Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Laptop
Trade Mark: N/A
Test Model: ACL1

Environmental Conditions

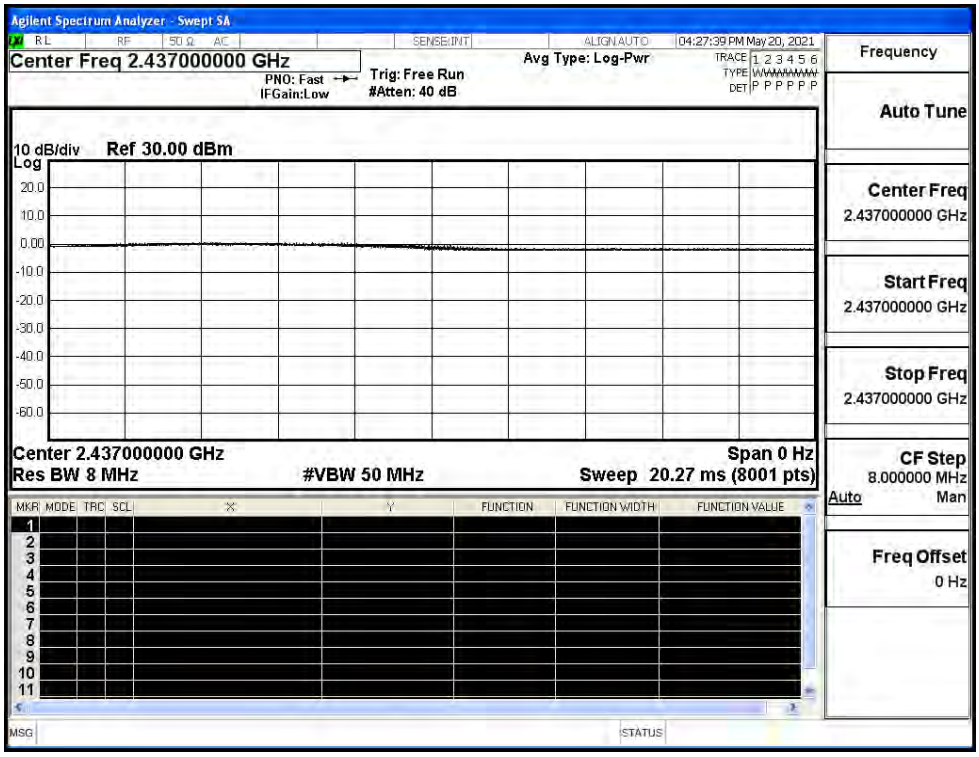
Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

C.1 Duty Cycle

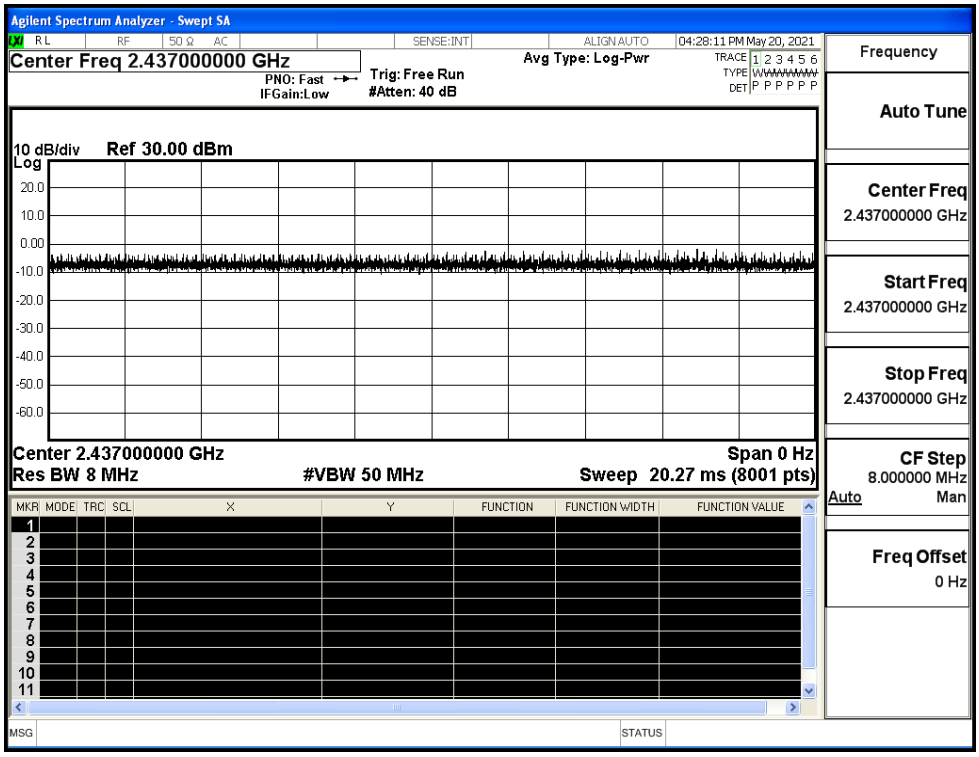
ANT0

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

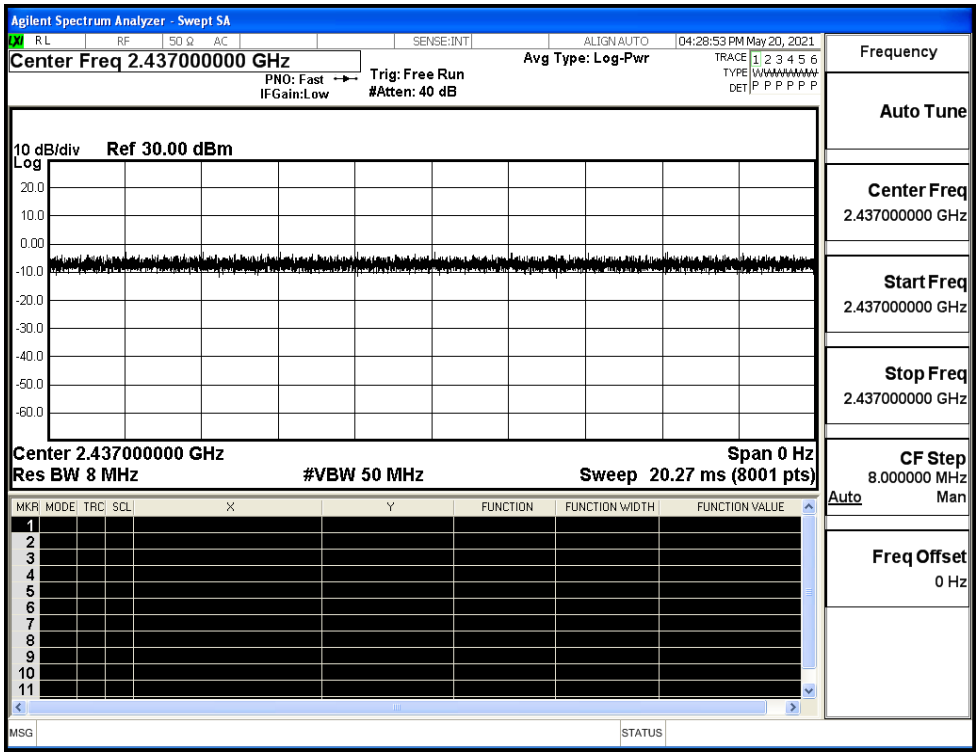
Duty Cycle_11B_2437_Ant1



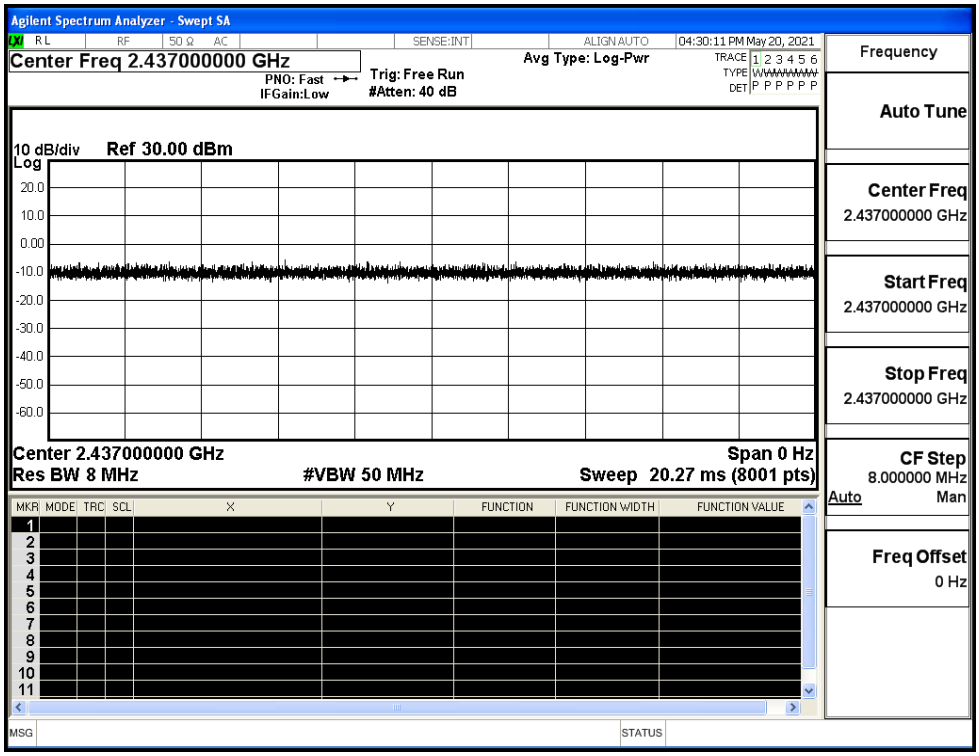
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



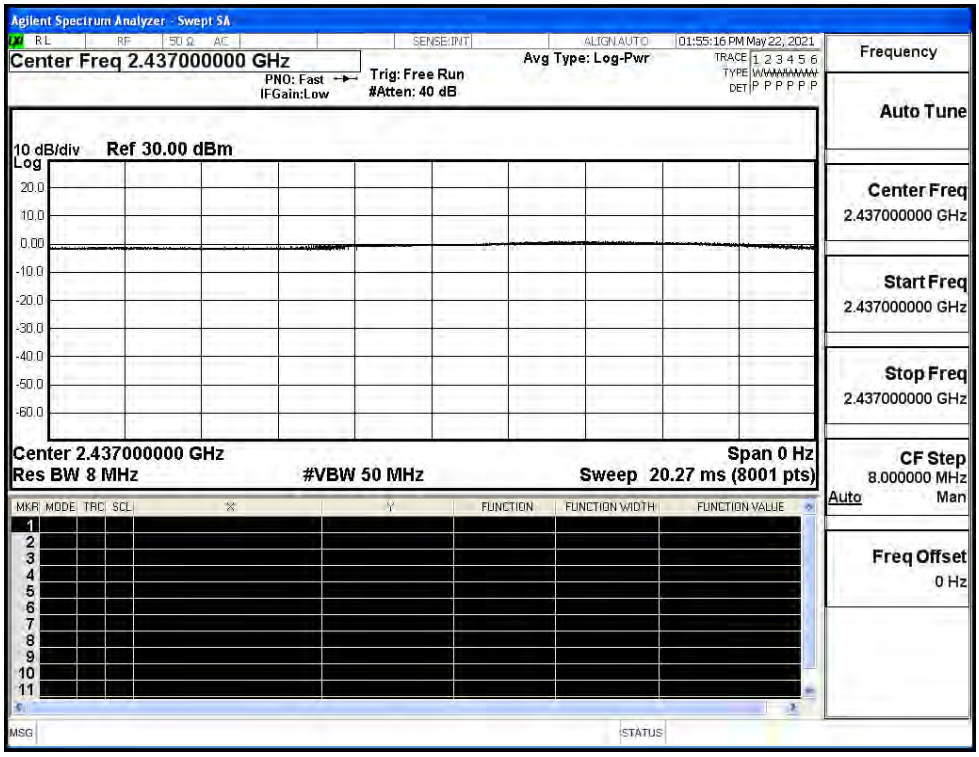
Duty Cycle_11N40SISO_2437_Ant1



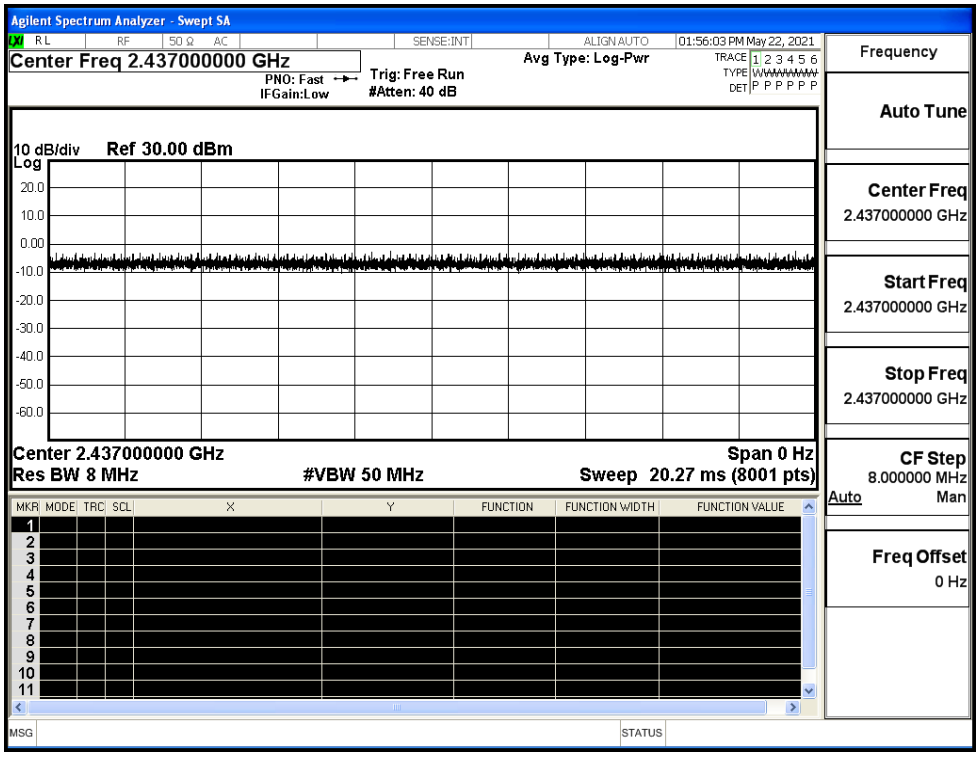
ANT1

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

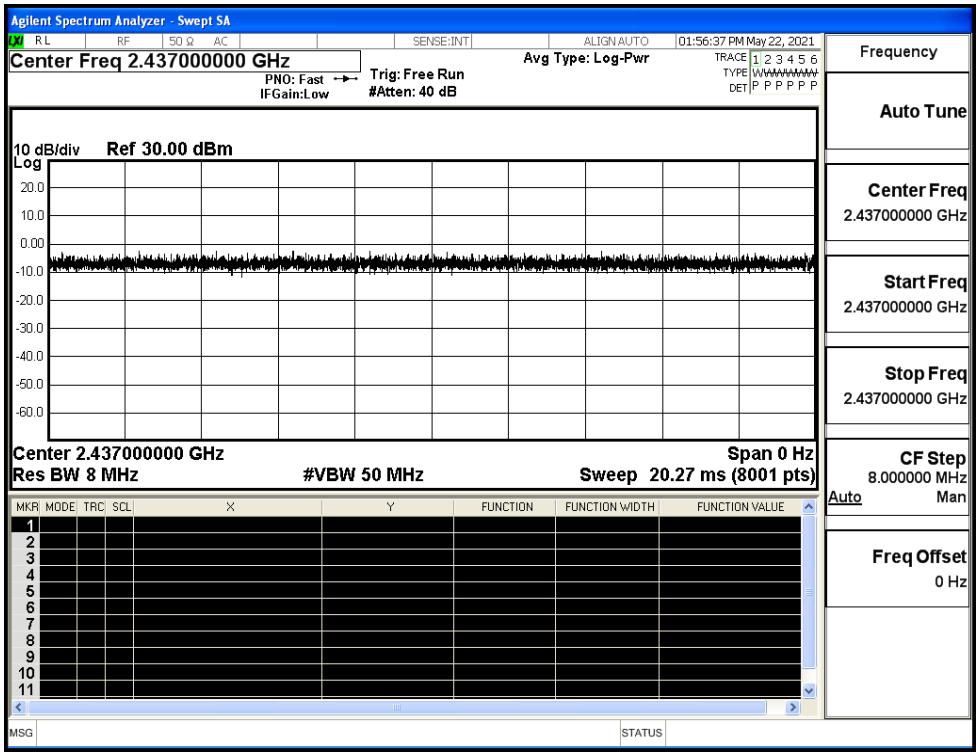
Duty Cycle_11B_2437_Ant1



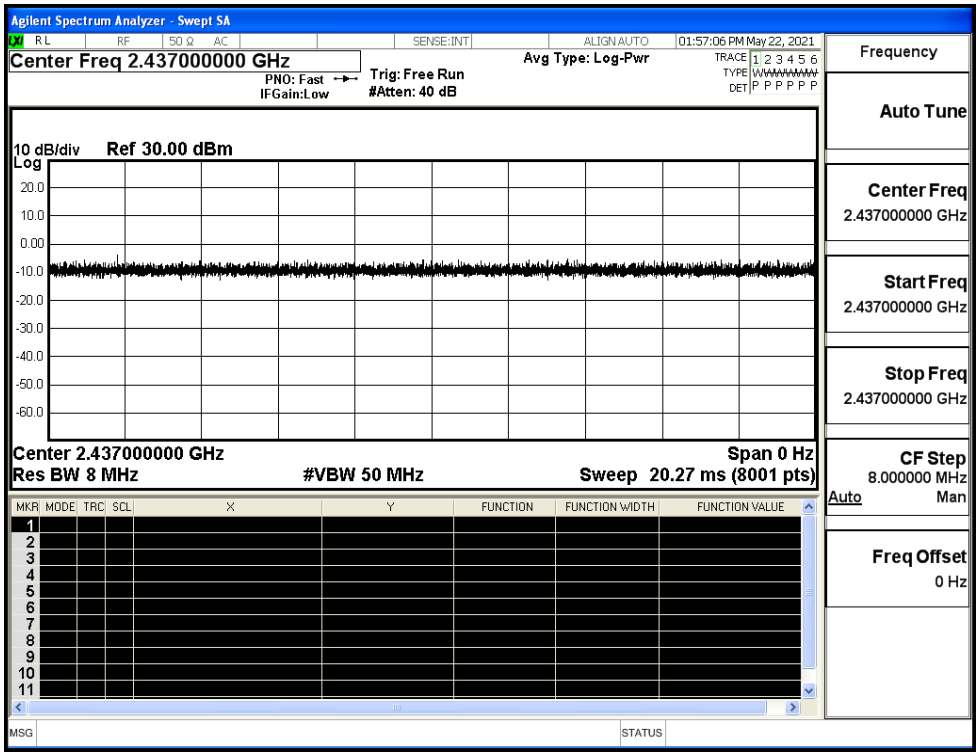
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

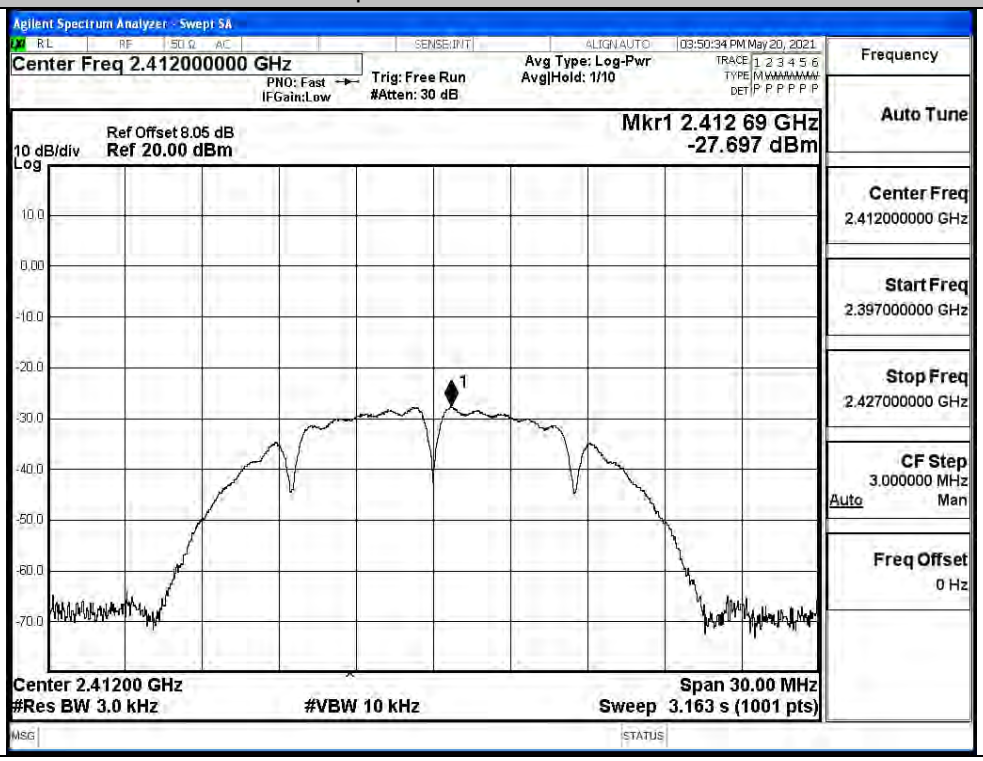


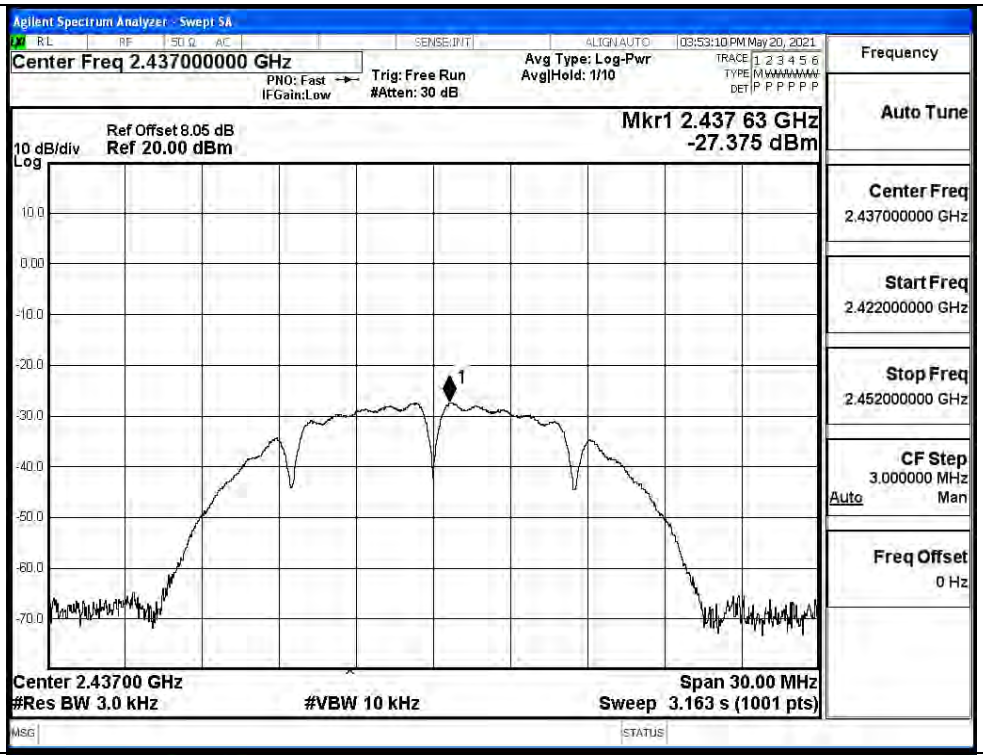
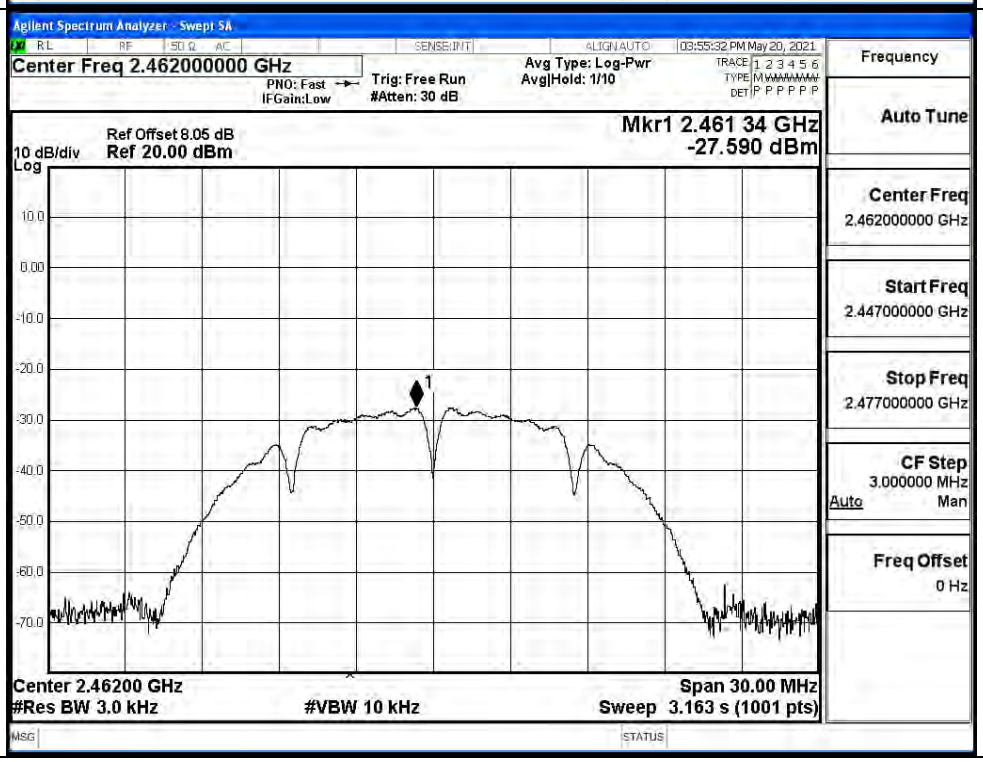
C.2 Maximum Conducted Output Power

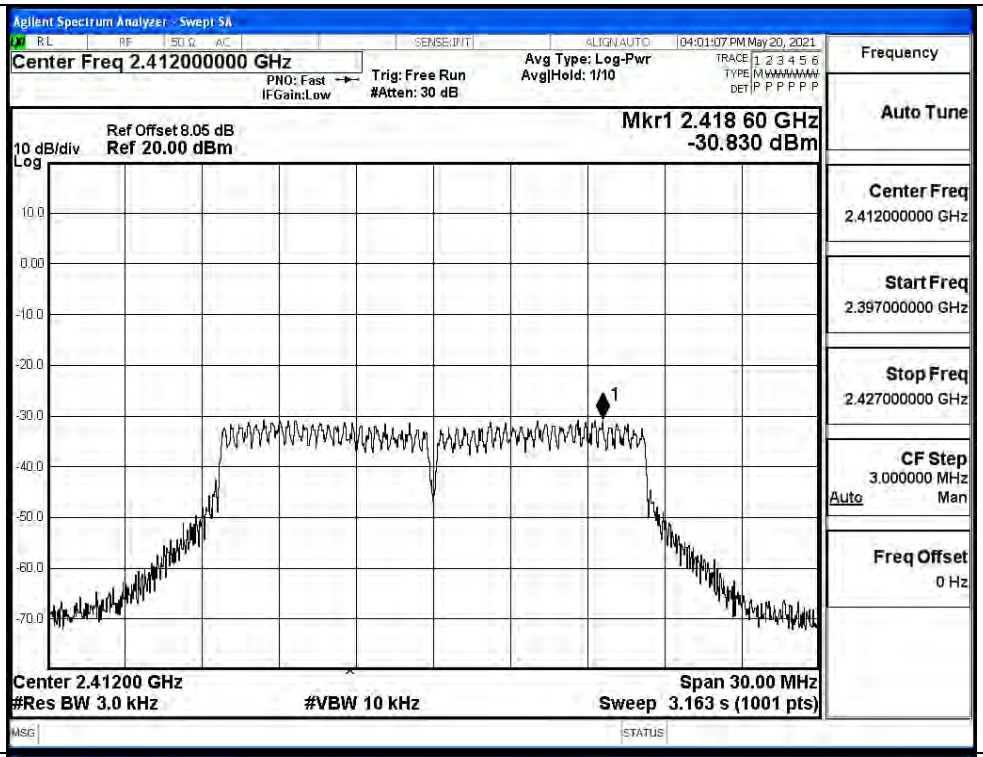
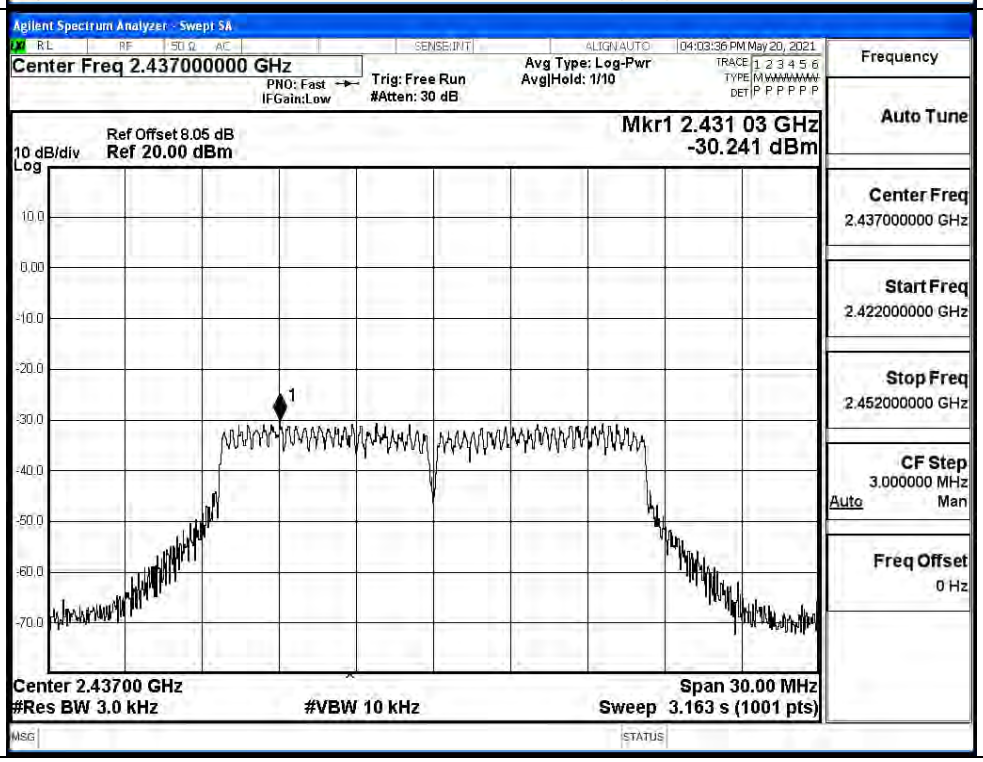
Mode	Channel	Meas.Level [dBm]			Limit [dBm]	Verdict
		Ant_1	Ant_2	Sum		
11B	LCH	5.28	5.73	/	30	PASS
	MCH	5.64	5.63	/	30	PASS
	HCH	5.38	5.41	/	30	PASS
11G	LCH	5.68	5.69	/	30	PASS
	MCH	5.96	5.51	/	30	PASS
	HCH	5.73	5.27	/	30	PASS
11N20SISO	LCH	5.81	5.32	8.58	30	PASS
	MCH	5.68	5.67	8.69	30	PASS
	HCH	5.49	5.47	8.49	30	PASS
11N40SISO	LCH	5.3	5.79	8.56	30	PASS
	MCH	5.36	5.81	8.60	30	PASS
	HCH	5.3	5.72	8.53	30	PASS

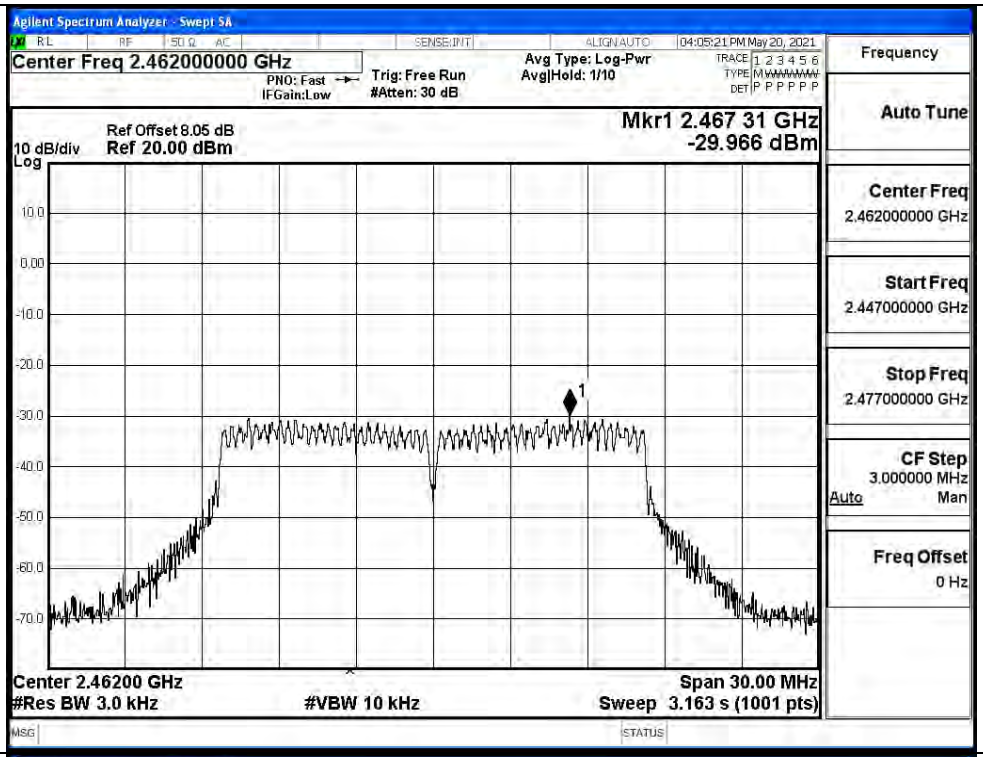
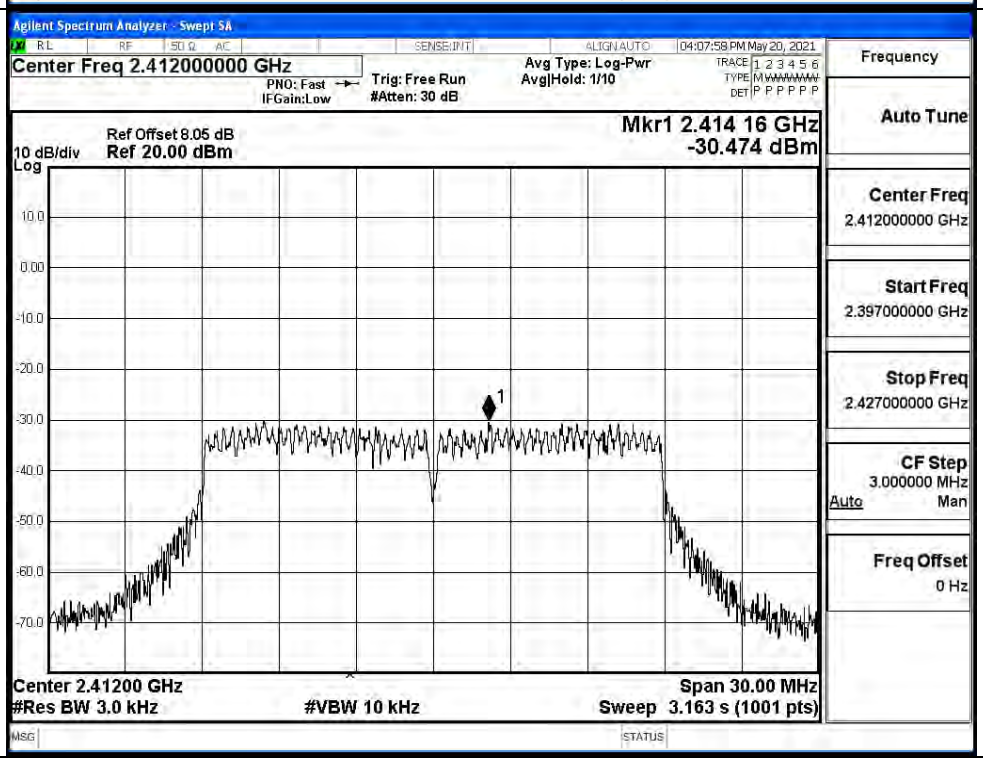
C.3 Maximum Power Spectral Density

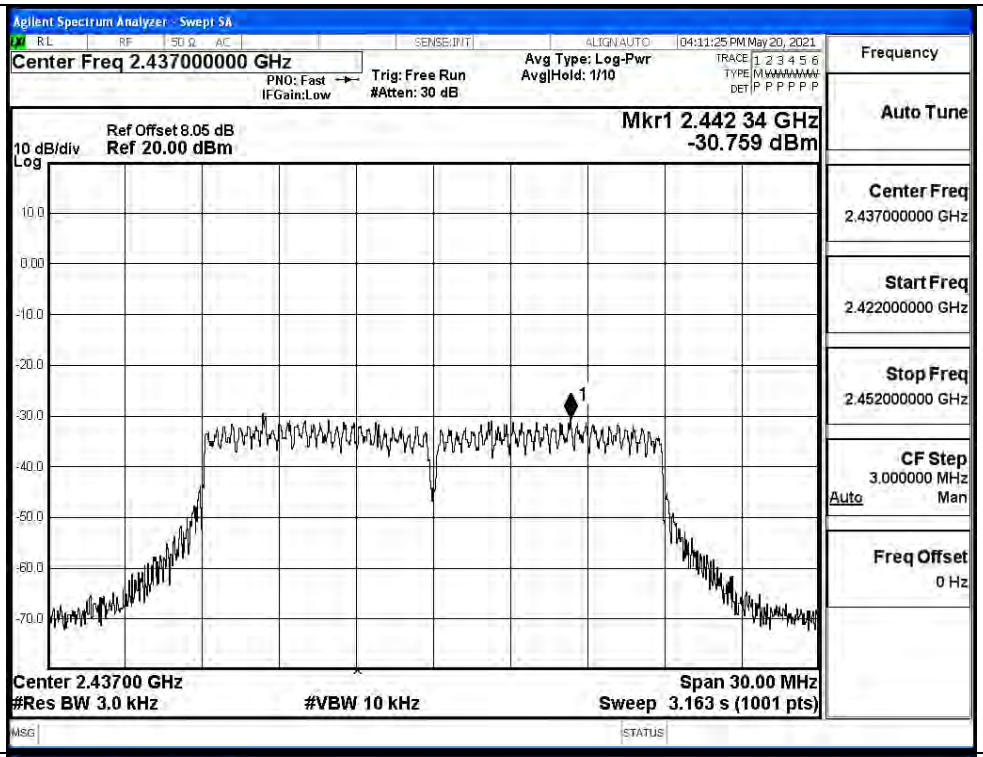
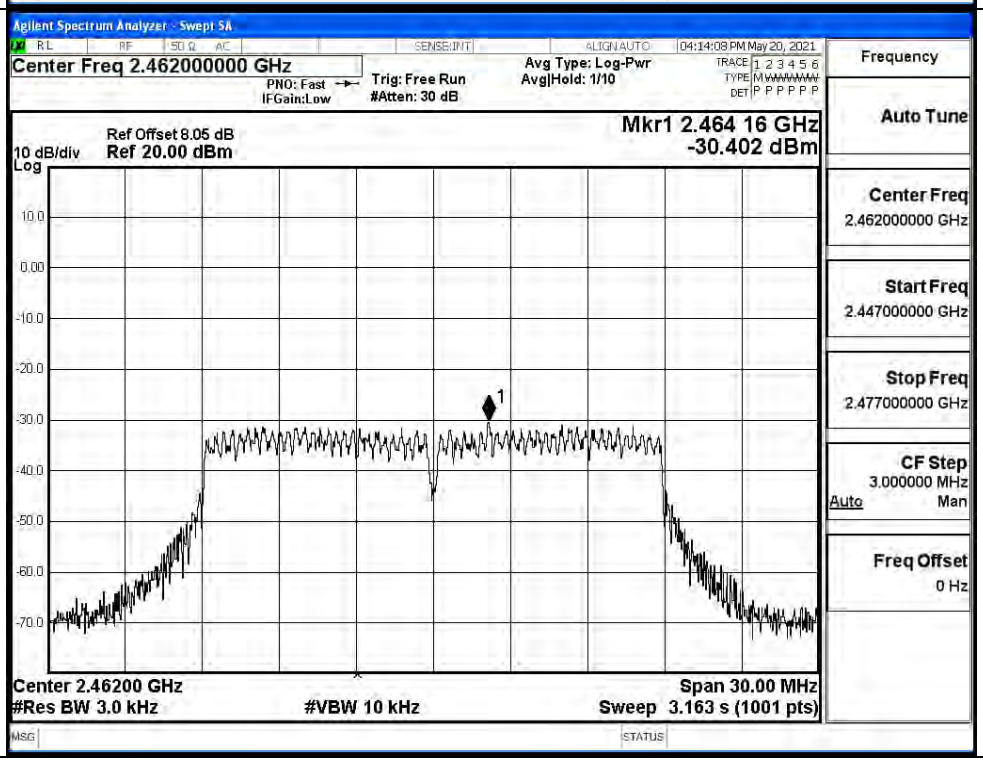
Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant_1	Ant_2	Sum		
11B	LCH	-27.697	-27.133	/	8	PASS
	MCH	-27.375	-27.215	/	8	PASS
	HCH	-27.590	-27.479	/	8	PASS
11G	LCH	-30.830	-30.621	/	8	PASS
	MCH	-30.241	-30.795	/	8	PASS
	HCH	-29.966	-30.563	/	8	PASS
11N20SISO	LCH	-30.474	-29.797	-27.112	8	PASS
	MCH	-30.759	-30.690	-27.714	8	PASS
	HCH	-30.402	-31.157	-27.753	8	PASS
11N40SISO	LCH	-32.904	-32.156	-29.504	8	PASS
	MCH	-29.546	-32.537	-27.779	8	PASS
	HCH	-33.075	-32.545	-29.792	8	PASS

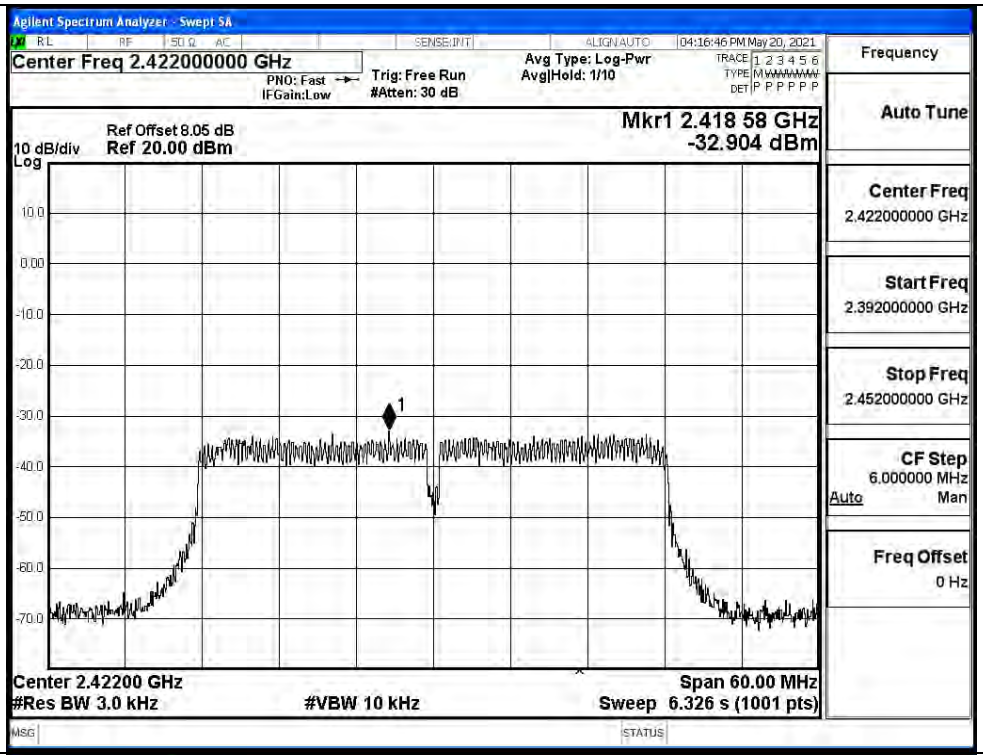
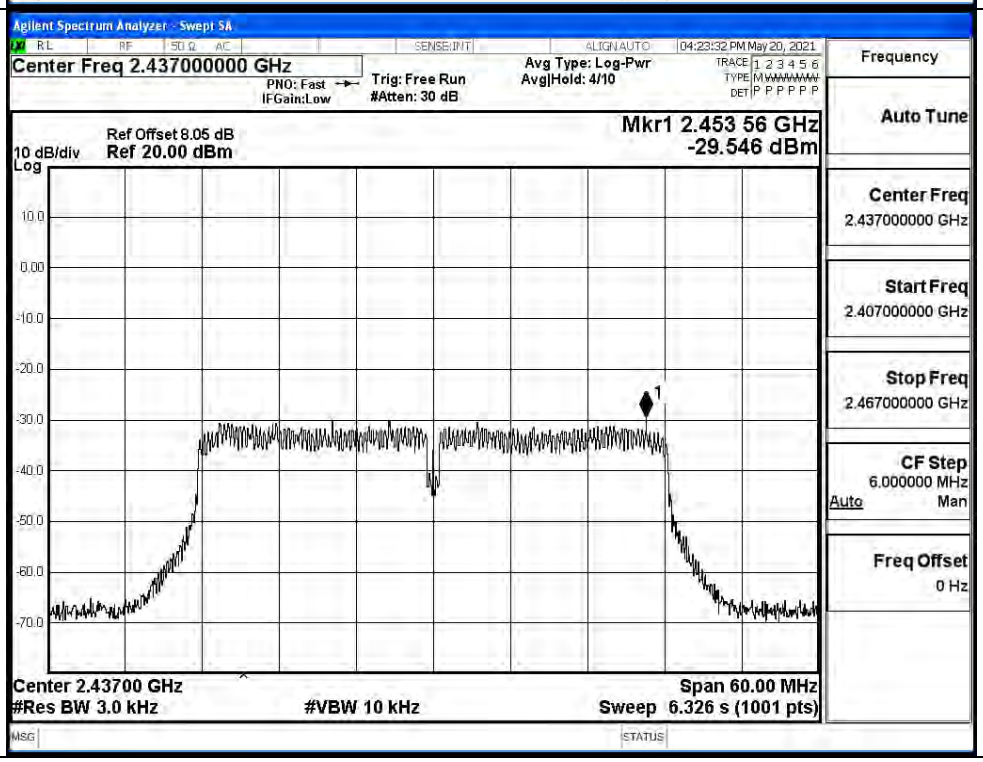
Test Graphs-Ant 0	
11B/LCH	

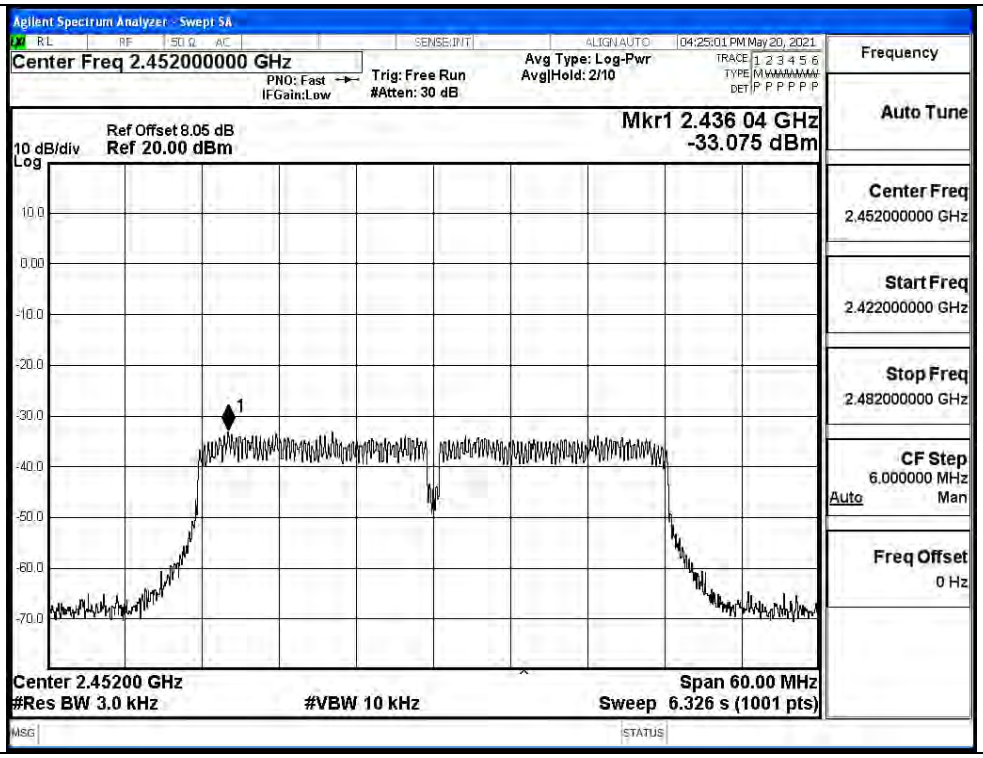
11B/MCH		
11B/HCH		

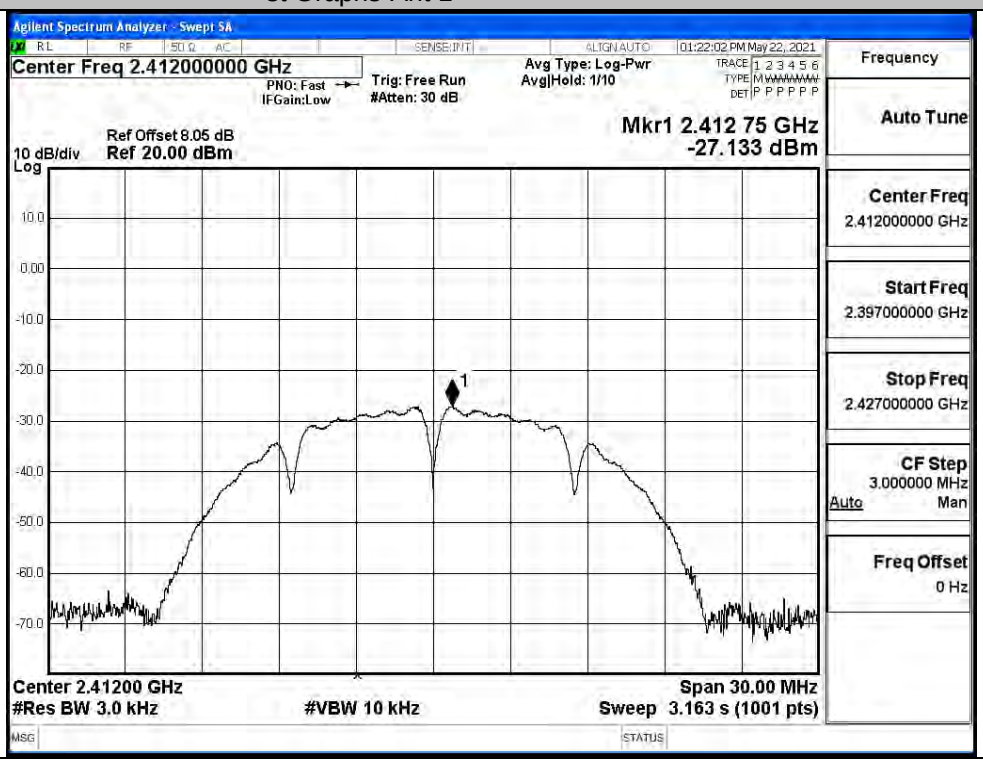
11G/LCH		
11G/MCH		

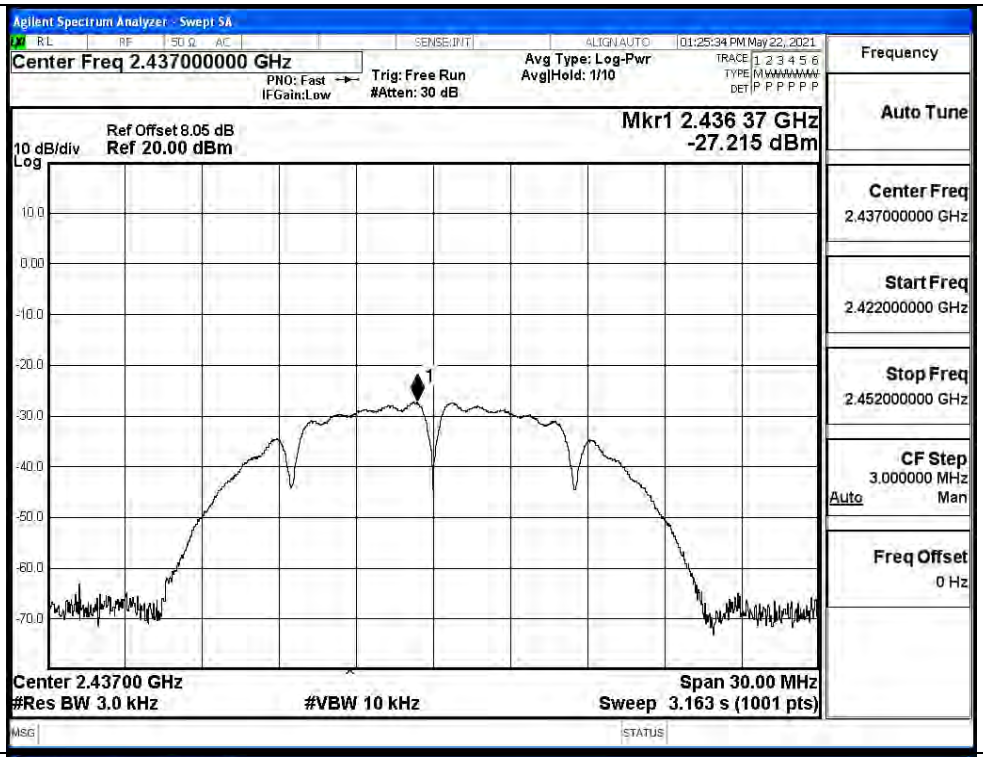
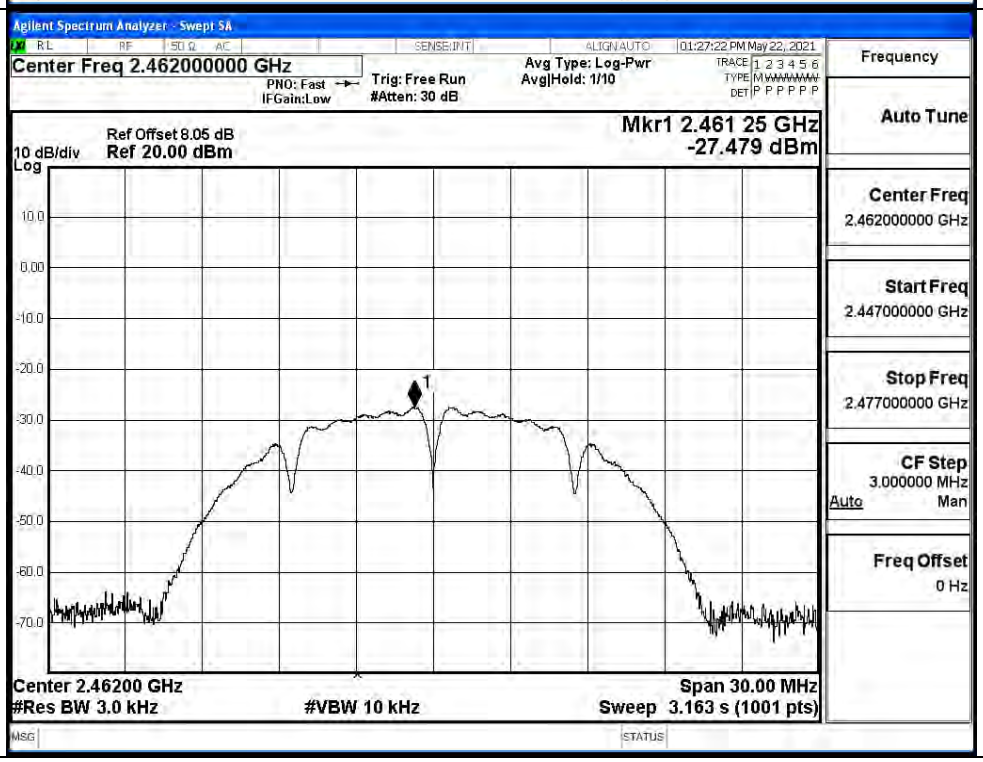
11G/HCH		
11N20SISO/LCH		

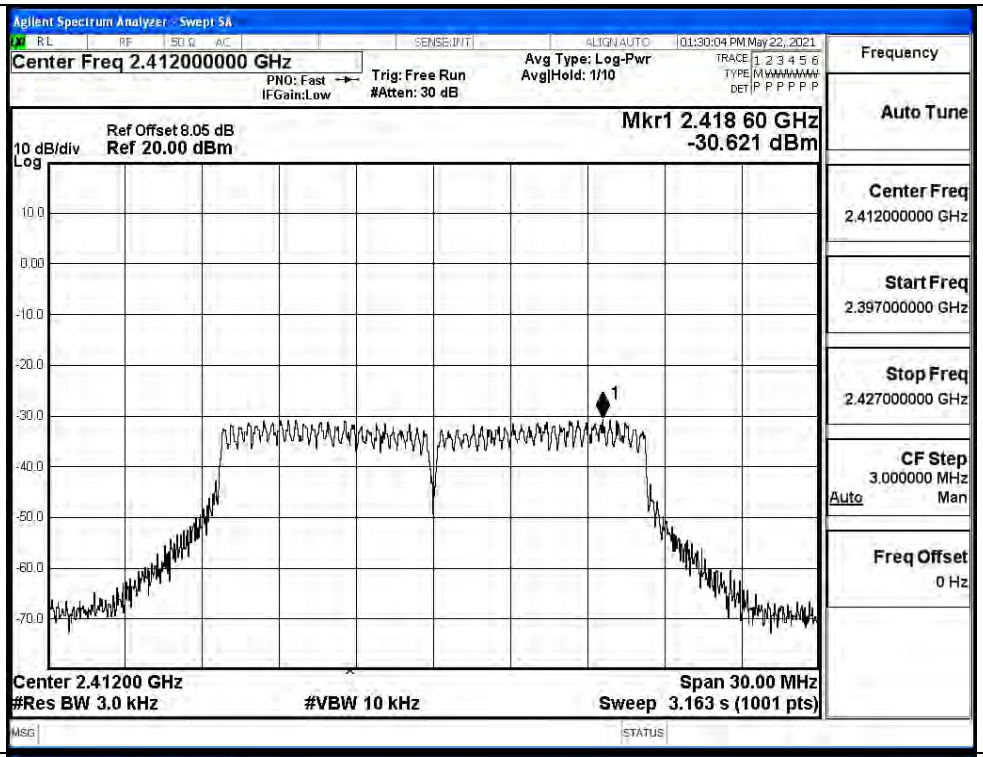
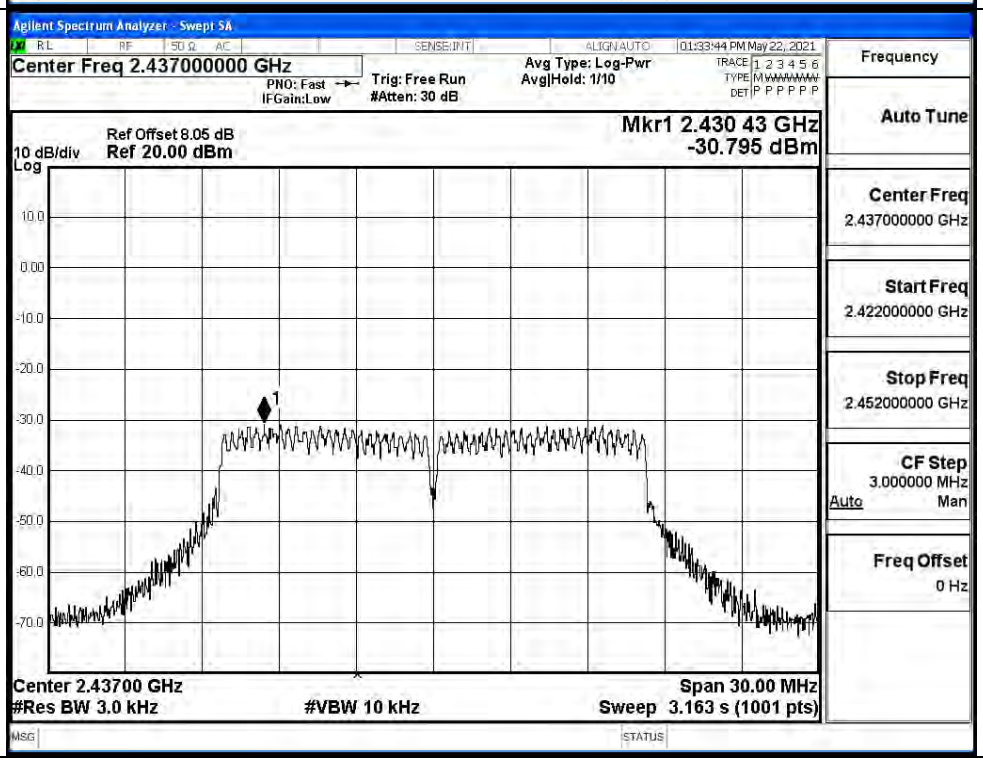
11N20SISO/MCH		
11N20SISO/HCH		

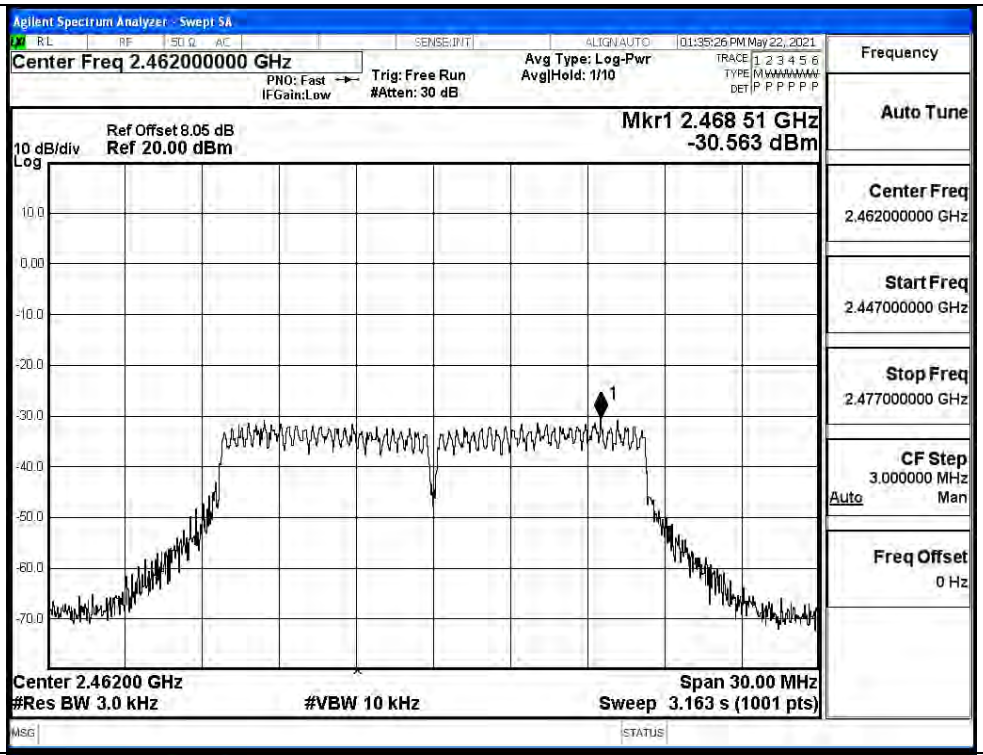
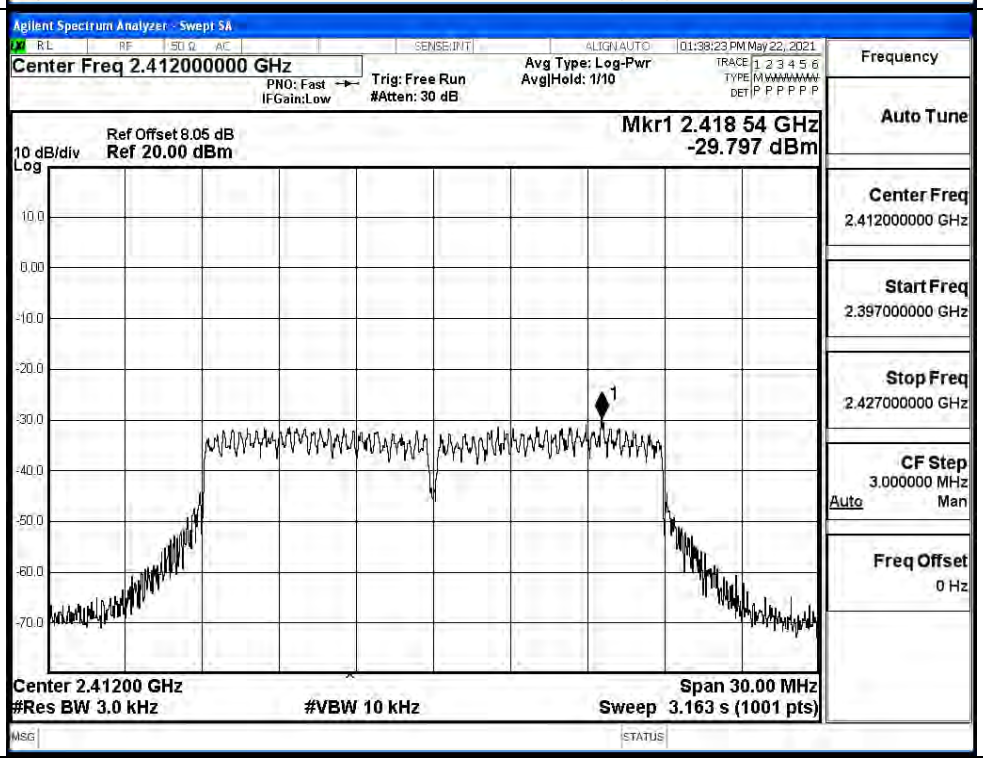
11N40SISO/LCH		
11N40SISO/MCH		

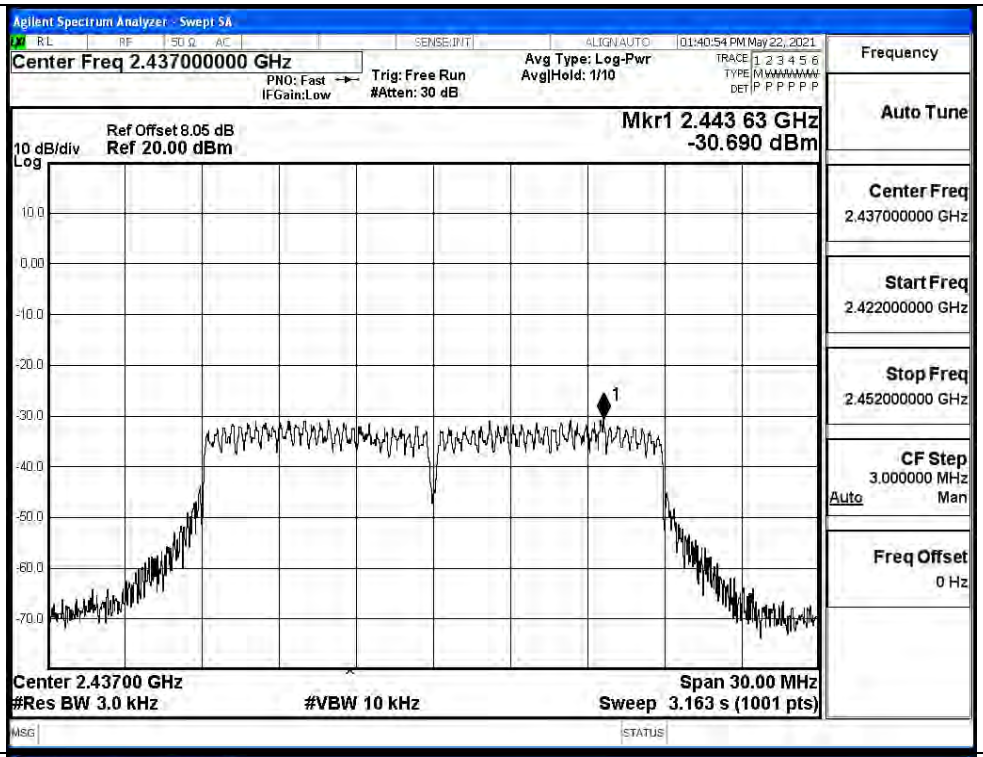
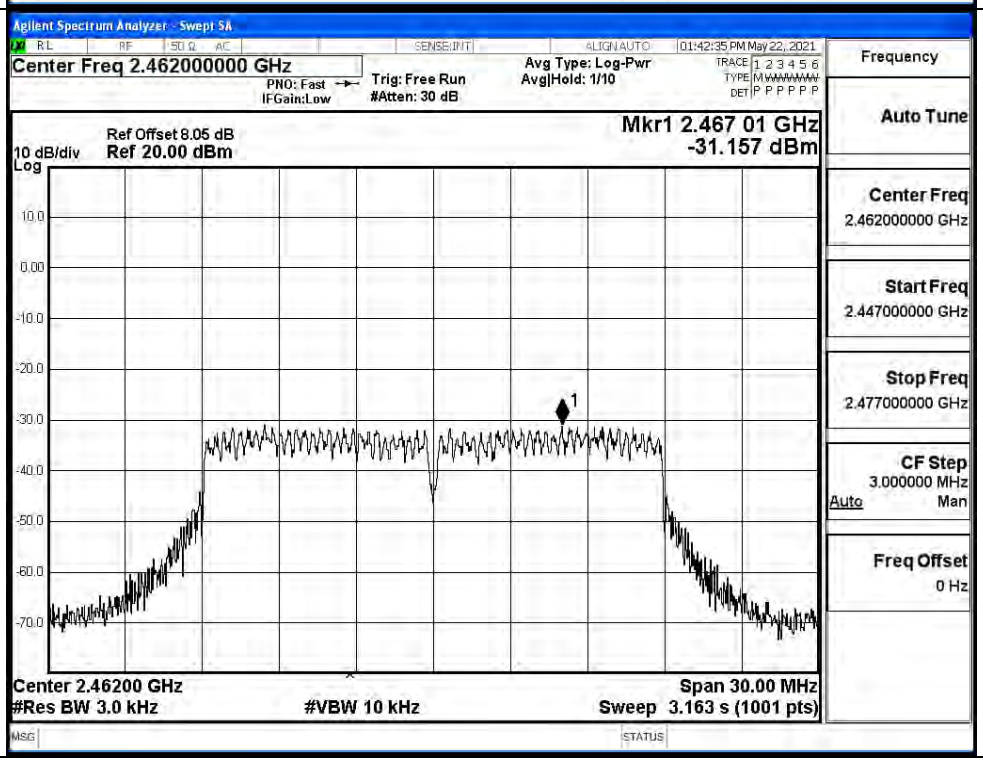
11N40SISO/HCH	

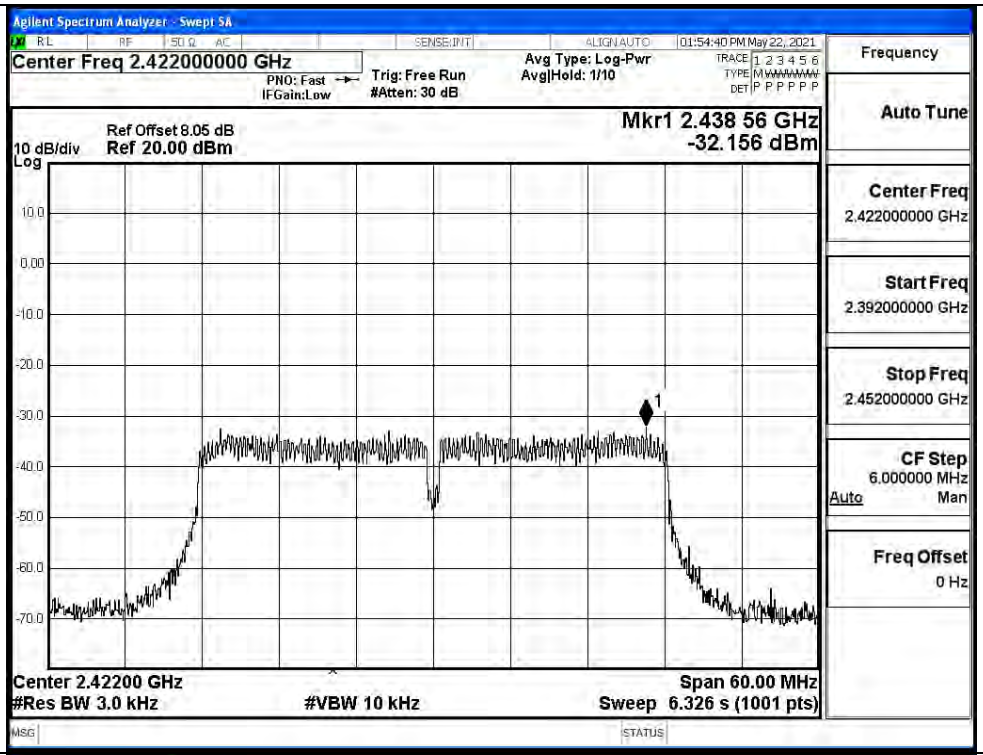
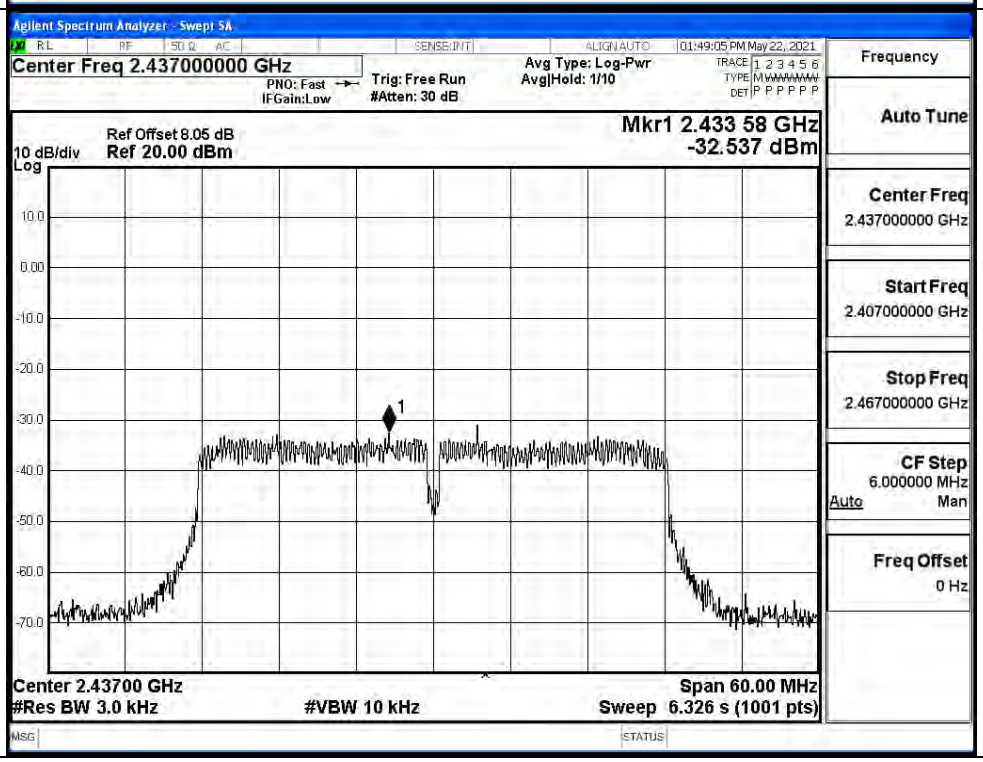
st Graphs-Ant 1	
11B/LCH	

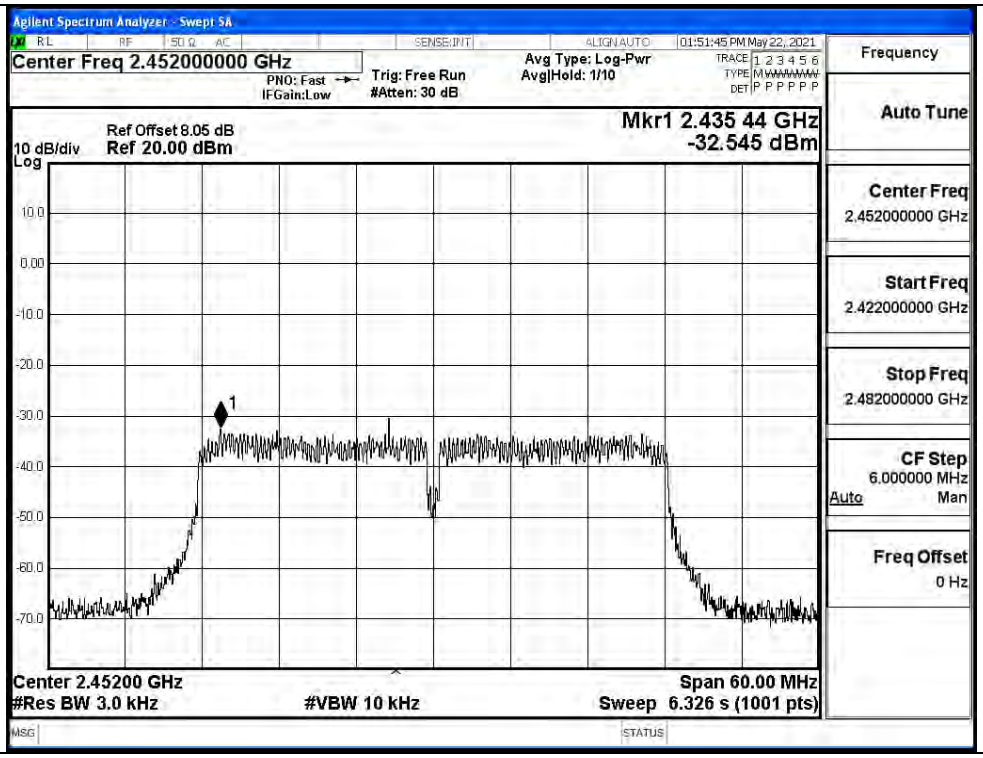
11B/MCH		
11B/HCH		

11G/LCH		
11G/MCH		

11G/HCH		
11N20SISO/LCH		

11N20SISO/MCH		
11N20SISO/HCH		

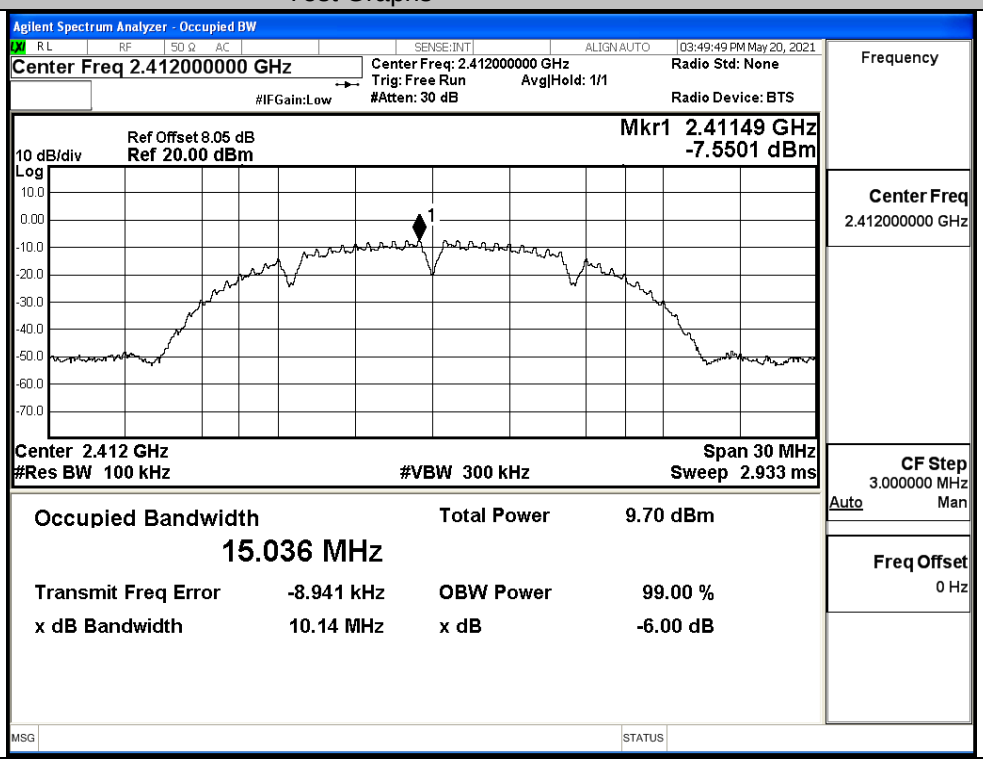
11N40SISO/LCH		
11N40SISO/MCH		

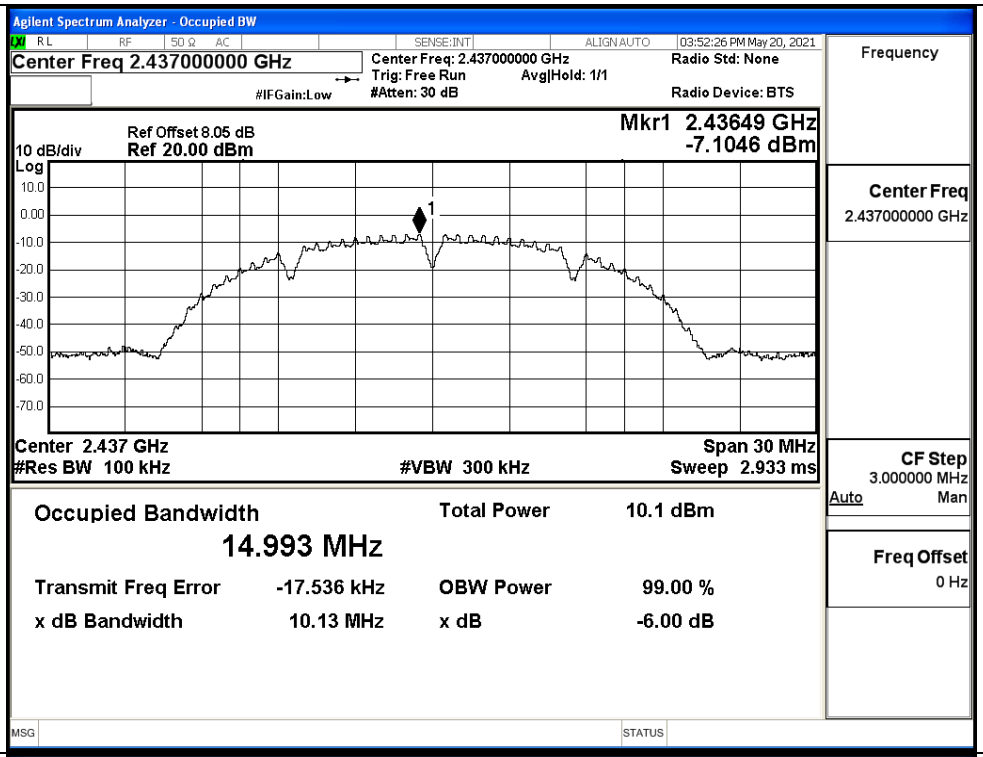
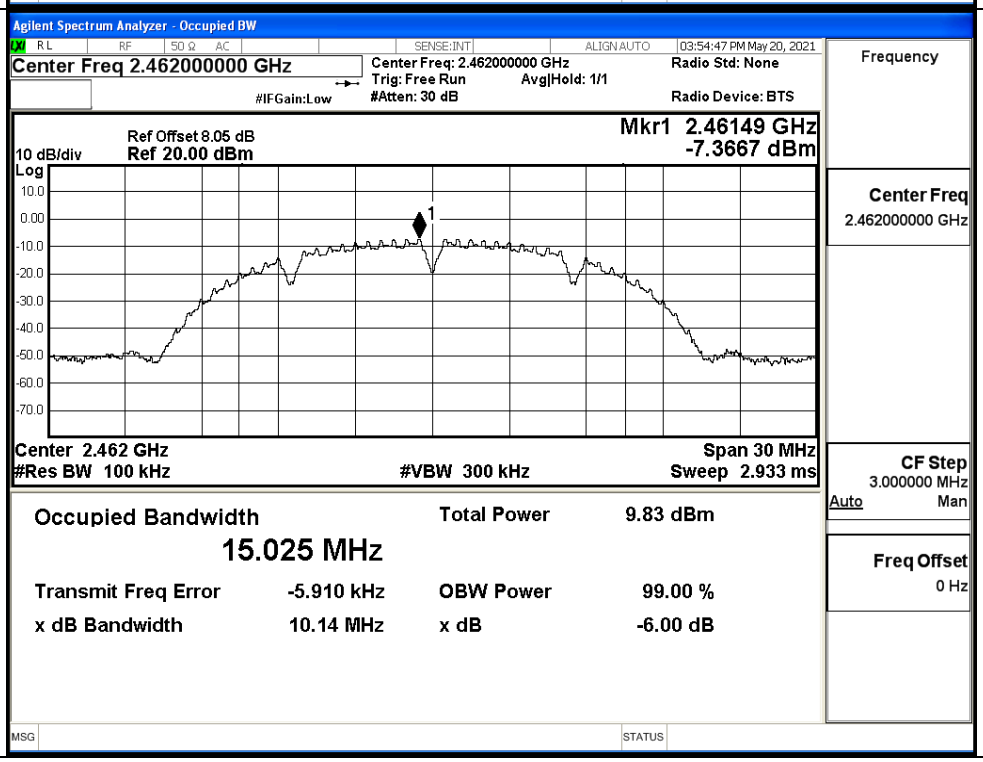
11N40SISO/HCH		

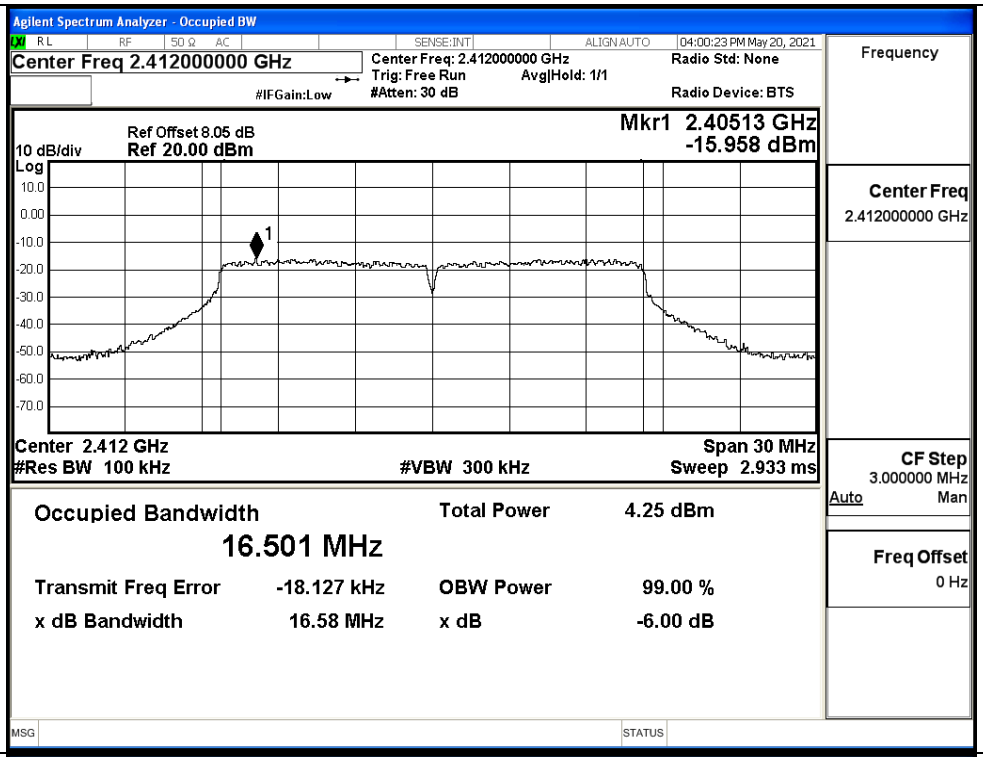
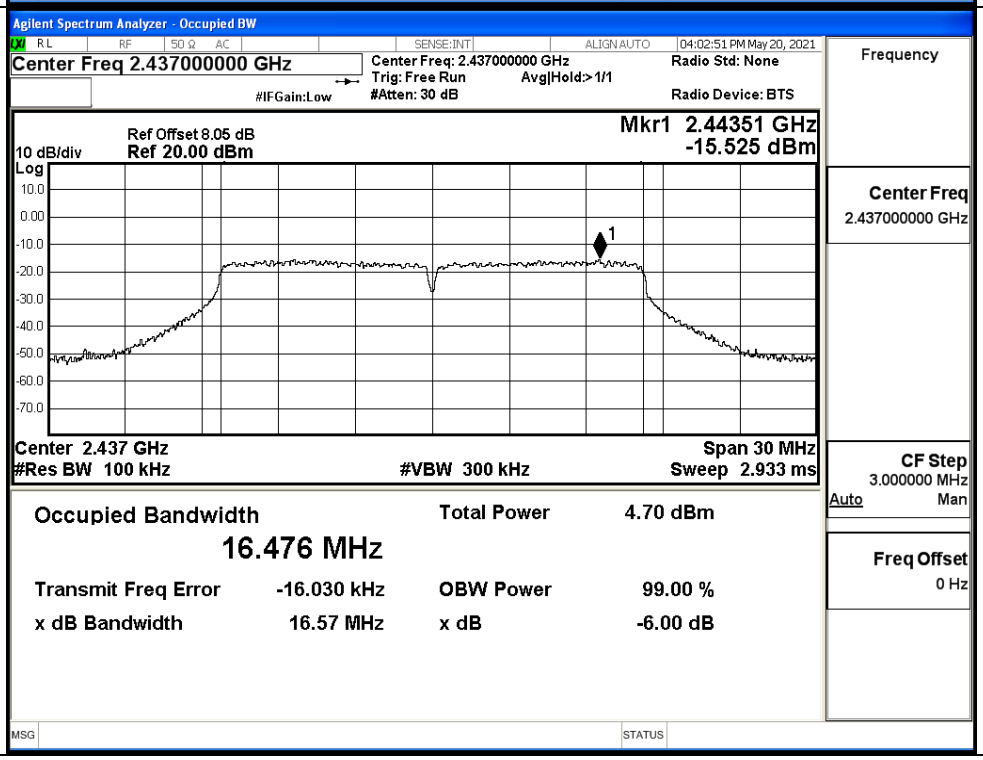
C.4 6dB Bandwidth

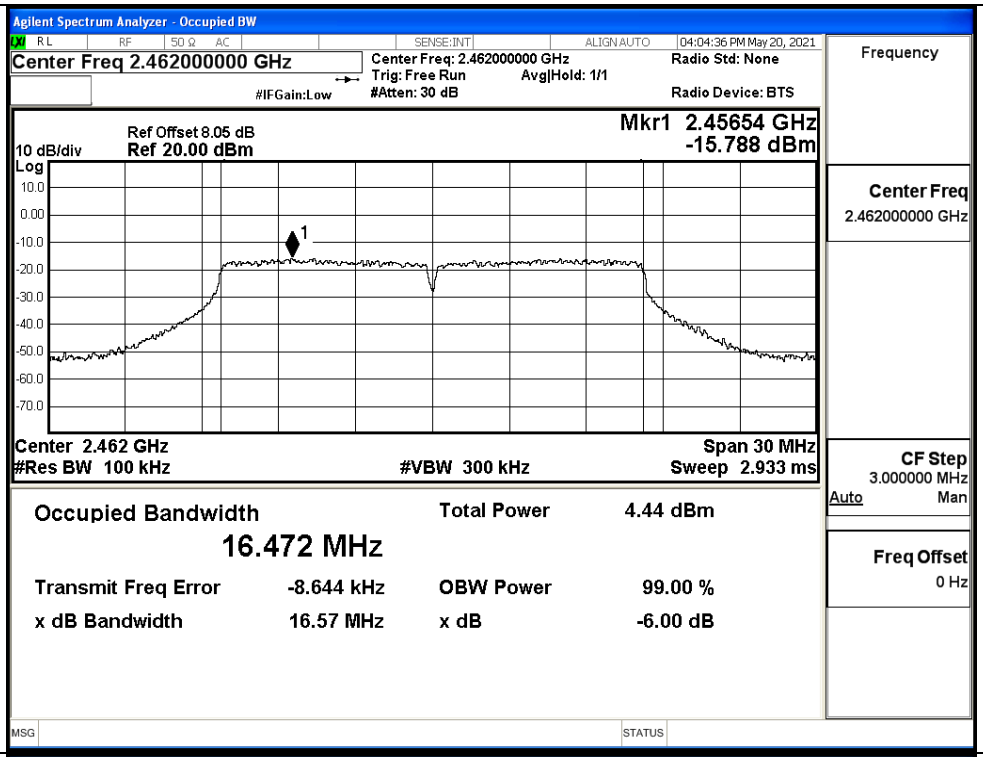
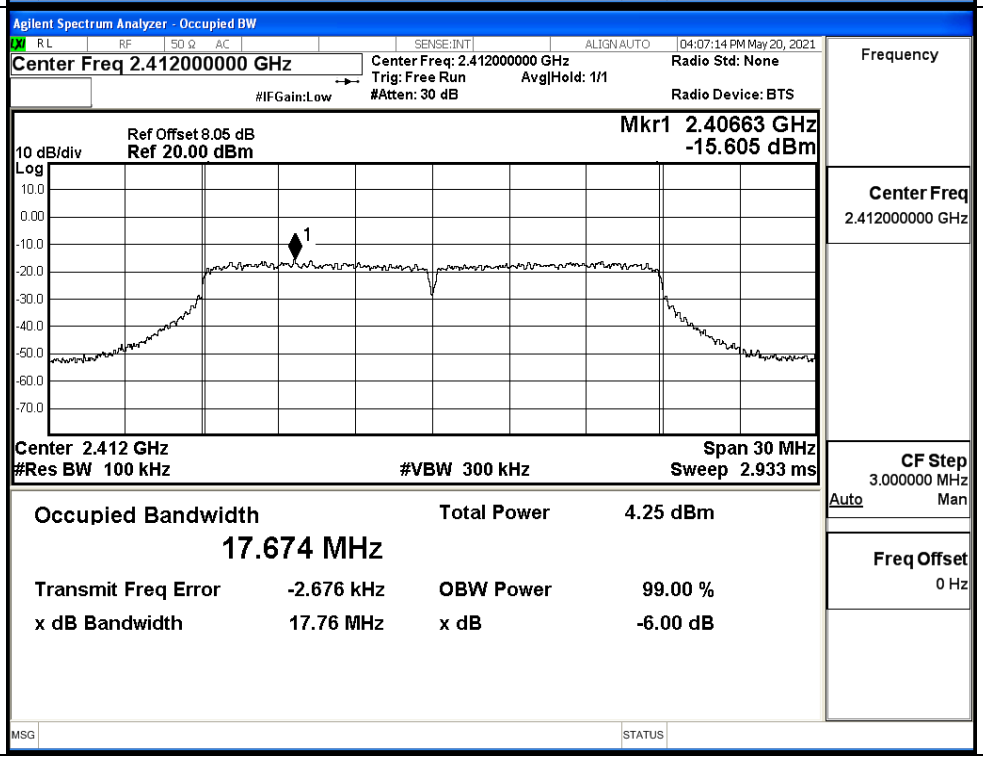
ANT0

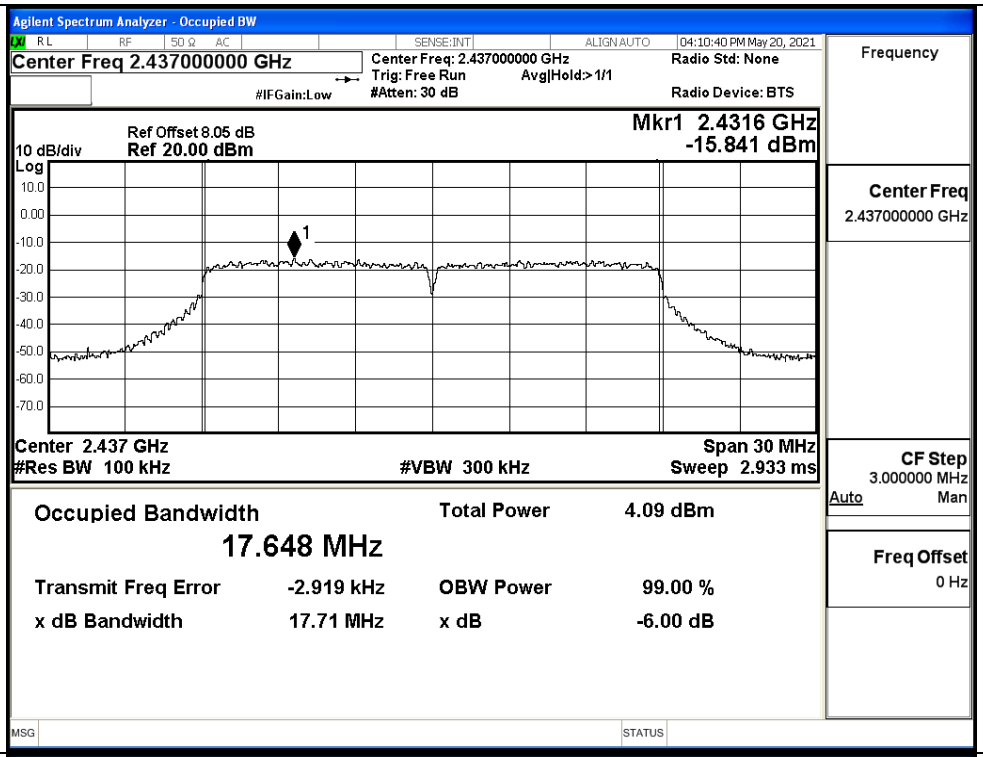
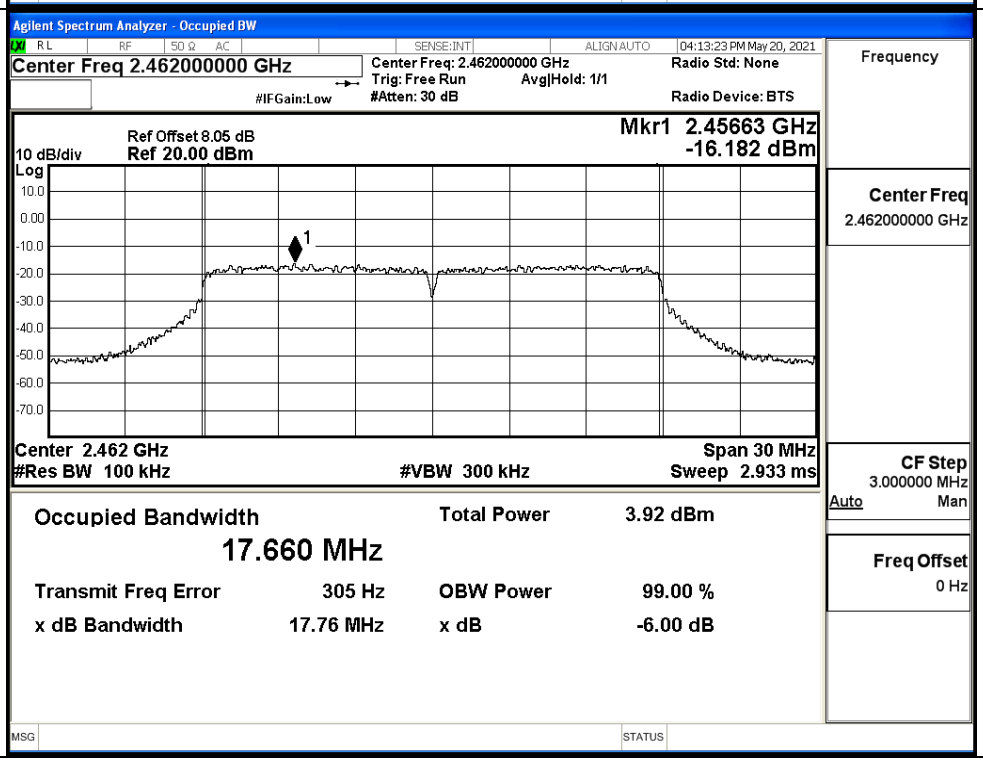
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.14	⩾0.5	PASS
	MCH	10.13	⩾0.5	PASS
	HCH	10.14	⩾0.5	PASS
11G	LCH	16.58	⩾0.5	PASS
	MCH	16.57	⩾0.5	PASS
	HCH	16.57	⩾0.5	PASS
11N20SISO	LCH	17.76	⩾0.5	PASS
	MCH	17.71	⩾0.5	PASS
	HCH	17.76	⩾0.5	PASS
11N40SISO	LCH	36.50	⩾0.5	PASS
	MCH	36.53	⩾0.5	PASS
	HCH	36.55	⩾0.5	PASS

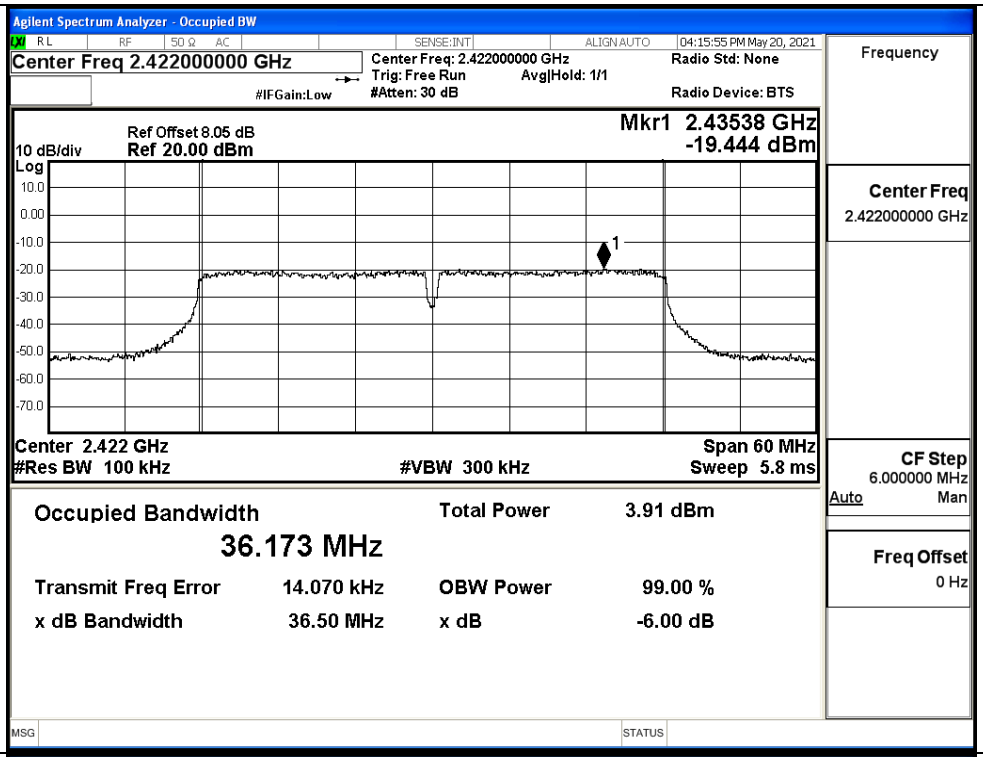
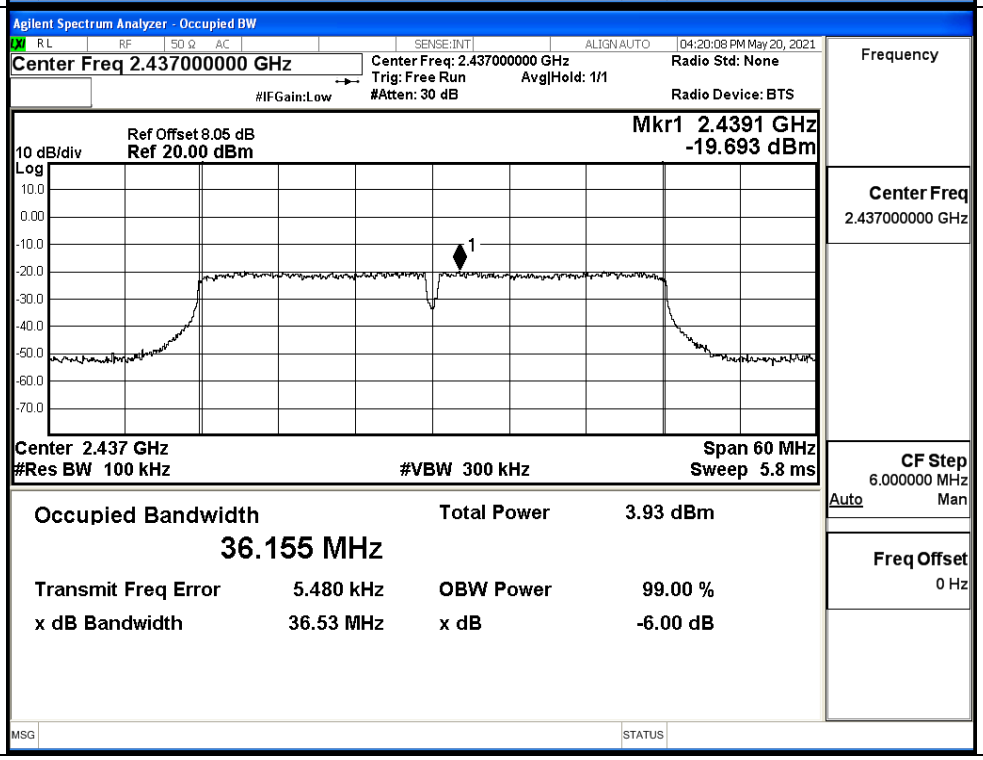
Test Graphs	
11B/LCH	

11B/MCH		
11B/HCH		

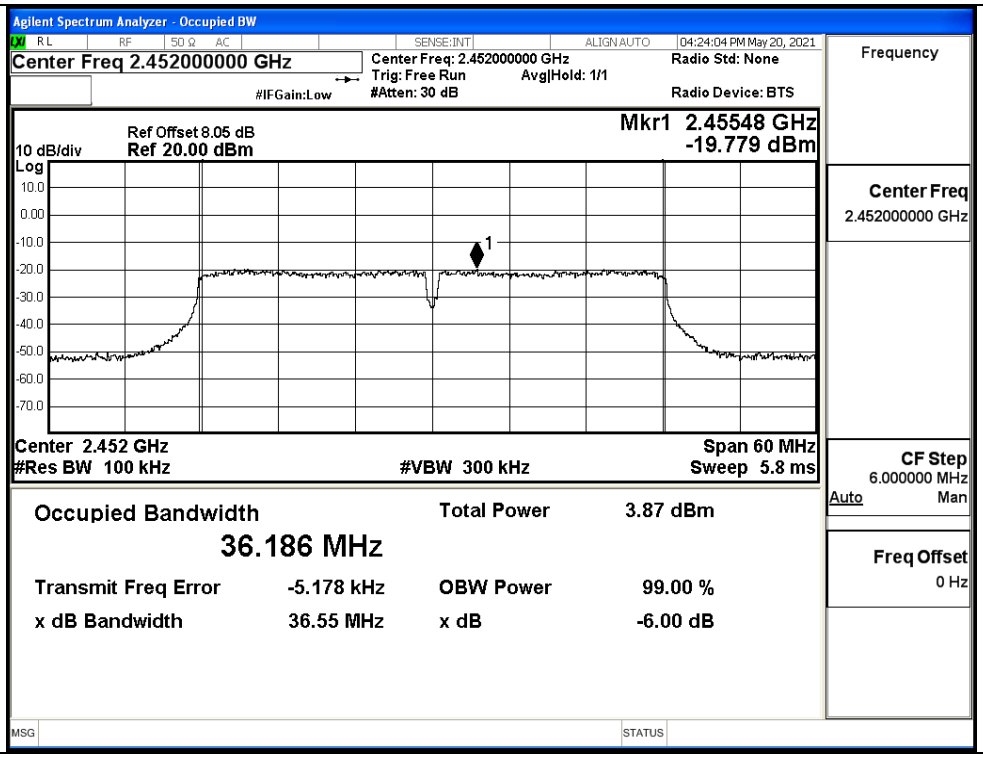
11G/LCH		
11G/MCH		

11G/HCH	
11N20SISO/LCH	

11N20SISO/MCH	
11N20SISO/HCH	

11N40SISO/LCH		
11N40SISO/MCH		

11N40SISO/HCH

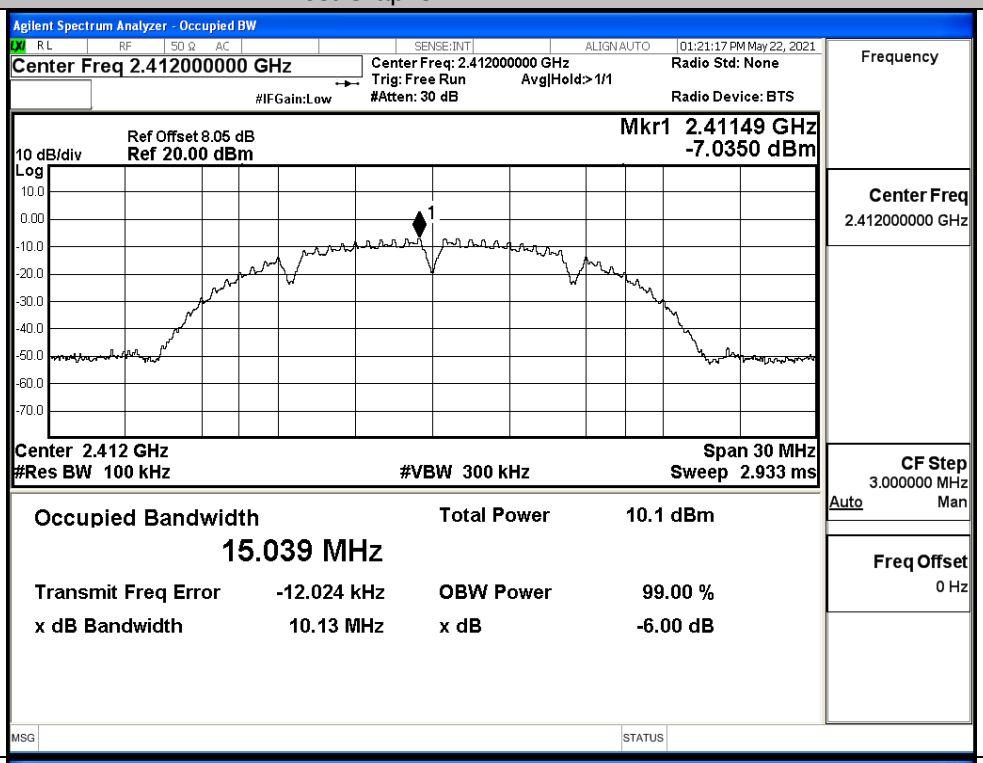


ANT1

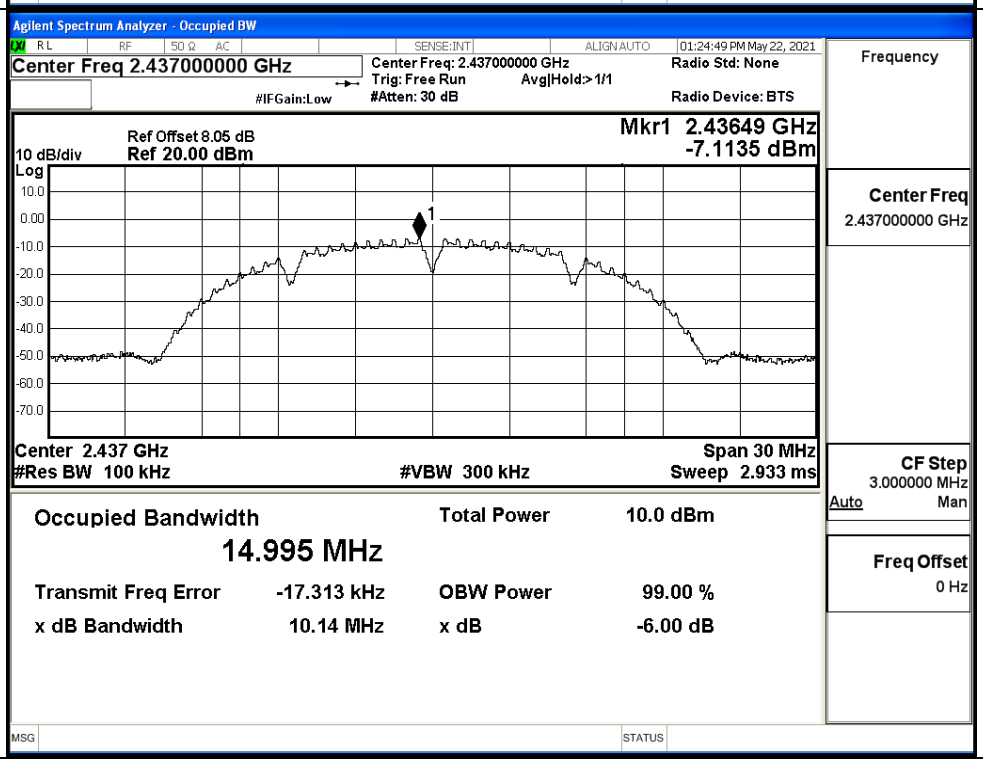
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.13	⩾0.5	PASS
	MCH	10.14	⩾0.5	PASS
	HCH	10.14	⩾0.5	PASS
11G	LCH	16.56	⩾0.5	PASS
	MCH	16.58	⩾0.5	PASS
	HCH	16.58	⩾0.5	PASS
11N20SISO	LCH	17.71	⩾0.5	PASS
	MCH	17.71	⩾0.5	PASS
	HCH	17.75	⩾0.5	PASS
11N40SISO	LCH	36.52	⩾0.5	PASS
	MCH	36.50	⩾0.5	PASS
	HCH	36.54	⩾0.5	PASS

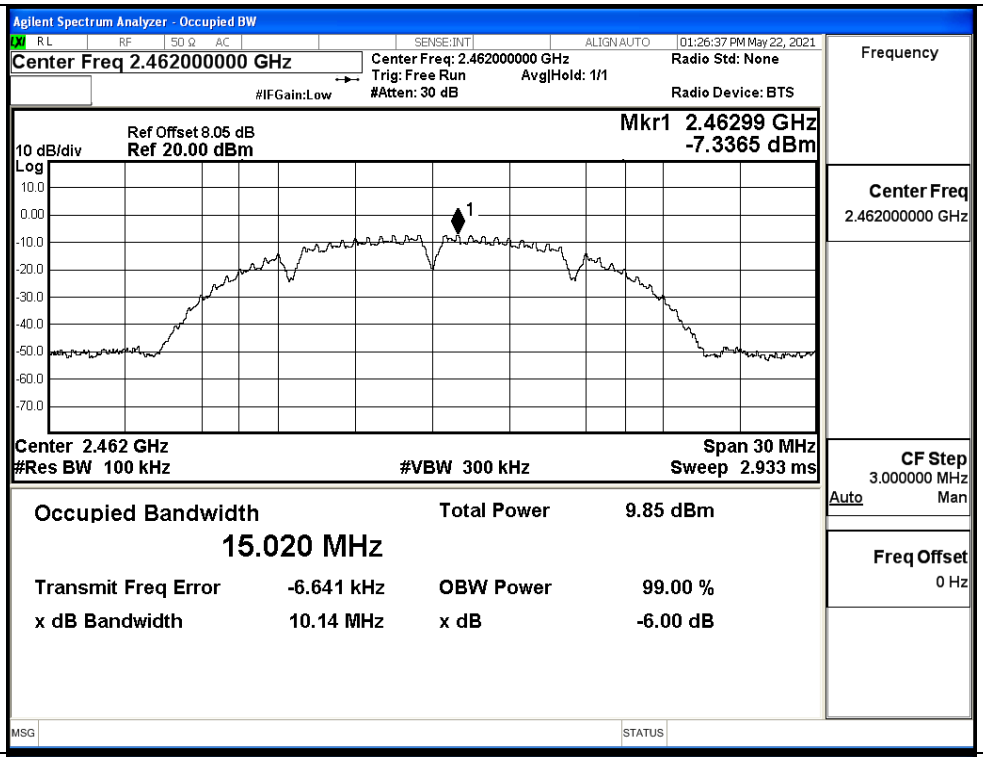
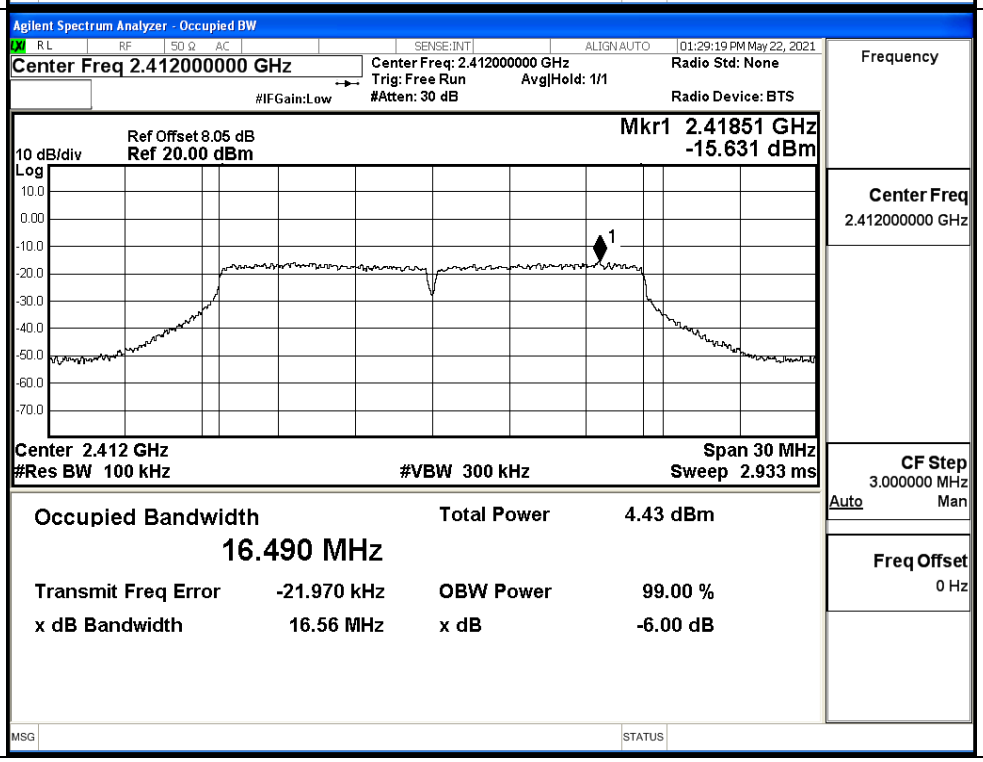
Test Graphs

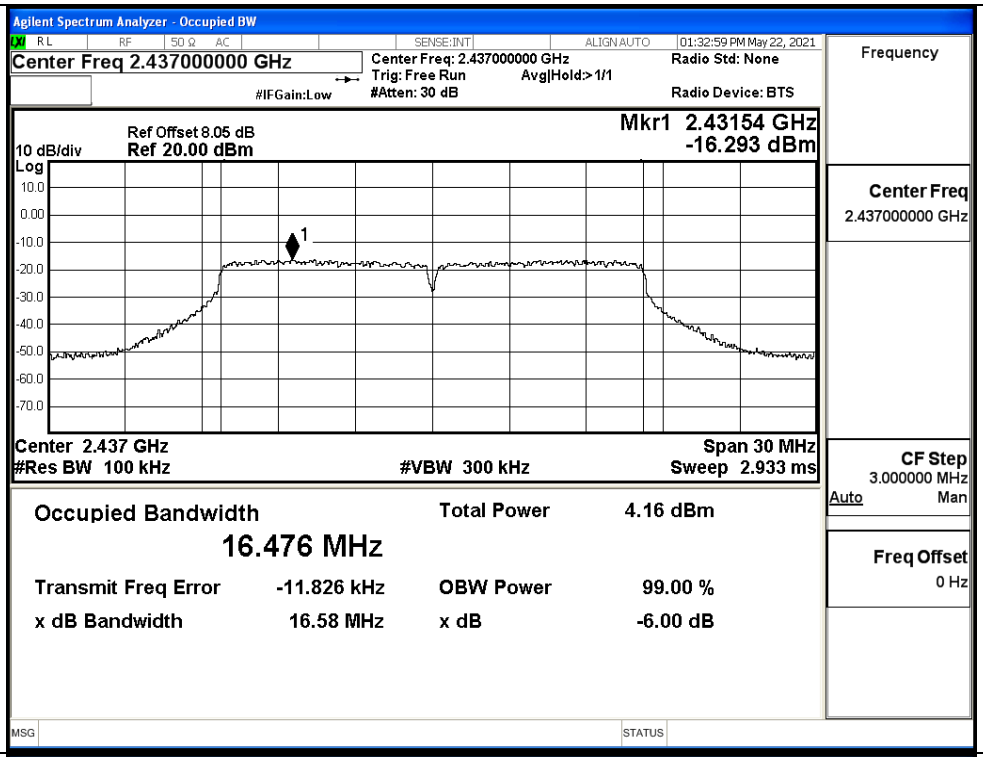
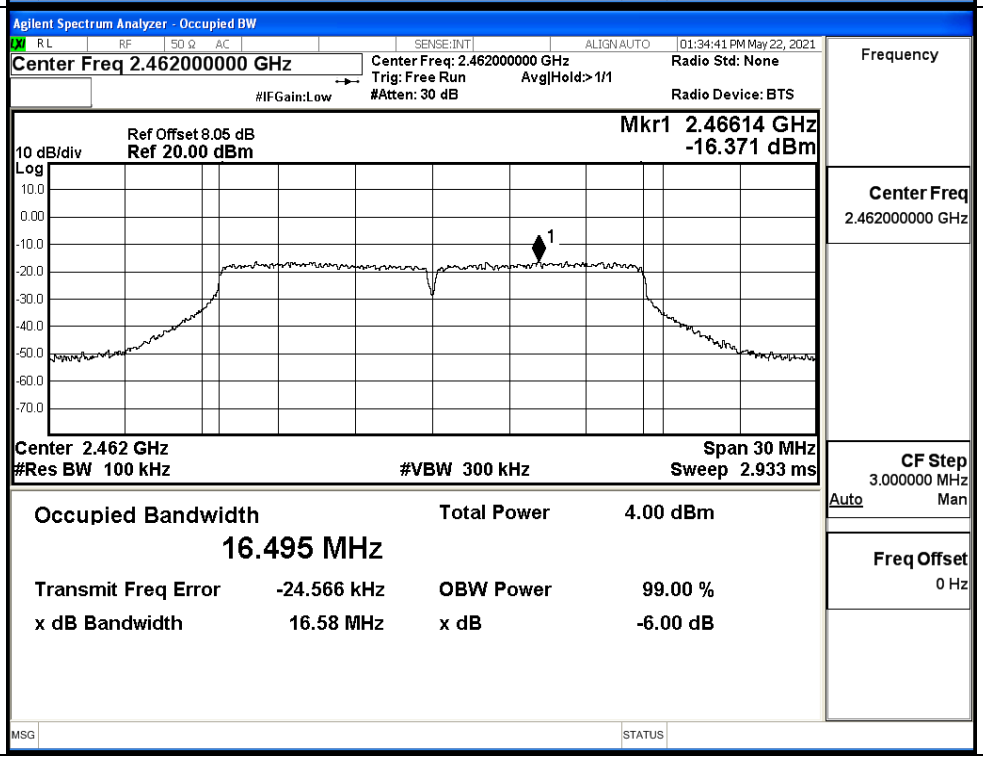
11B/LCH

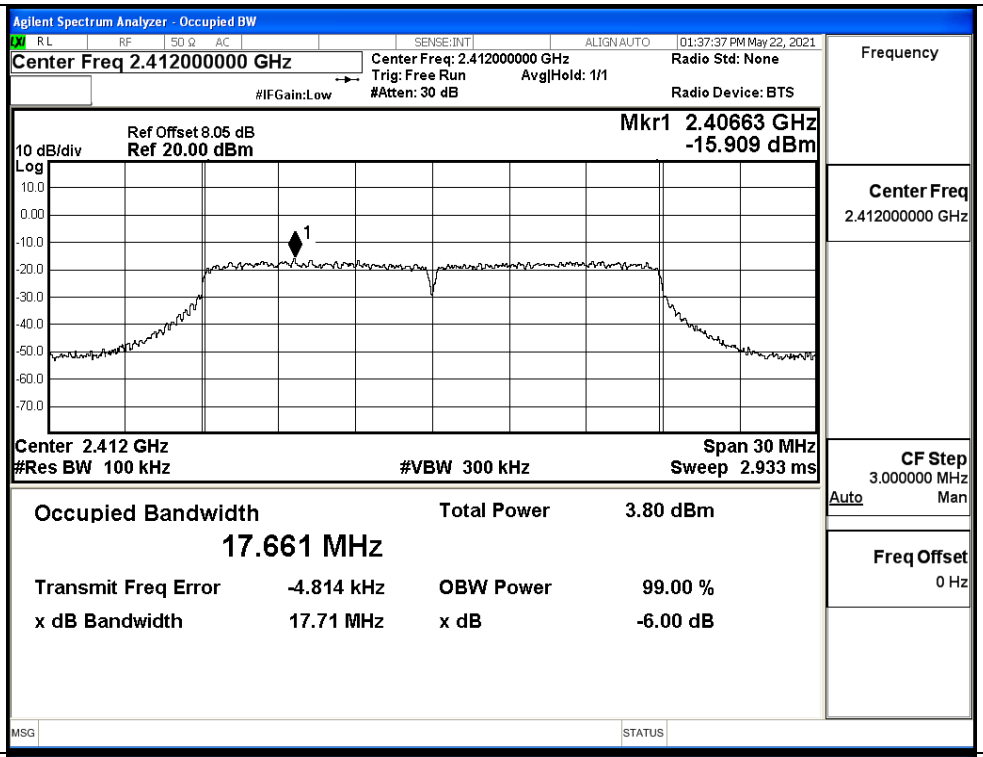
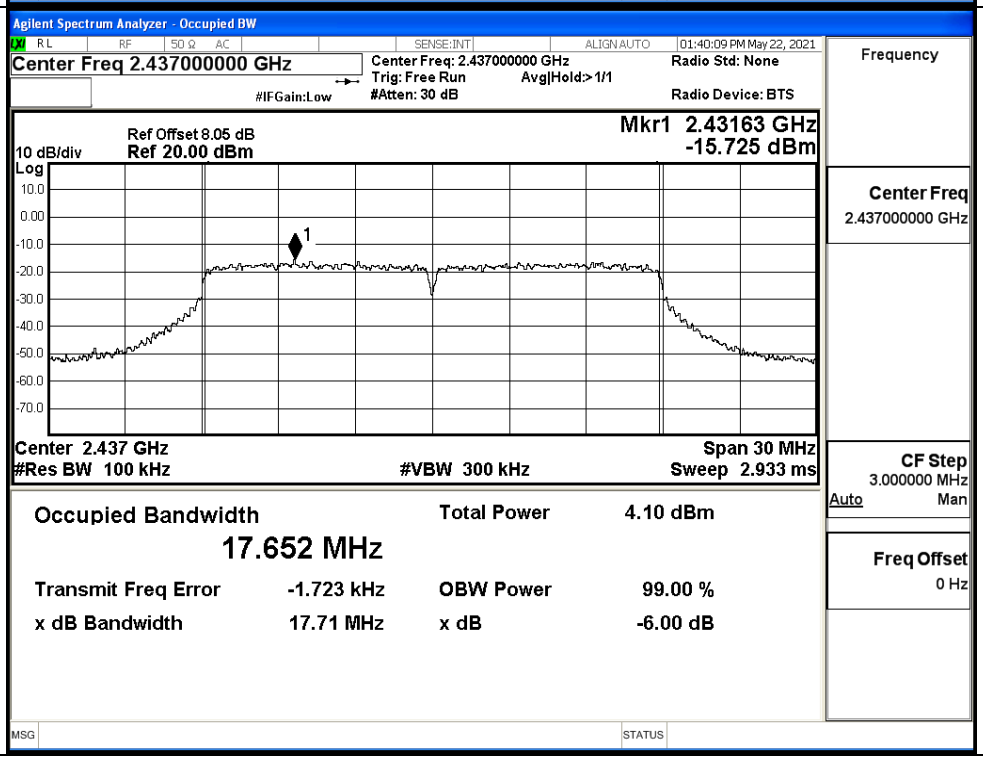


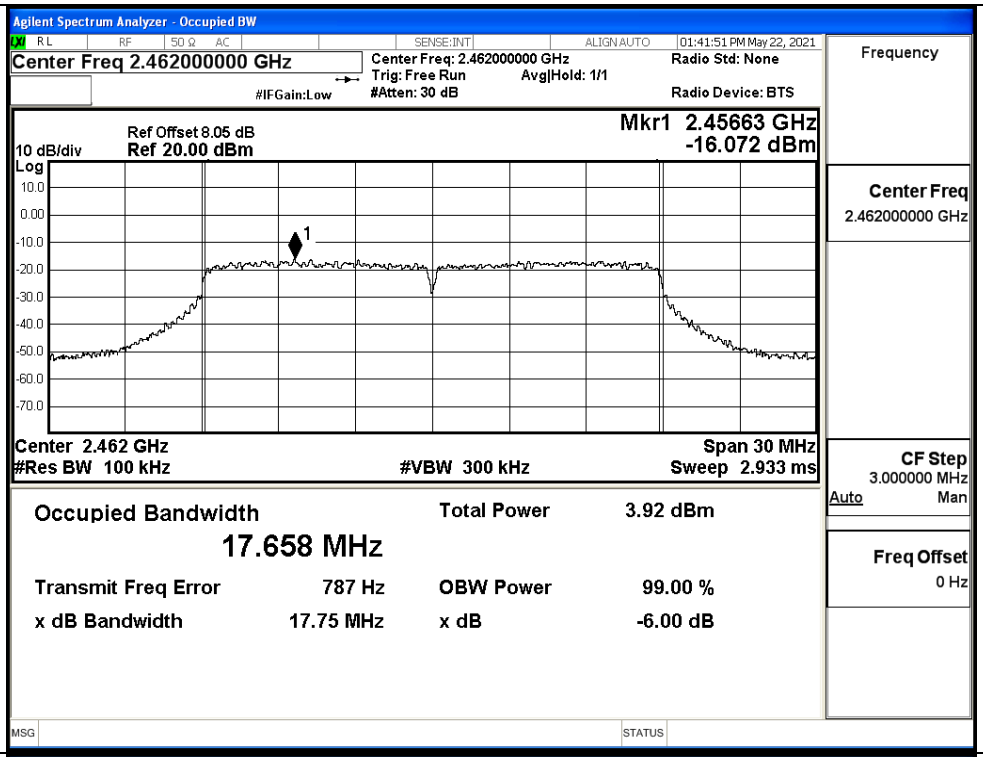
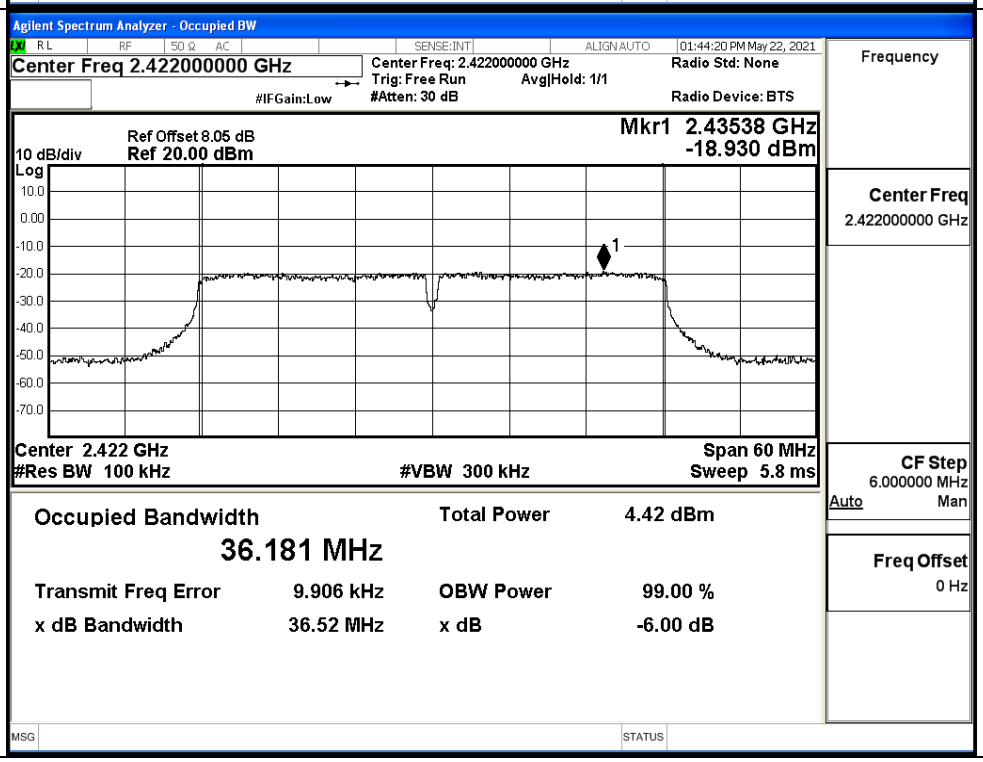
11B/MCH

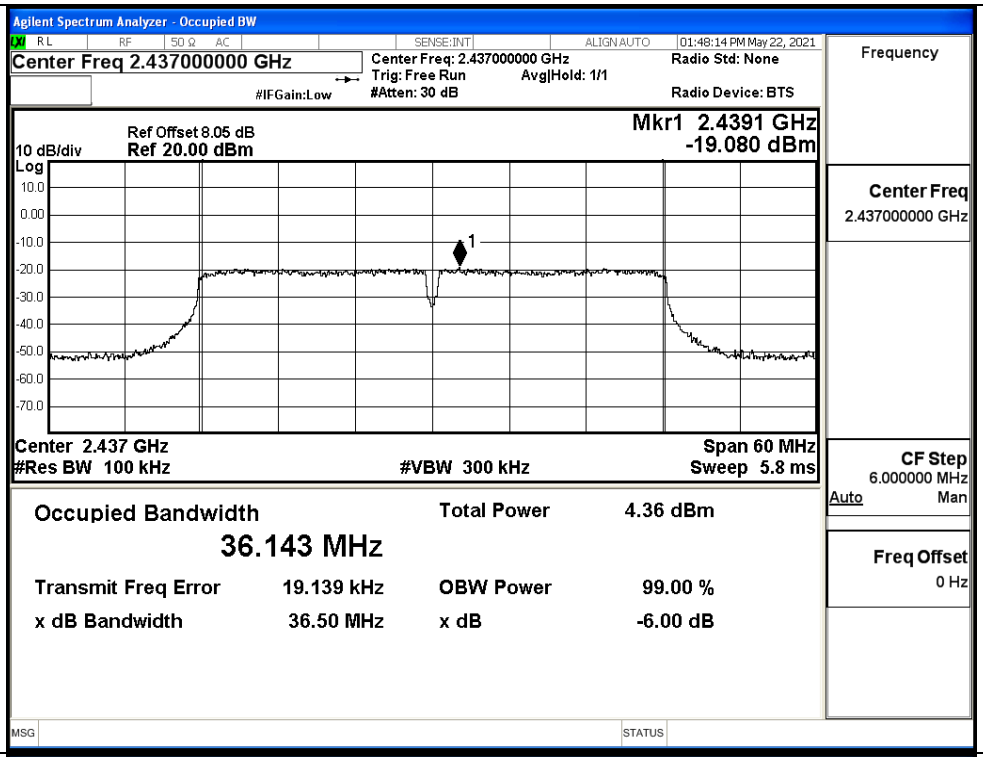
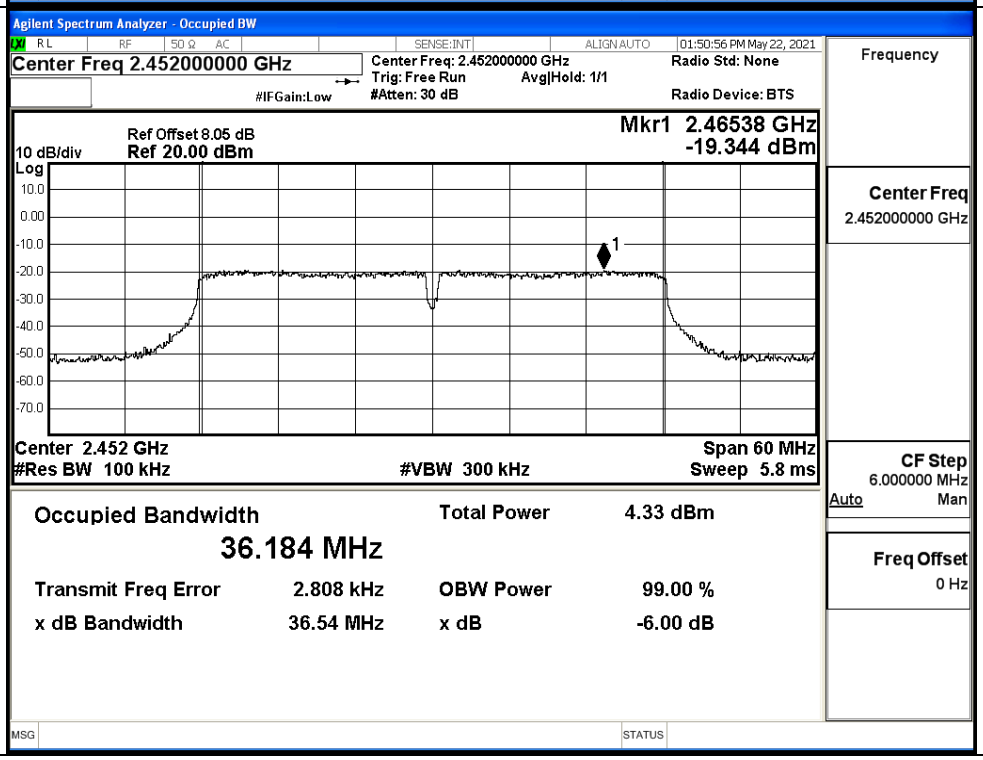


11B/HCH		
11G/LCH		

11G/MCH		
11G/HCH		

11N20SISO/LCH		
11N20SISO/MCH		

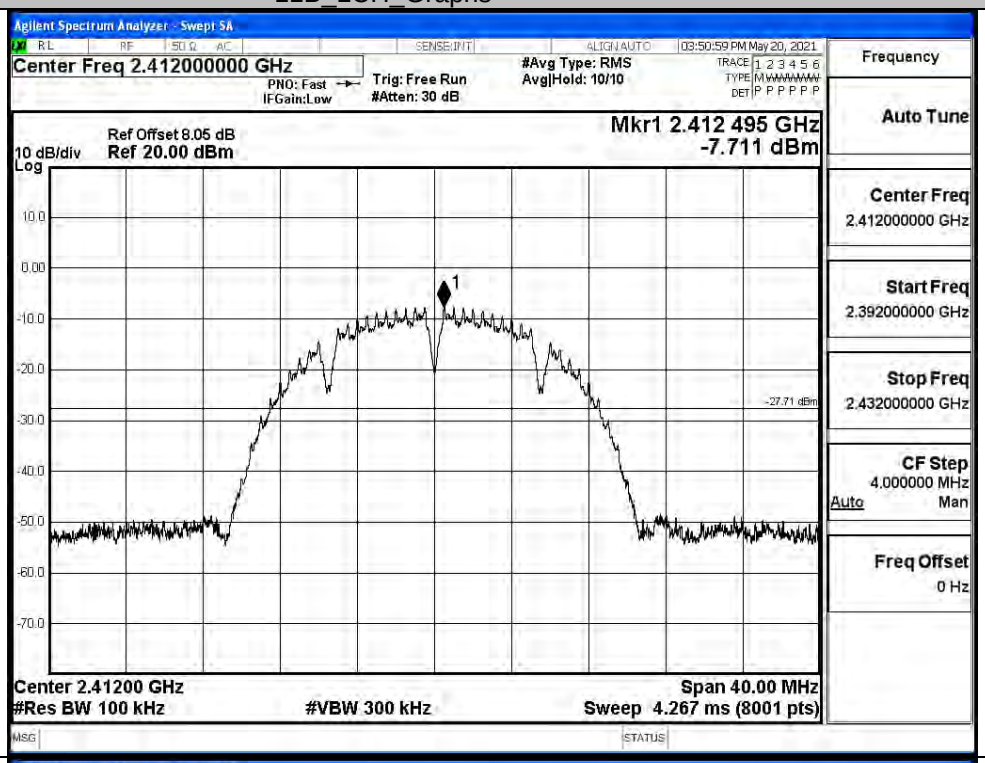
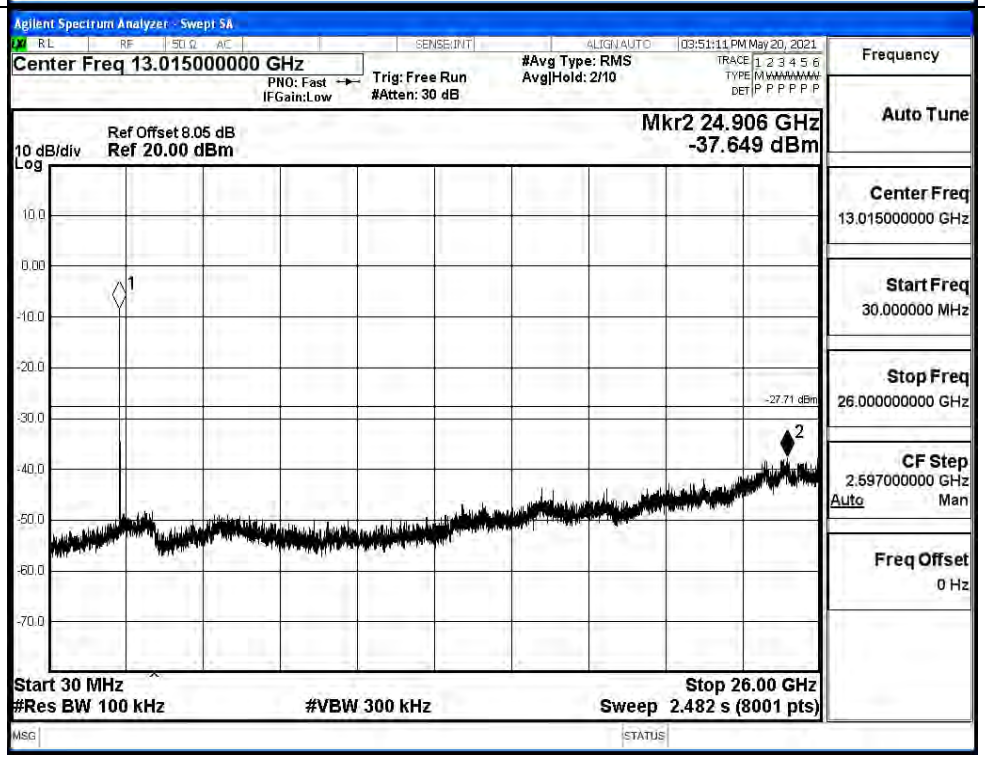
11N20SISO/HCH		
11N40SISO/LCH		

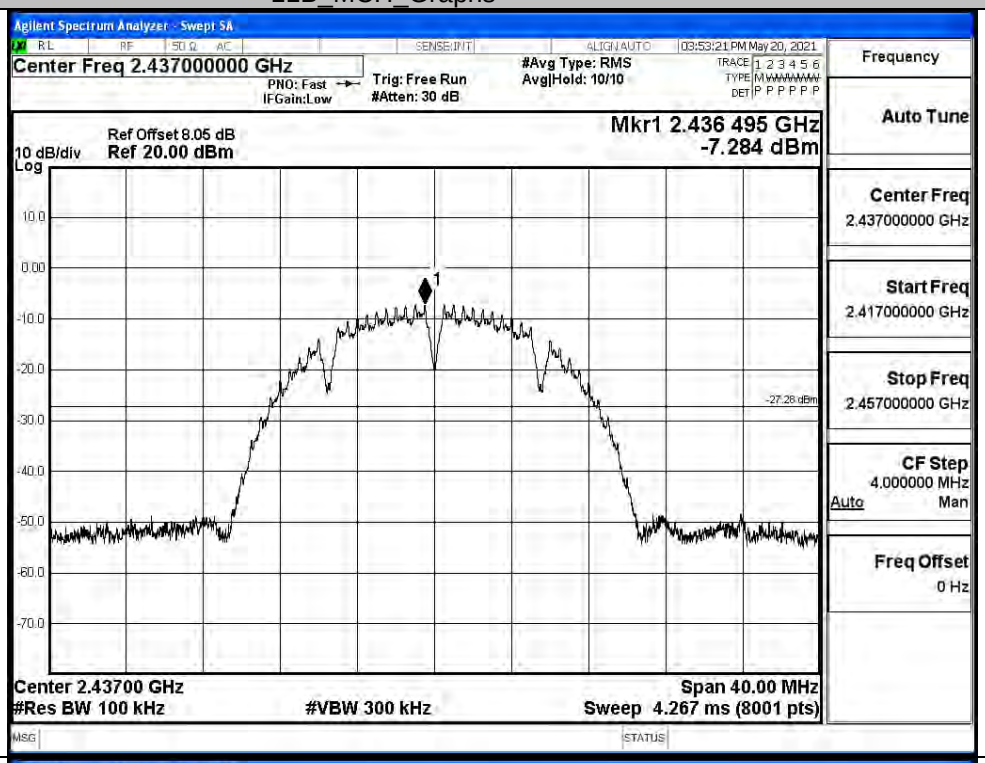
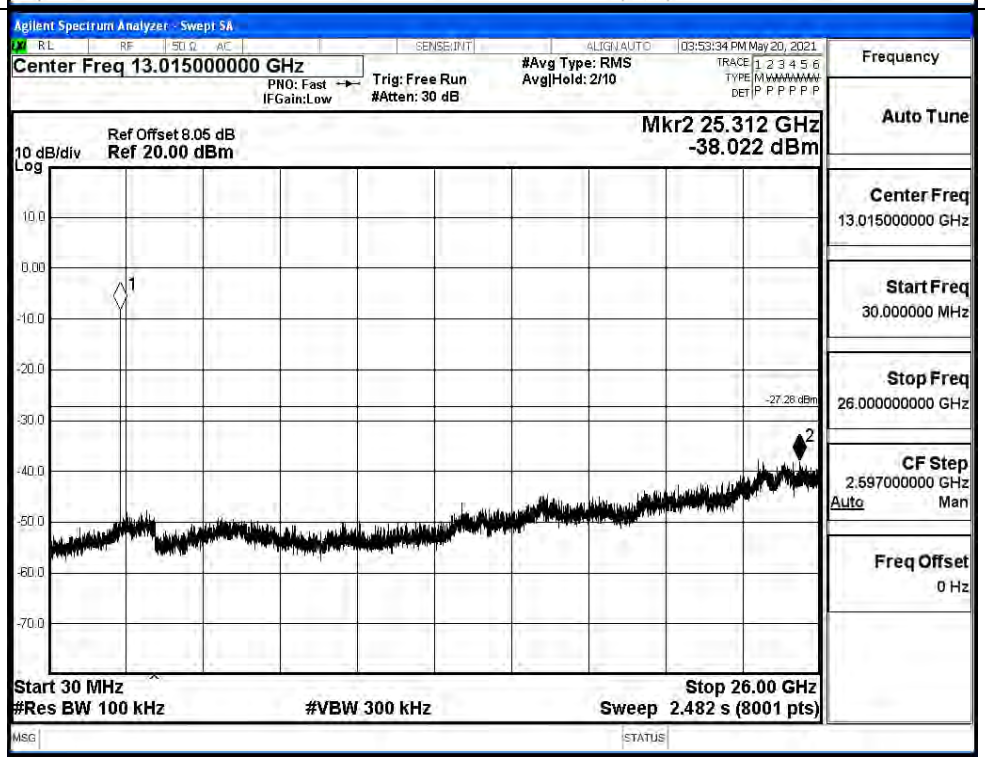
11N40SISO/MCH	
11N40SISO/HCH	

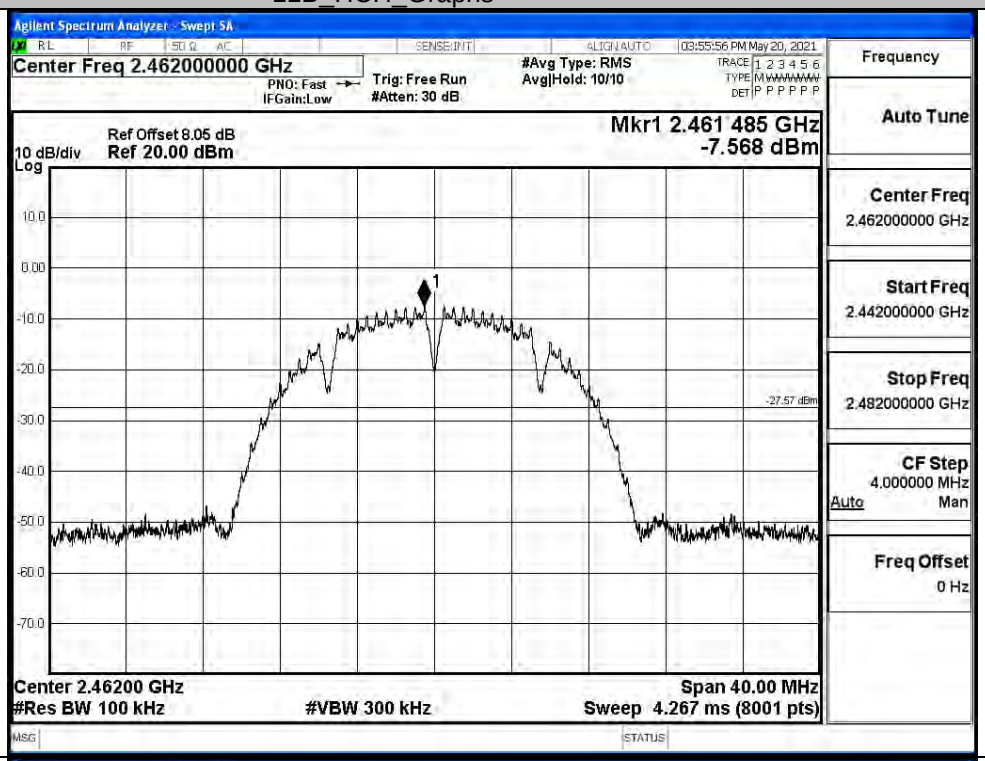
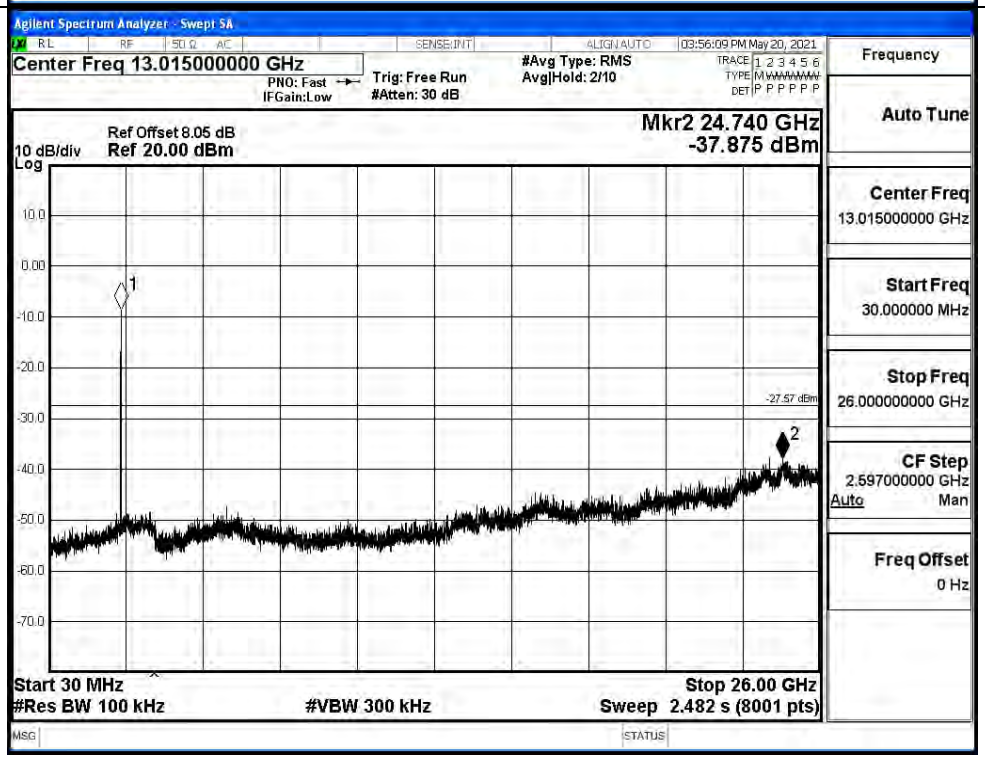
C.5 RF Conducted Spurious Emissions

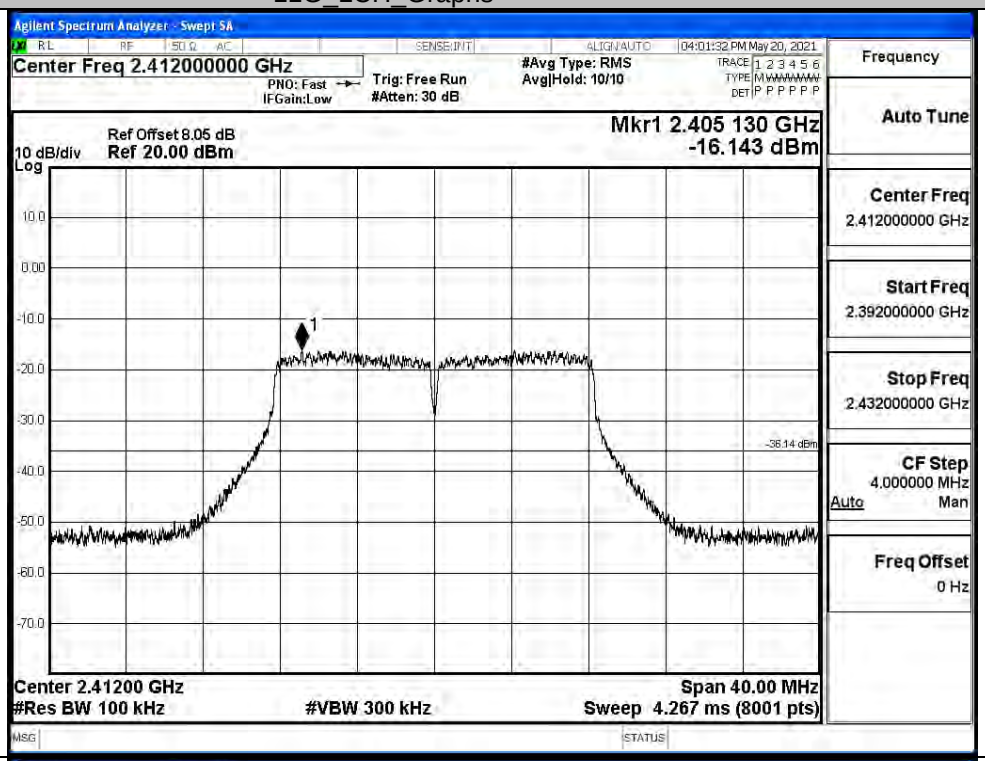
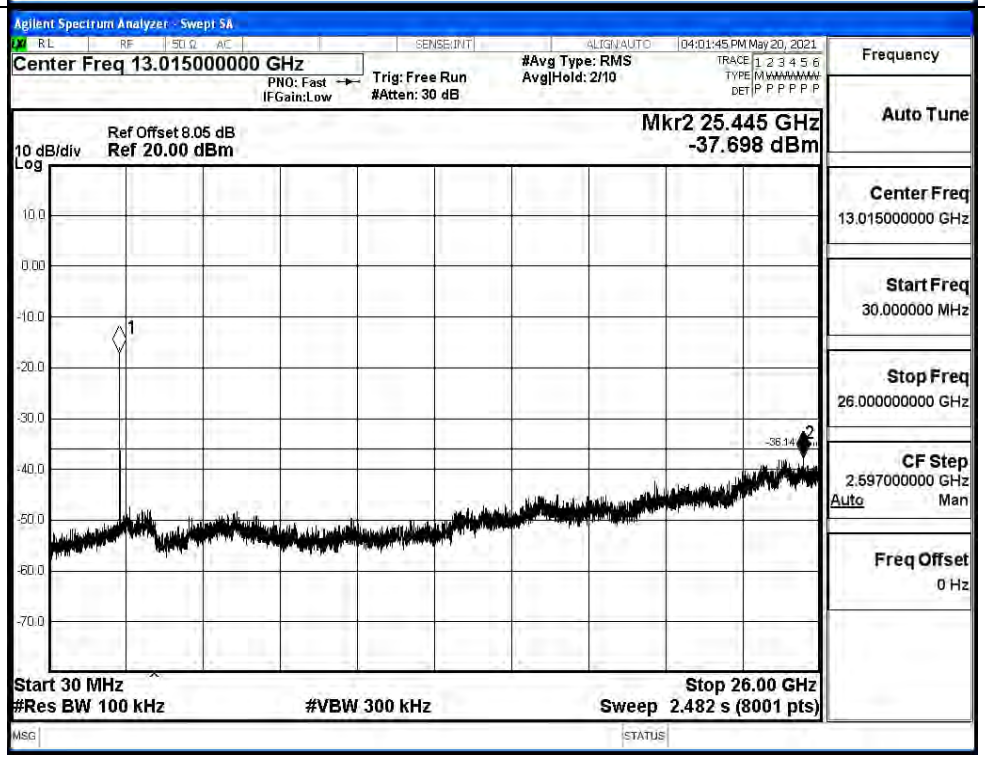
ANT0

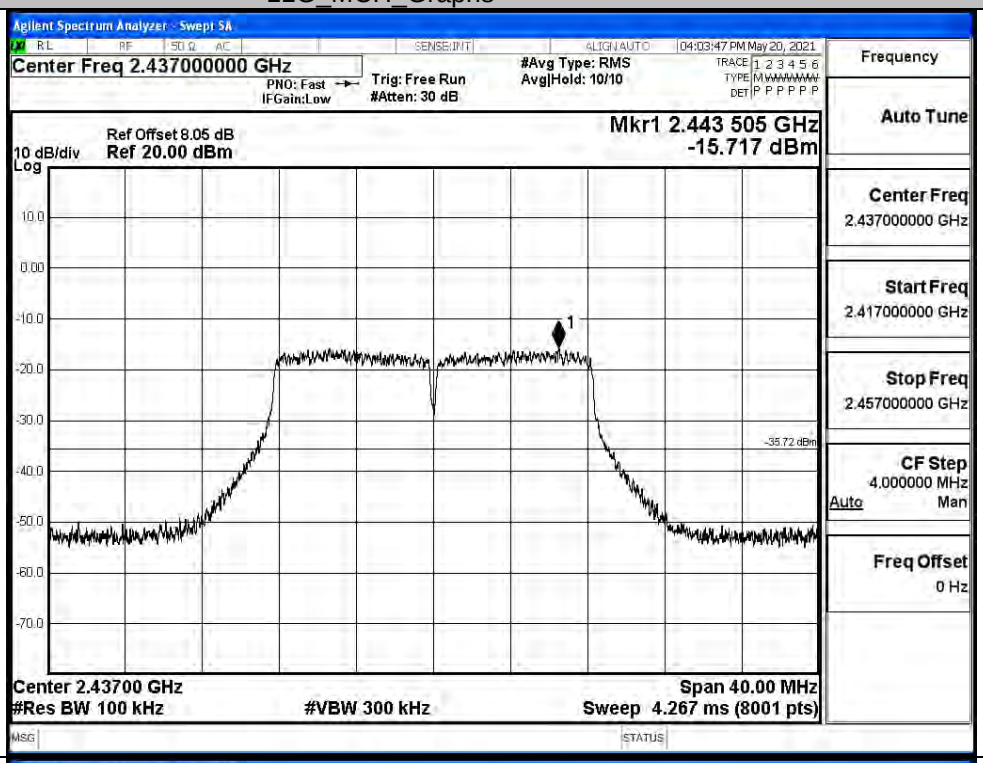
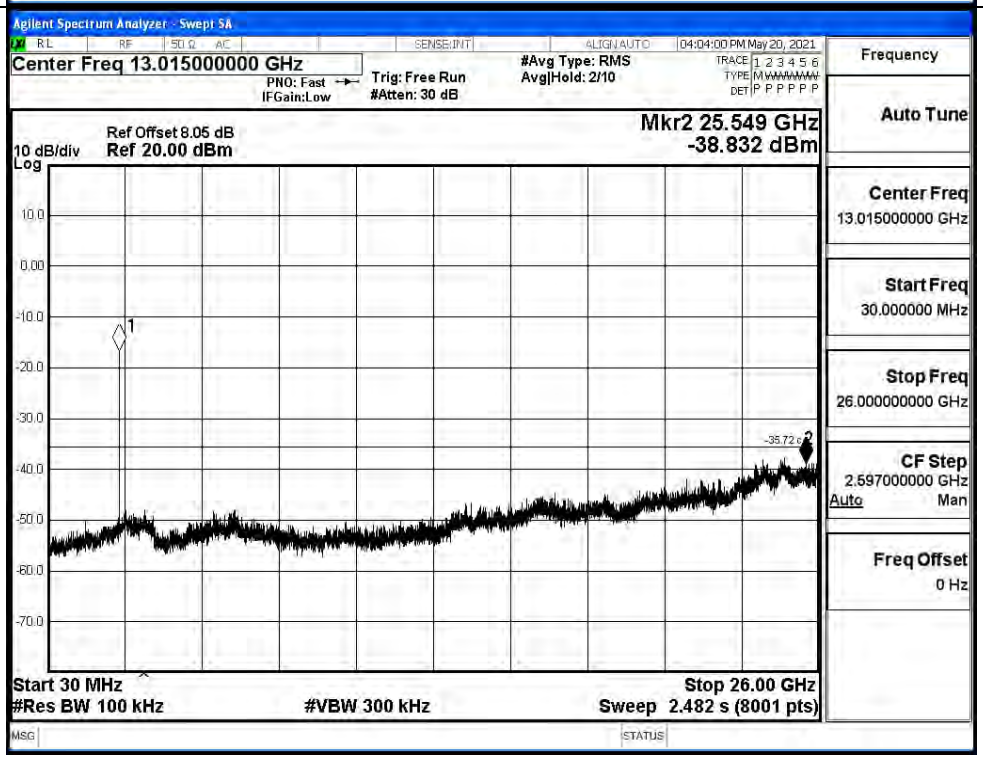
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-7.711	-37.649	-27.711	PASS
	MCH	-7.284	-38.022	-27.284	PASS
	HCH	-7.568	-37.875	-27.568	PASS
11G	LCH	-16.143	-37.698	-36.143	PASS
	MCH	-15.717	-38.832	-35.717	PASS
	HCH	-16.049	-38.452	-36.049	PASS
11N20 SISO	LCH	-15.923	-38.271	-35.923	PASS
	MCH	-16.196	-38.022	-36.196	PASS
	HCH	-16.387	-38.250	-36.387	PASS
11N40 SISO	LCH	-16.577	-38.433	-36.577	PASS
	MCH	-16.914	-38.308	-36.914	PASS
	HCH	-16.958	-38.444	-36.958	PASS

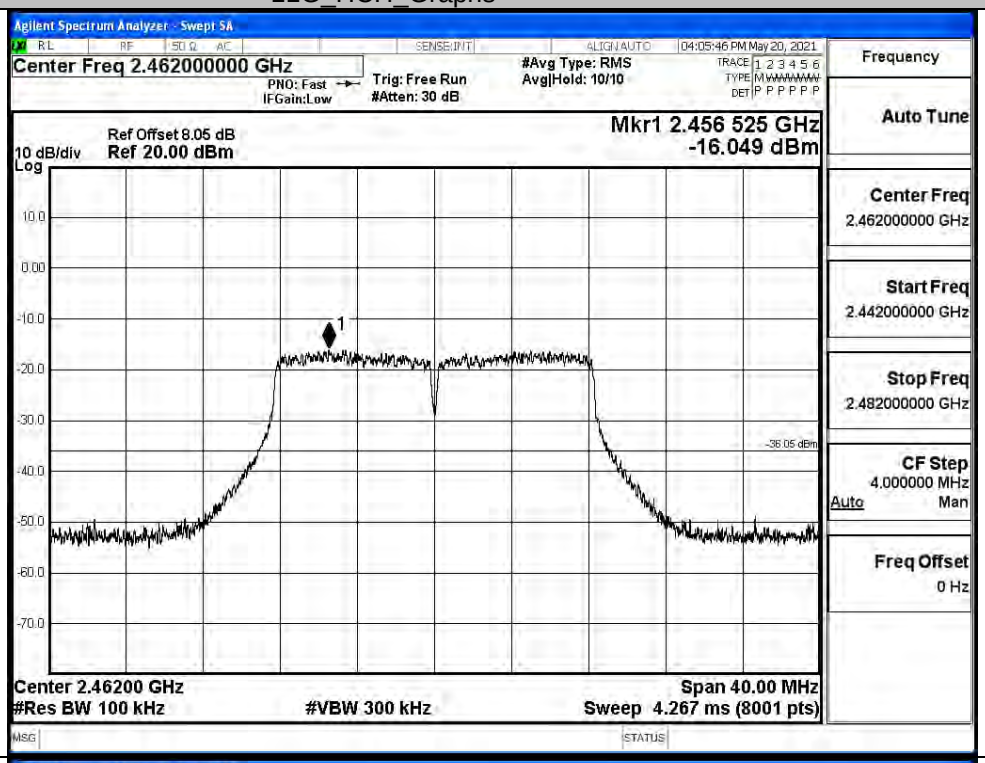
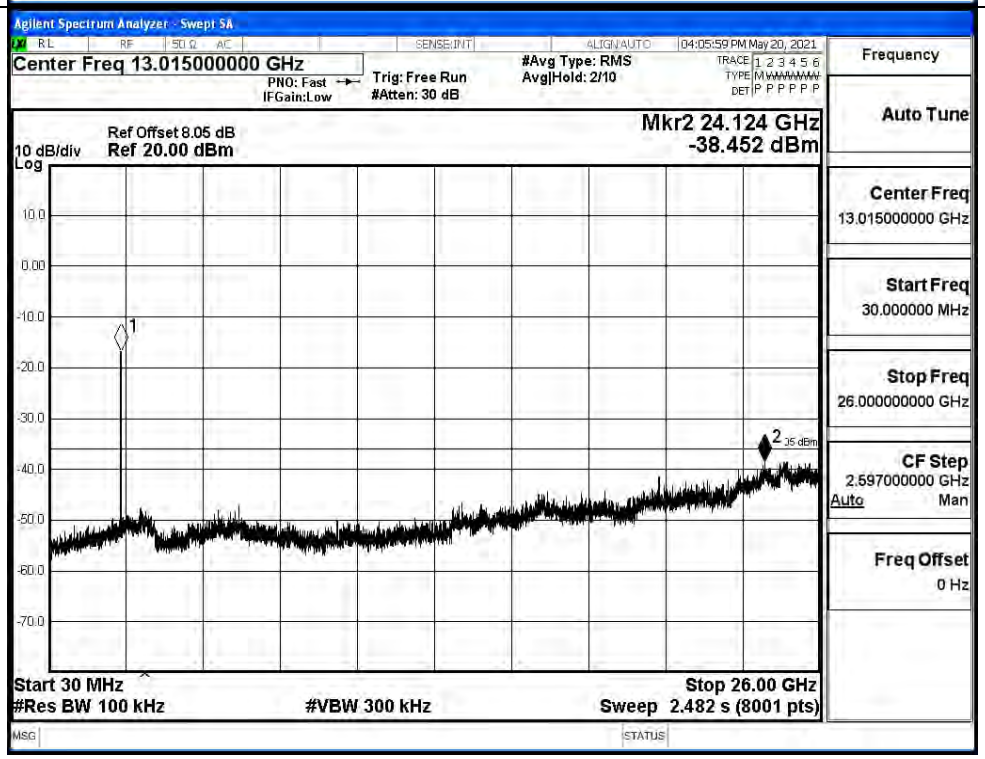
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

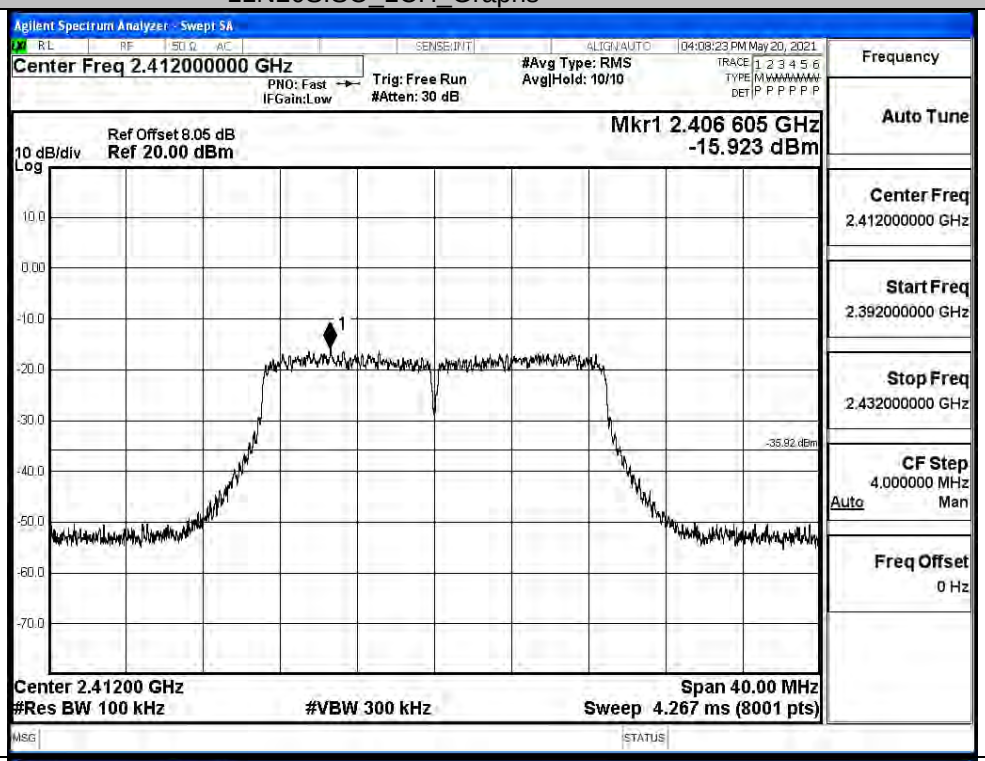
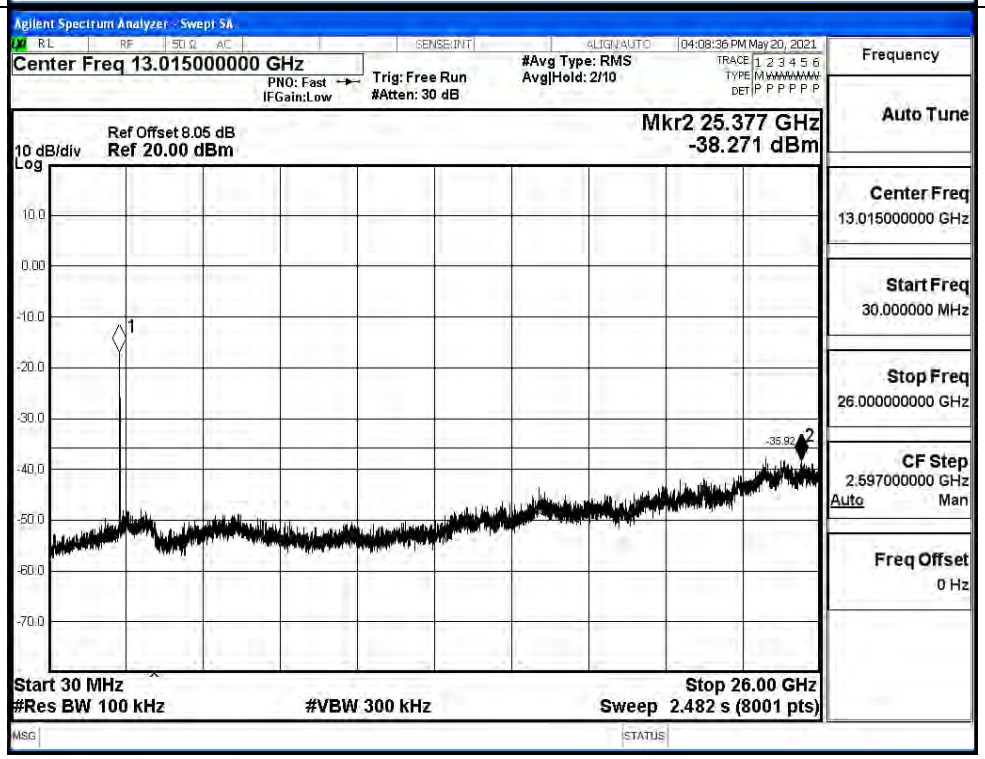
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

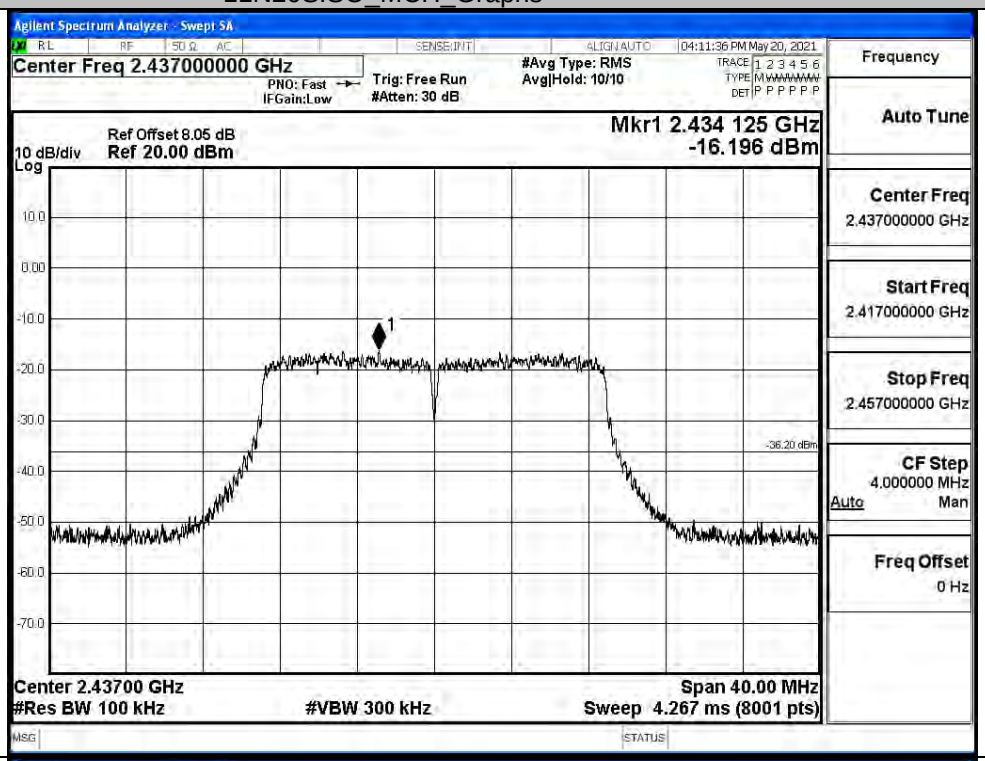
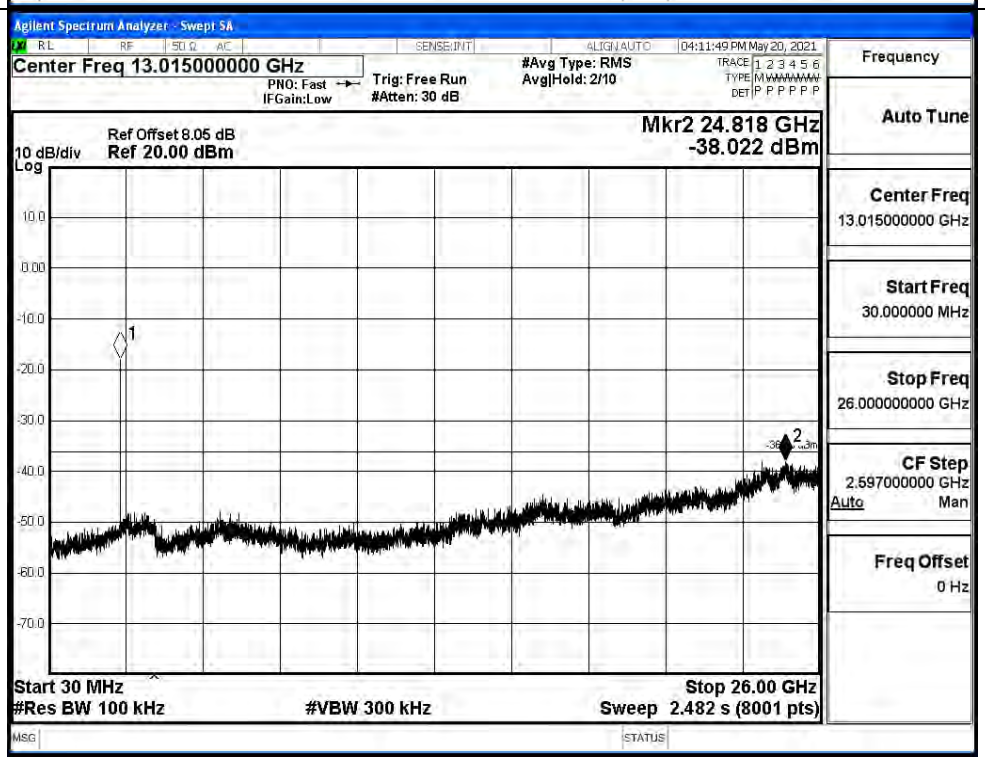
11B_HCH_Graphs	
Pref/11B/HCH	
Puw/11B/HCH	

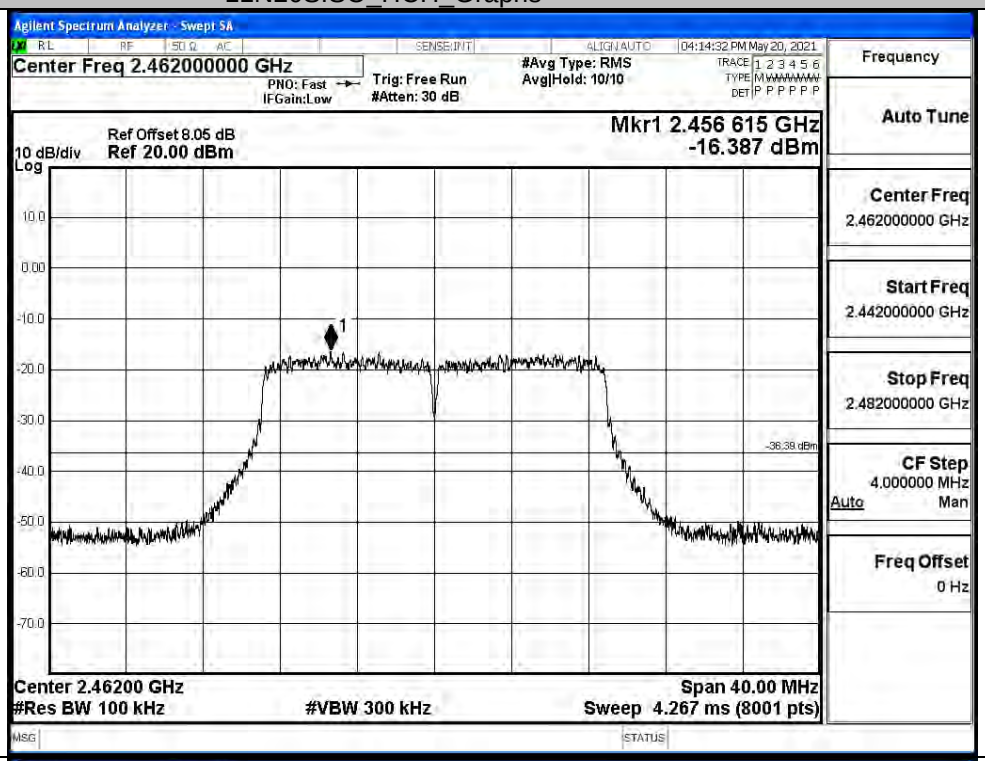
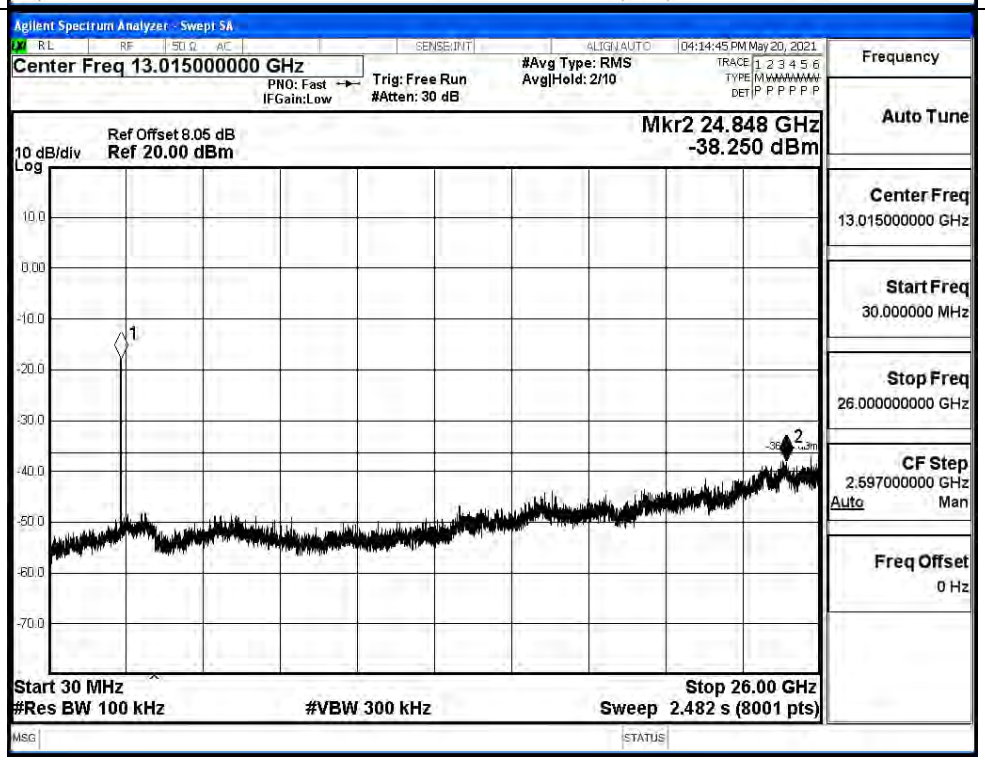
11G_LCH_Graphs		
Pref/11G/LCH		
Puw/11G/LCH		

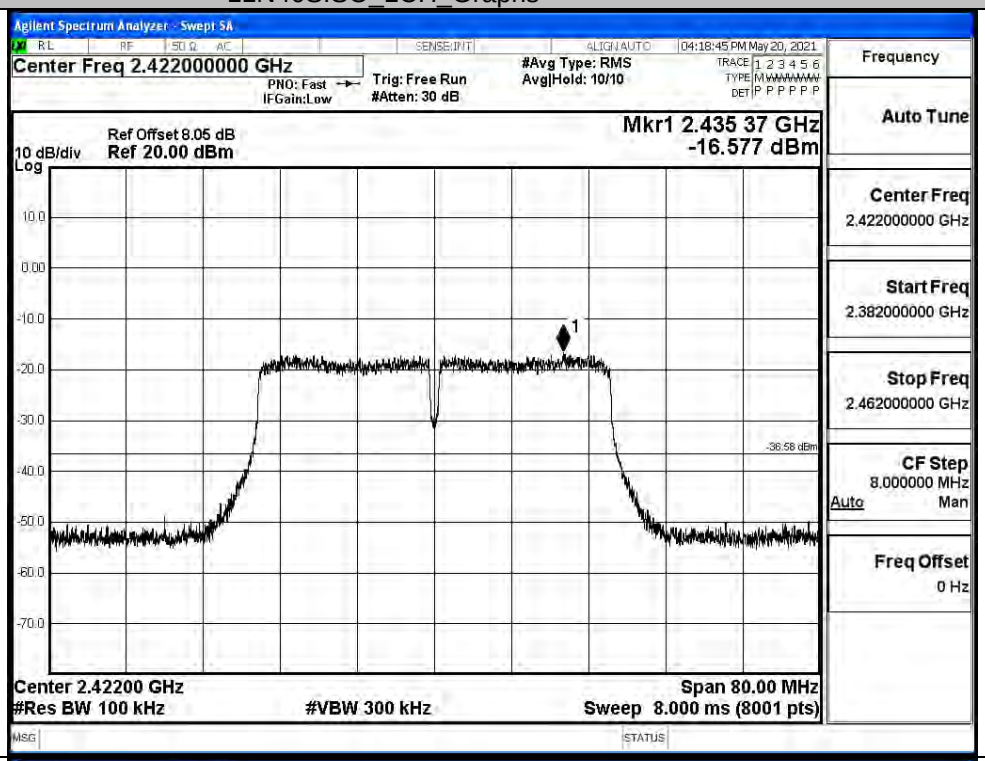
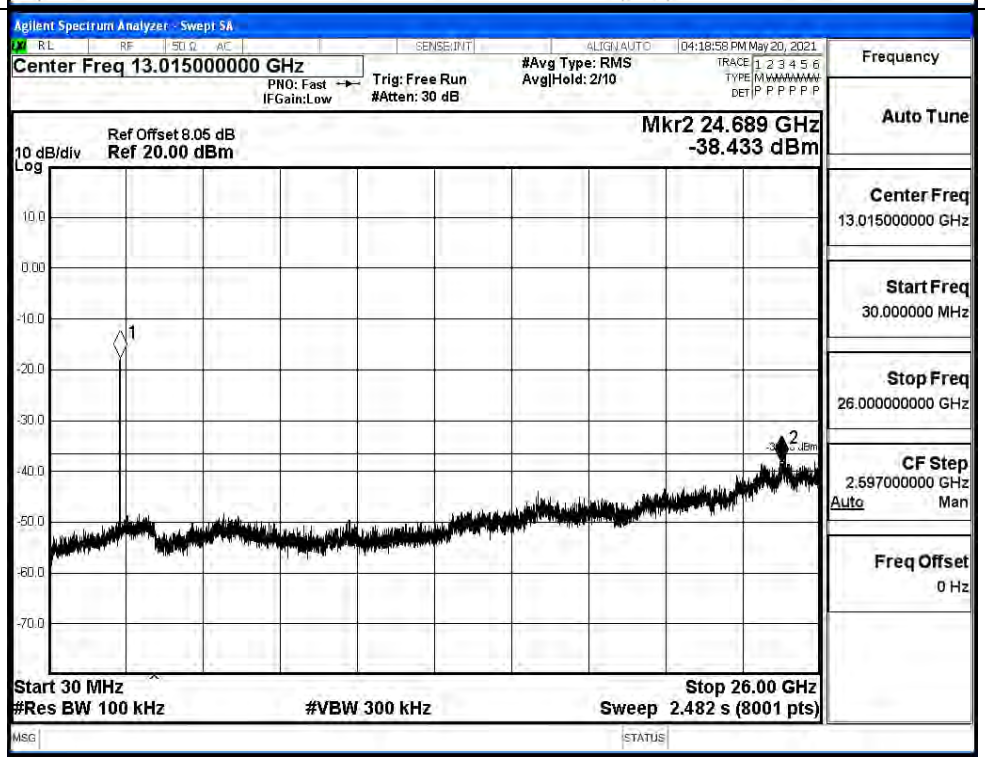
11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

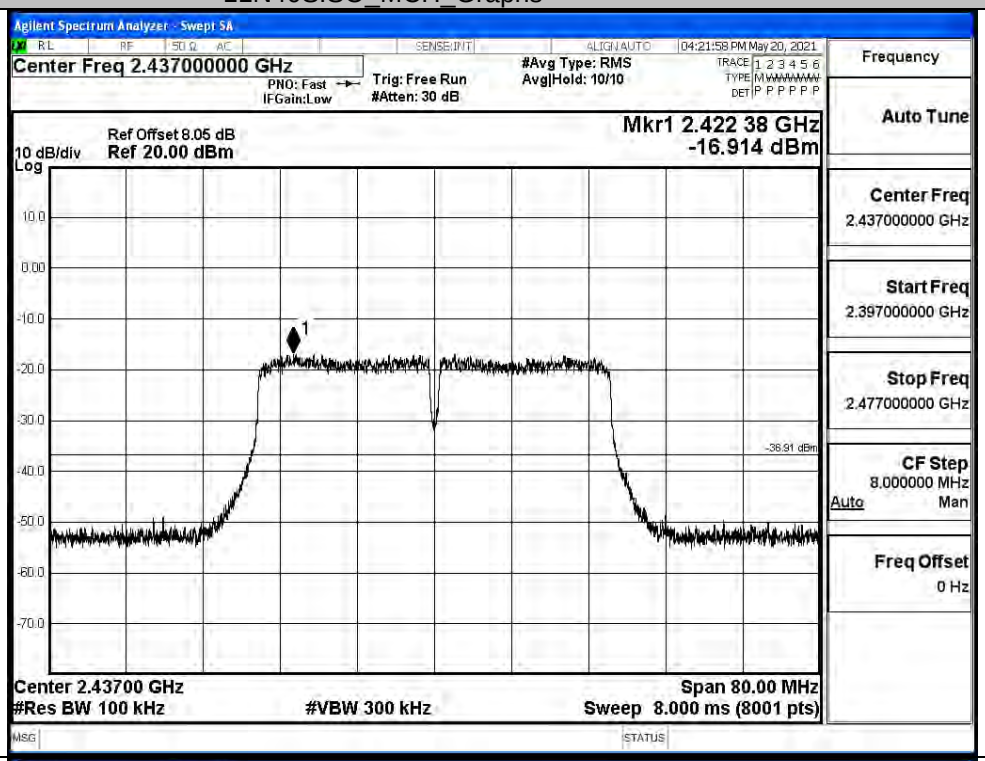
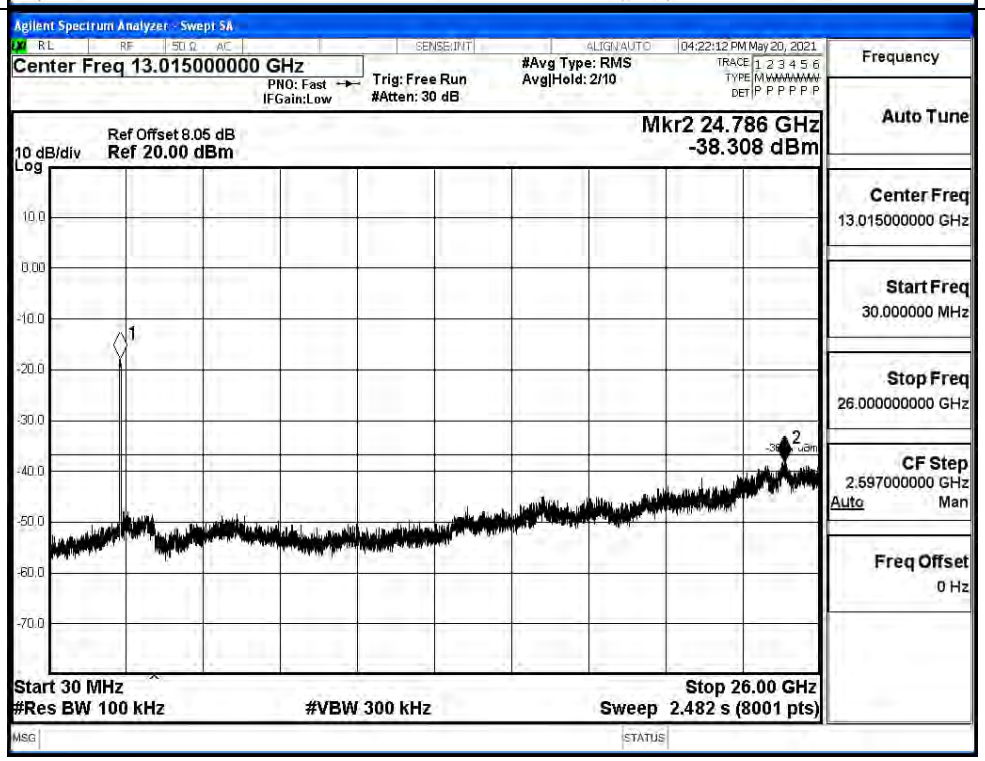
11G_HCH_Graphs		
Pref/11G/HCH		
Puw/11G/HCH		

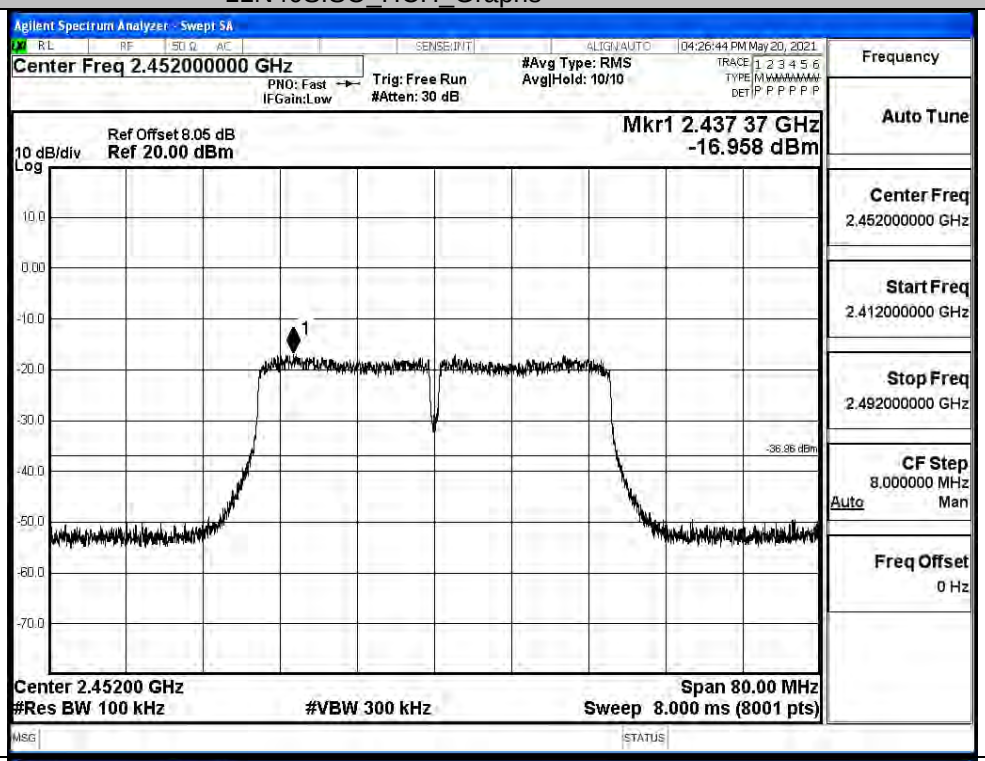
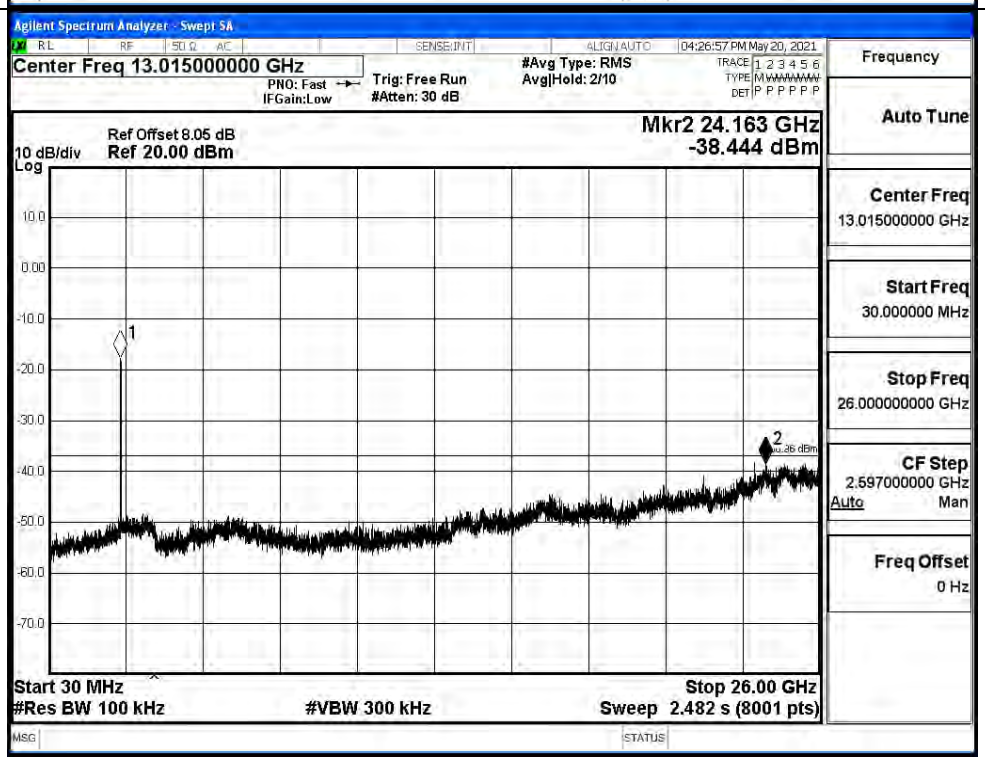
11N20SISO_LCH_Graphs	
Pref/11N20SISO/LCH	
Puw/11N20SISO/LCH	

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

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

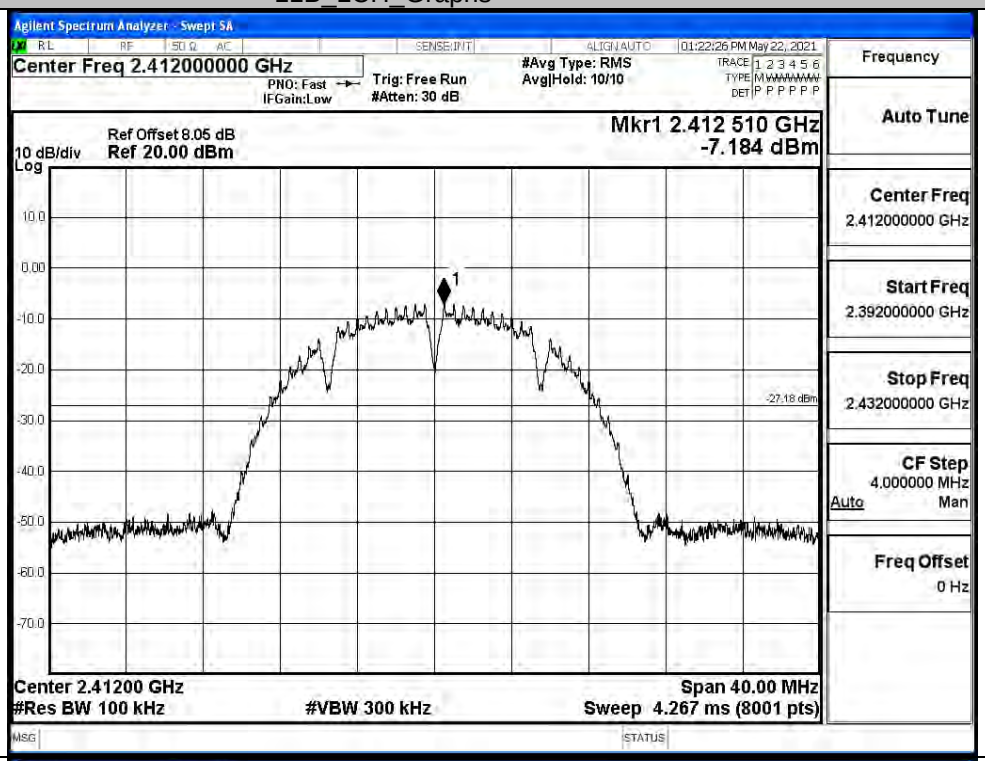
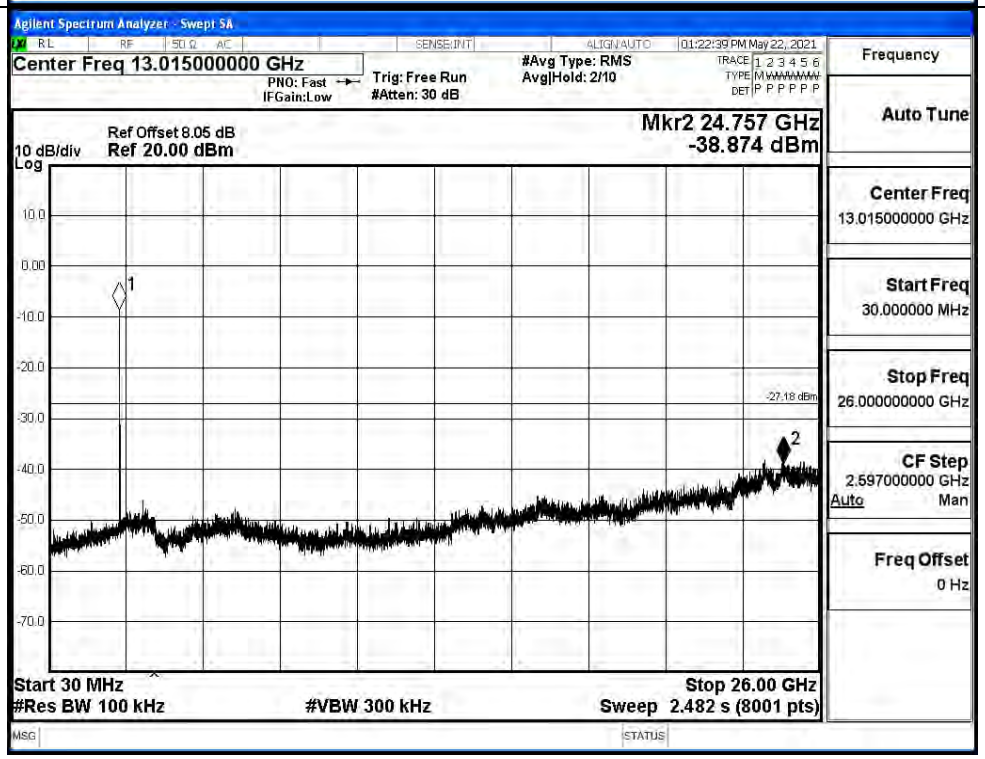
11N40SISO_LCH_Graphs	
Pref/11N40 SISO/LCH	
Puw/11N40 SISO/LCH	

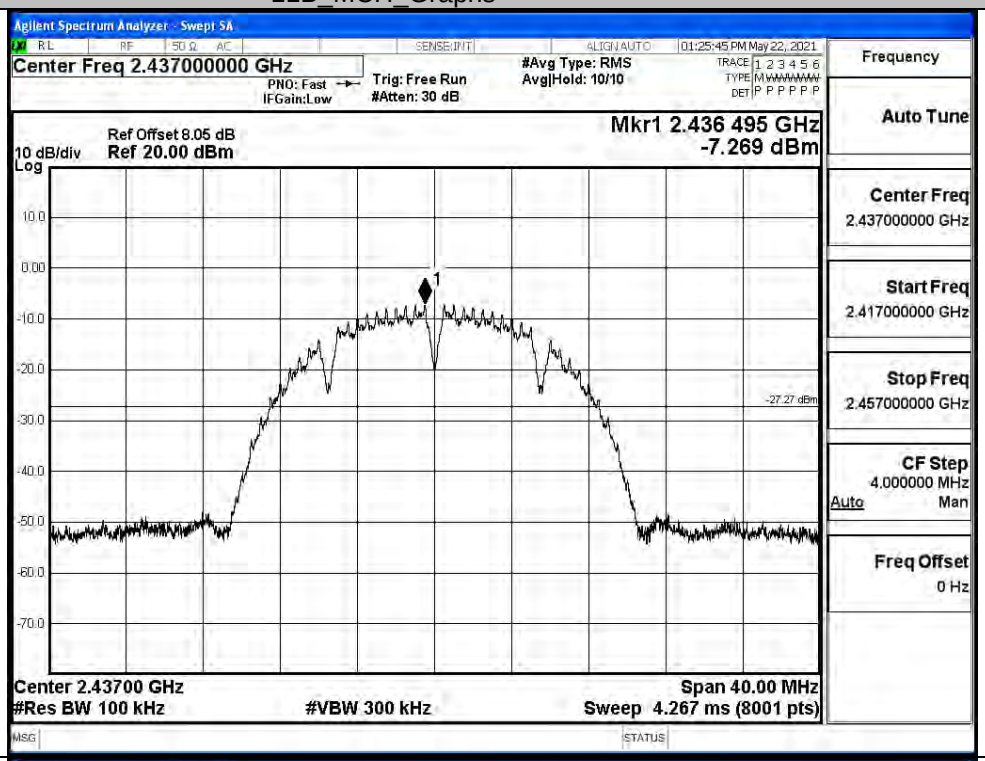
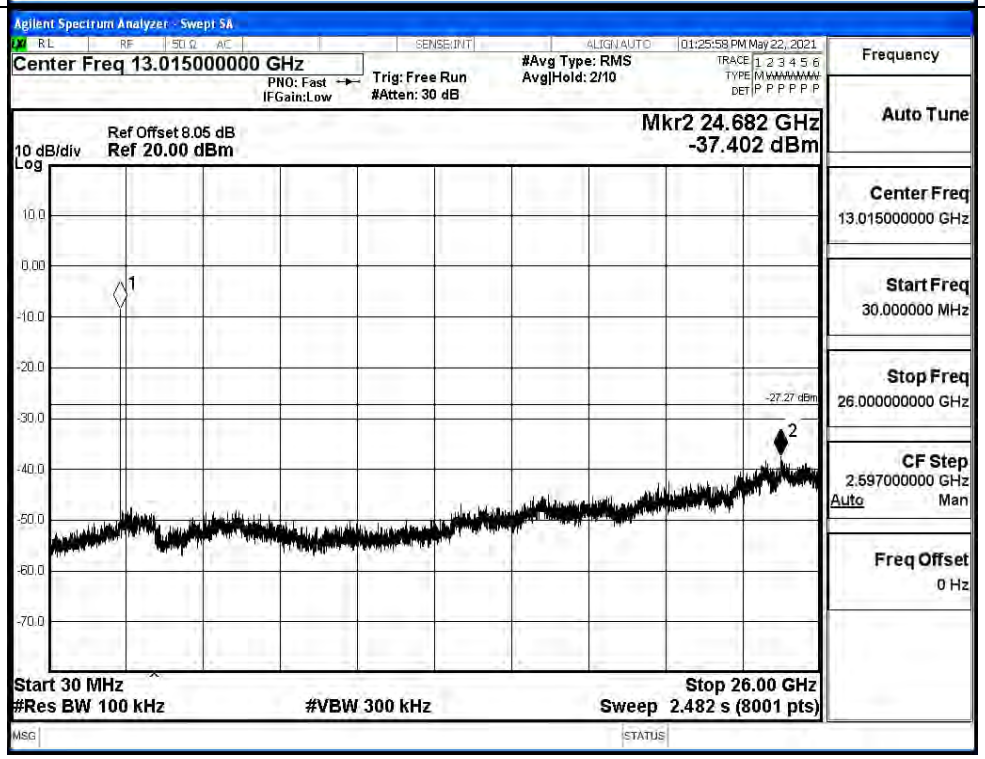
11N40SISO_MCH_Graphs	
Pref/11N40 SISO/MCH	
Puw/11N40 SISO/MCH	

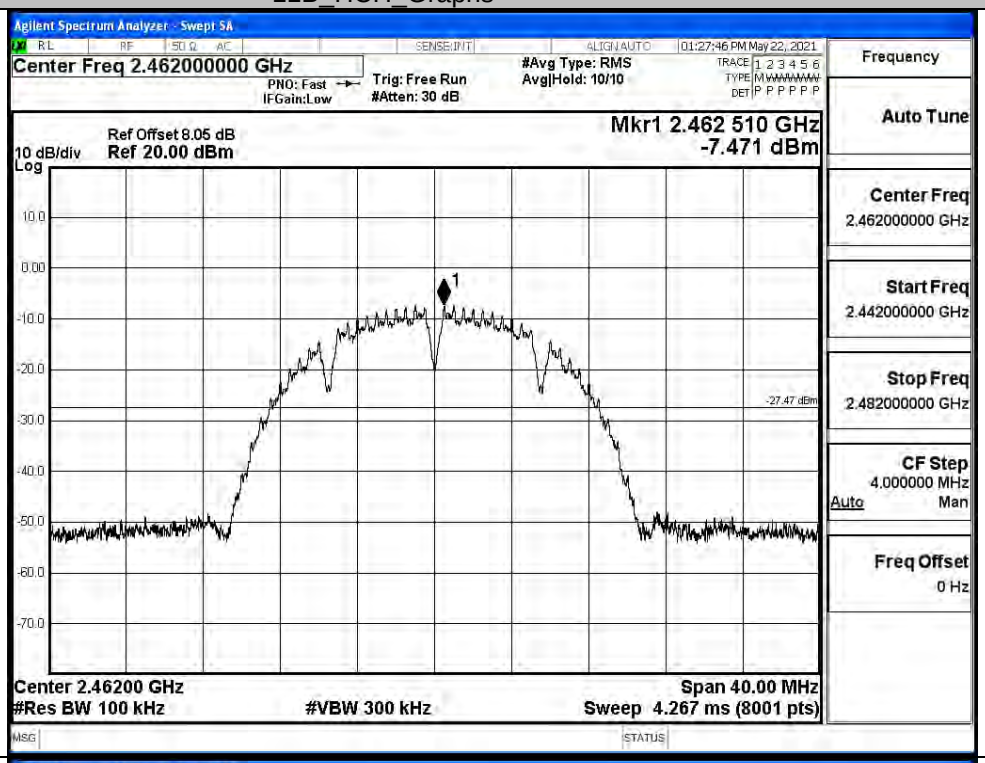
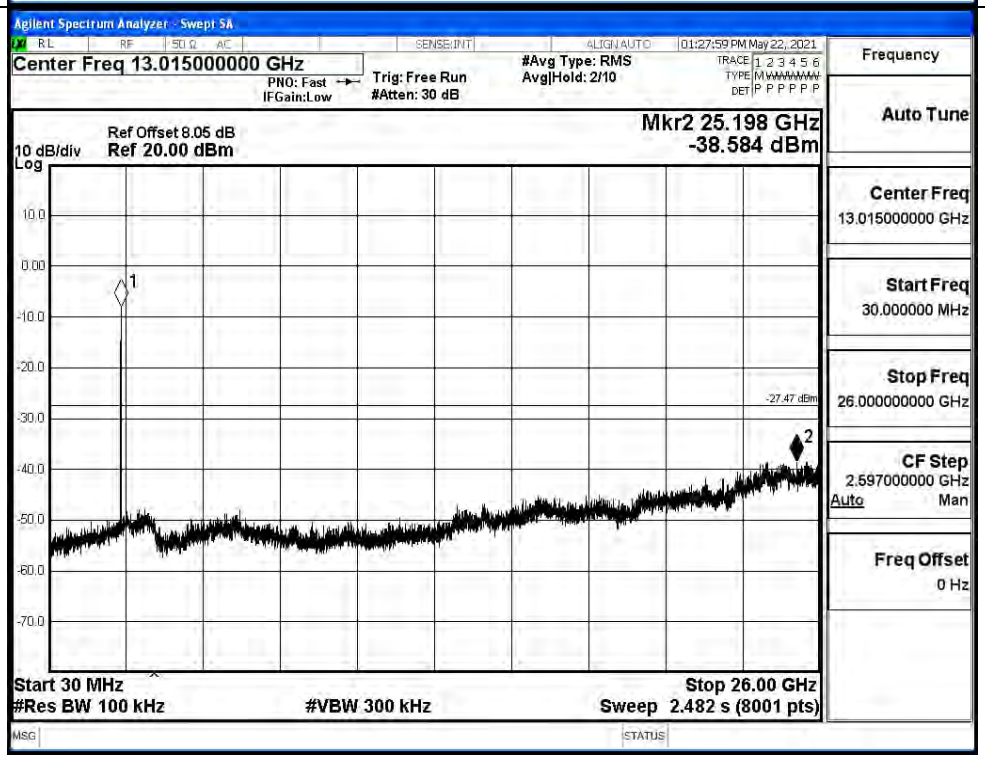
11N40SISO_HCH_Graphs	
Pref/11N40 SISO/HCH	
Puw/11N40 SISO/HCH	

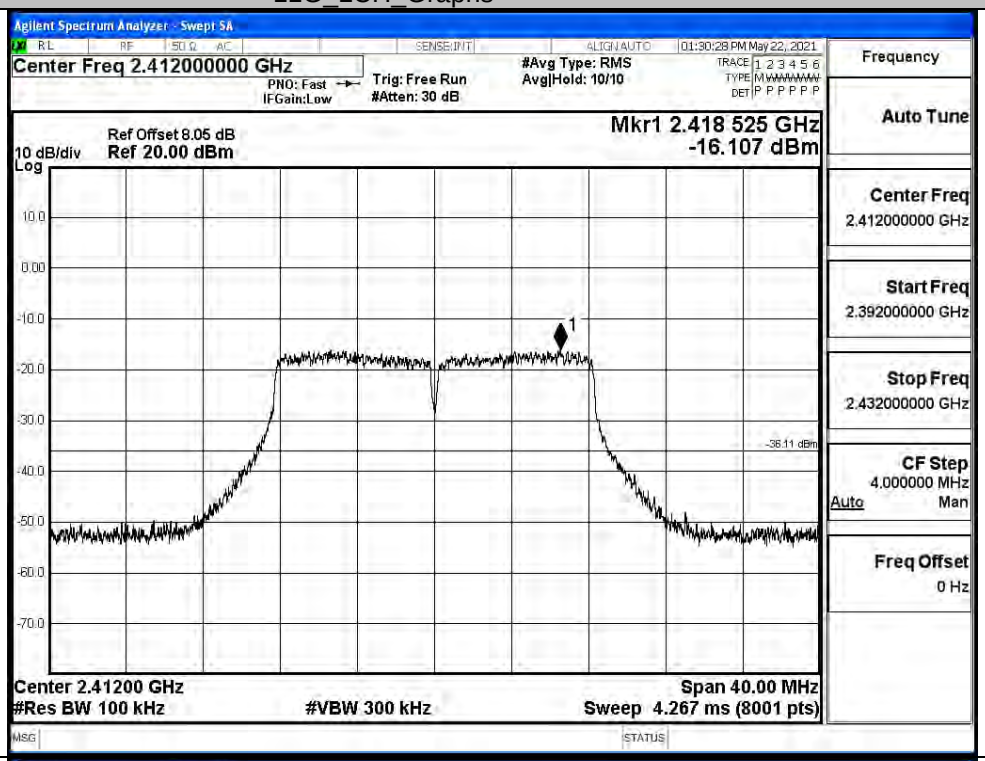
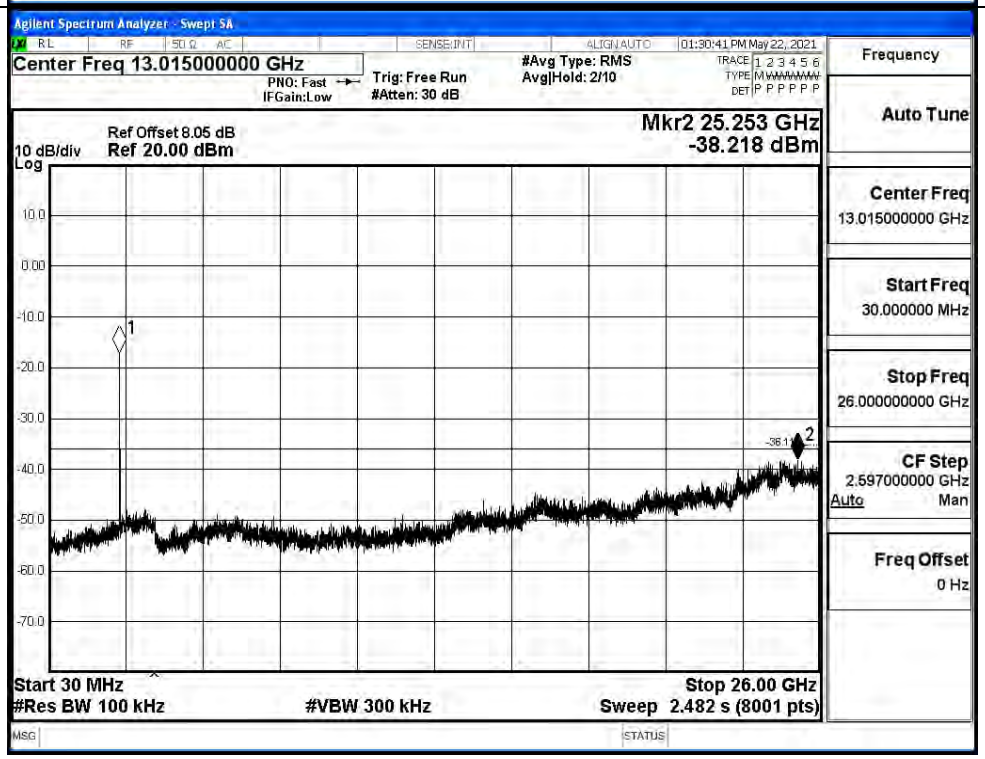
ANT1

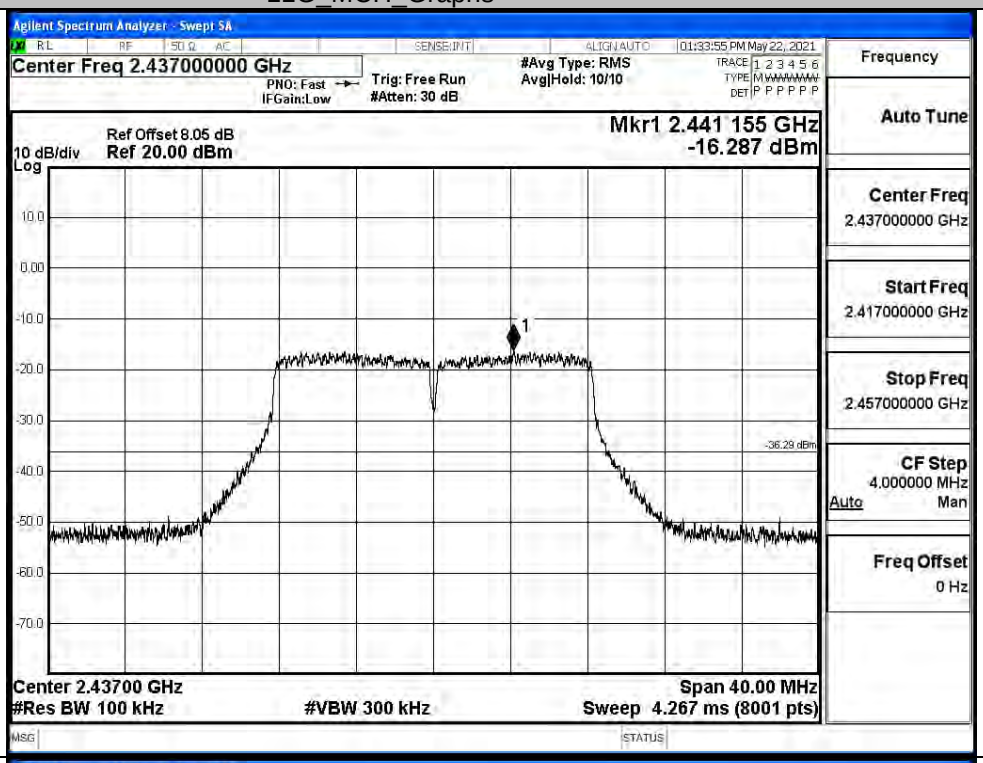
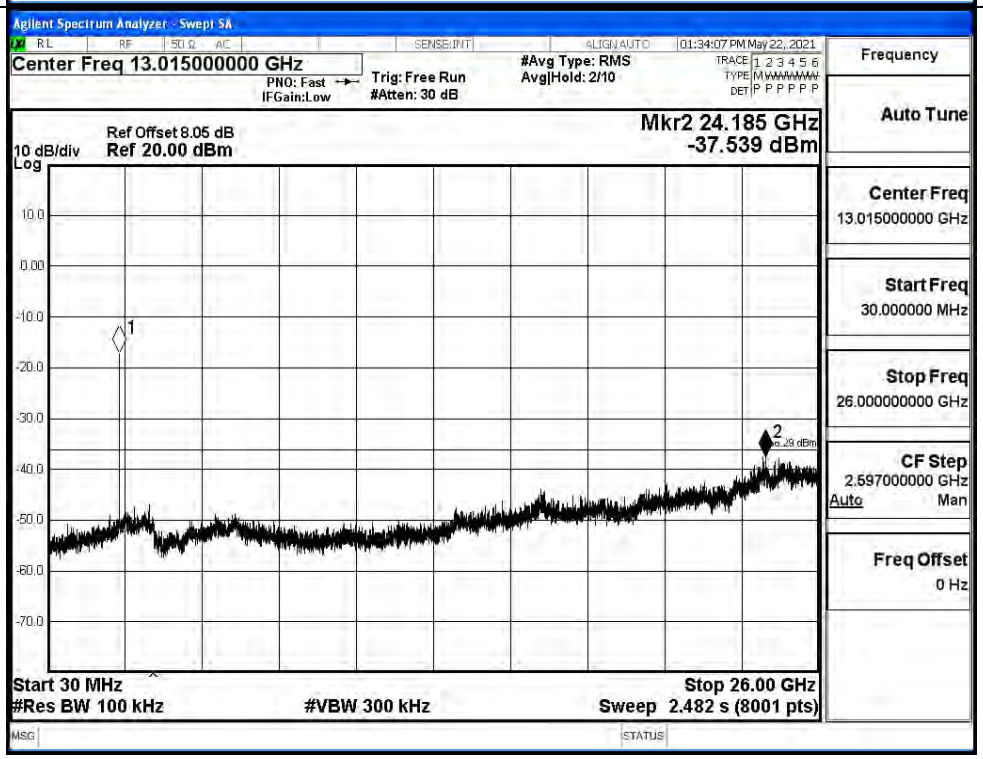
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-7.184	-38.874	-27.184	PASS
	MCH	-7.269	-37.402	-27.269	PASS
	HCH	-7.471	-38.584	-27.471	PASS
11G	LCH	-16.107	-38.218	-36.107	PASS
	MCH	-16.287	-37.539	-36.287	PASS
	HCH	-16.526	-36.910	-36.526	PASS
11N20 SISO	LCH	-16.553	-38.271	-36.553	PASS
	MCH	-15.845	-37.212	-35.845	PASS
	HCH	-16.236	-37.744	-36.236	PASS
11N40 SISO	LCH	-16.129	-38.014	-36.129	PASS
	MCH	-16.557	-38.264	-36.557	PASS
	HCH	-16.516	-38.315	-36.516	PASS

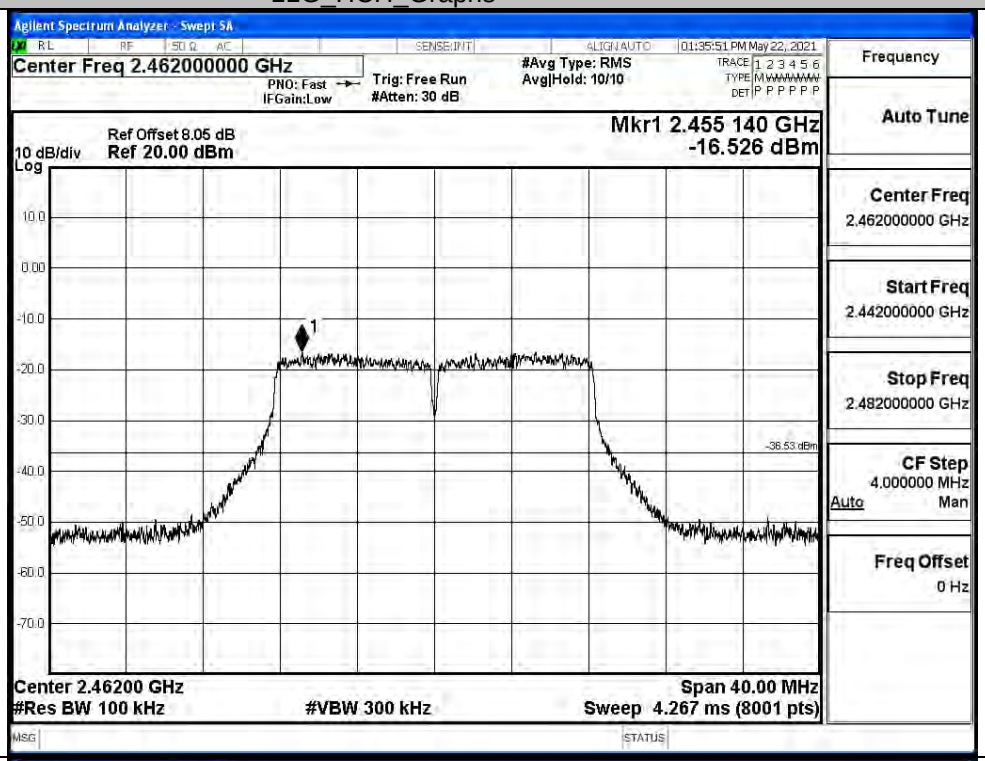
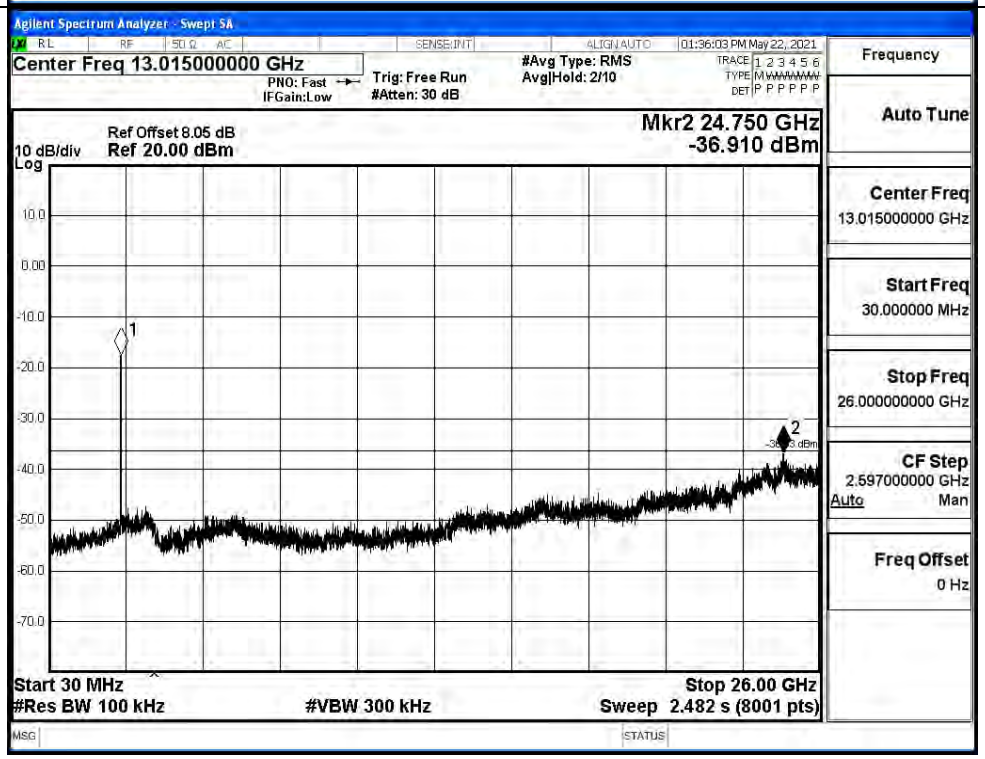
11B_LCH_Graphs		
Pref/11B/LCH		
Puw/11B/LCH		

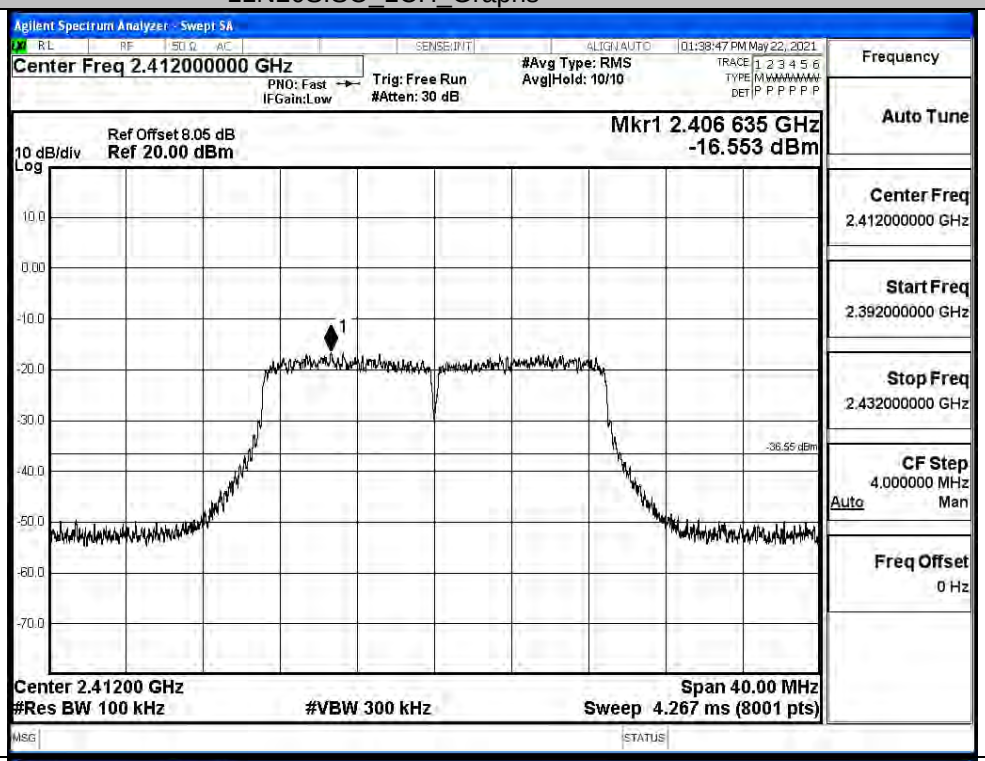
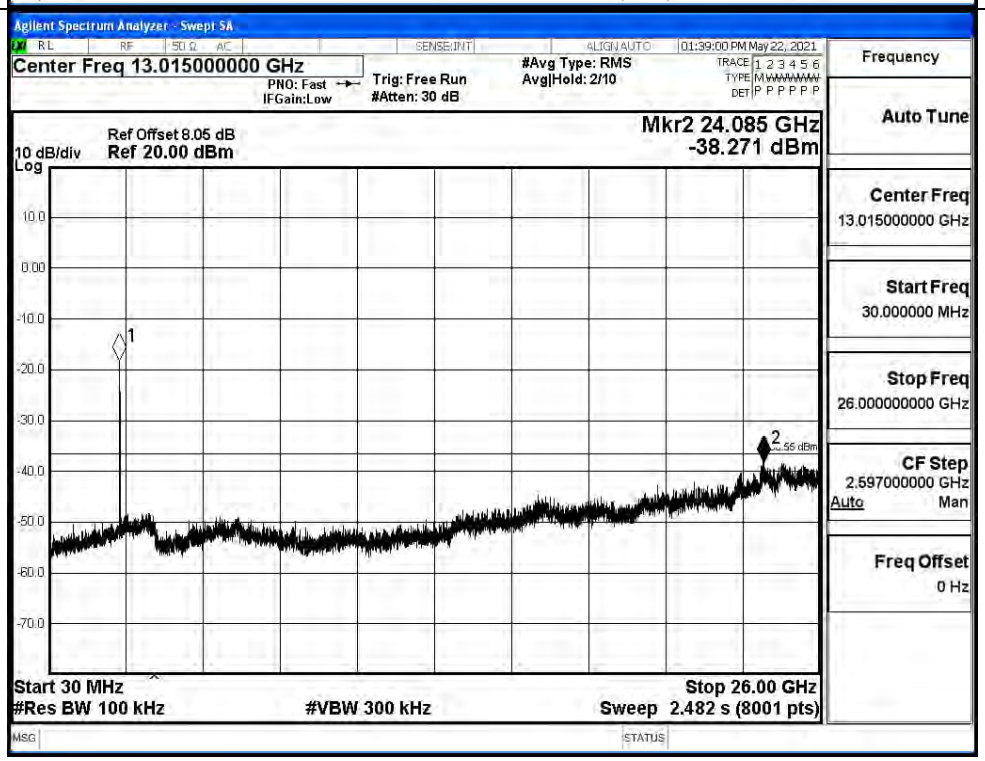
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

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	

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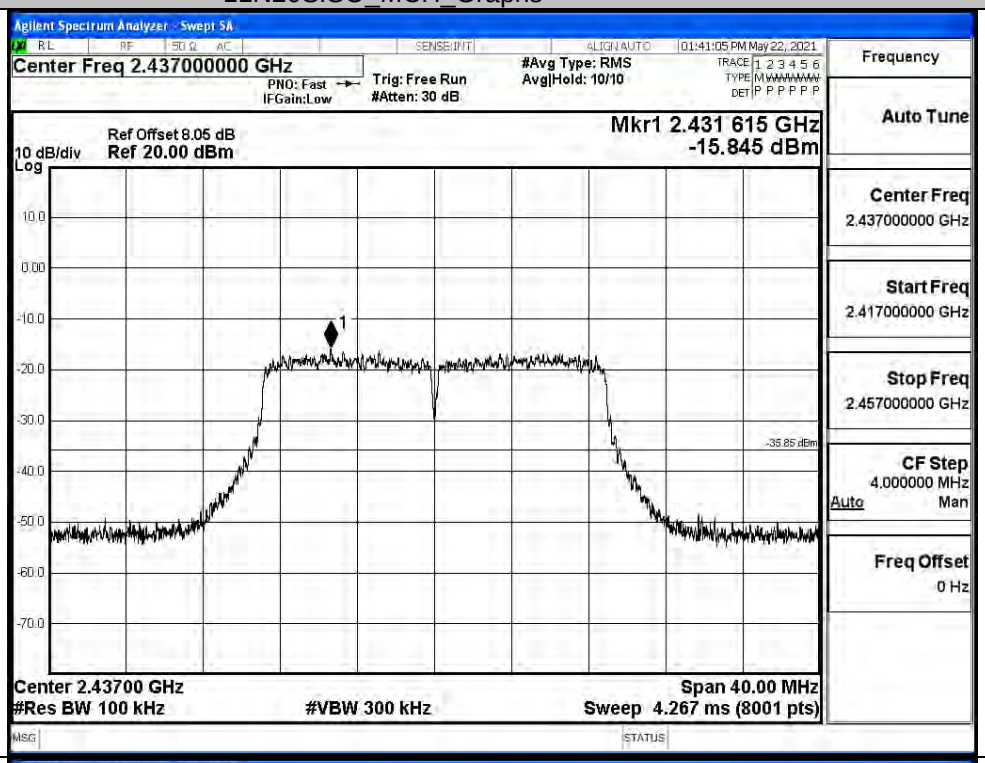
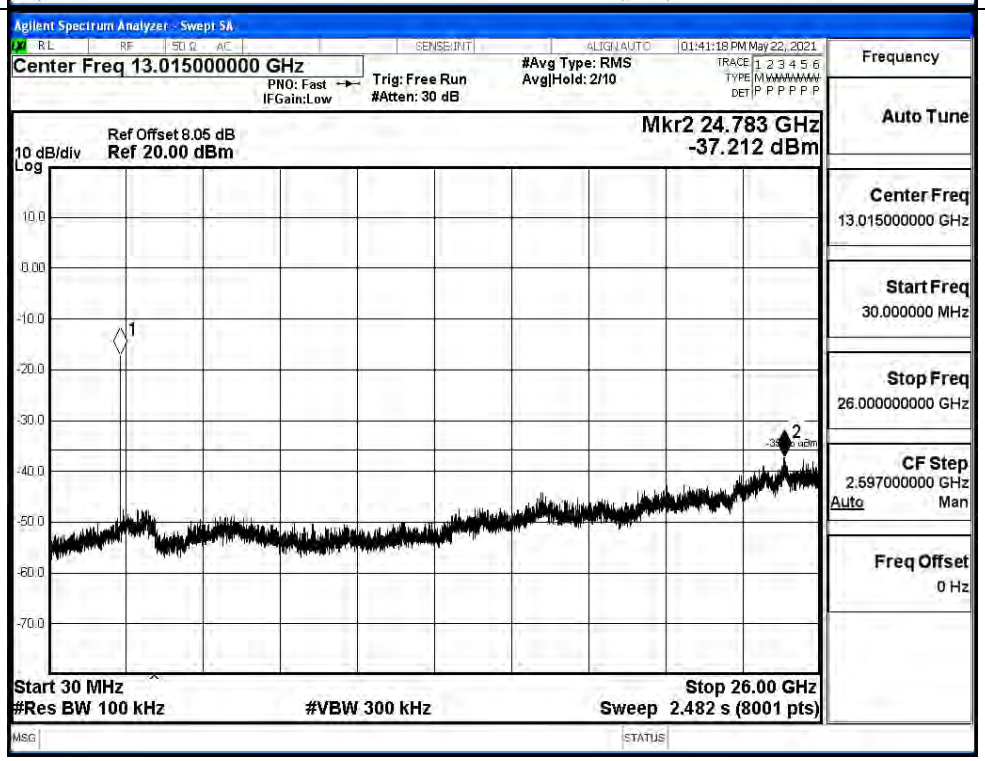
Pref/11N20 SISO/MCH	
Puw/11N20 SISO/MCH	

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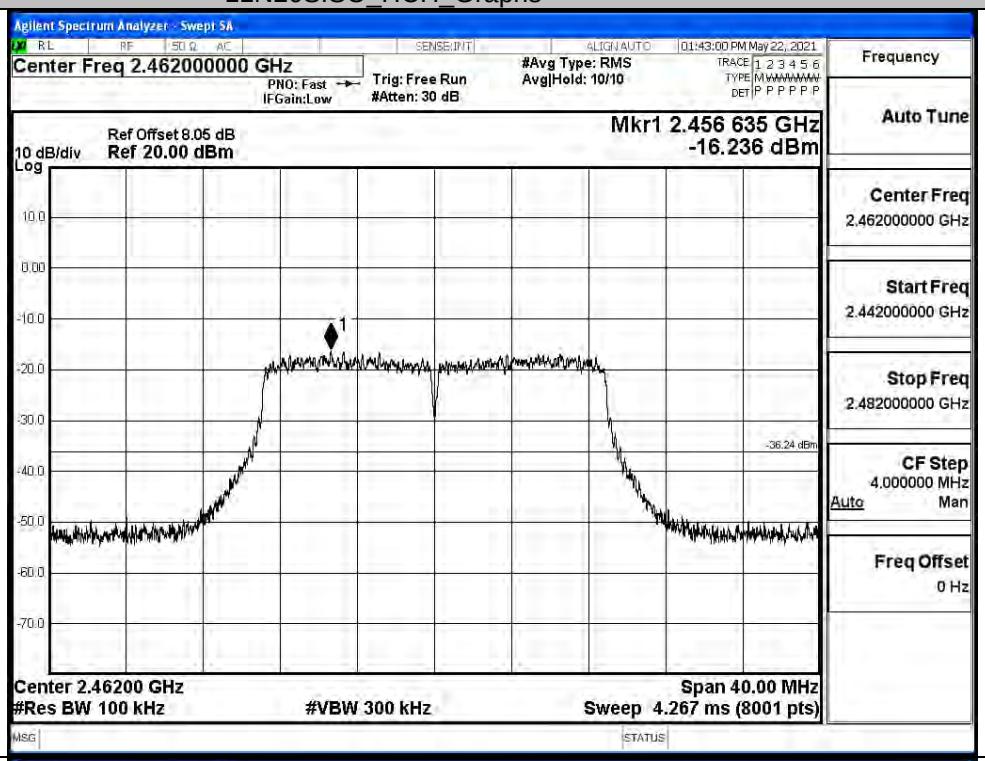
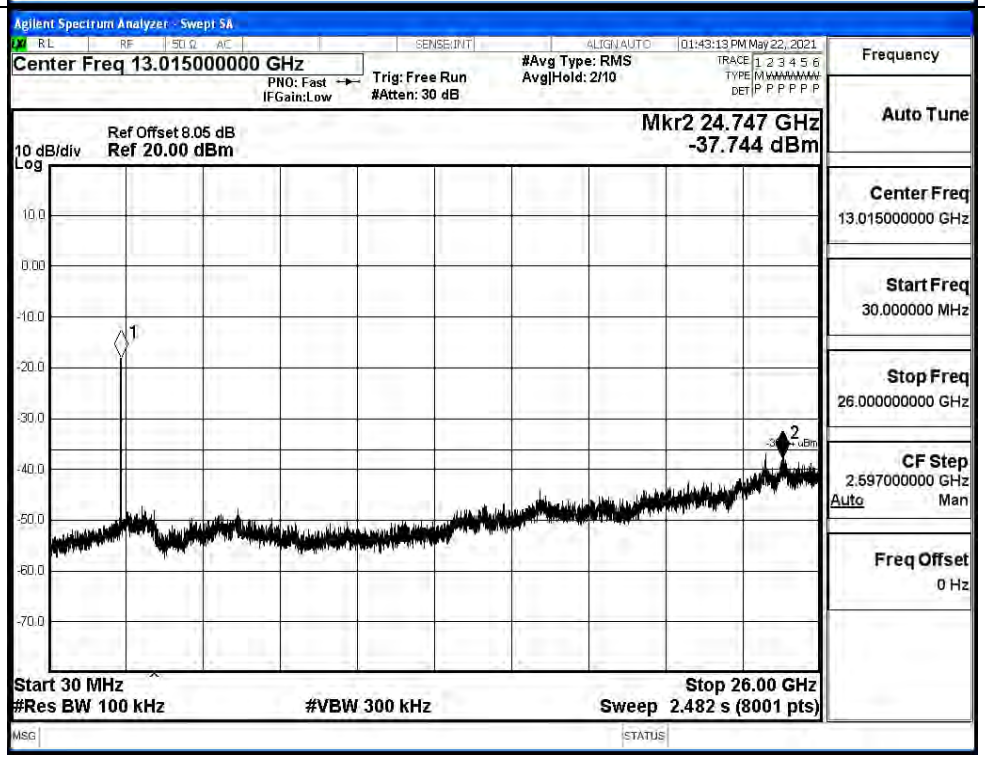
Pref/11N20 SISO/HCH	
Puw/11N20 SISO/HCH	

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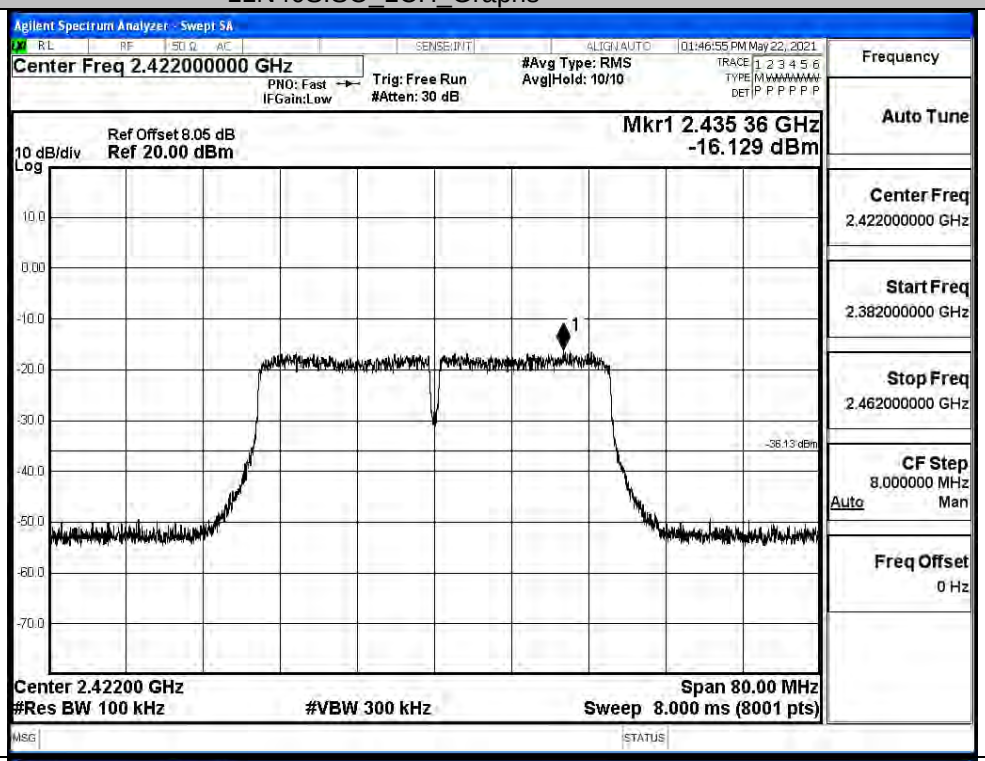
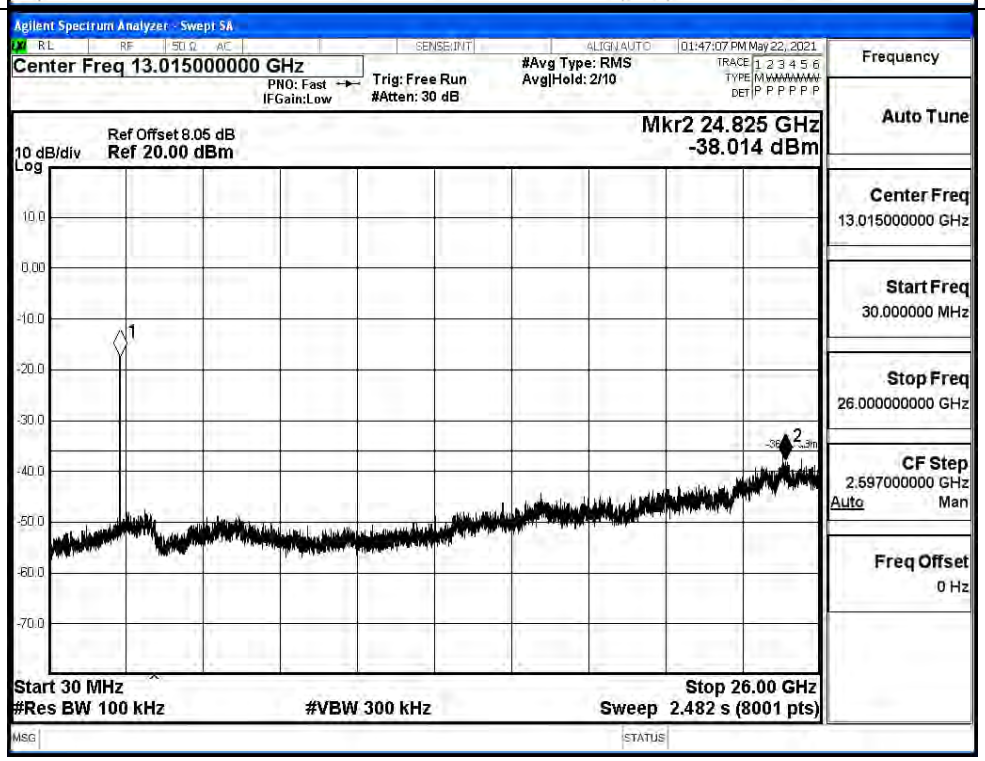
Pref/11N40 SISO/LCH	
Puw/11N40 SISO/LCH	

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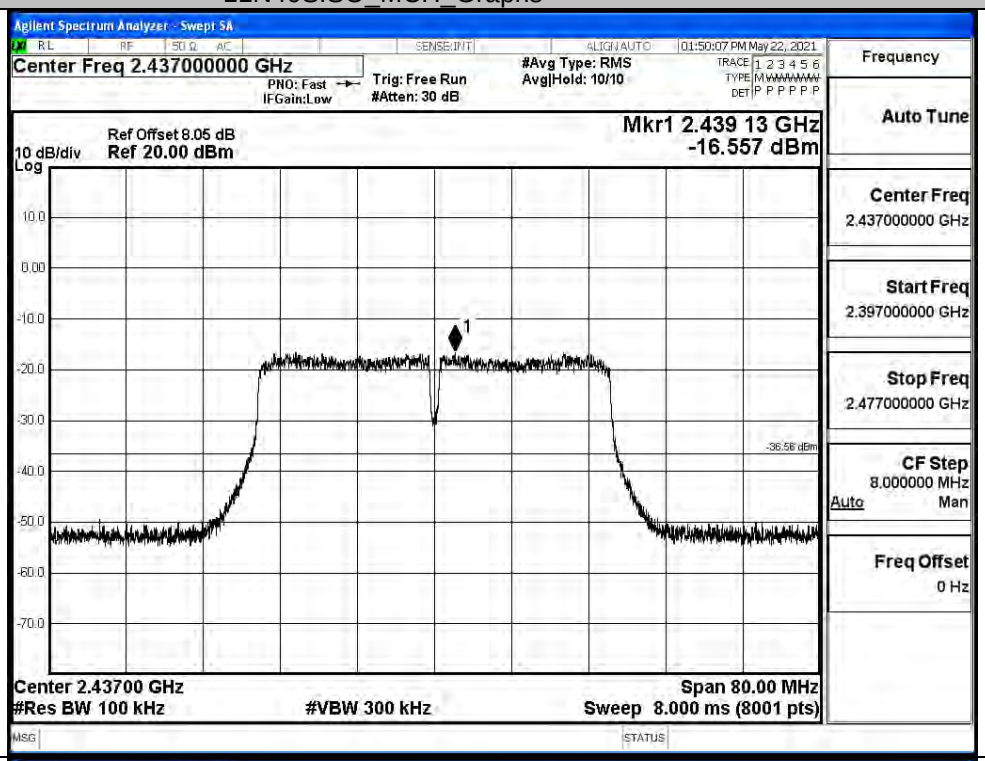
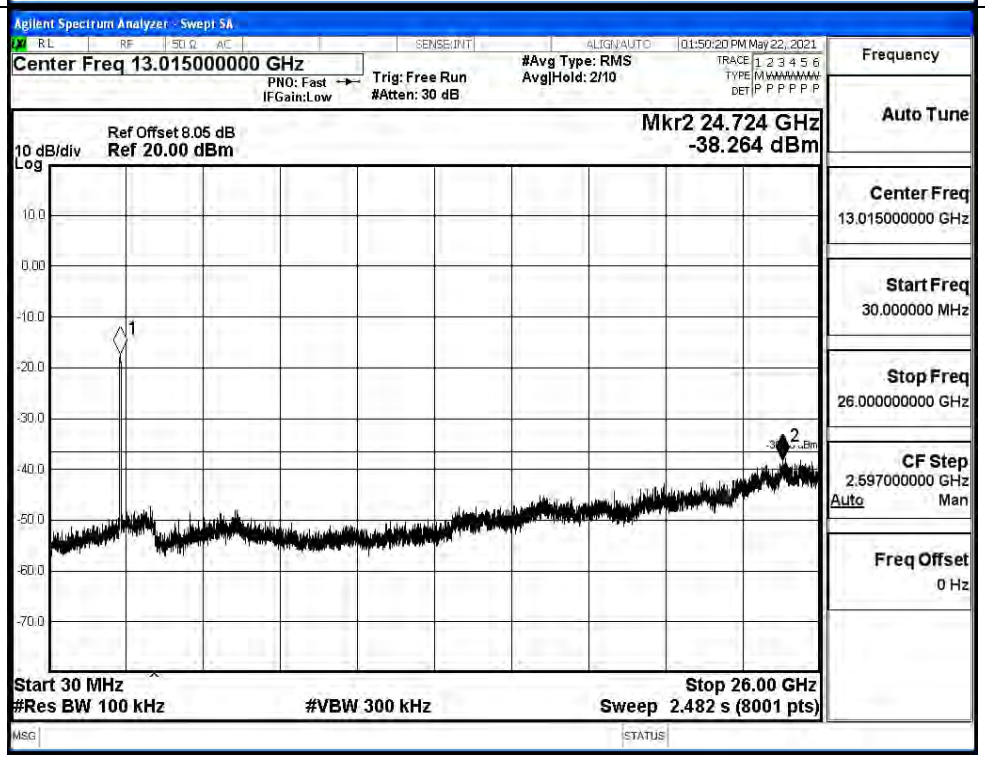
Pref/11N40 SISO/MCH	
Puw/11N40 SISO/MCH	

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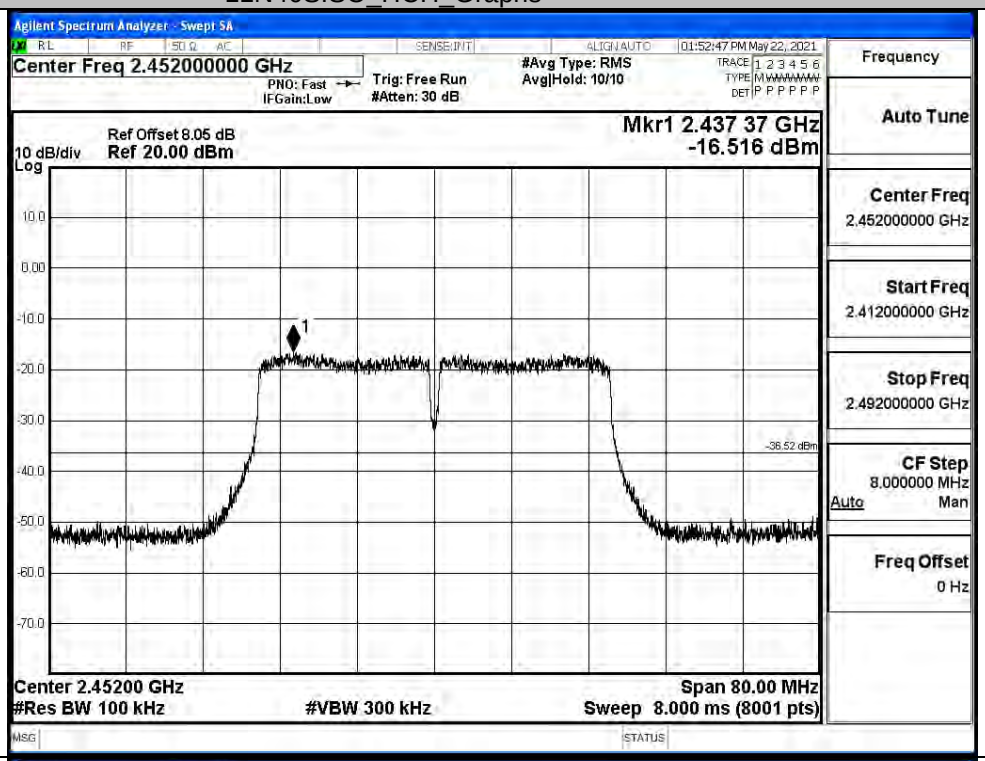
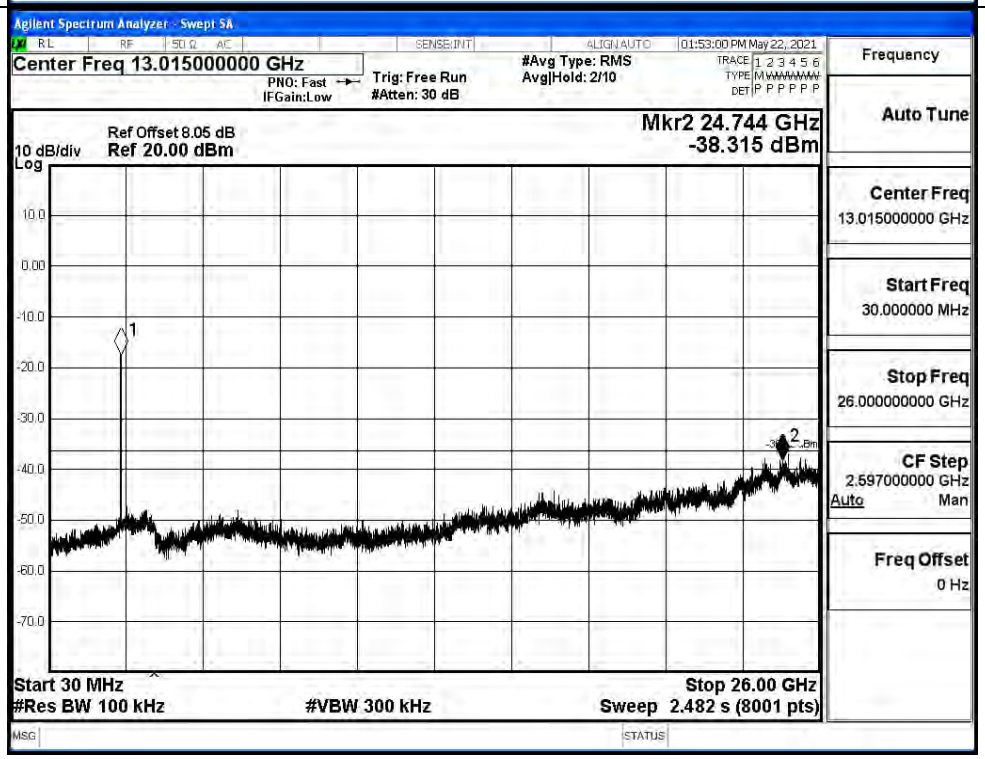
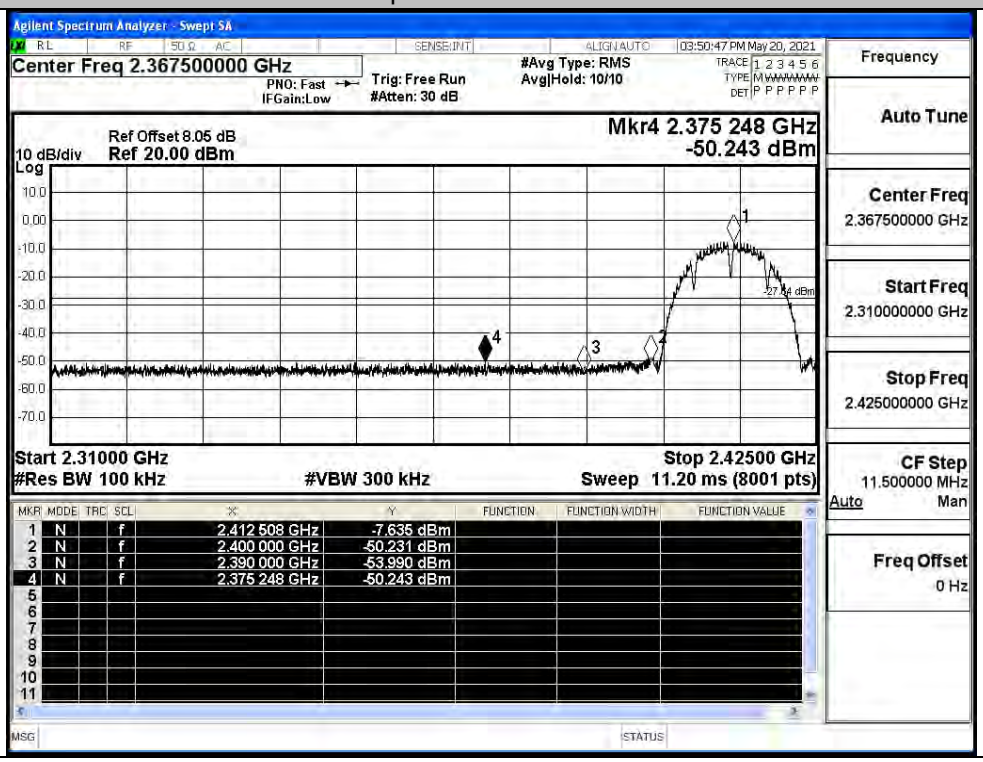
Pref/11N40 SISO/HCH	
Puw/11N40 SISO/HCH	

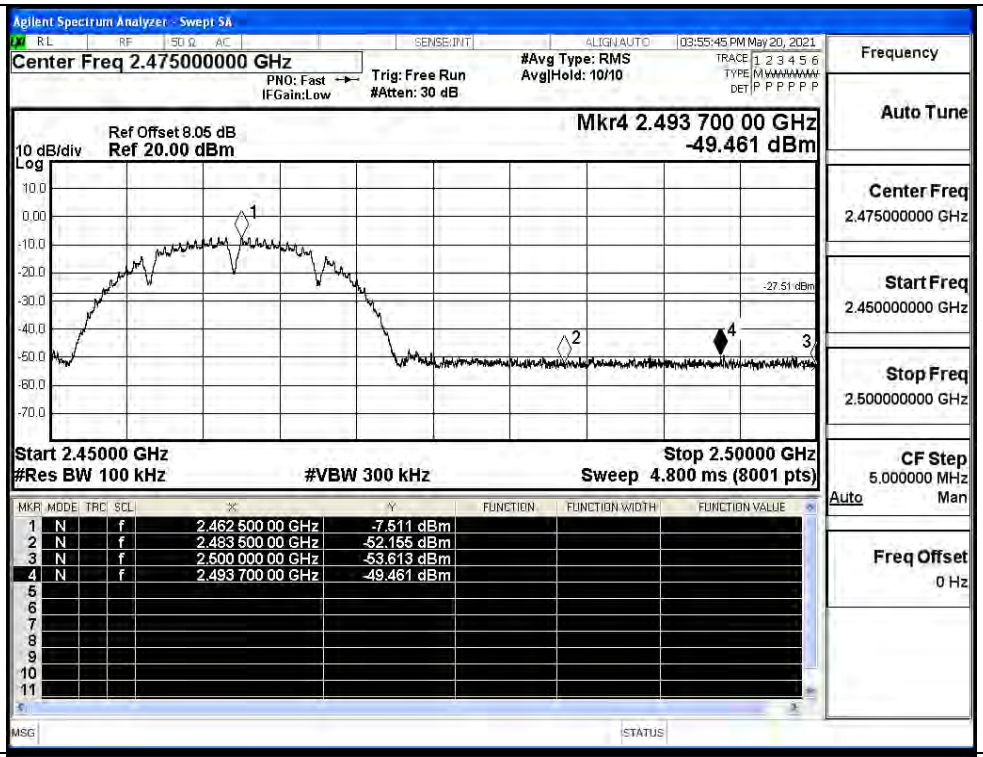
C.6 Band-edge for RF Conducted Emissions

ANT0

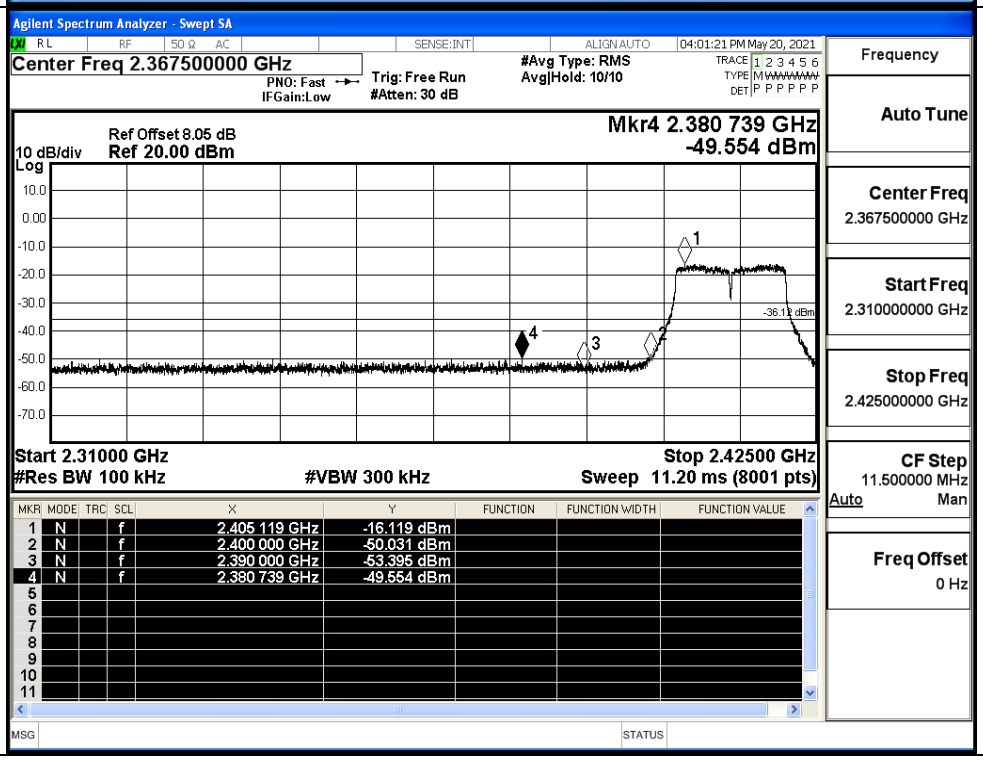
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-7.635	-50.243	-27.64	PASS
	HCH	-7.511	-49.461	-27.51	PASS
11G	LCH	-16.119	-49.554	-36.12	PASS
	HCH	-15.951	-49.149	-35.95	PASS
11N20SISO	LCH	-16.254	-49.879	-36.25	PASS
	HCH	-16.158	-48.783	-36.16	PASS
11N40SISO	LCH	-19.539	-49.128	-39.54	PASS
	HCH	-19.647	-49.143	-39.65	PASS

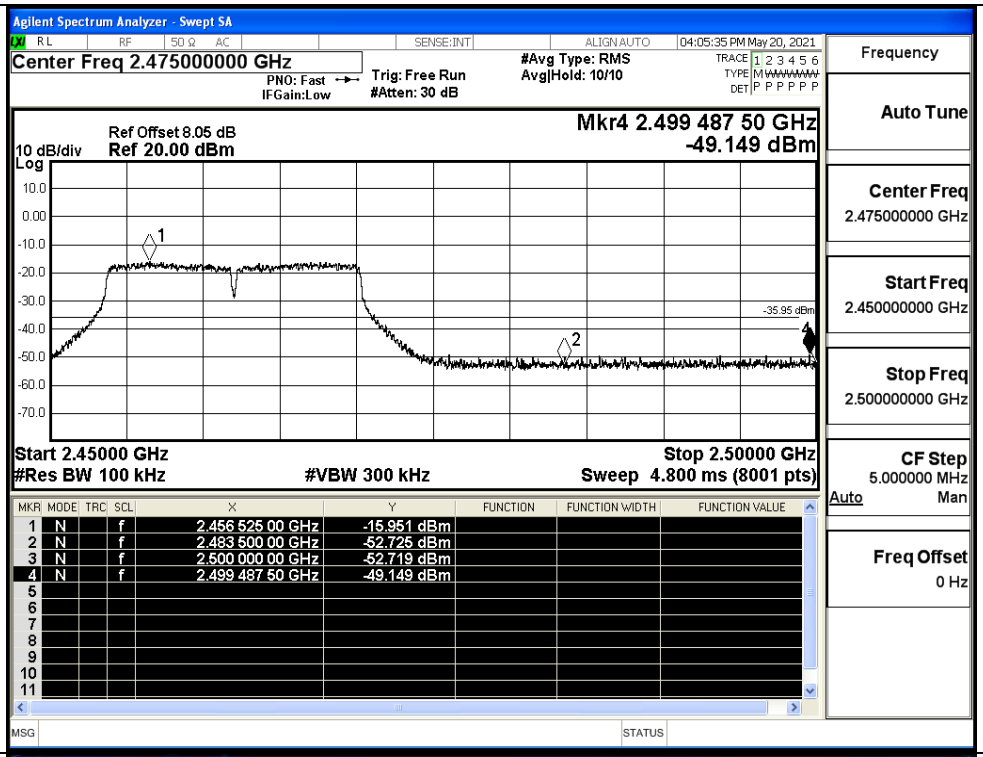
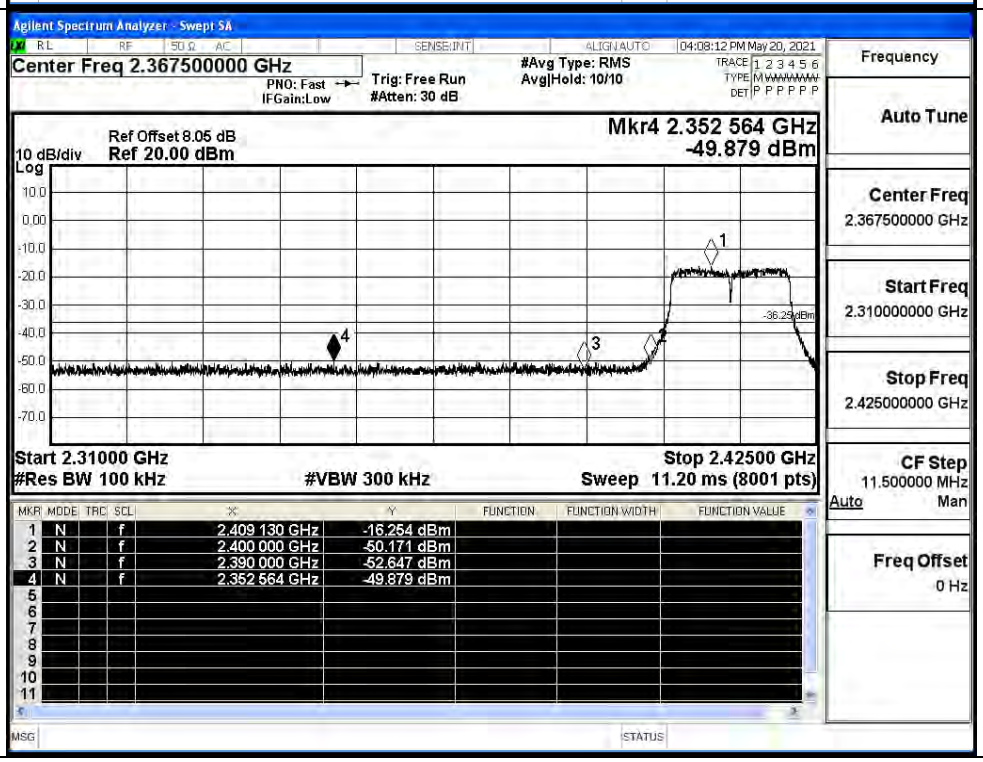
Test Graphs	
11B/LCH	

11B/HCH



11G/LCH



11G/HCH		
11N20SISO/LCH