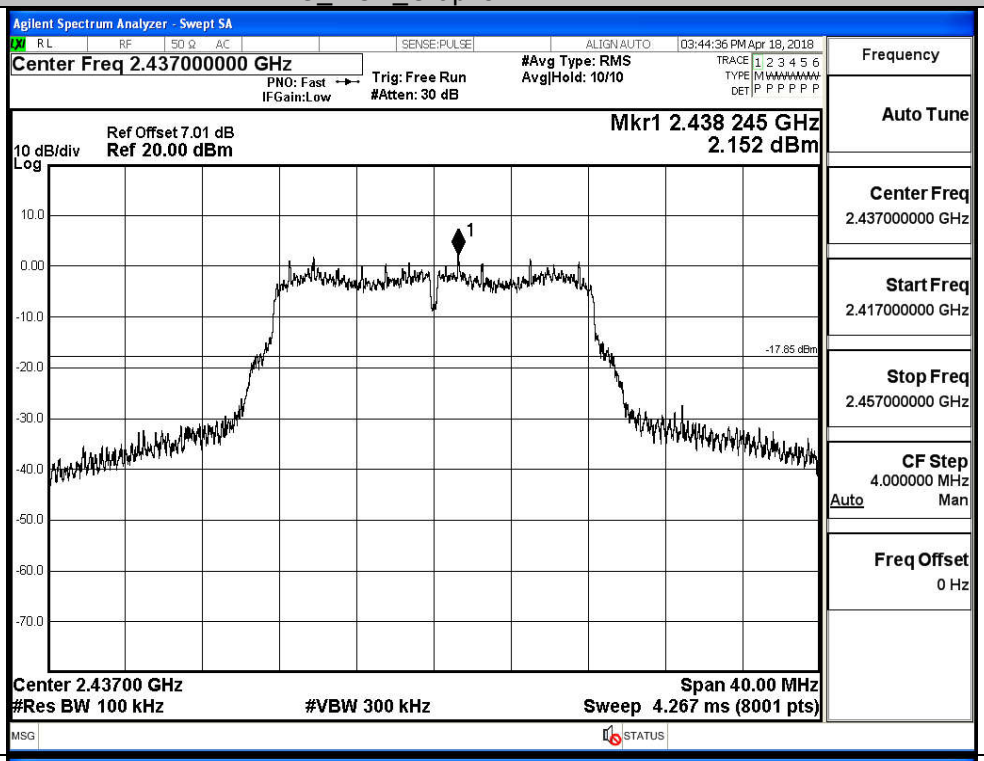
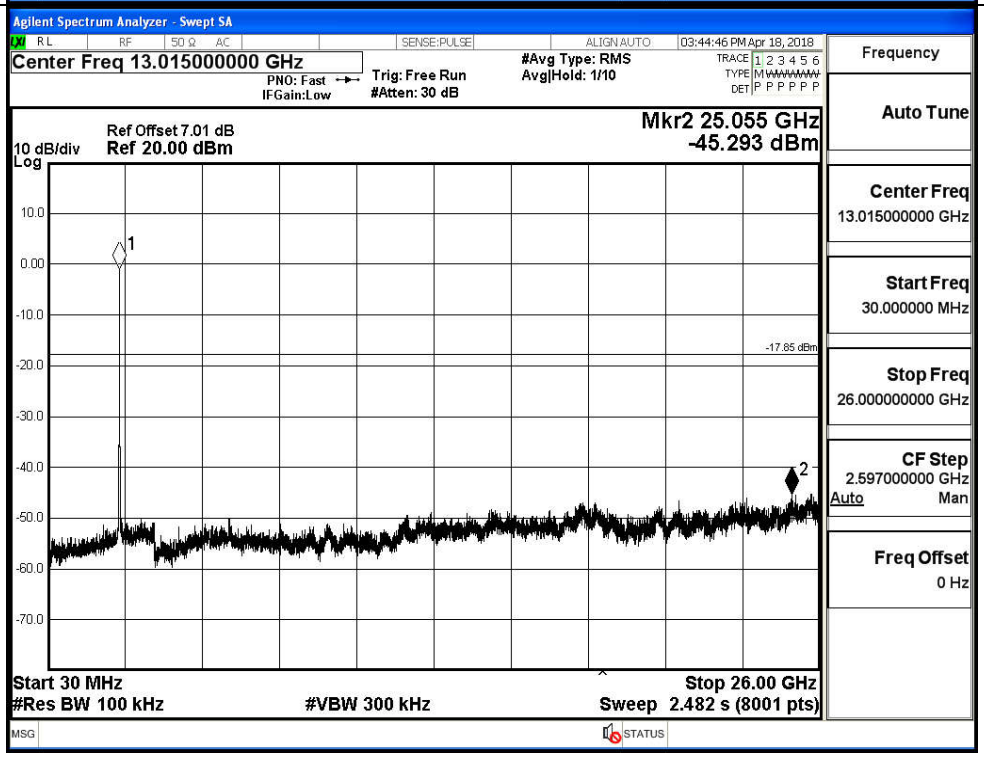
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.905	-44.667	-15.095	PASS
	MCH	4.619	-45.608	-15.381	PASS
	HCH	4.843	-45.515	-15.157	PASS
11G	LCH	2.441	-45.425	-17.559	PASS
	MCH	2.152	-45.293	-17.848	PASS
	HCH	1.601	-44.111	-18.399	PASS
11N20 SISO	LCH	0.279	-44.944	-19.721	PASS
	MCH	0.387	-45.246	-19.613	PASS
	HCH	0.42	-44.397	-19.580	PASS

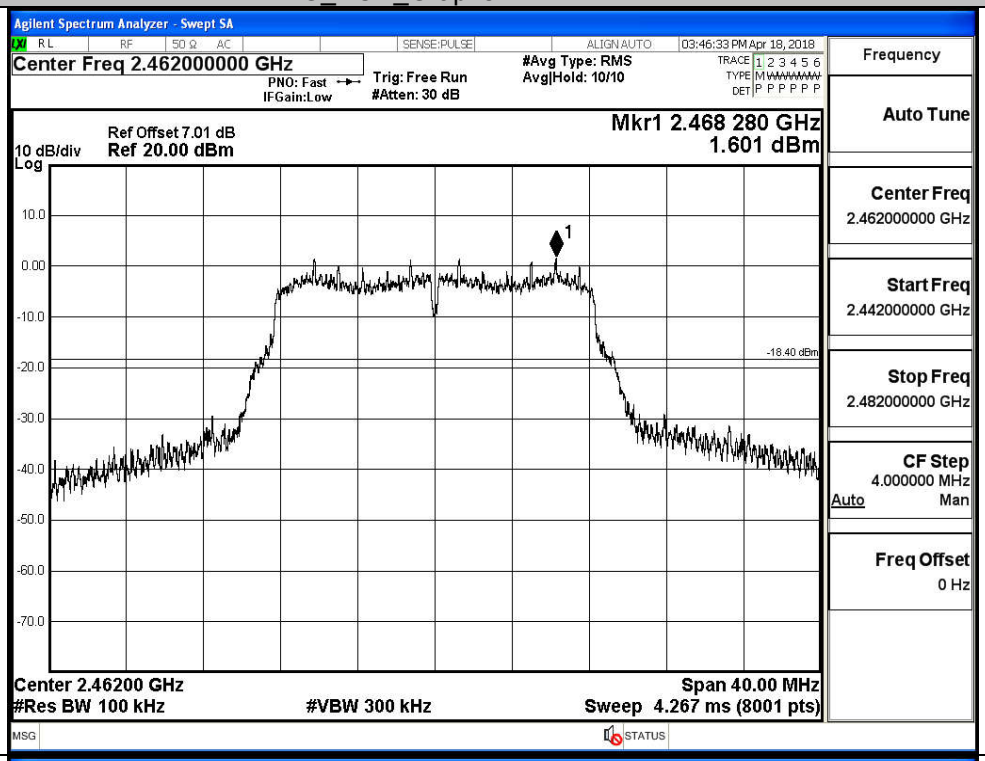
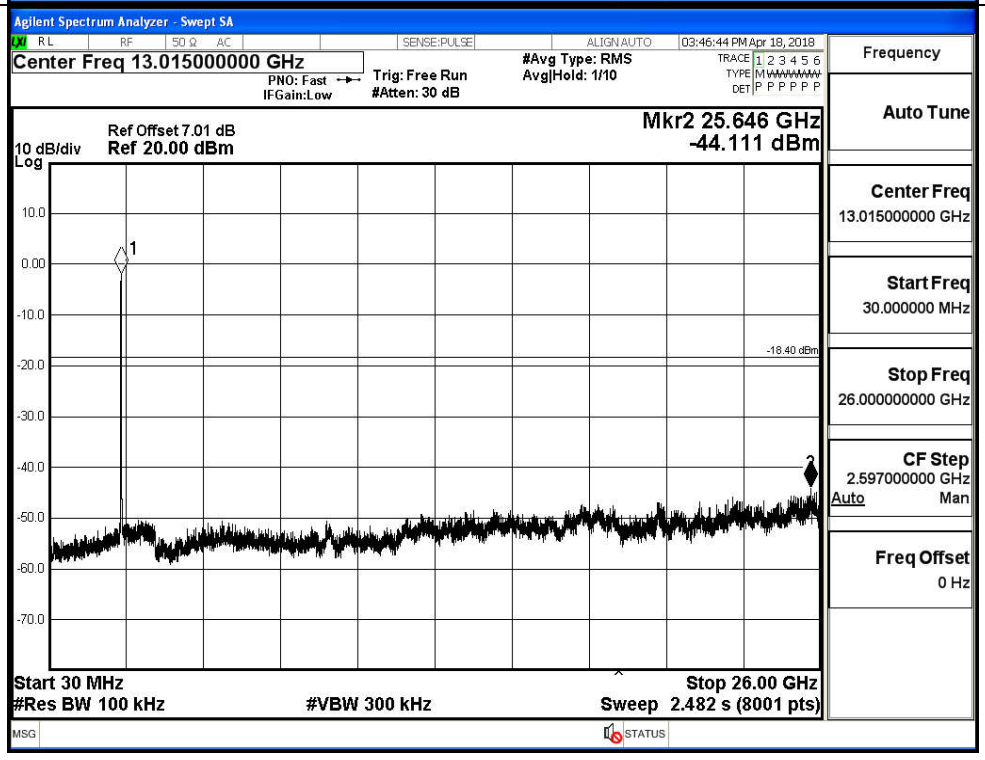
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

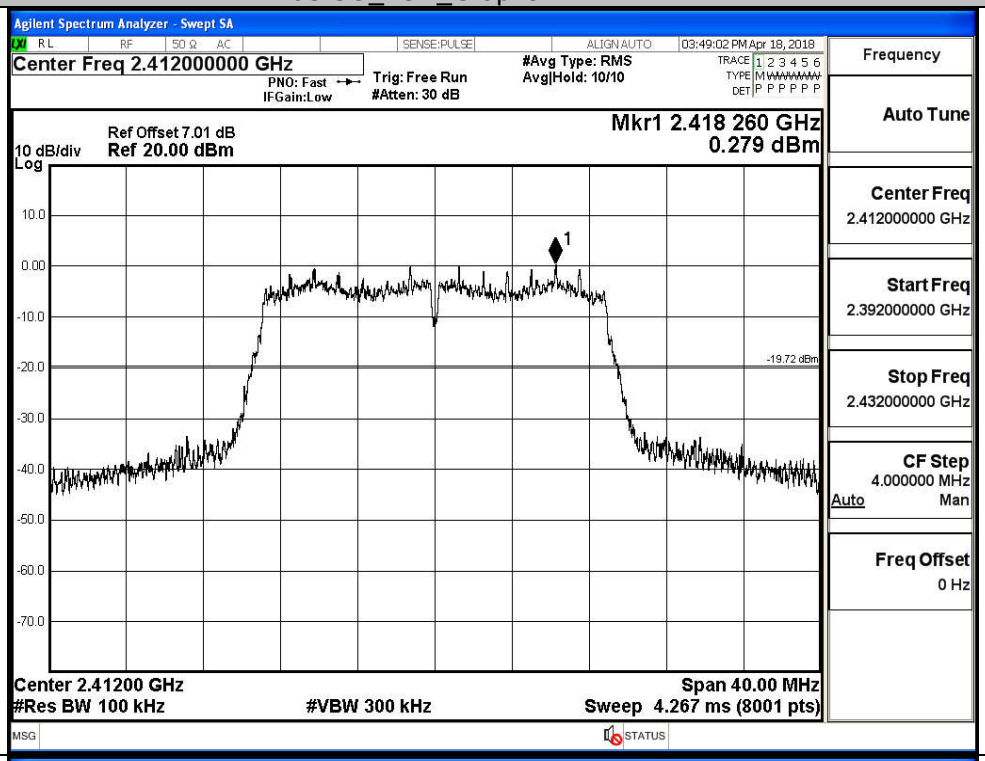
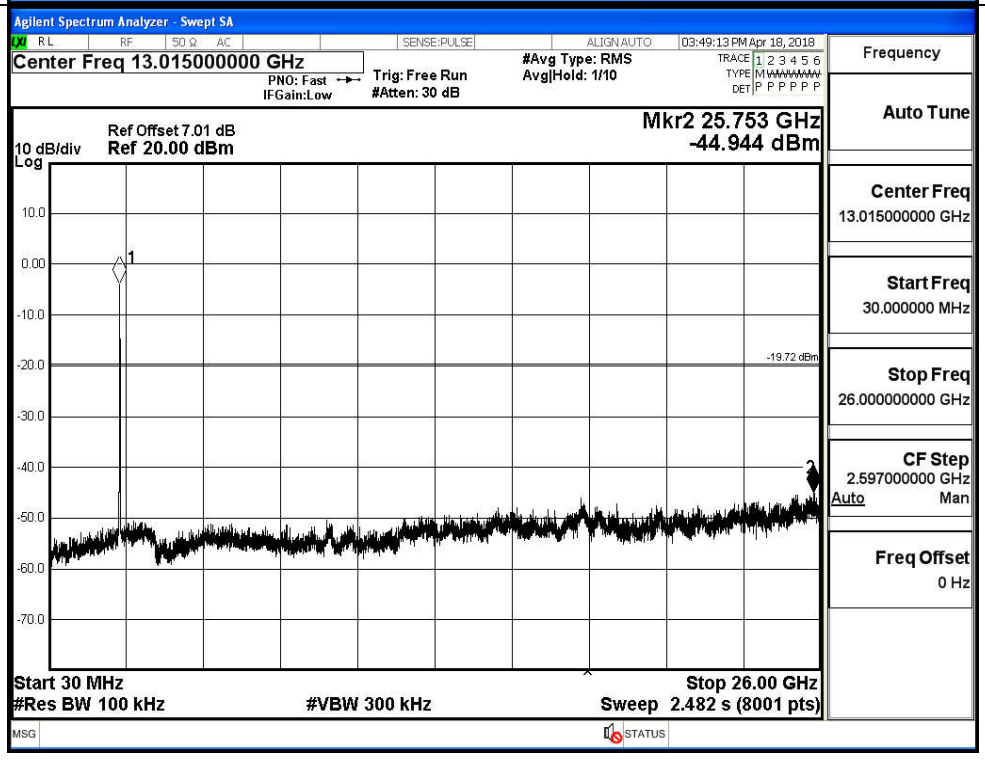
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

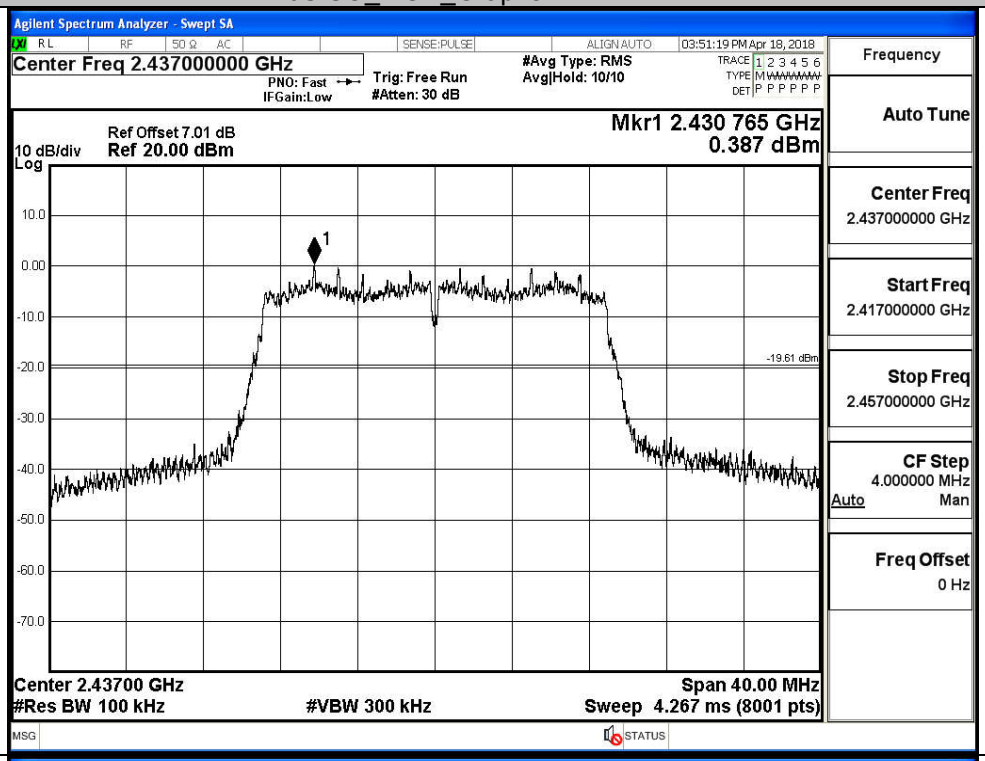
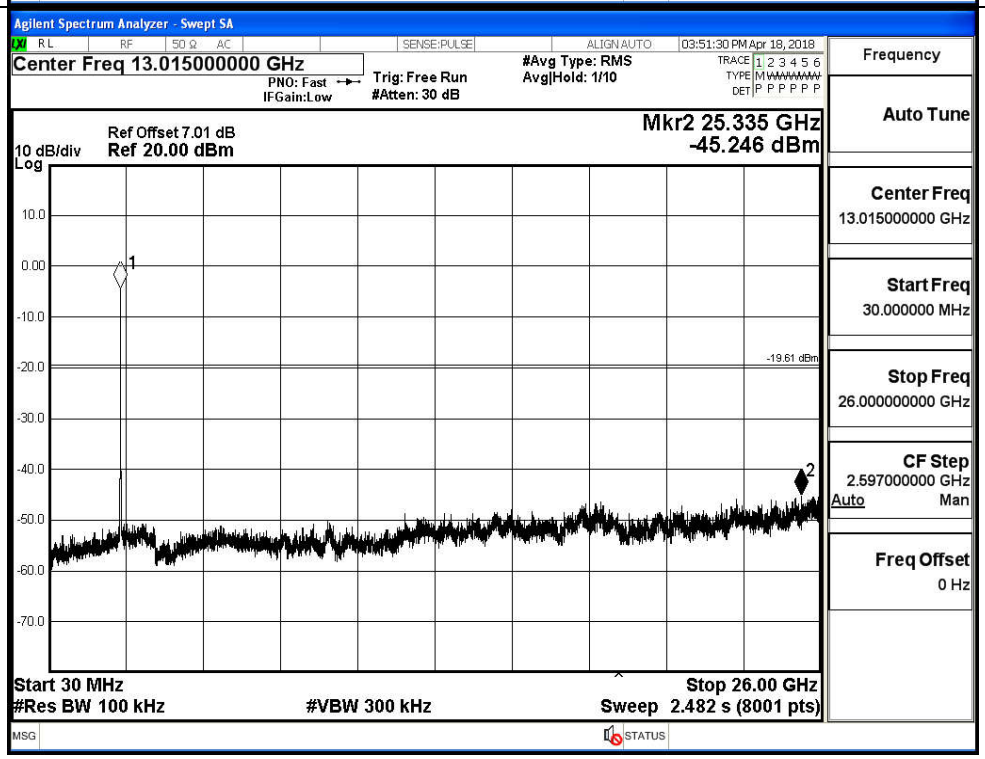
11B_HCH_Graphs	
Pref/11B/HCH	
Puw/11B/HCH	

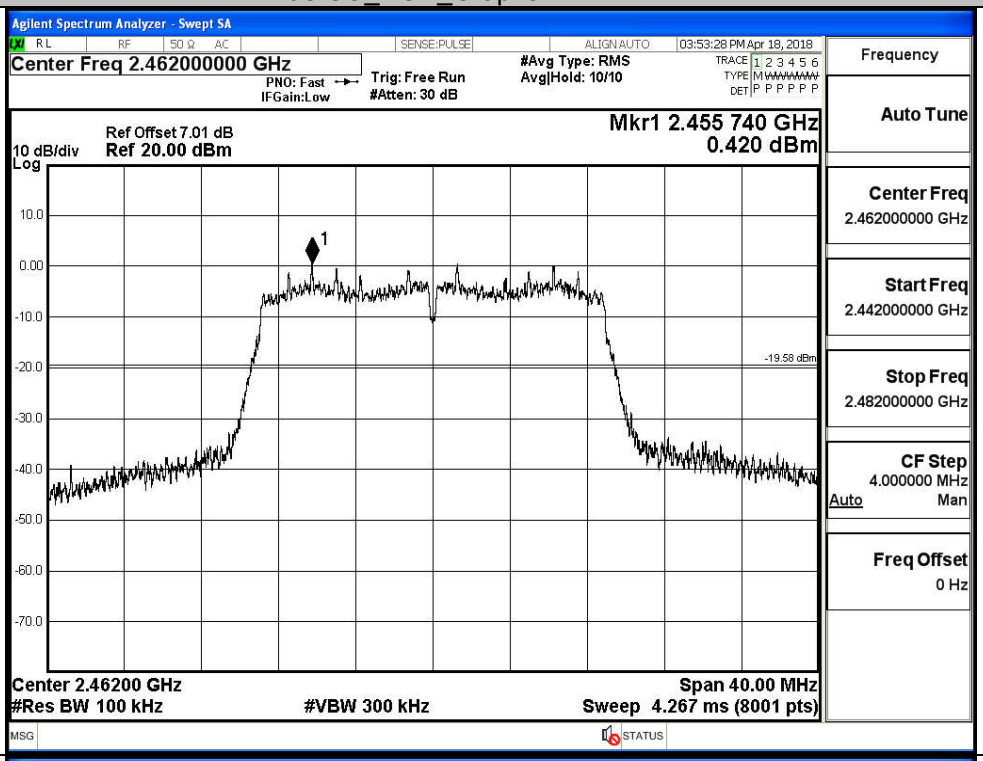
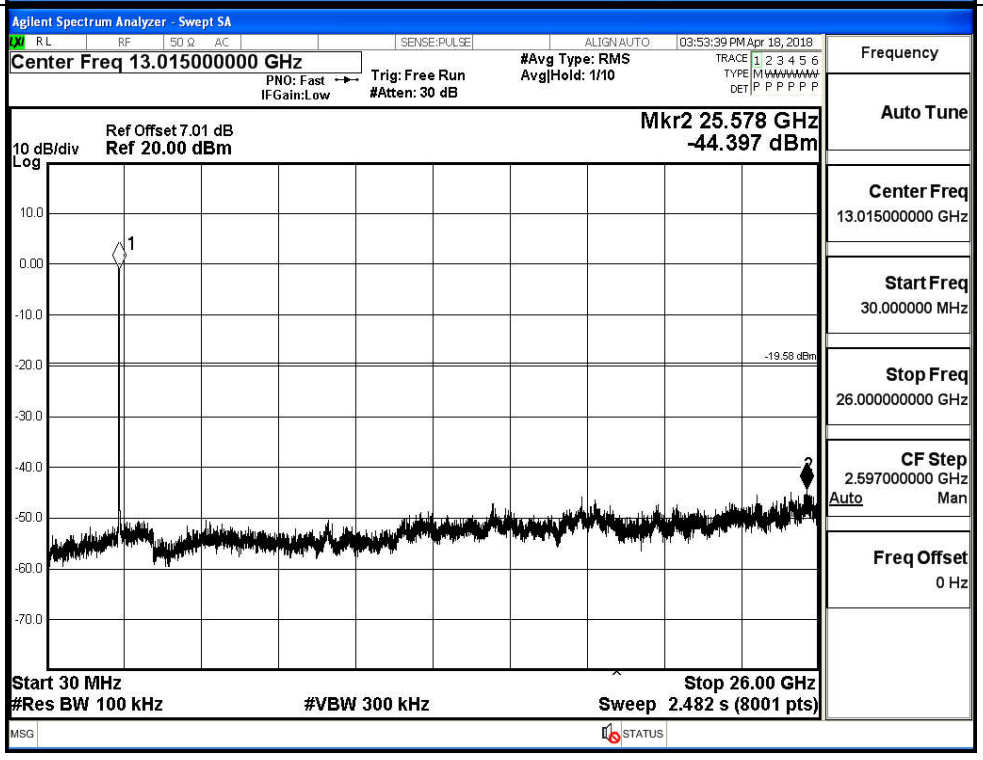
11G_LCH_Graphs	
Pref/11G/LCH	
Puw/11G/LCH	

11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

11G_HCH_Graphs	
Pref/11G/HCH	
Puw/11G/HCH	

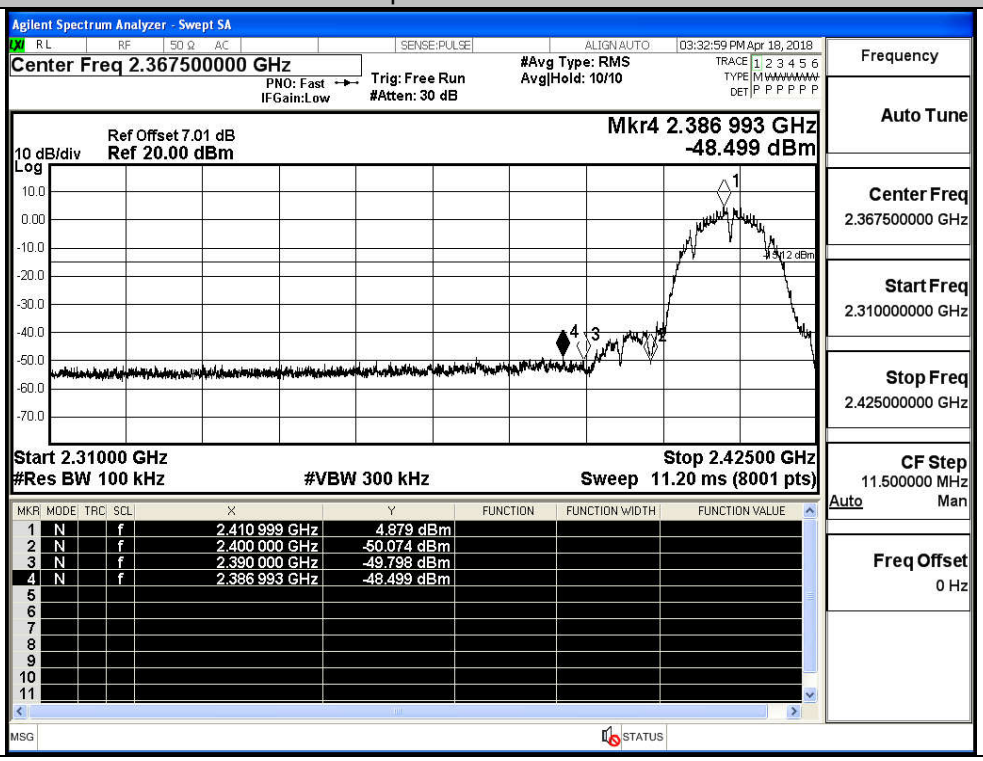
11N20SISO_LCH_Graphs	
Pref/11N20SISO/LCH	
Puw/11N20SISO/LCH	

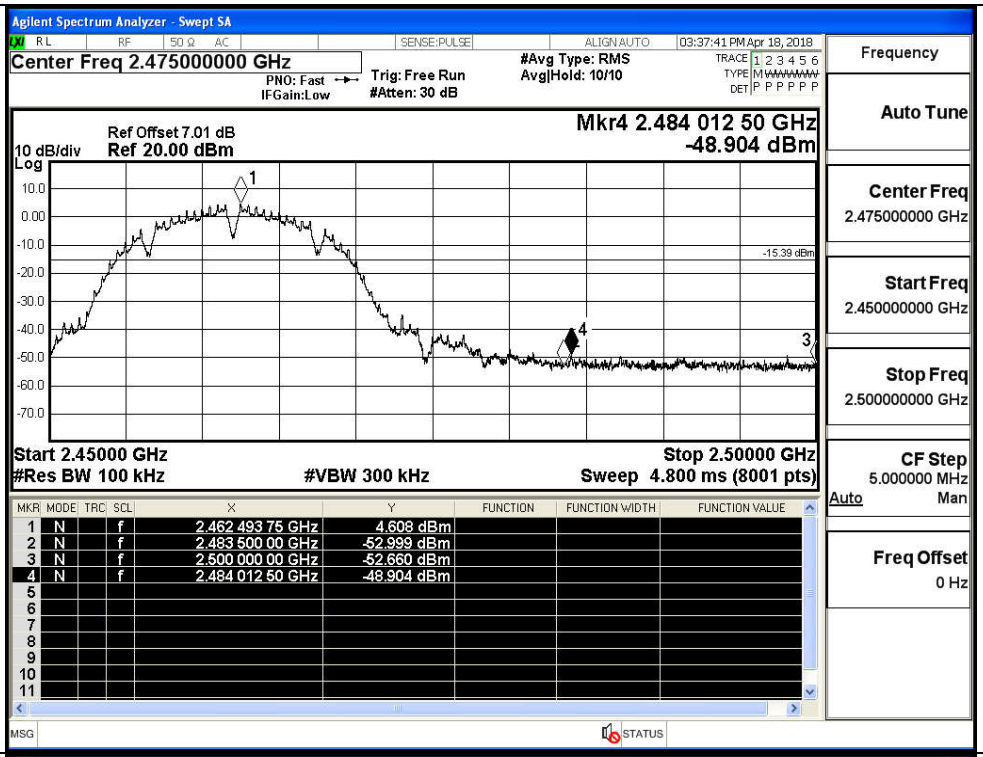
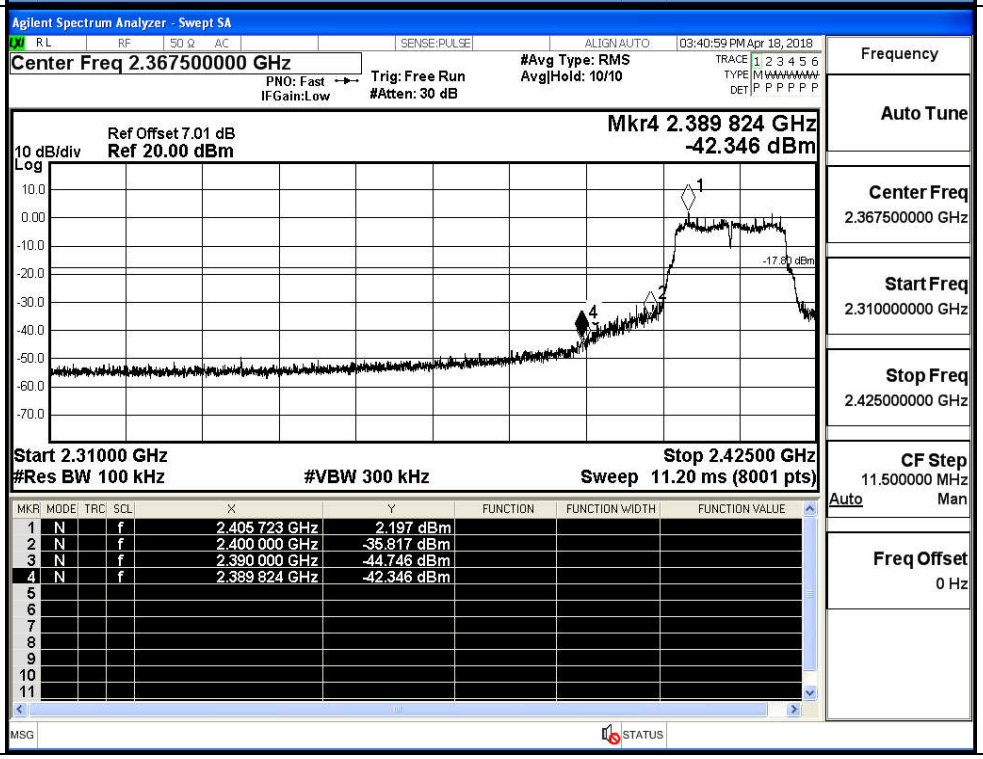
11N20SISO_MCH_Graphs	
Pref/11N20 SISO/MCH	
Puw/11N20 SISO/MCH	

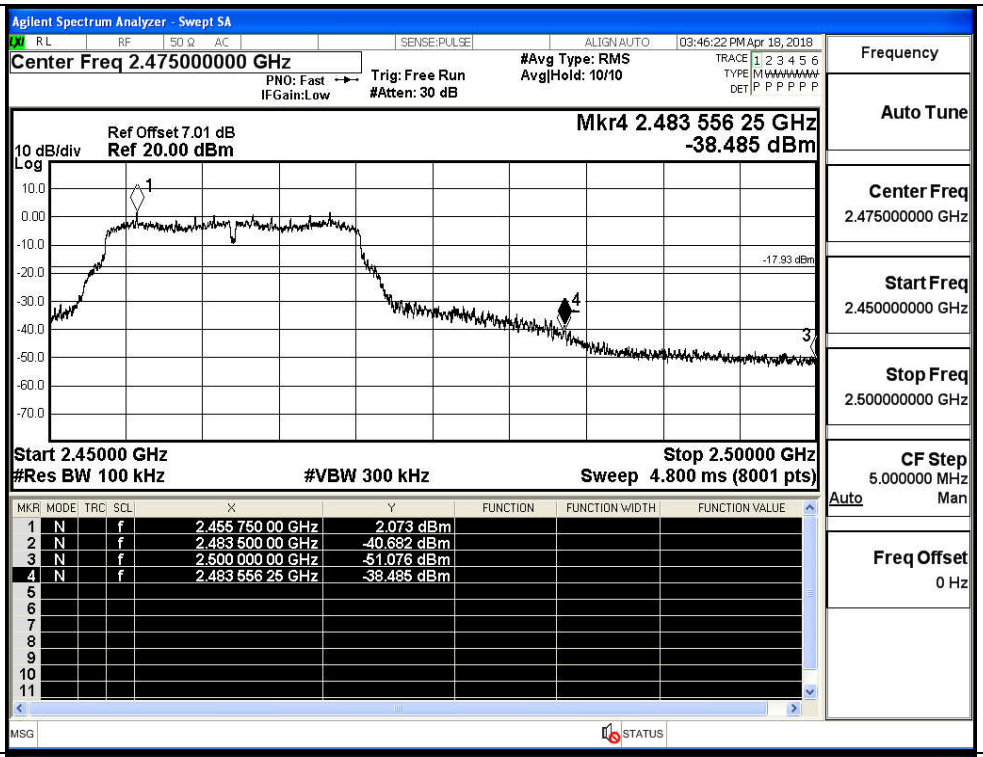
11N20SISO_HCH_Graphs	
Pref/11N20 SISO/HCH	
Puw/11N20 SISO/HCH	

C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.879	-48.499	-15.12	PASS
	HCH	4.608	-48.904	-15.39	PASS
11G	LCH	2.197	-42.346	-17.8	PASS
	HCH	2.073	-38.485	-17.93	PASS
11N20SISO	LCH	0.810	-43.332	-19.19	PASS
	HCH	0.344	-39.963	-19.66	PASS

Test Graphs	
11B/LCH	

11B/HCH	
11G/LCH	

11G/HCH	
11N20SISO/LCH