Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LumiCharge

Trade Mark: N/A

Test Model: LD

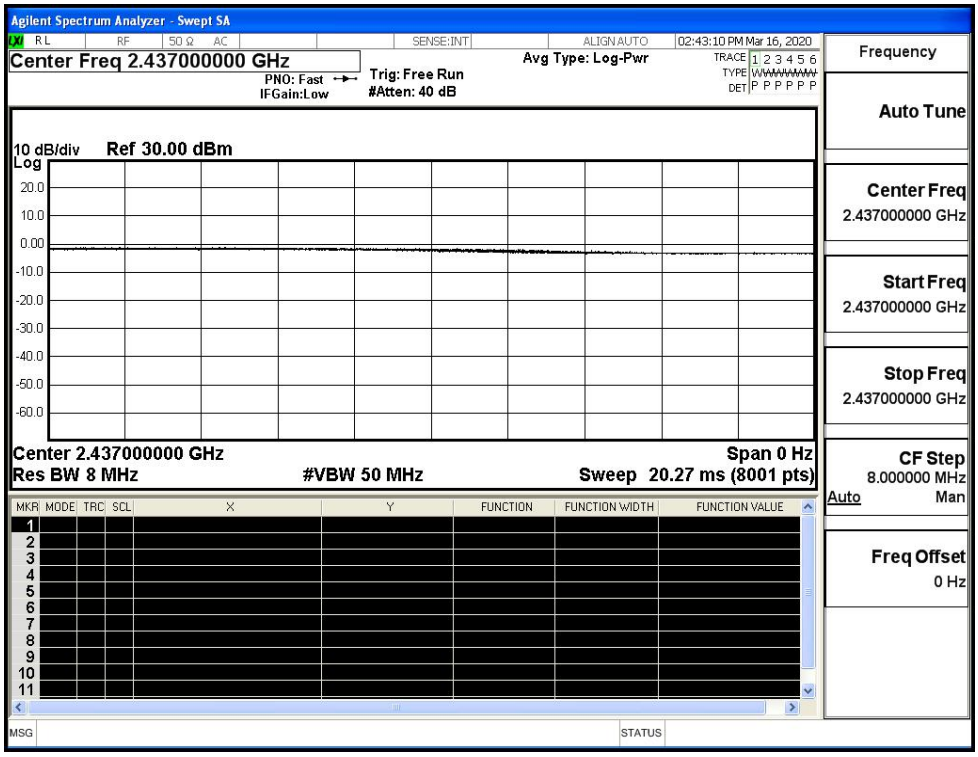
Environmental Conditions

Temperature:	24.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	QUXIN
Supervised by:	Tom.Liu

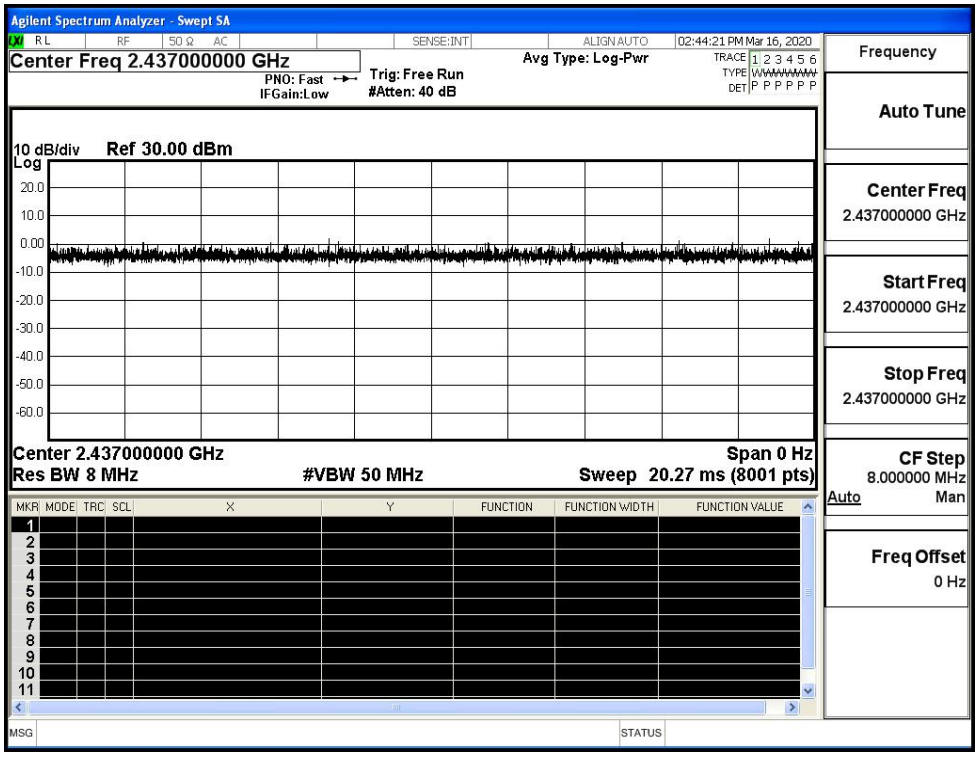
B.1 Duty Cycle

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

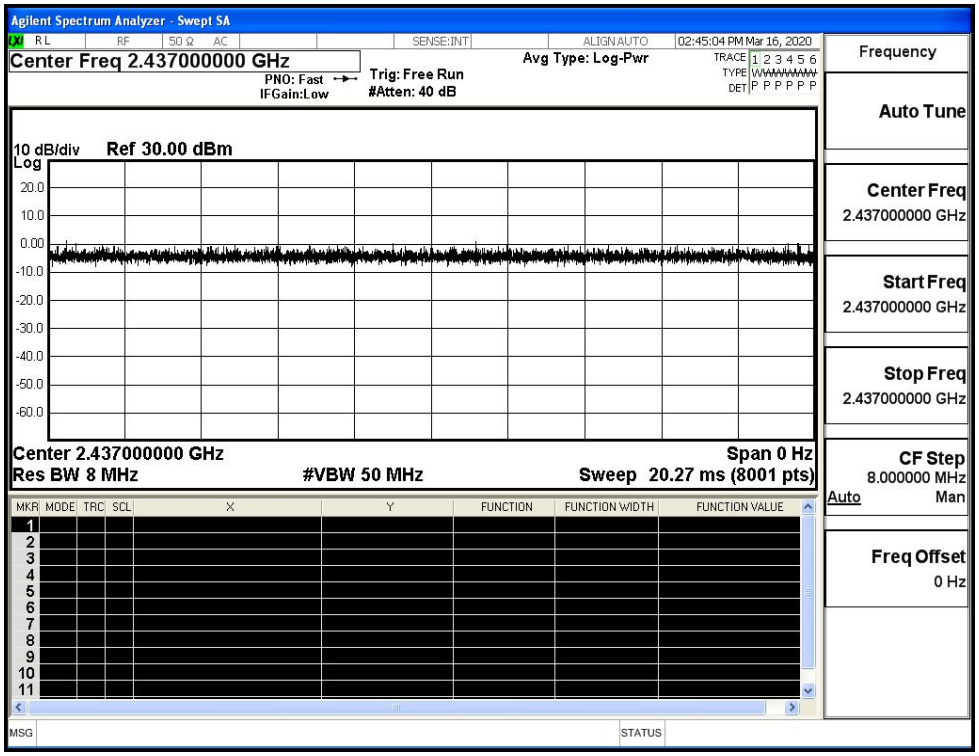
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

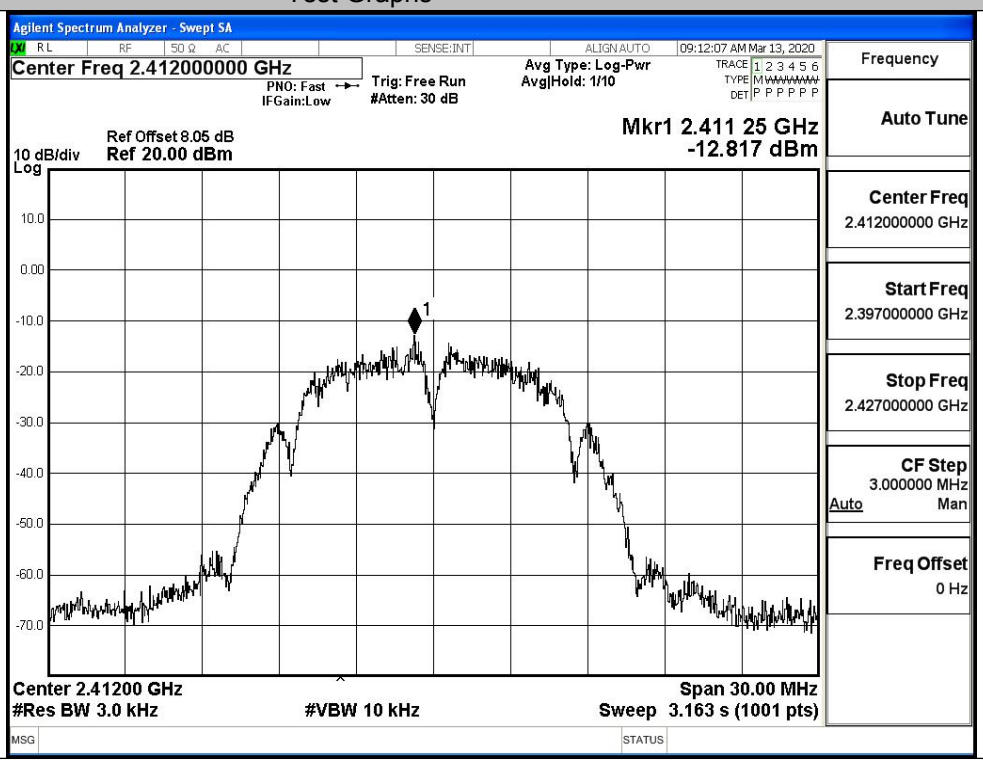


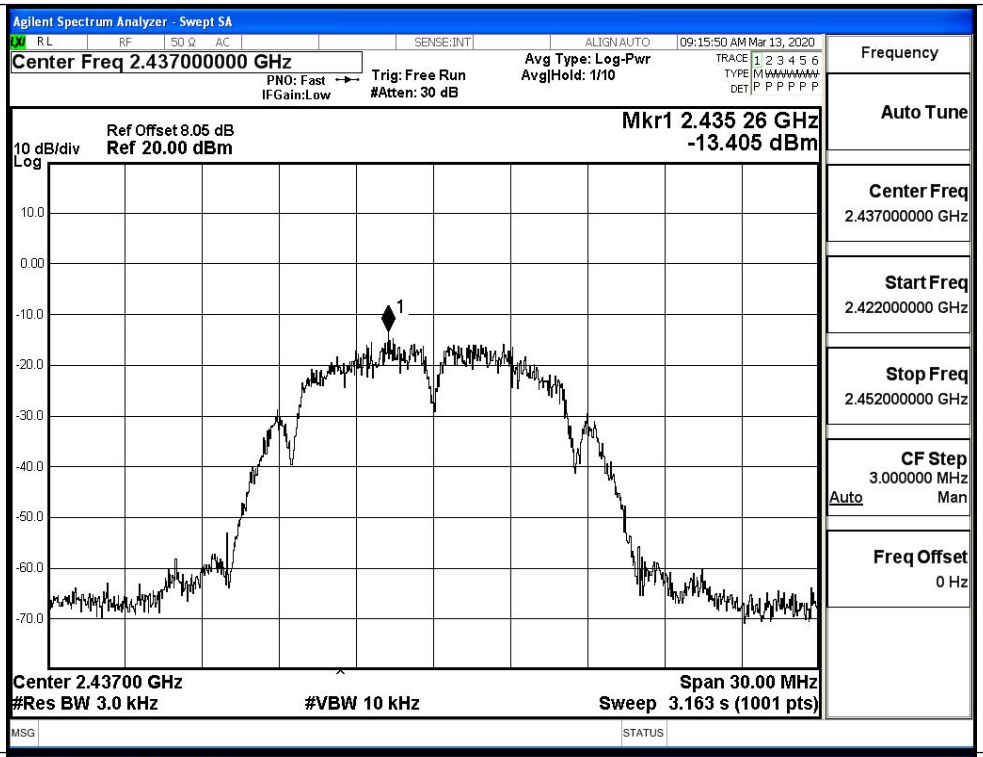
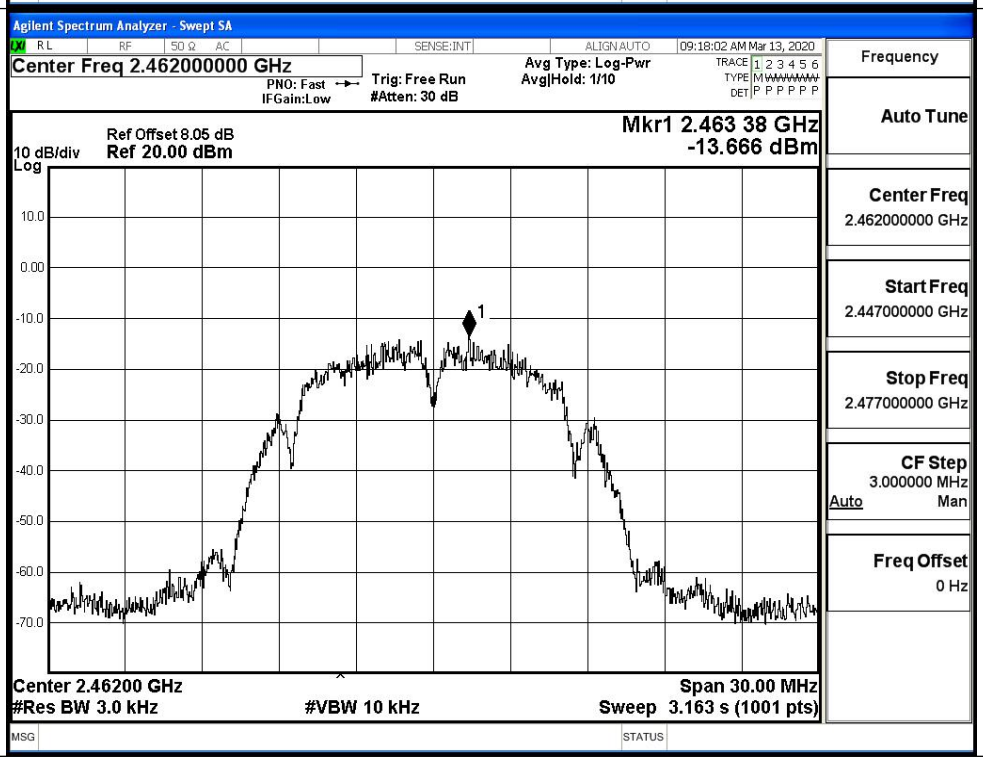
B.2 Maximum Conducted Output Power

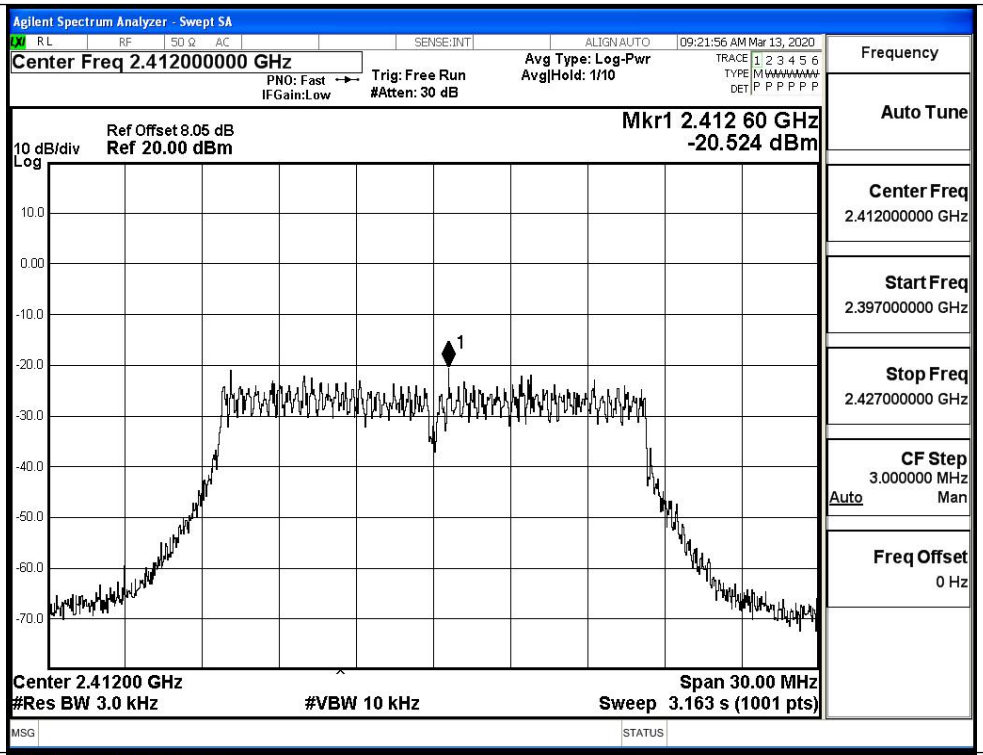
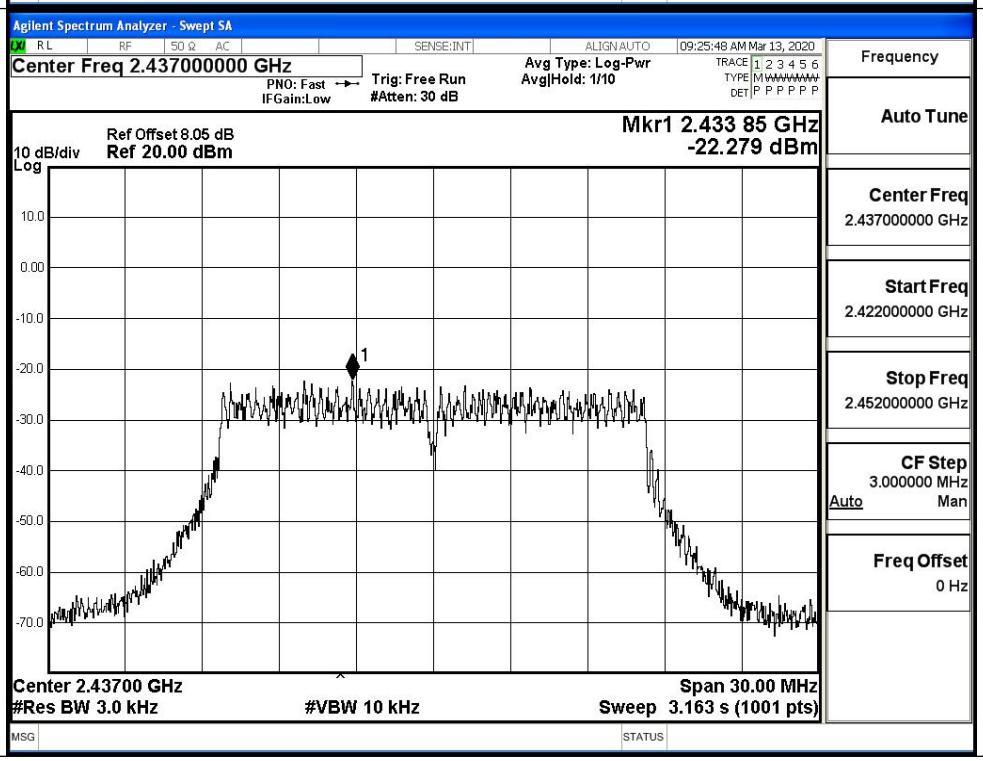
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	11.85	30	PASS
	MCH	12.44	30	PASS
	HCH	12.92	30	PASS
11G	LCH	12.03	30	PASS
	MCH	11.82	30	PASS
	HCH	11.36	30	PASS
11N20SISO	LCH	10.23	30	PASS
	MCH	10.66	30	PASS
	HCH	11.22	30	PASS

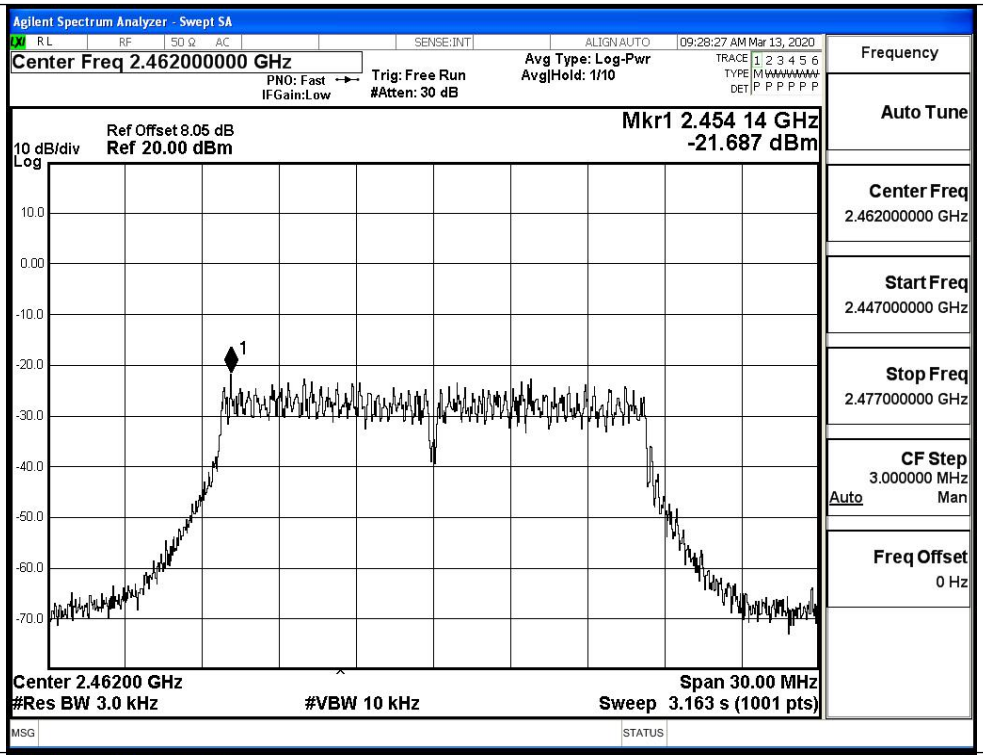
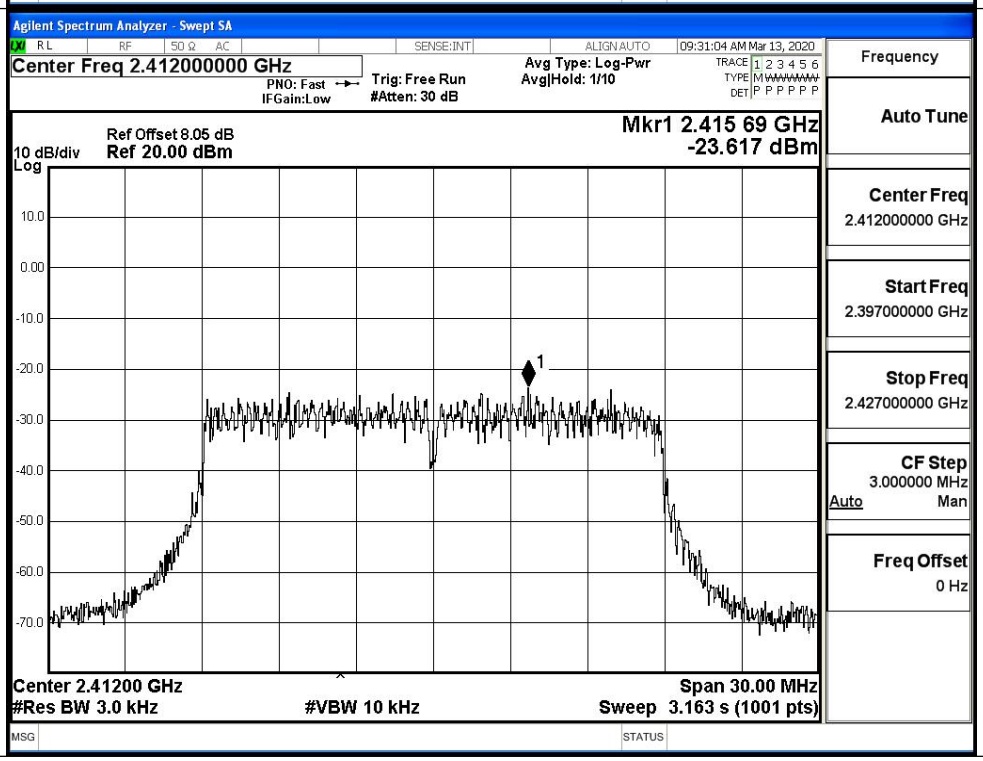
B.3 Maximum Power Spectral Density

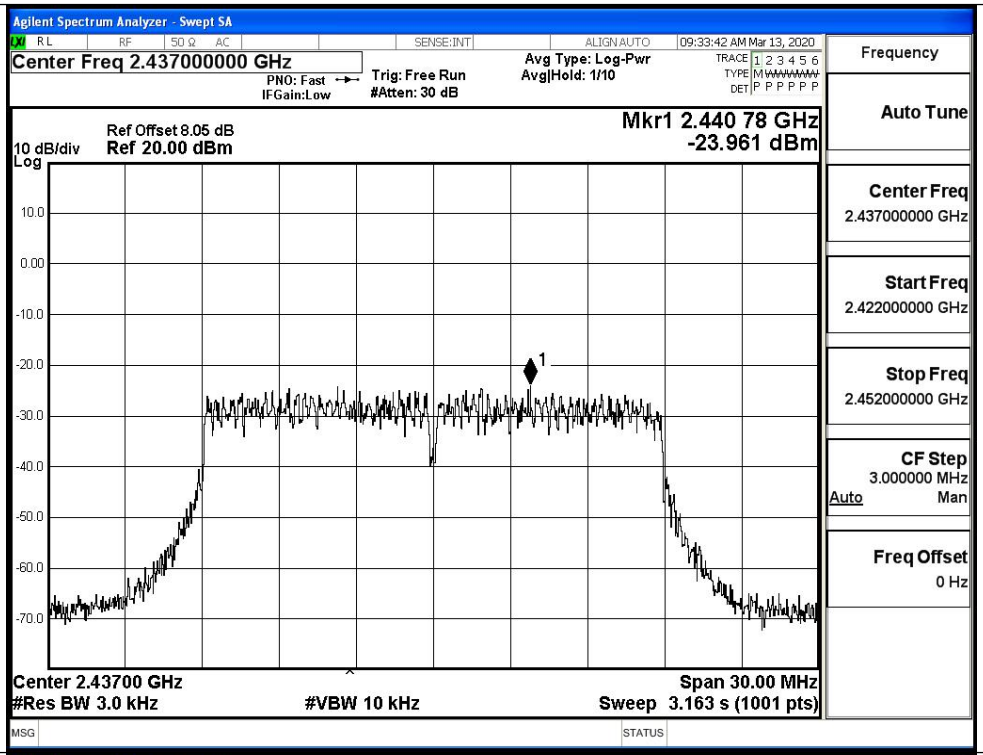
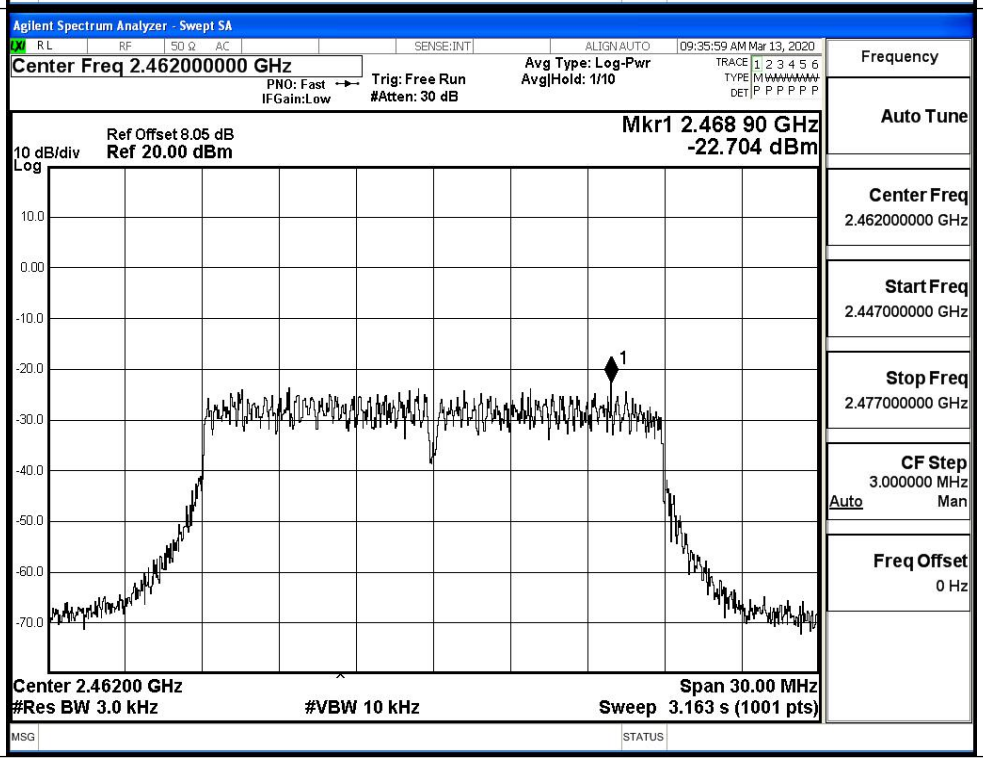
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-12.817	8	PASS
	MCH	-13.405	8	PASS
	HCH	-13.666	8	PASS
11G	LCH	-20.524	8	PASS
	MCH	-22.279	8	PASS
	HCH	-21.687	8	PASS
11N20SISO	LCH	-23.617	8	PASS
	MCH	-23.961	8	PASS
	HCH	-22.704	8	PASS

Test Graphs		
11B/LCH		

11B/MCH		
11B/HCH		

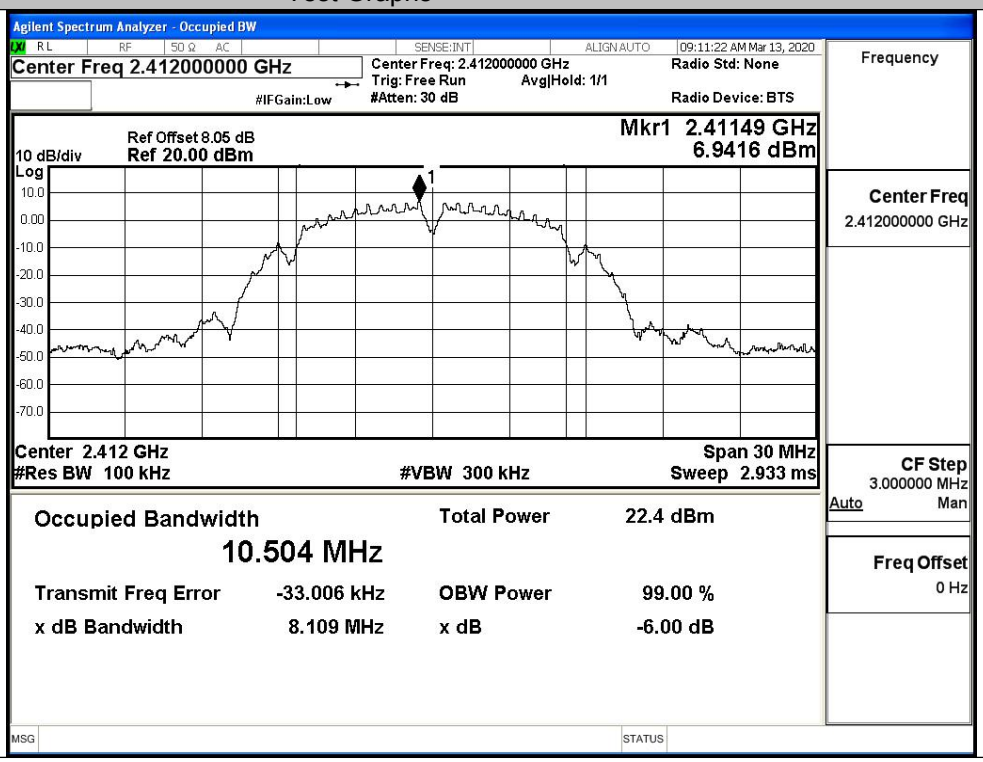
11G/LCH		
11G/MCH		

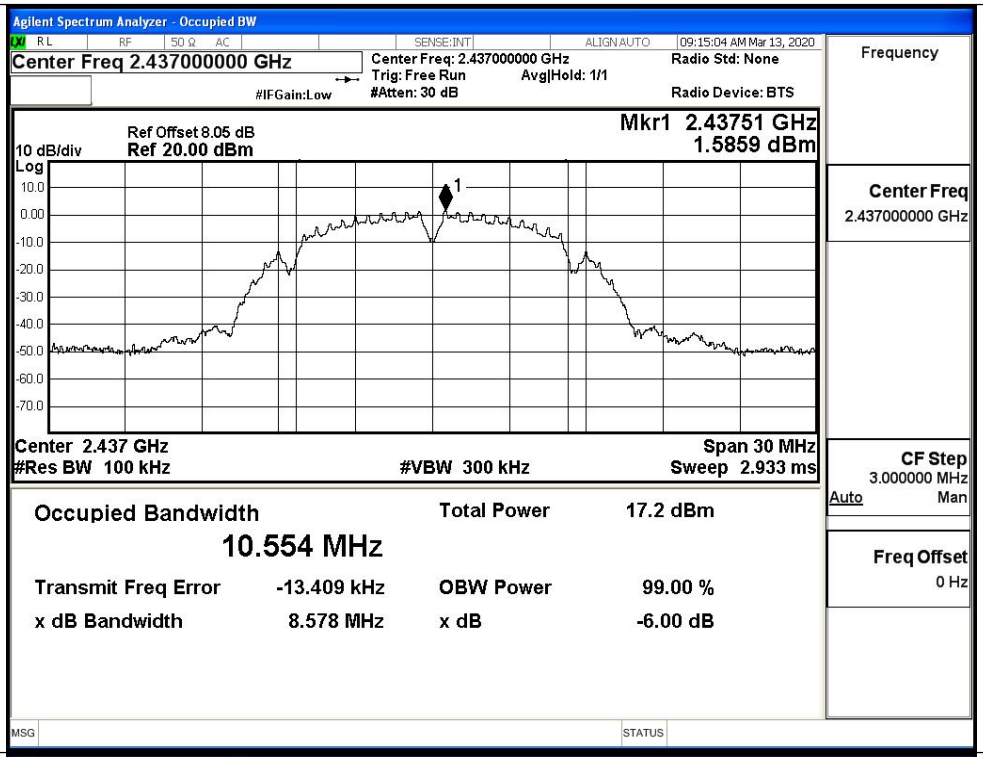
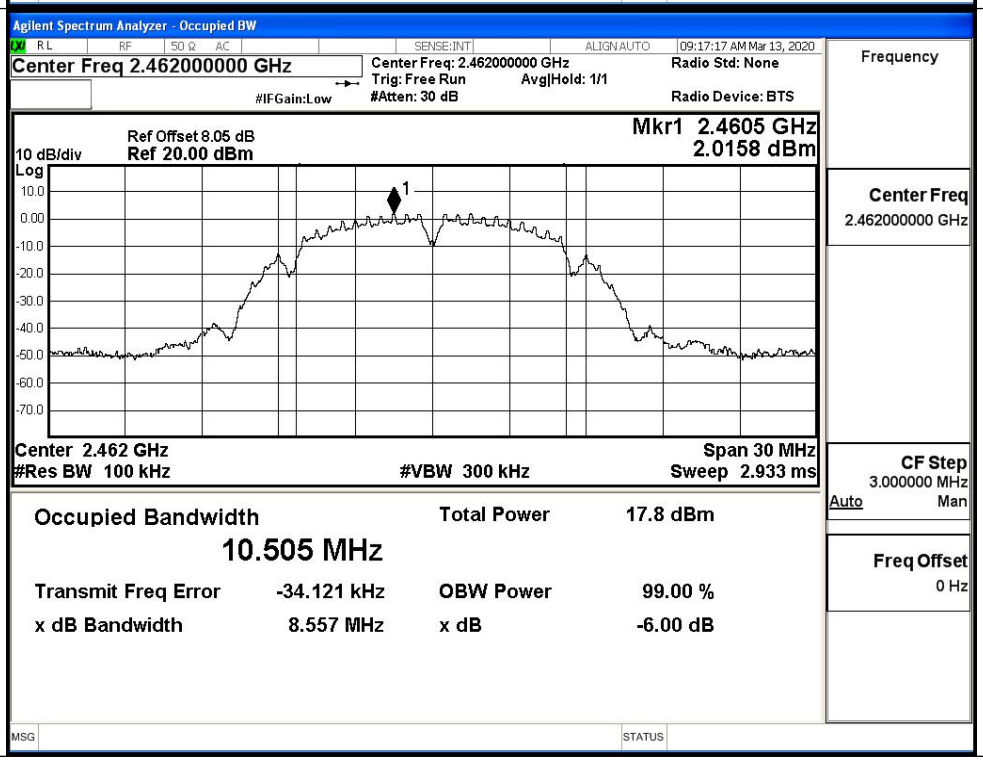
11G/HCH		
11N20SISO/LCH		

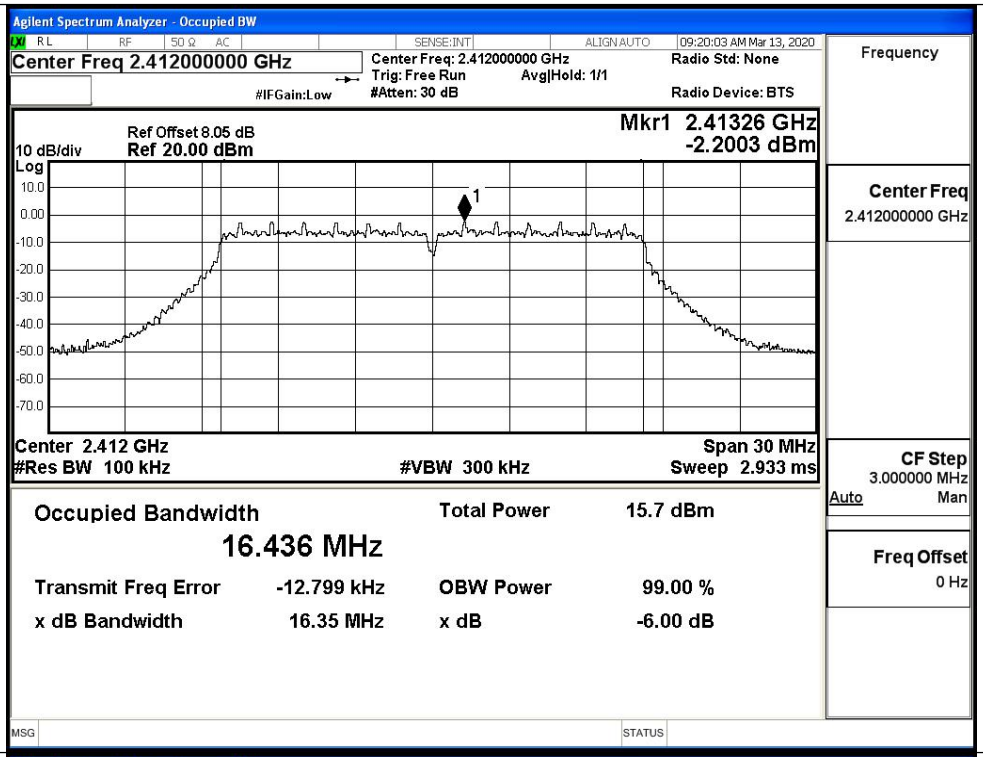
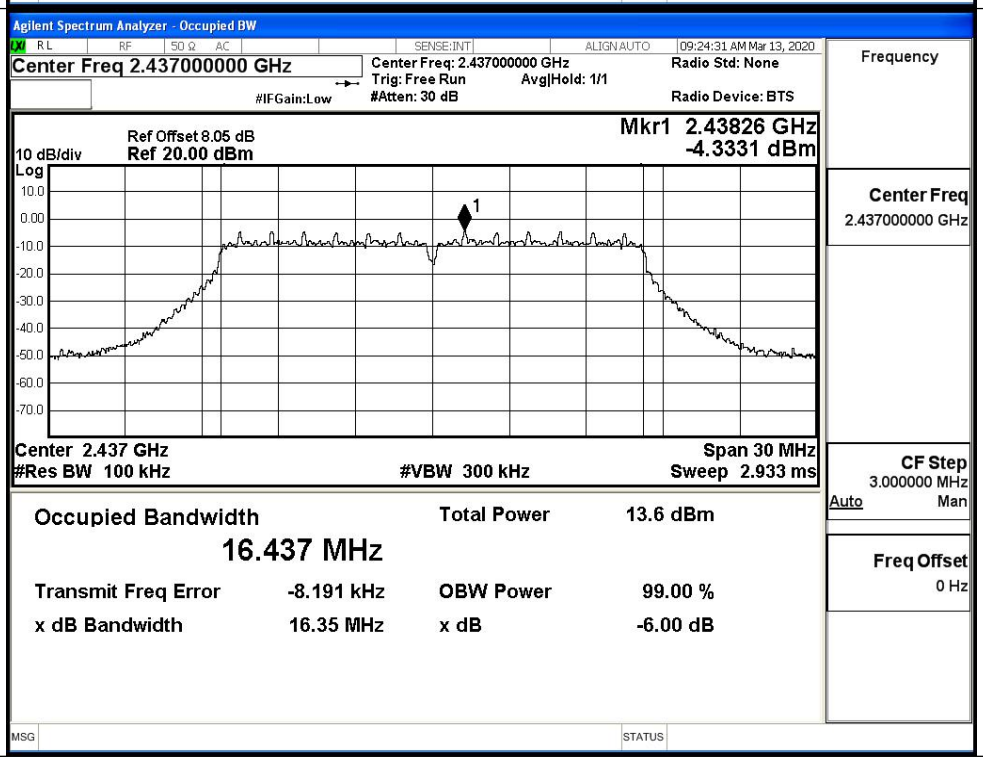
11N20SISO/MCH		
11N20SISO/HCH		

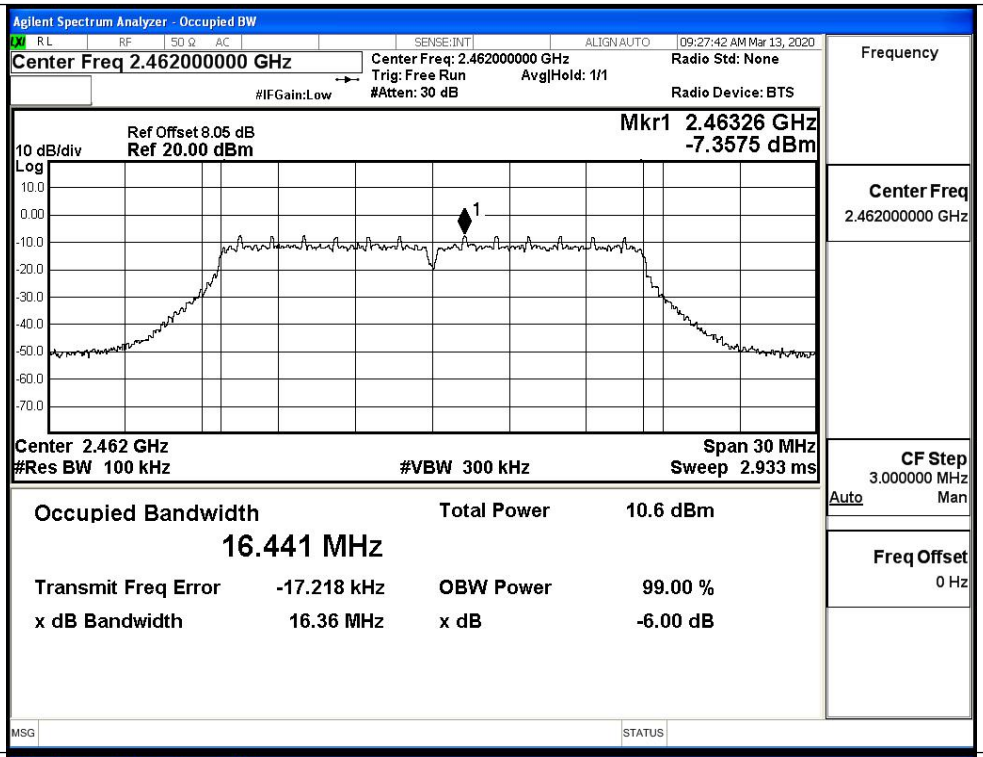
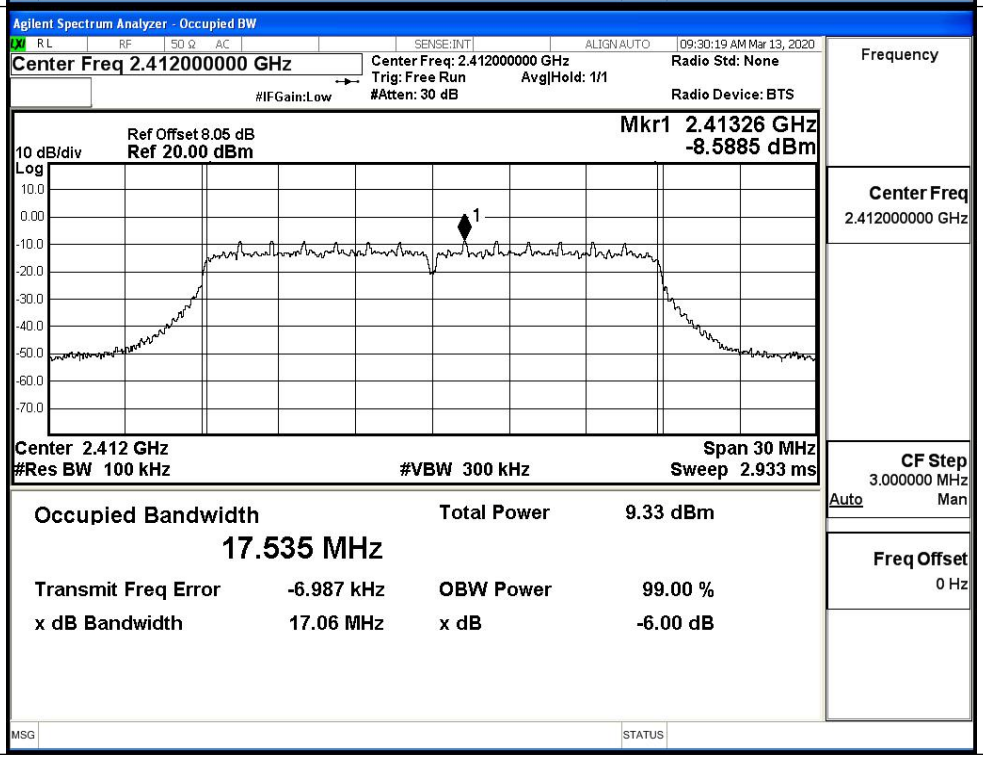
B.4 6dB Bandwidth

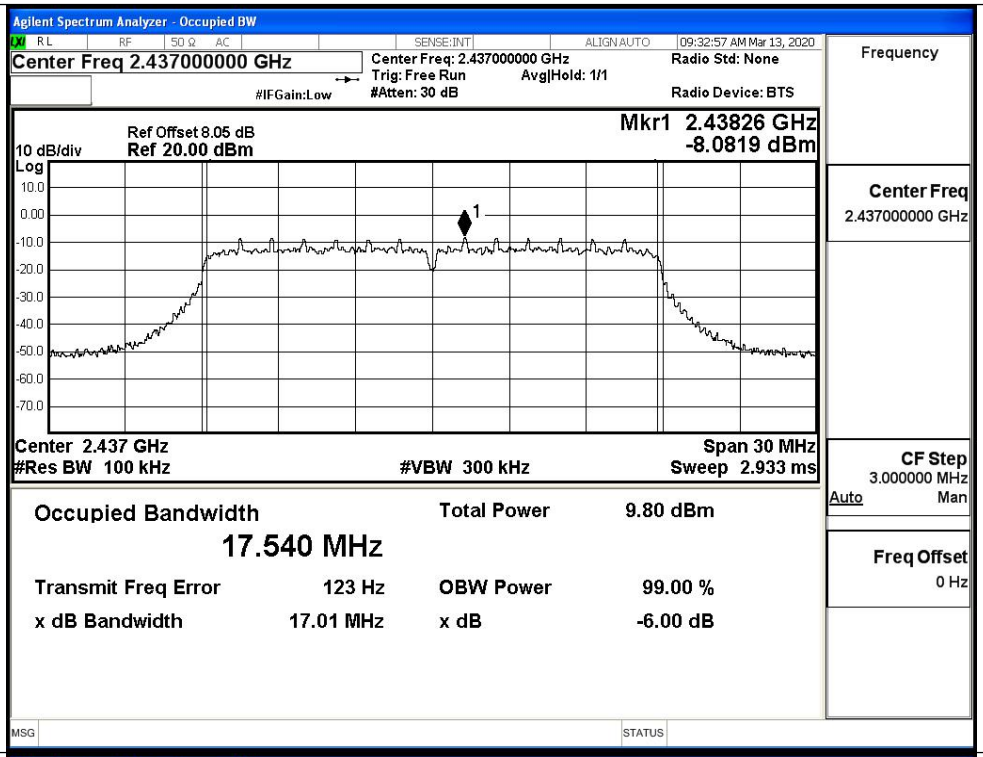
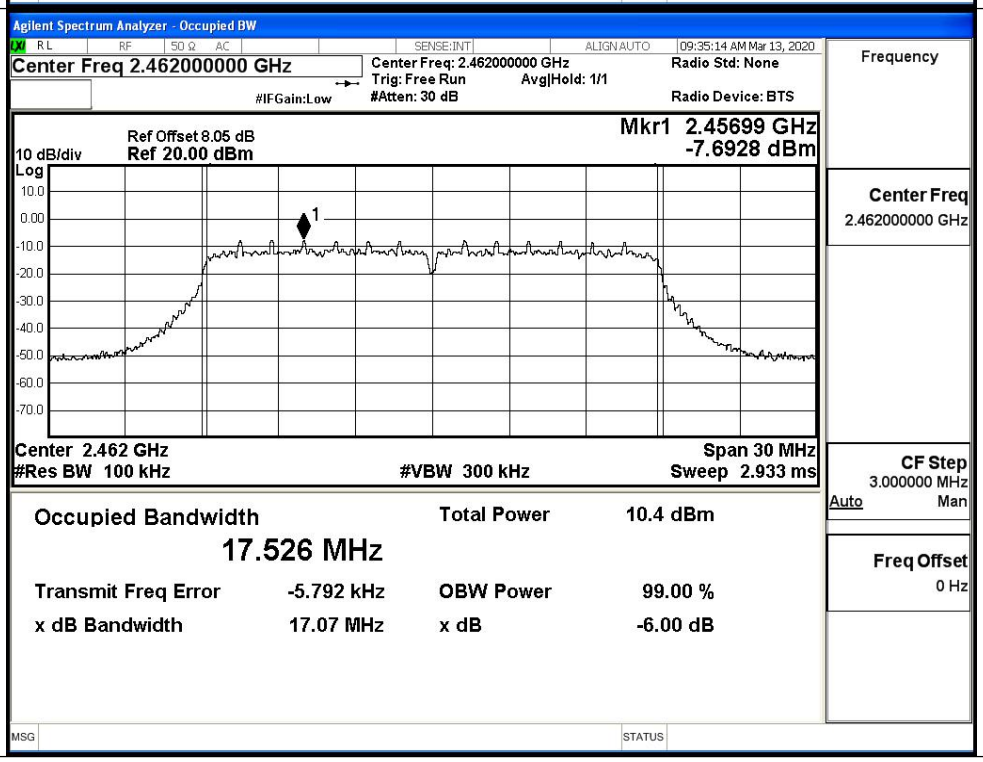
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.109	⩾0.5	PASS
	MCH	8.578	⩾0.5	PASS
	HCH	8.557	⩾0.5	PASS
11G	LCH	16.35	⩾0.5	PASS
	MCH	16.35	⩾0.5	PASS
	HCH	16.36	⩾0.5	PASS
11N20SISO	LCH	17.06	⩾0.5	PASS
	MCH	17.01	⩾0.5	PASS
	HCH	17.07	⩾0.5	PASS

Test Graphs	
11B/LCH	

11B/MCH		
11B/HCH		

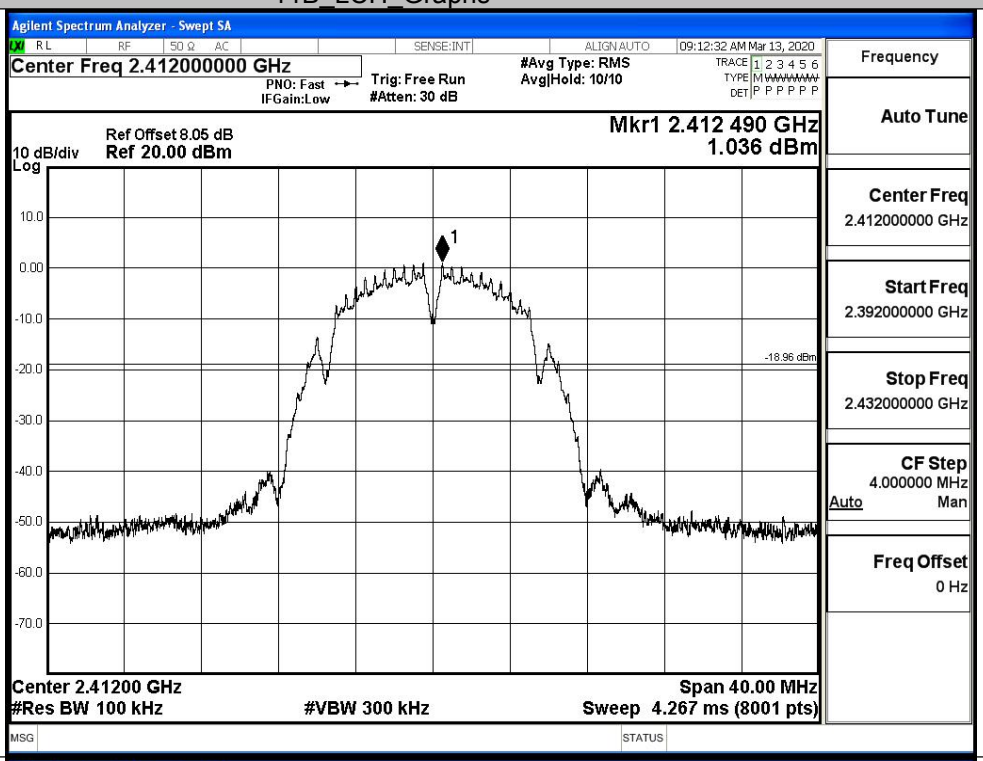
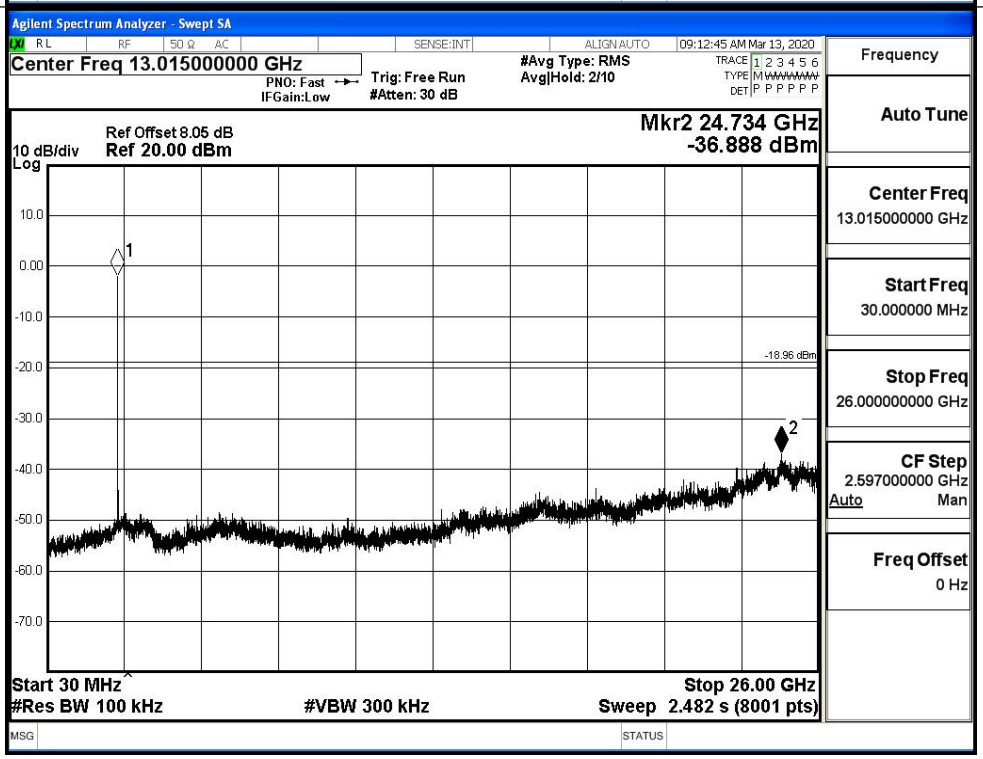
11G/LCH	
11G/MCH	

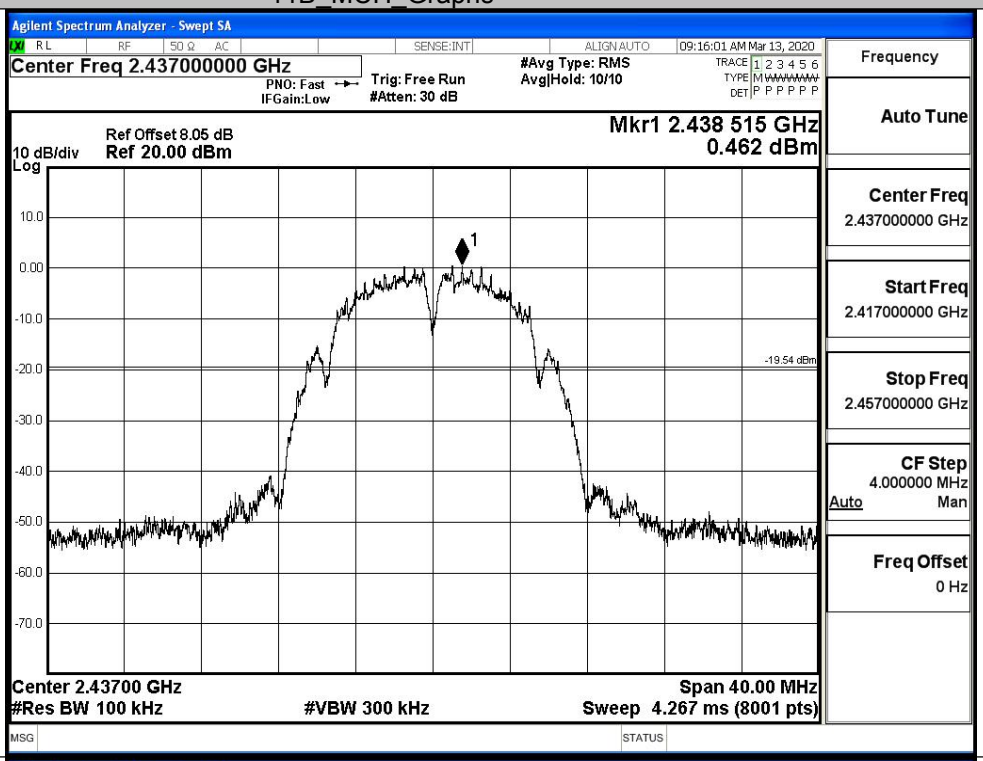
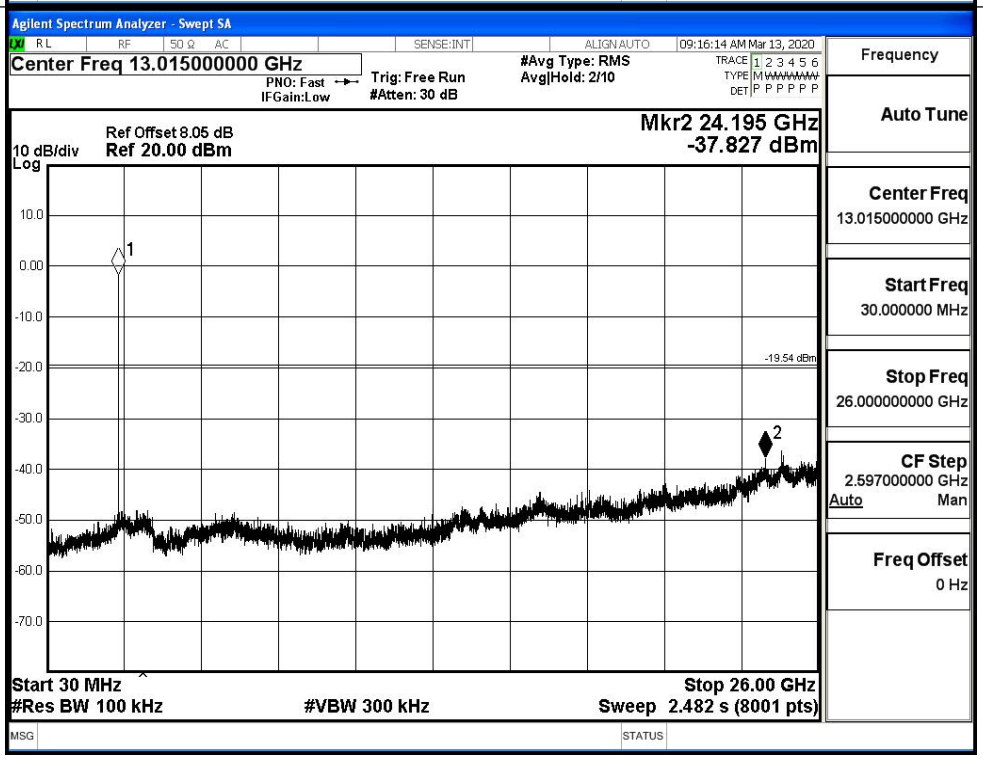
11G/HCH	
11N20SISO/LCH	

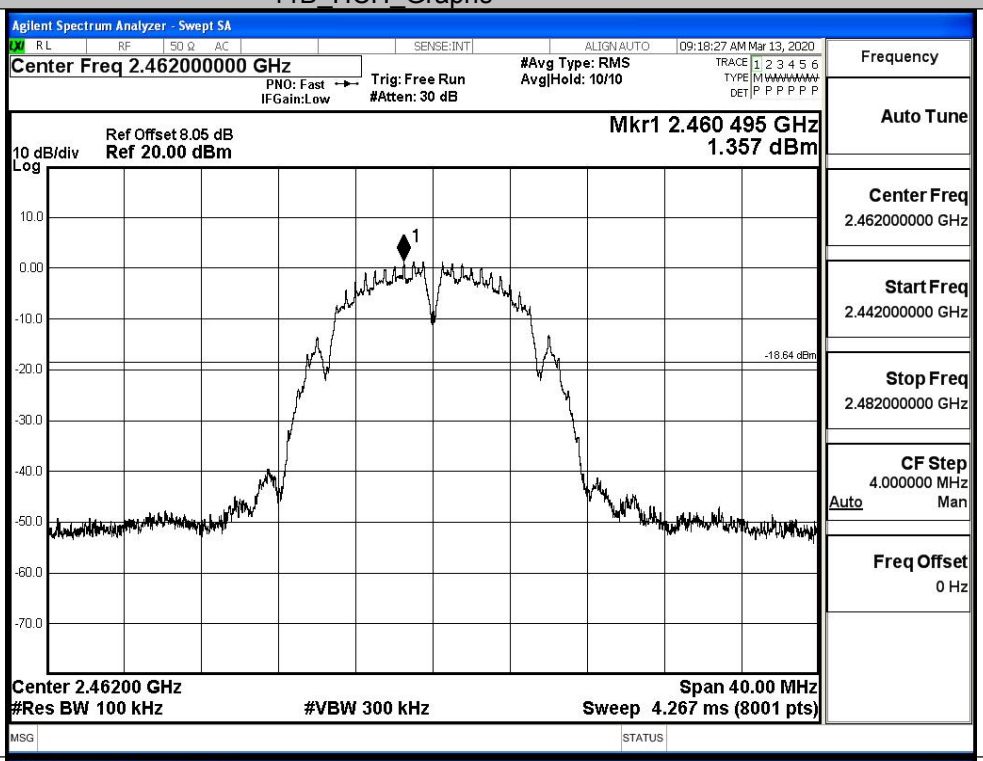
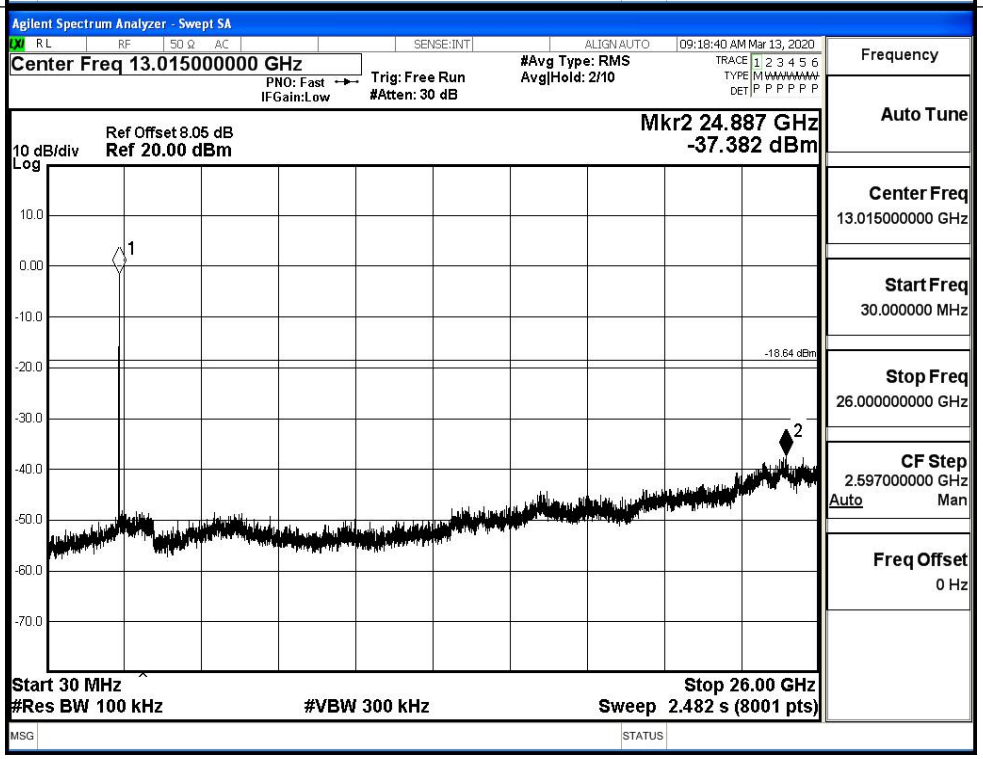
11N20SISO/MCH		
11N20SISO/HCH		

B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.036	-36.888	-18.964	PASS
	MCH	0.462	-37.827	-19.538	PASS
	HCH	1.357	-37.382	-18.643	PASS
11G	LCH	-7.151	-37.666	-27.151	PASS
	MCH	-7.391	-37.107	-27.391	PASS
	HCH	-7.849	-37.974	-27.849	PASS
11N20 SISO	LCH	-8.682	-38.105	-28.682	PASS
	MCH	-8.664	-37.782	-28.664	PASS
	HCH	-7.858	-37.723	-27.858	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