Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Station

Trade Mark: N/A

Test Model: S1

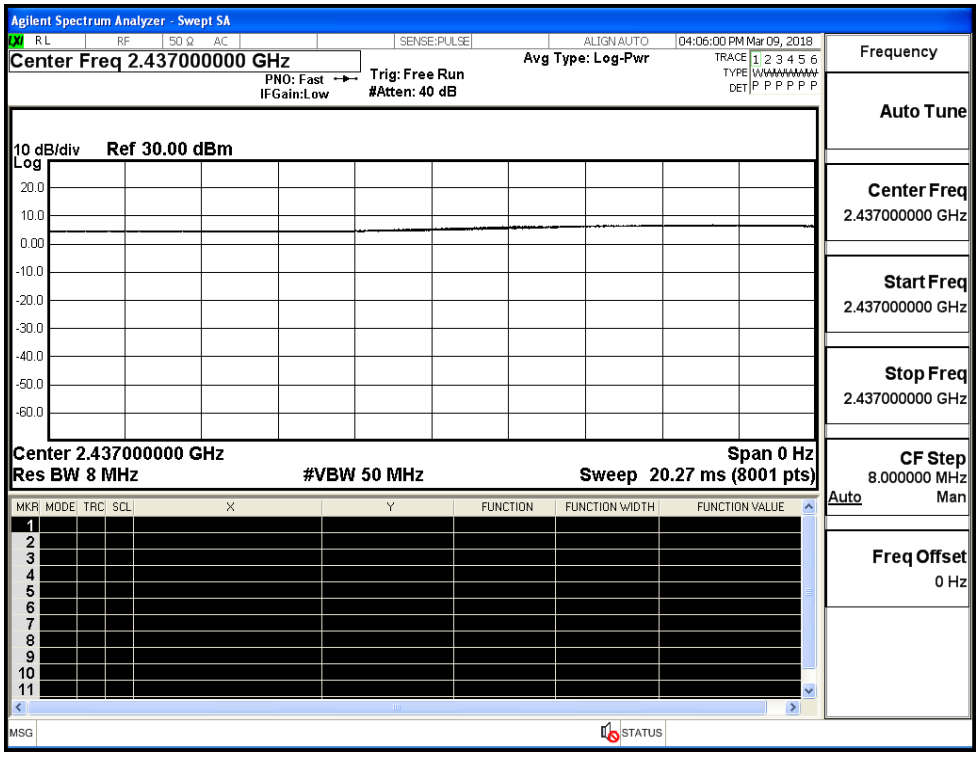
Environmental Conditions

Temperature:	22.1 ° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson Hong
Supervised by:	Jayden Zhuo

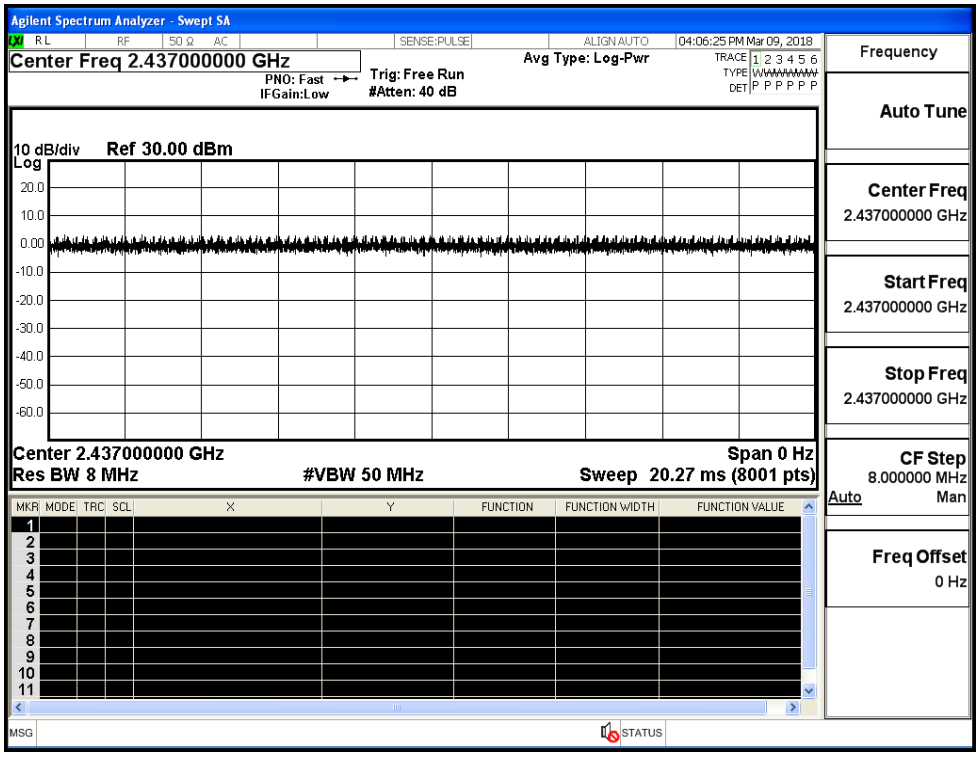
C.1 Duty Cycle

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

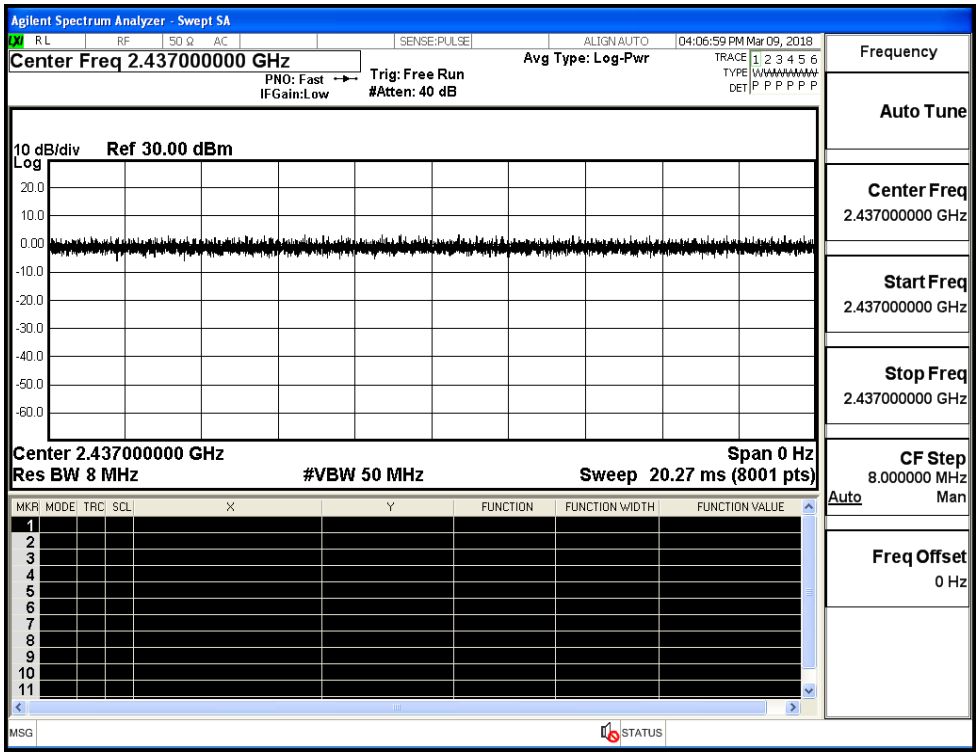
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1

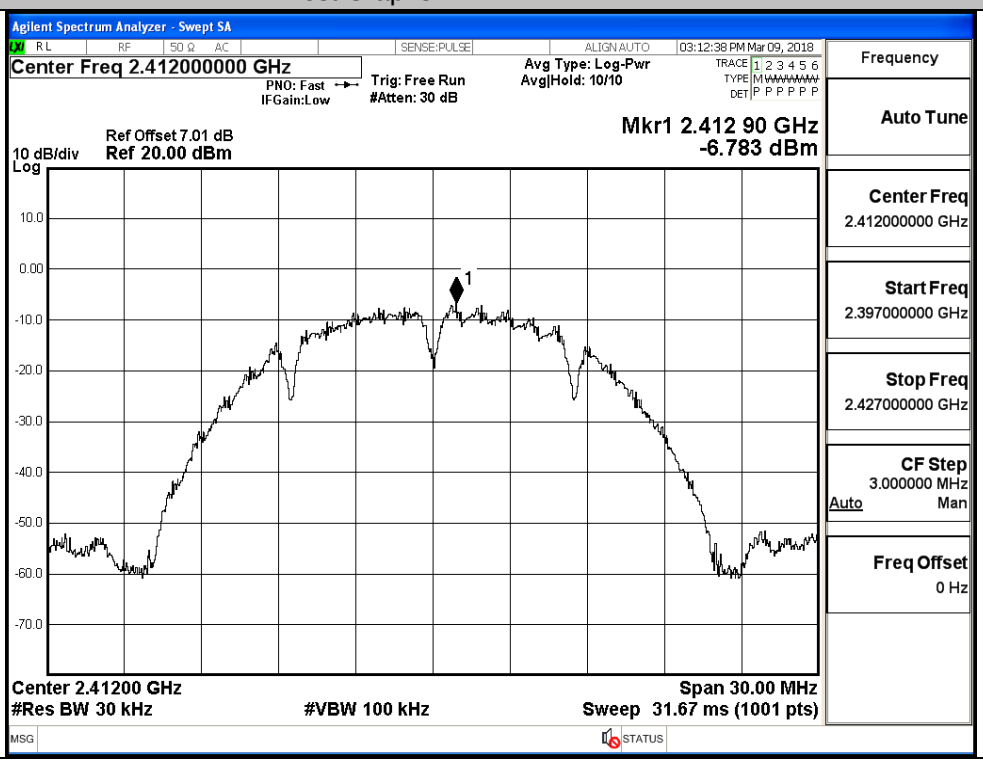


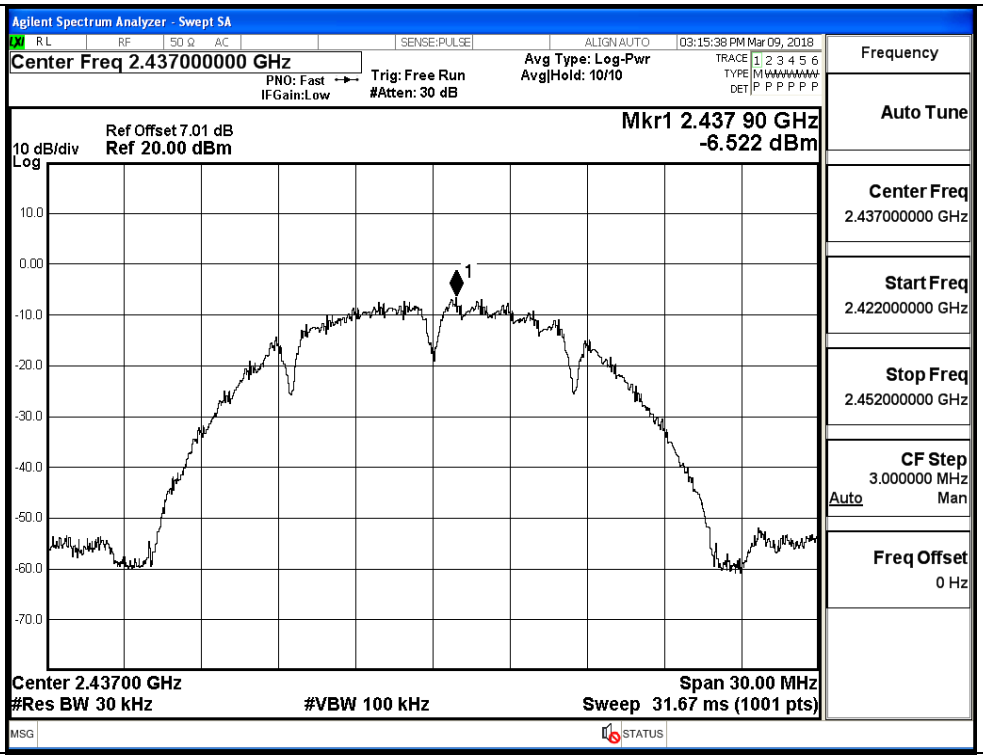
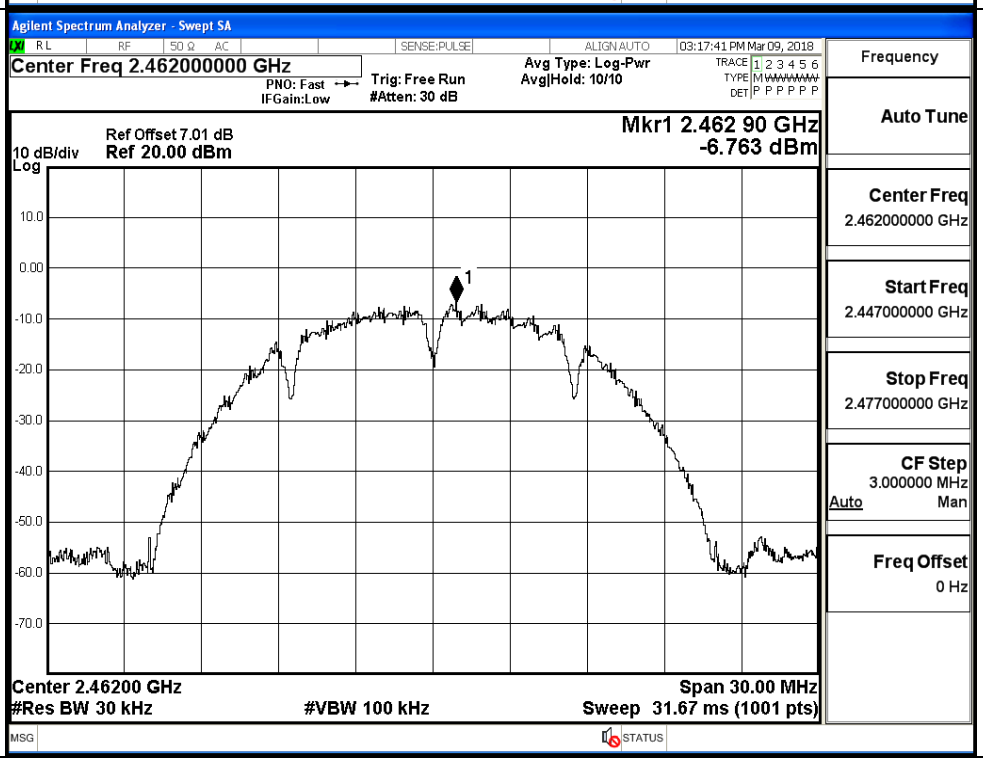
Duty Cycle_11N20SISO_2437_Ant1

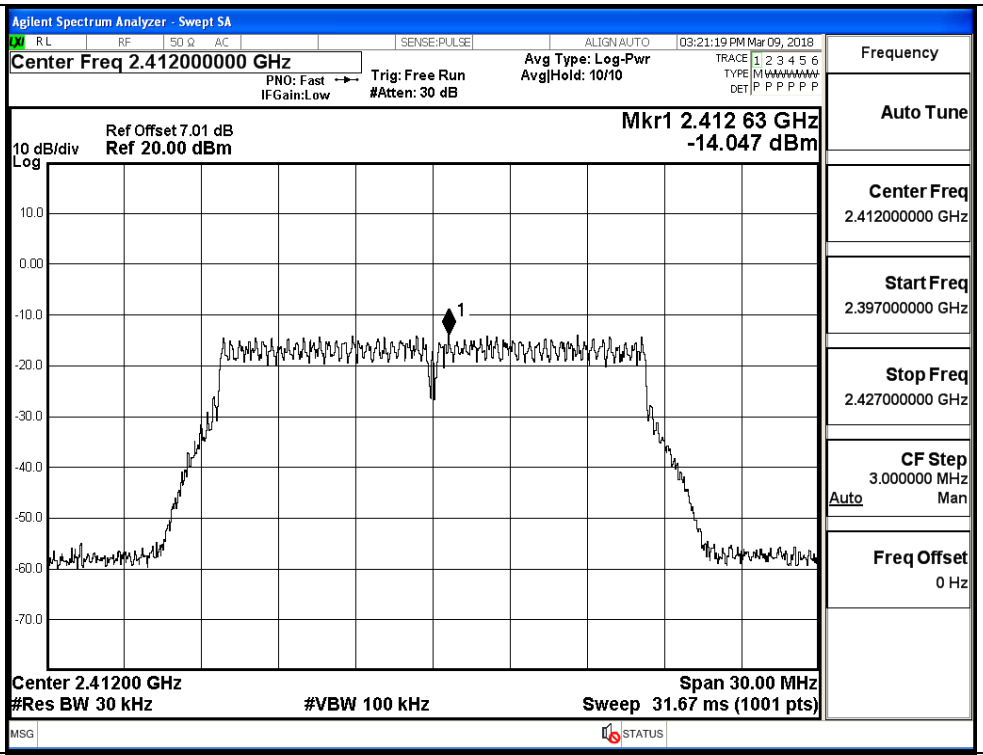
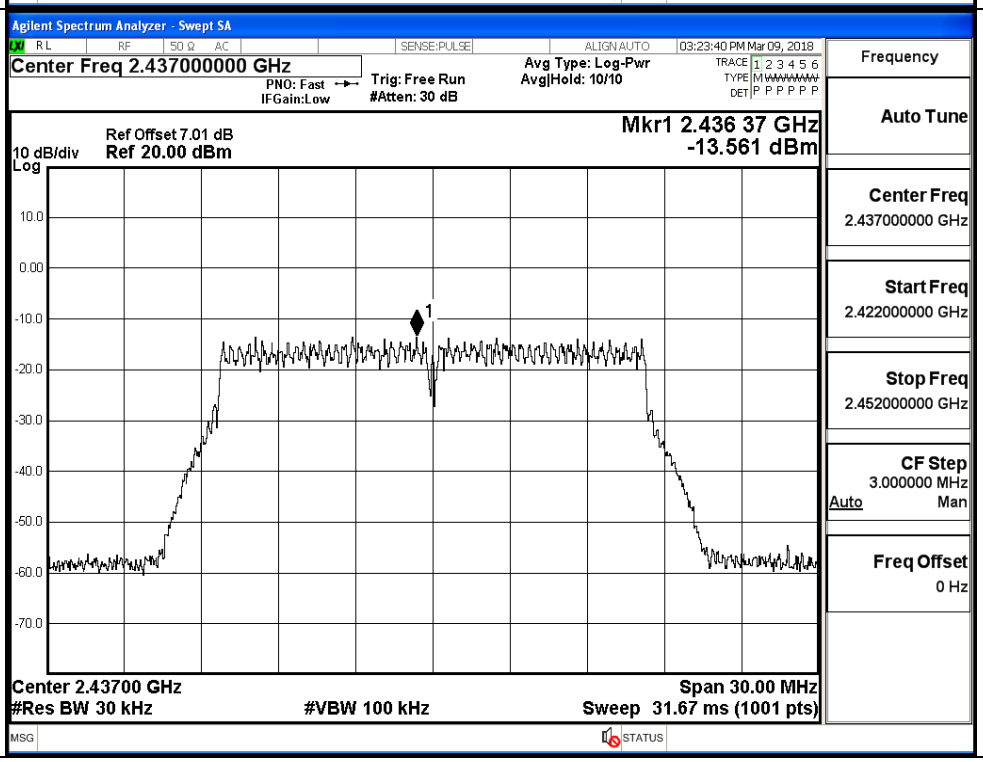


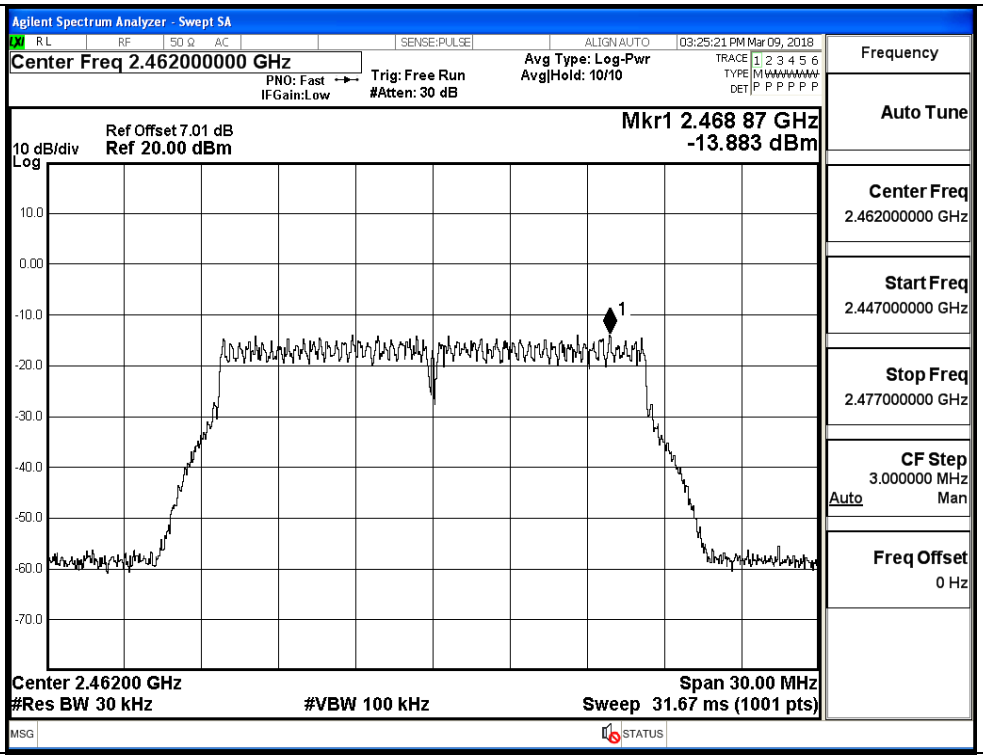
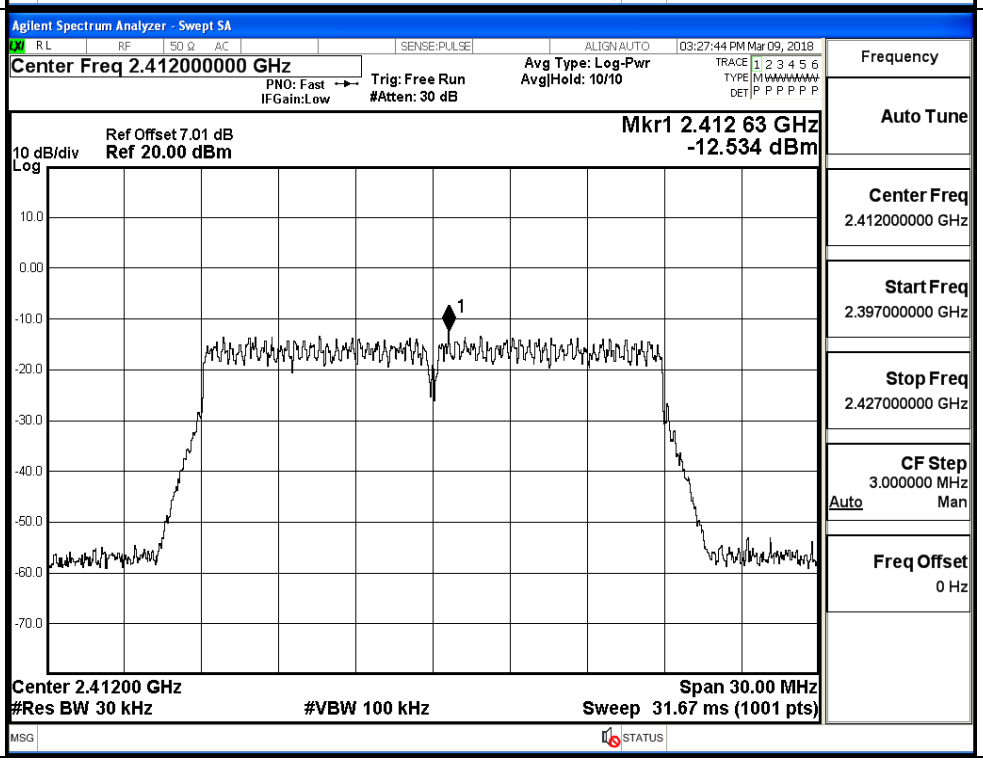
C.2 Maximum Power Spectral Density

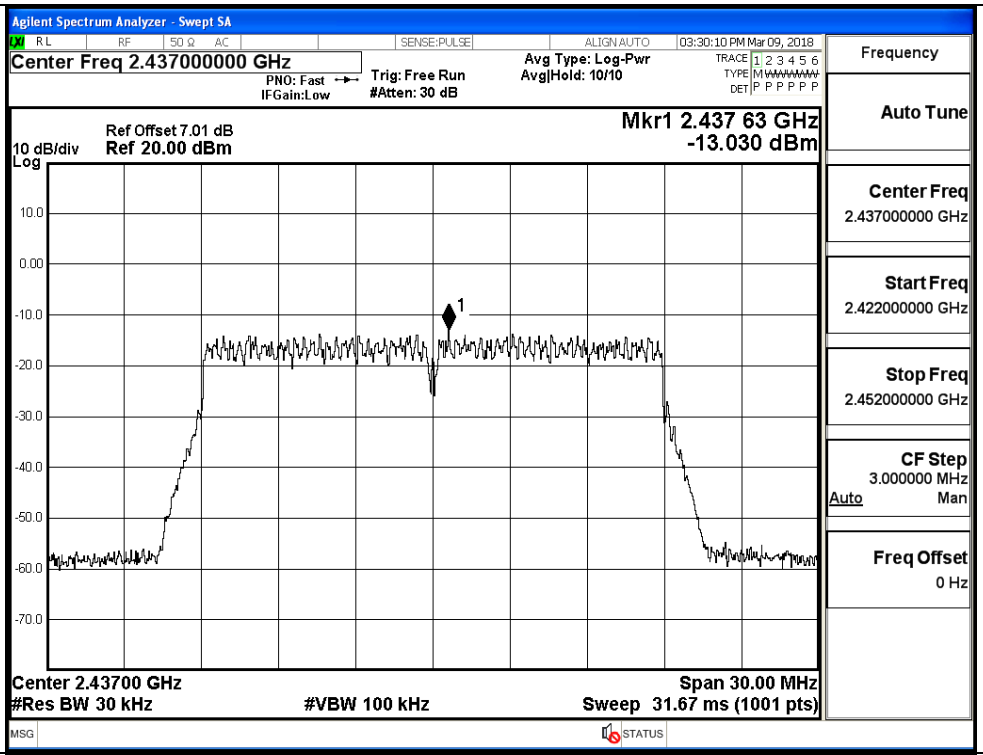
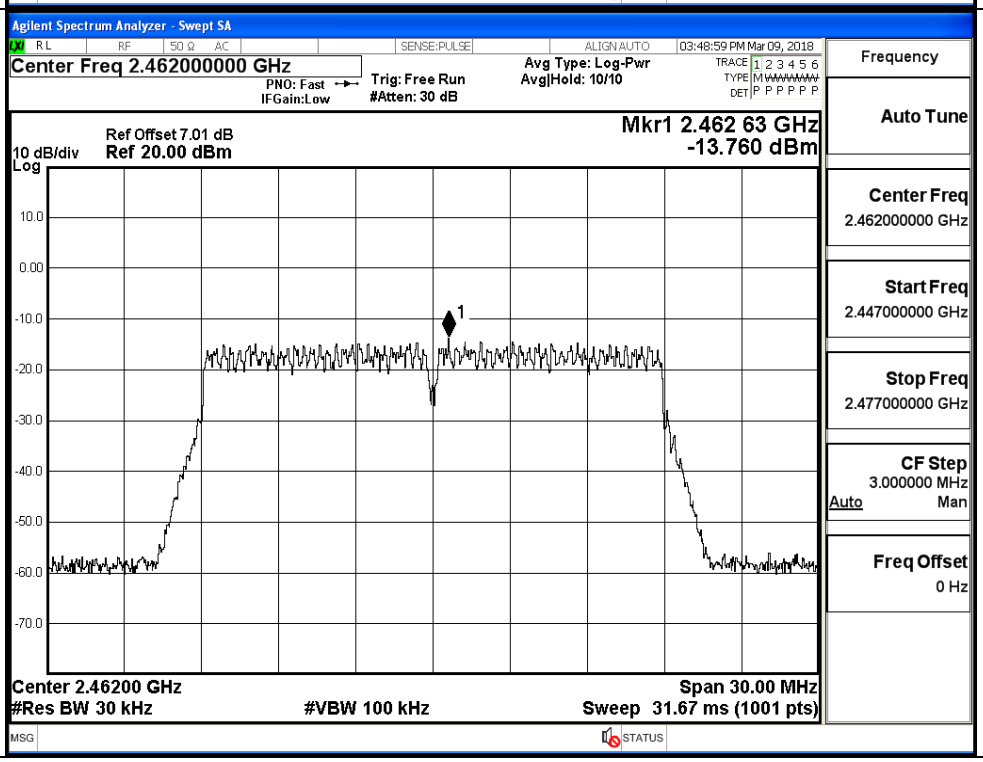
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.783	8	PASS
	MCH	-6.522	8	PASS
	HCH	-6.763	8	PASS
11G	LCH	-14.047	8	PASS
	MCH	-13.561	8	PASS
	HCH	-13.883	8	PASS
11N20SISO	LCH	-12.534	8	PASS
	MCH	-13.030	8	PASS
	HCH	-13.760	8	PASS

Test Graphs		
11B/LCH		

11B/MCH		
11B/HCH		

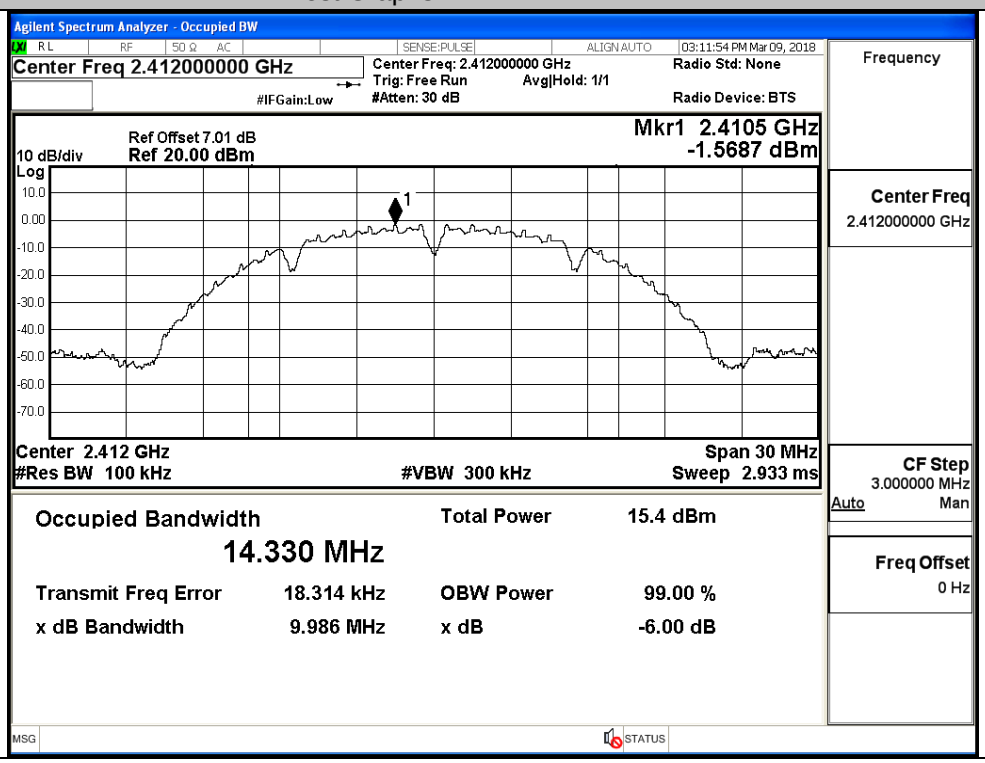
11G/LCH		
11G/MCH		

11G/HCH		
11N20SISO/LCH		

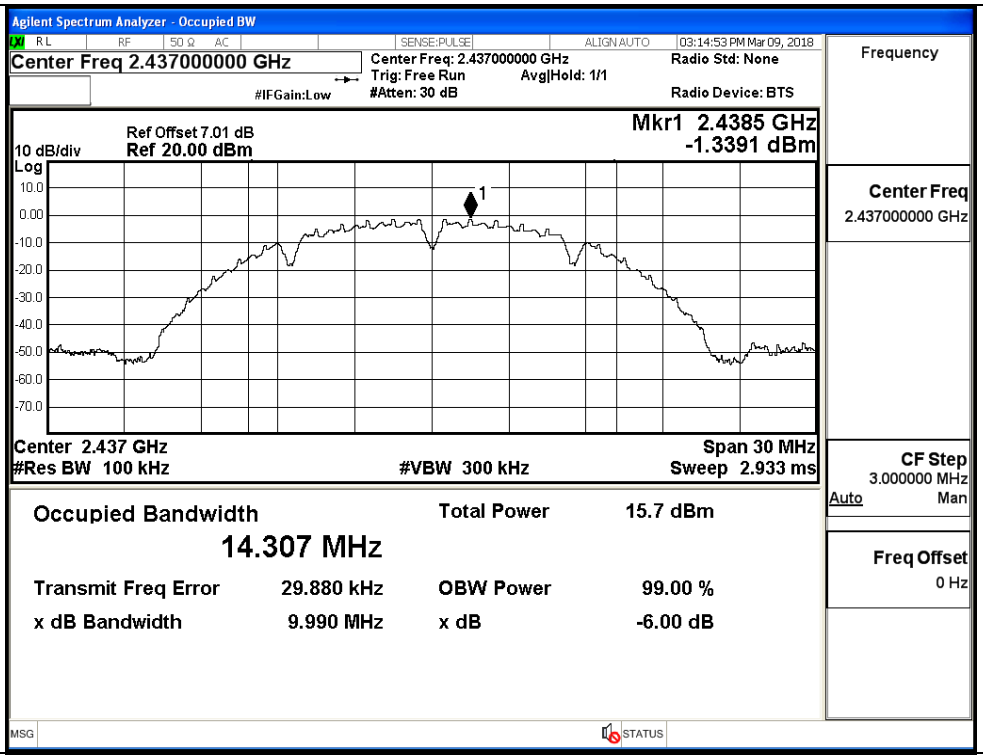
11N20SISO/MCH		
11N20SISO/HCH		

C.3 6dB Bandwidth

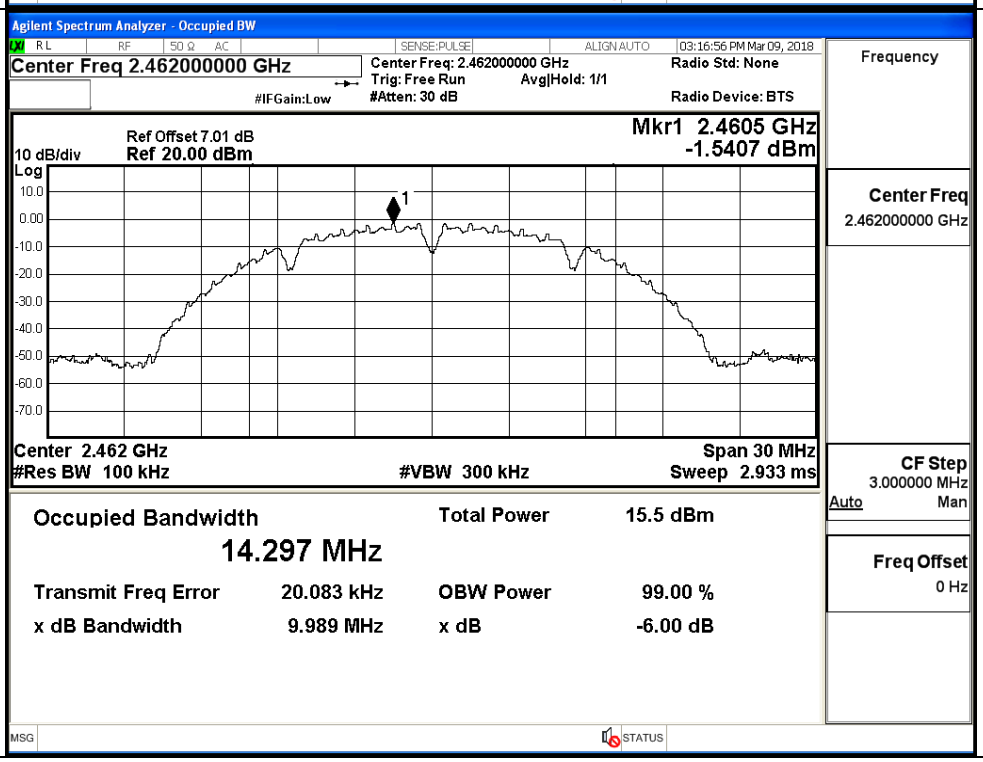
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.986	⩾0.5	PASS
	MCH	9.990	⩾0.5	PASS
	HCH	9.989	⩾0.5	PASS
11G	LCH	16.62	⩾0.5	PASS
	MCH	16.61	⩾0.5	PASS
	HCH	16.62	⩾0.5	PASS
11N20SISO	LCH	17.84	⩾0.5	PASS
	MCH	17.81	⩾0.5	PASS
	HCH	17.82	⩾0.5	PASS

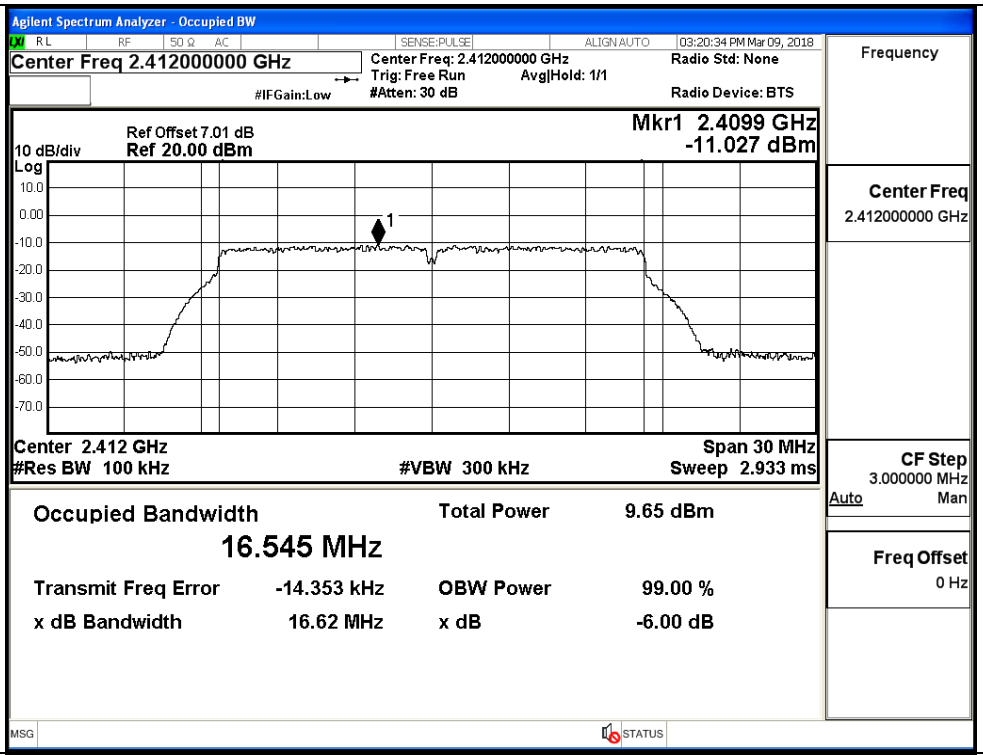
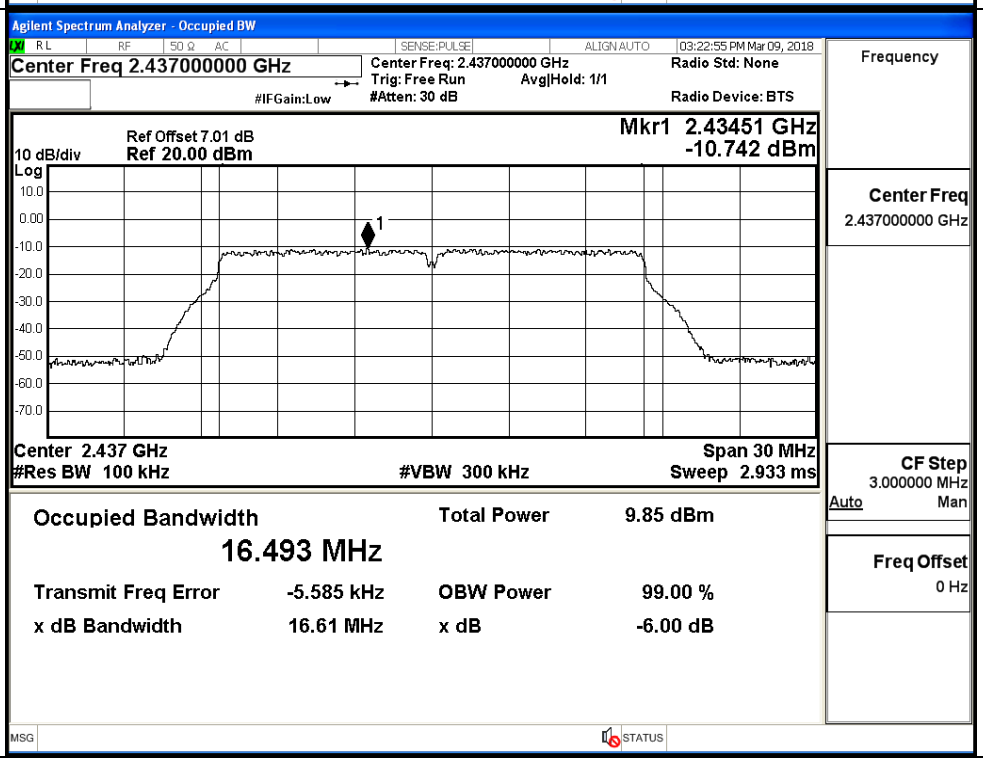
Test Graphs	
11B/LCH	

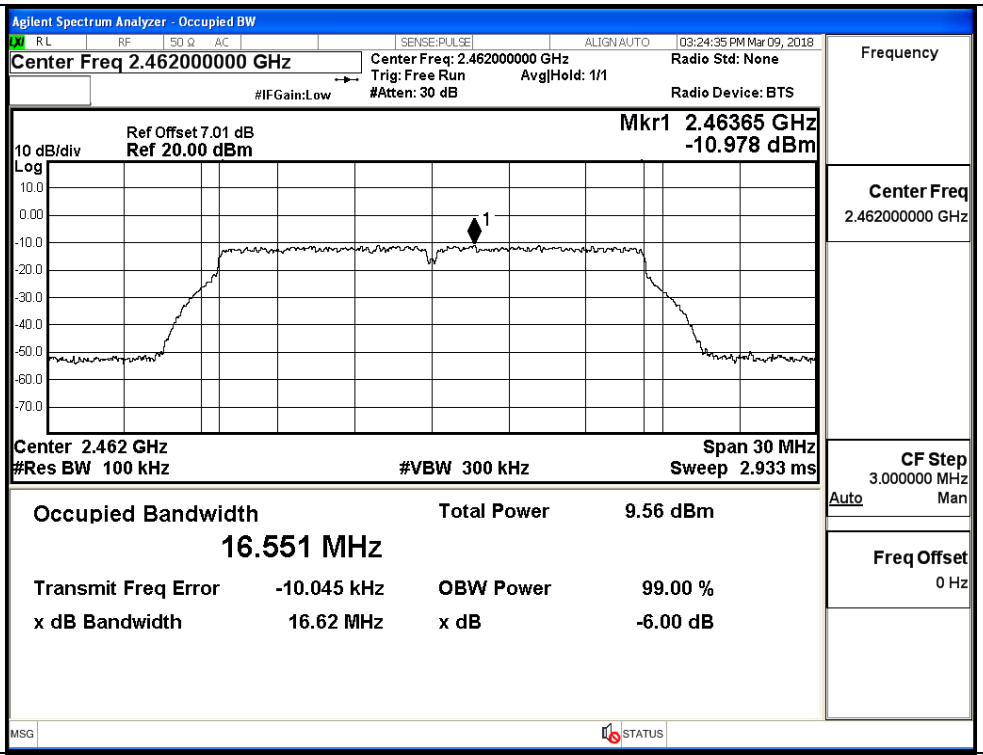
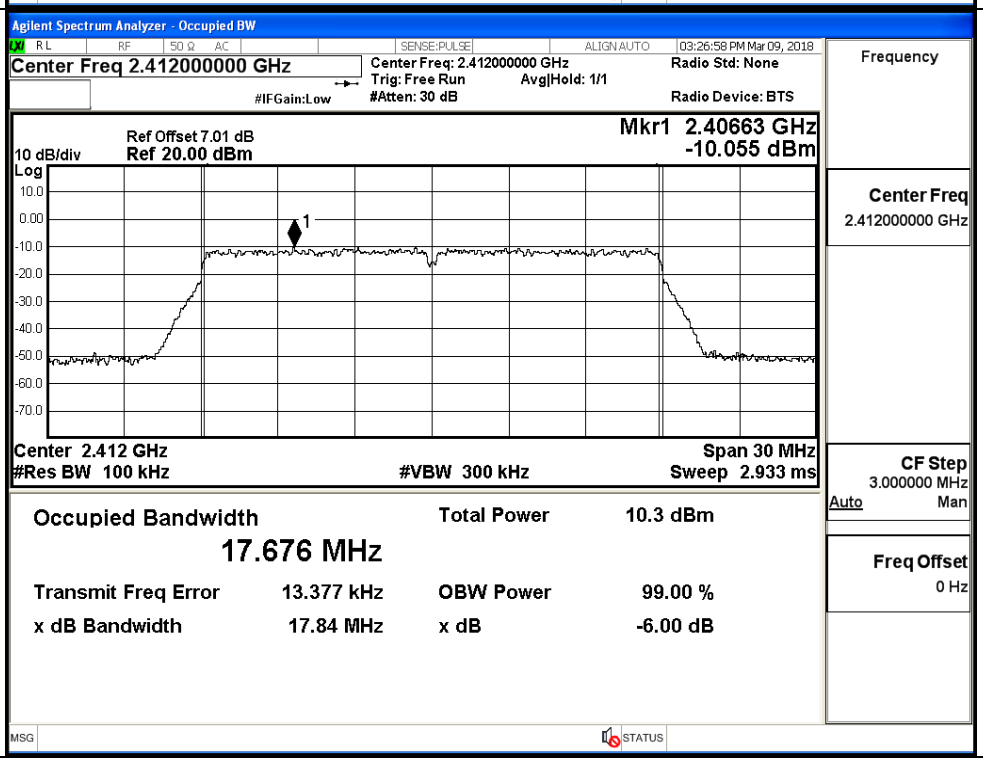
11B/MCH

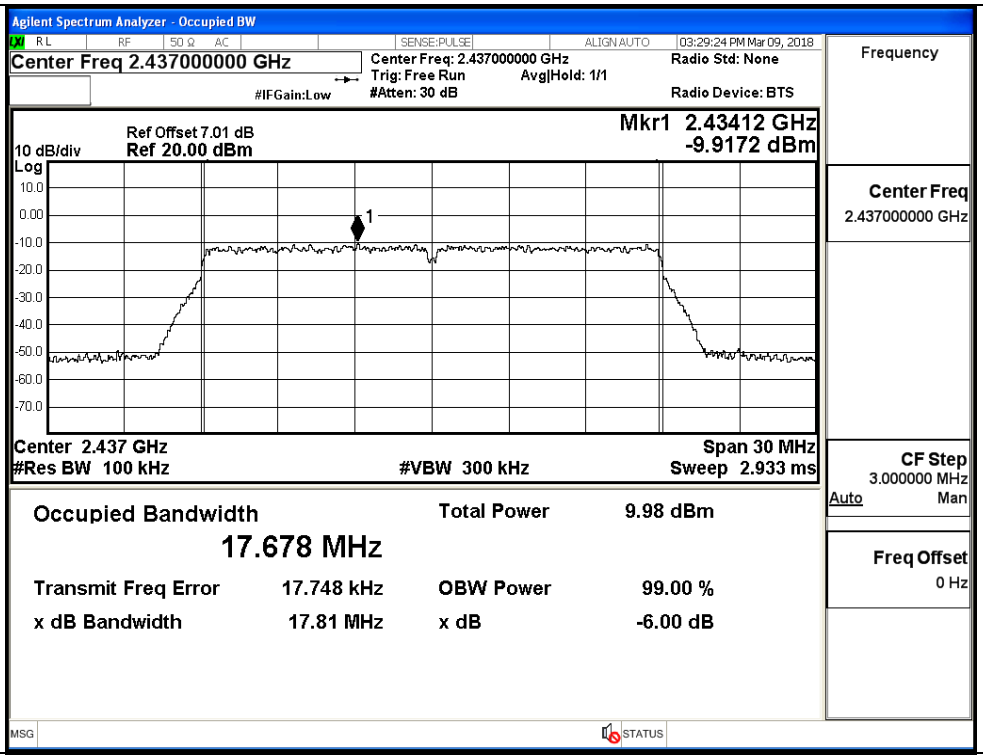
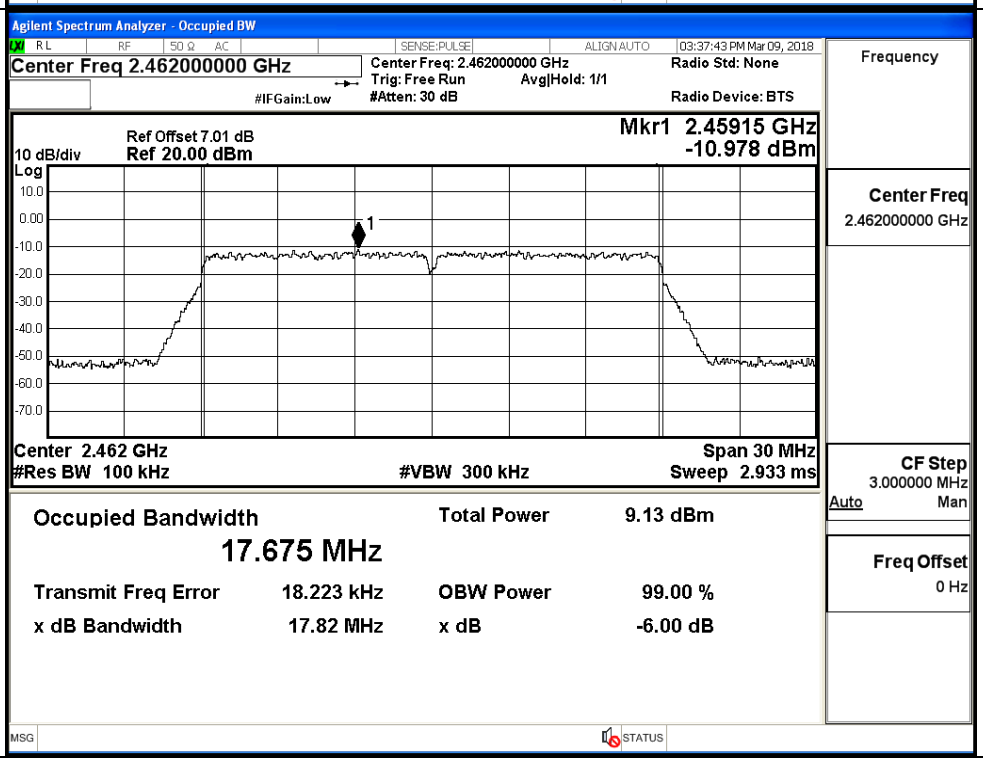


11B/HCH



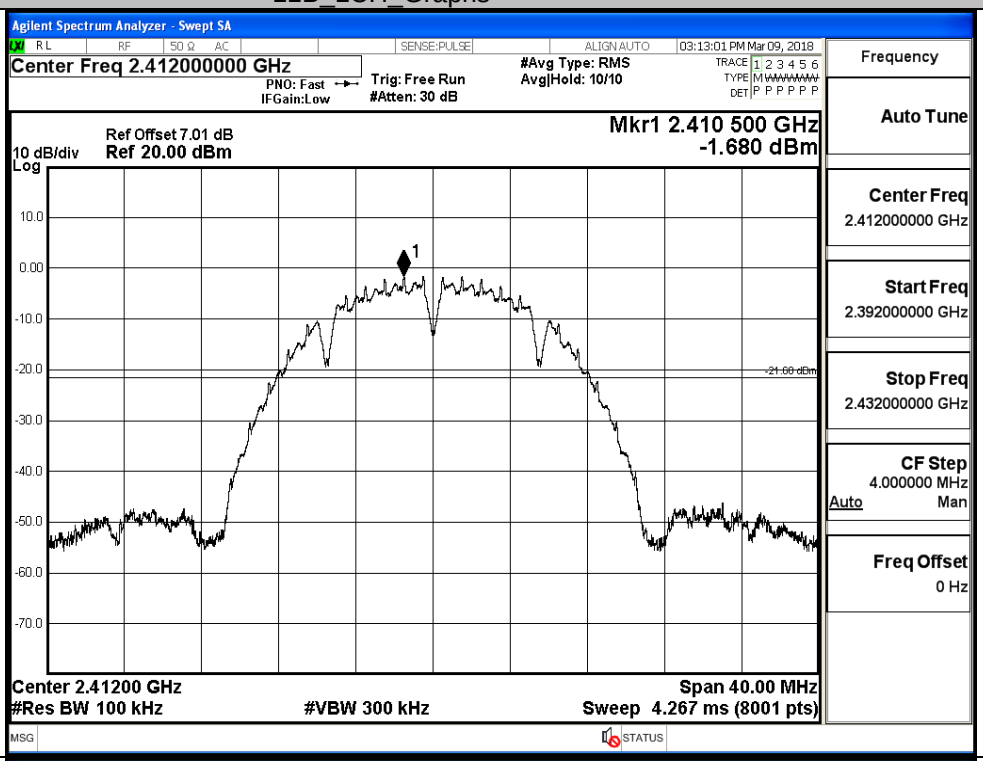
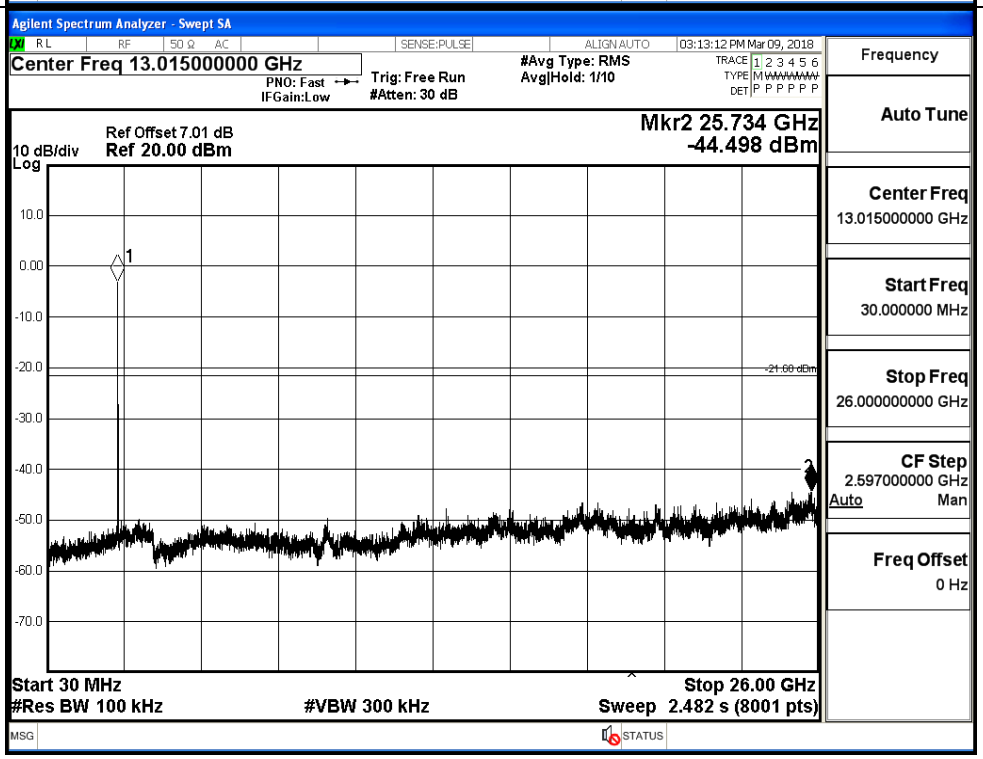
11G/LCH	
11G/MCH	

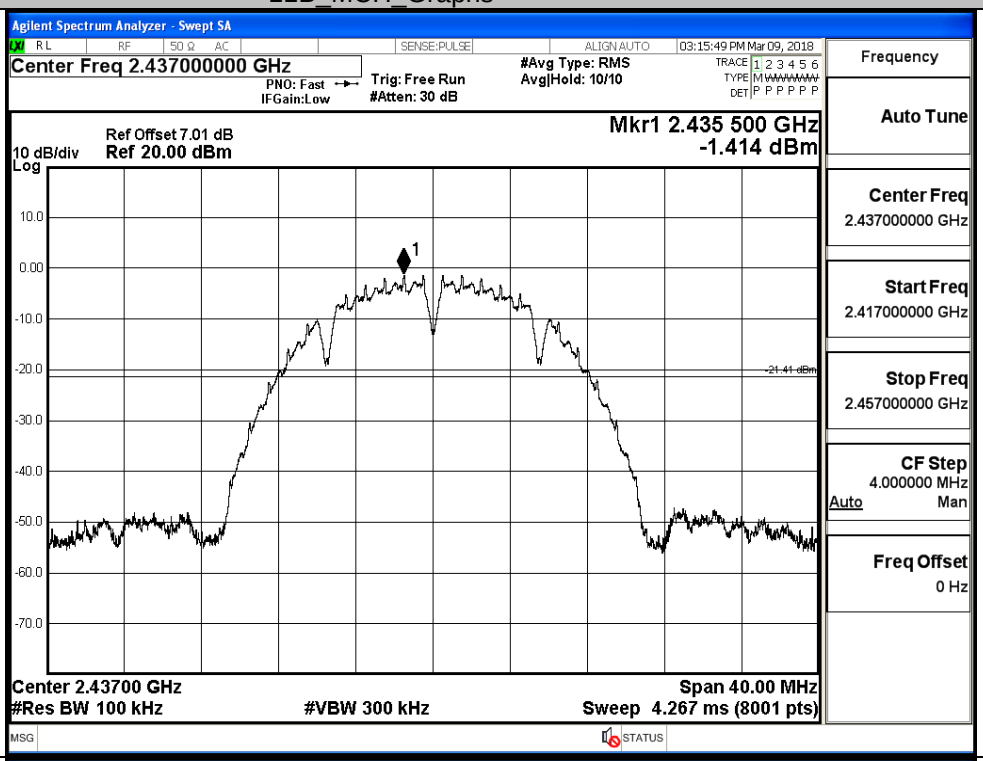
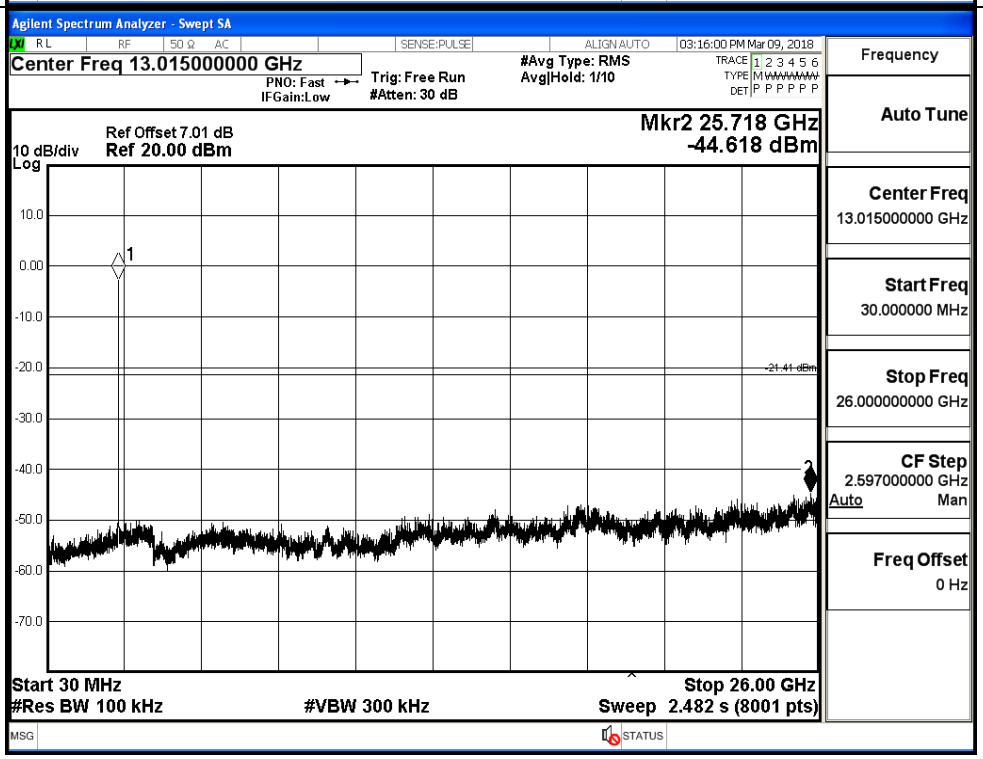
11G/HCH	
11N20SISO/LCH	

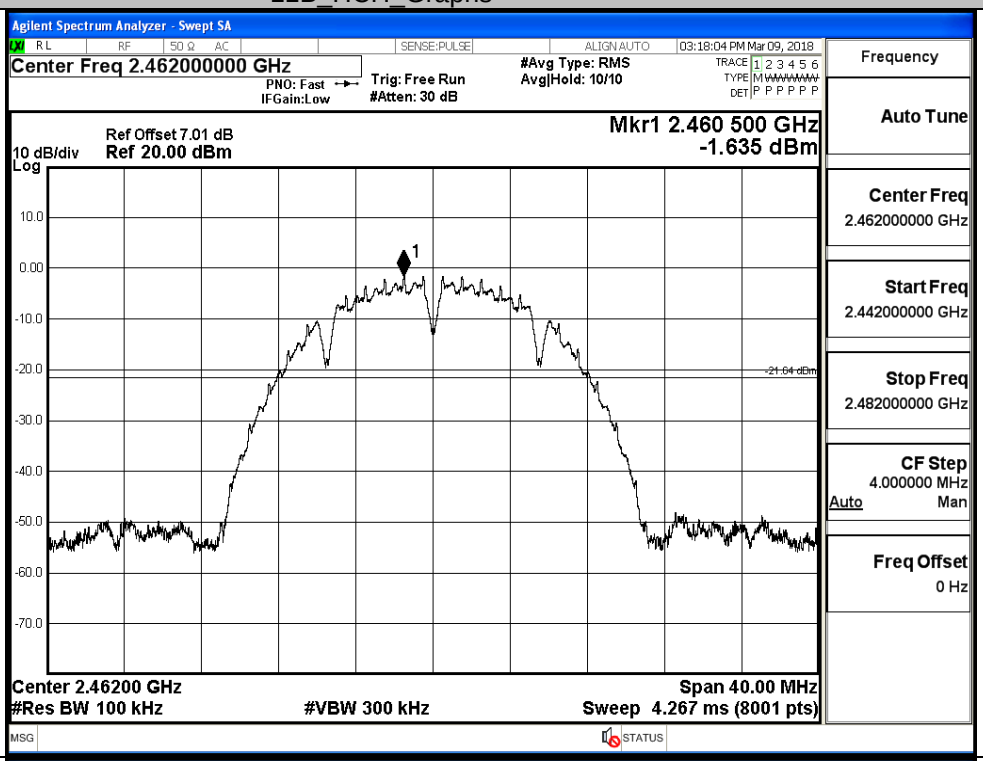
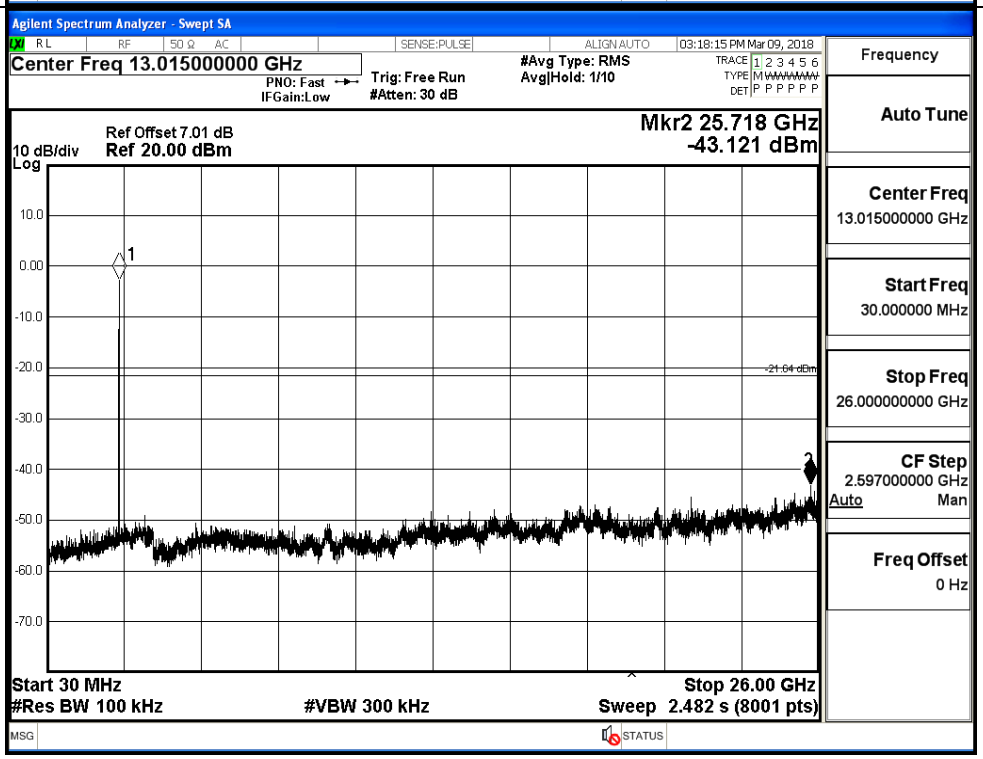
11N20SISO/MCH		
11N20SISO/HCH		

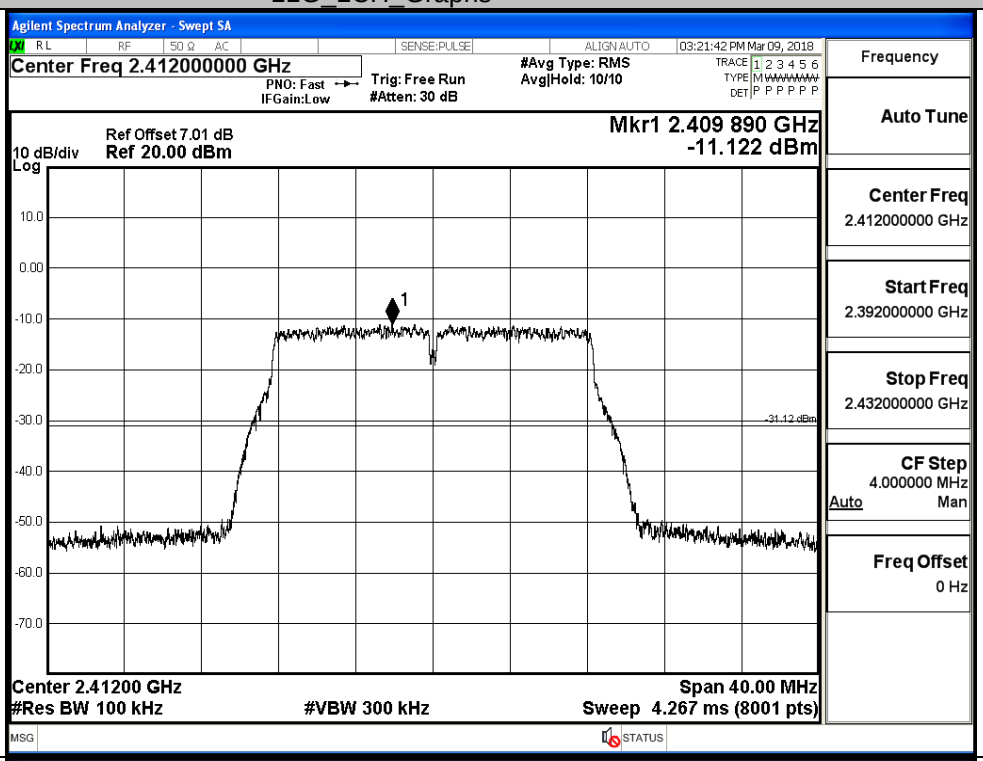
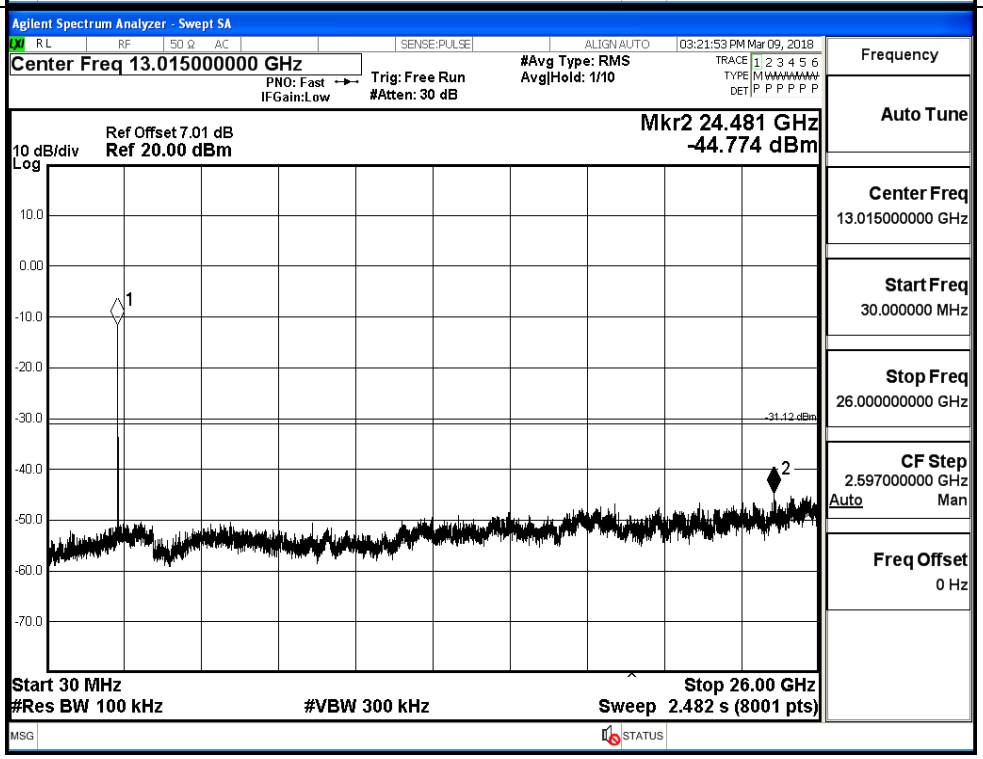
C.4 RF Conducted Spurious Emissions

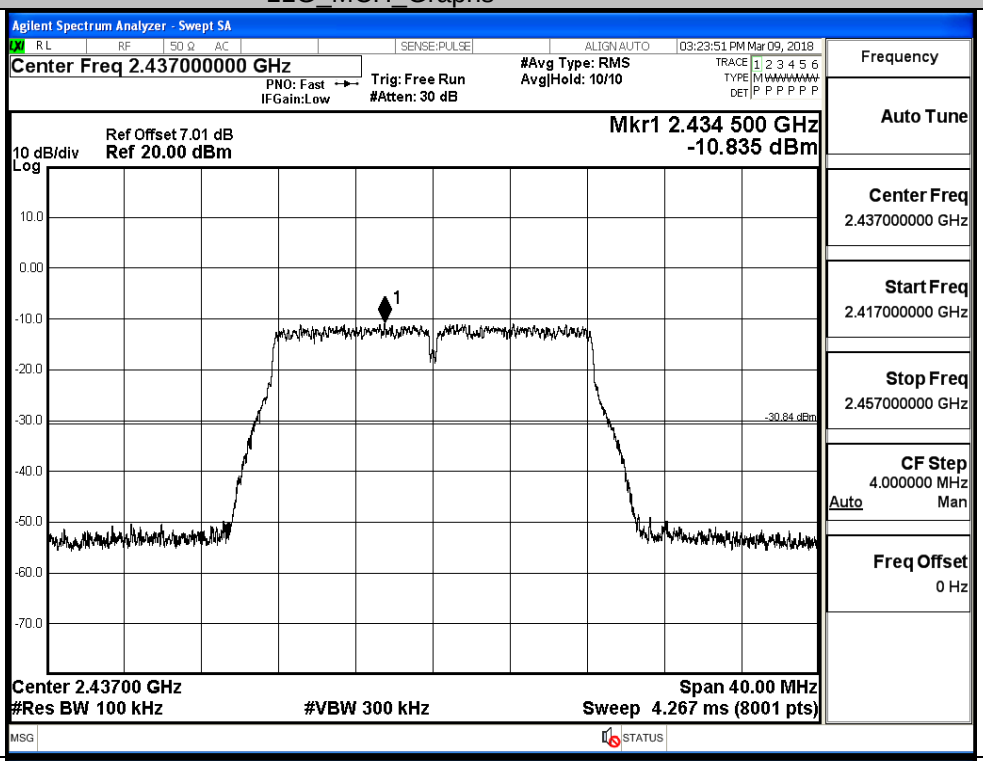
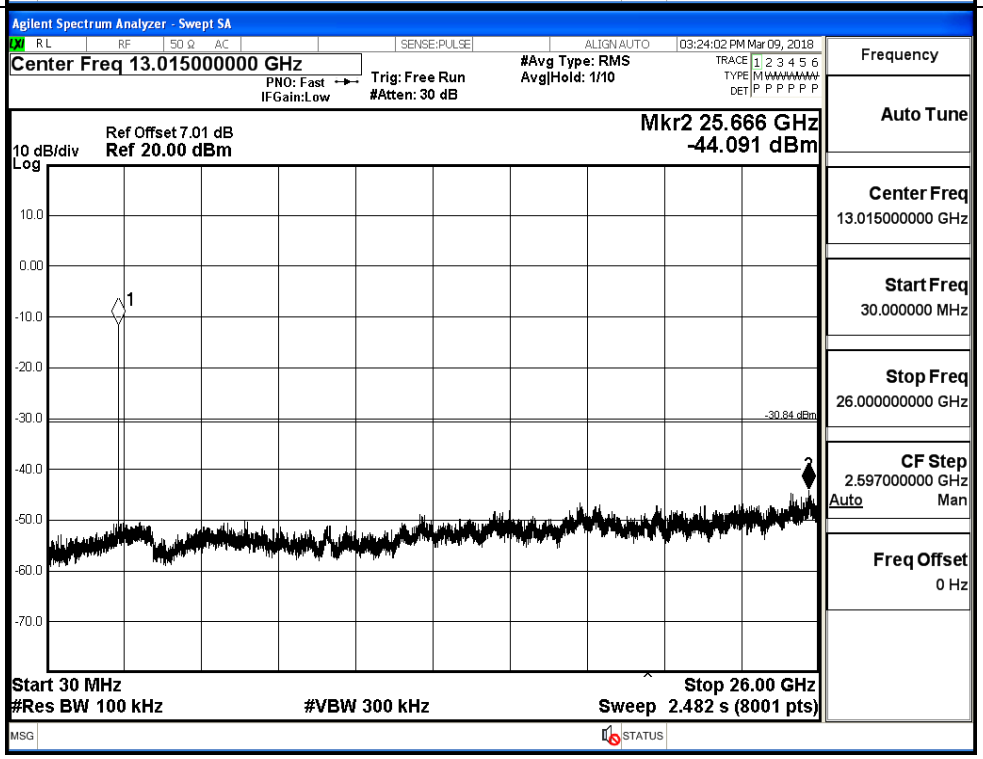
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.68	-44.498	-21.680	PASS
	MCH	-1.414	-44.618	-21.414	PASS
	HCH	-1.635	-43.121	-21.635	PASS
11G	LCH	-11.122	-44.774	-31.122	PASS
	MCH	-10.835	-44.091	-30.835	PASS
	HCH	-11.19	-43.630	-31.190	PASS
11N20 SISO	LCH	-10.256	-44.109	-30.256	PASS
	MCH	-10.493	-44.807	-30.493	PASS
	HCH	-11.575	-43.619	-31.575	PASS

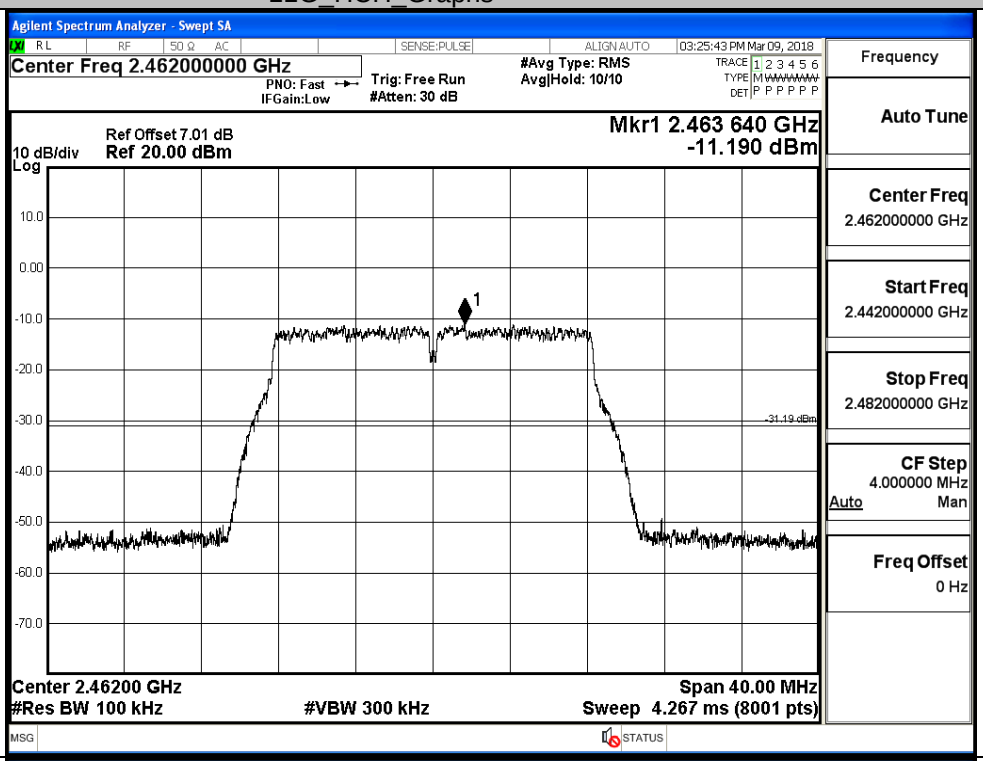
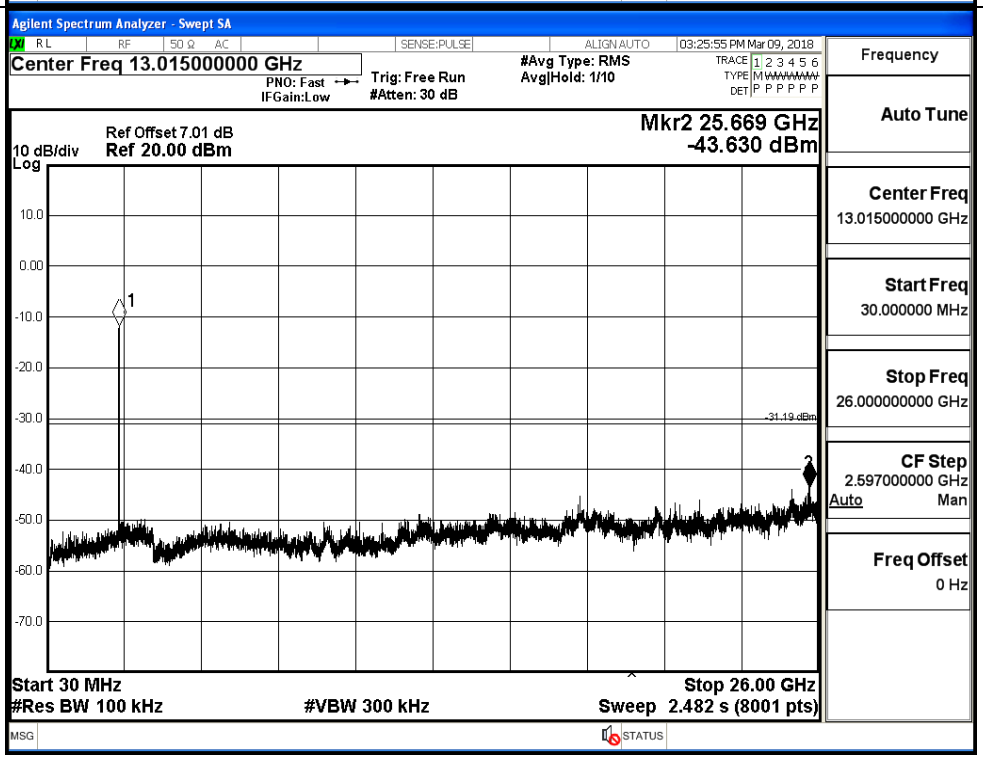
11B_LCH_Graphs		
Pref/11B/LCH		
Puw/11B/LCH		

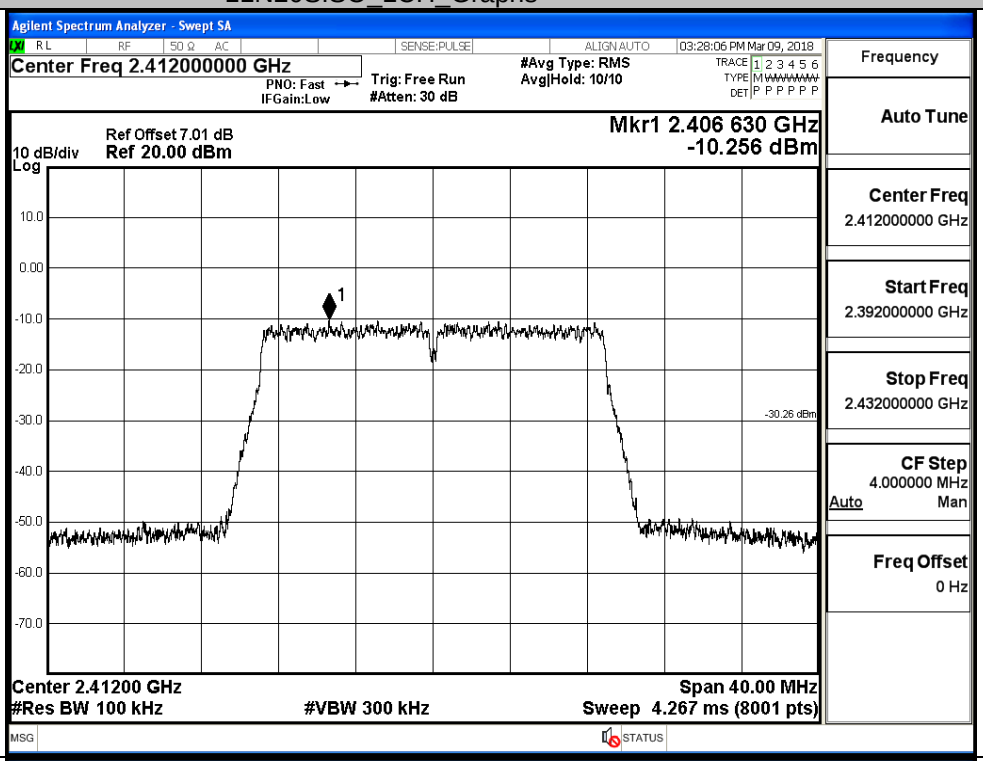
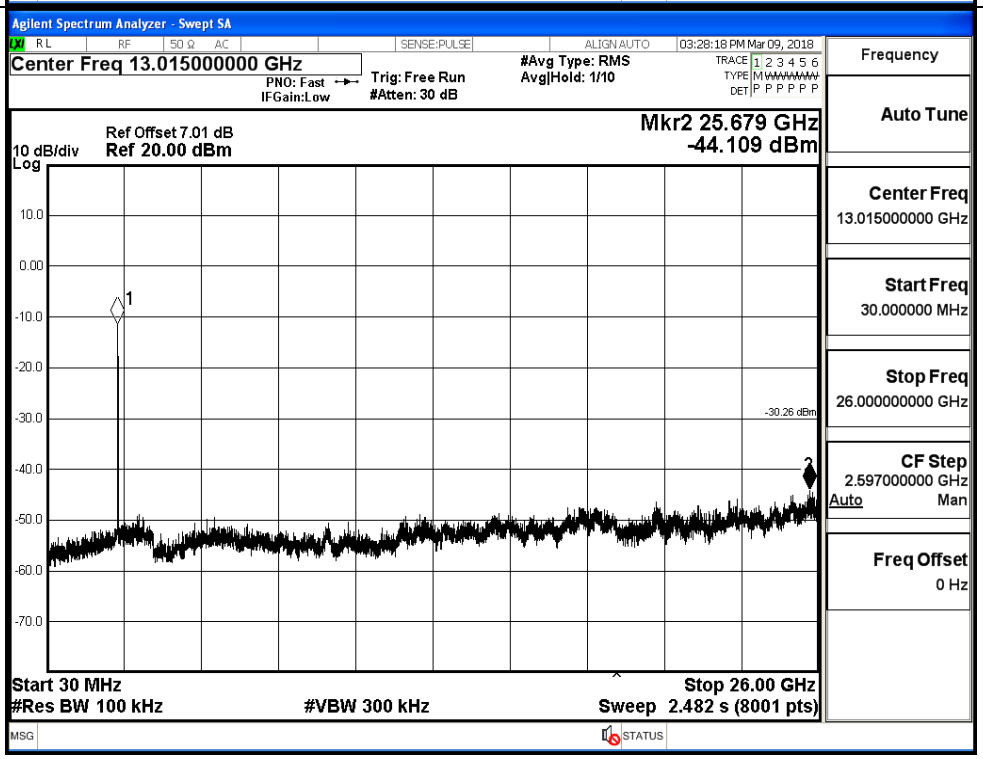
11B_MCH_Graphs		
Pref/11B/MCH		
Puw/11B/MCH		

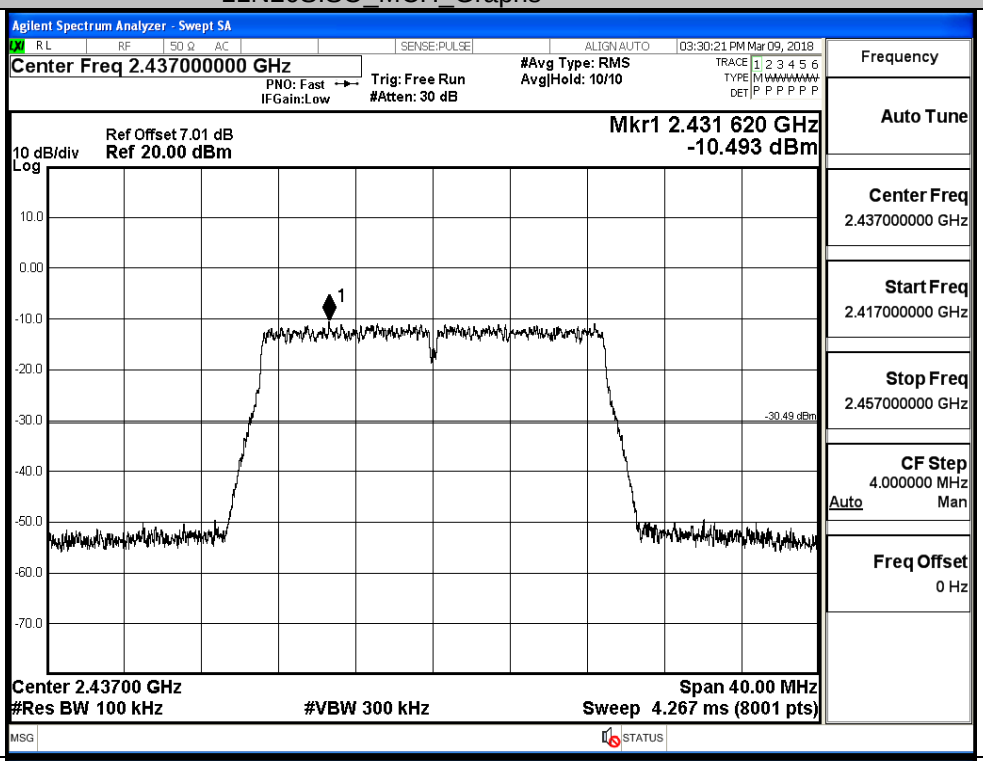
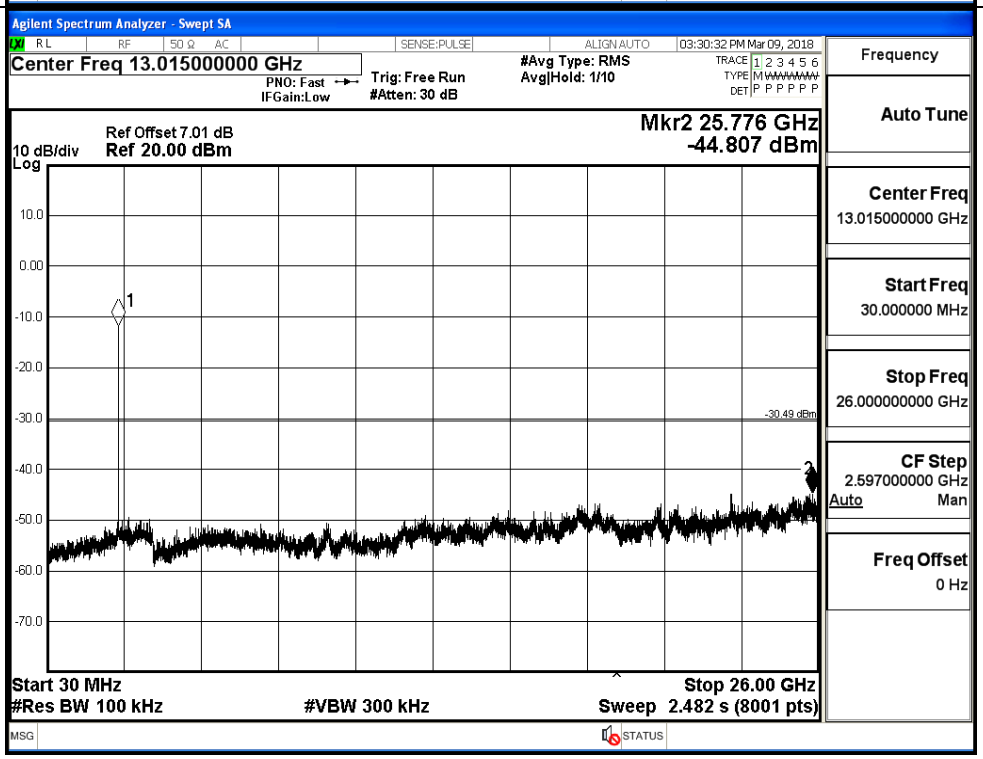
11B_HCH_Graphs		
Pref/11B/HCH		
Puw/11B/HCH		

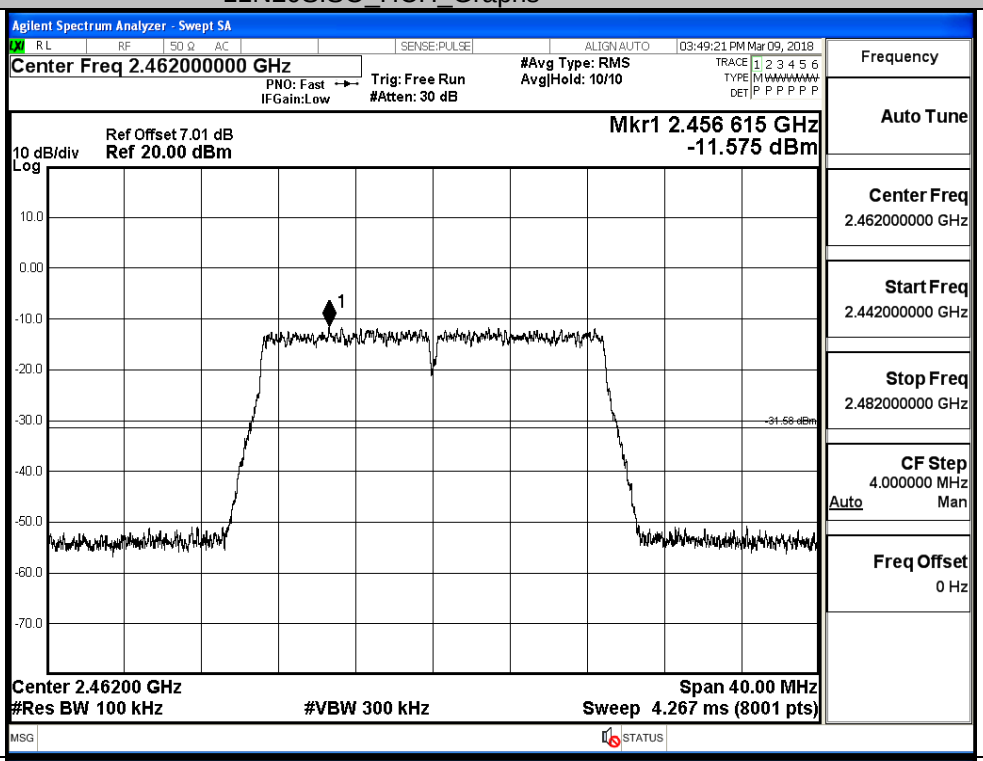
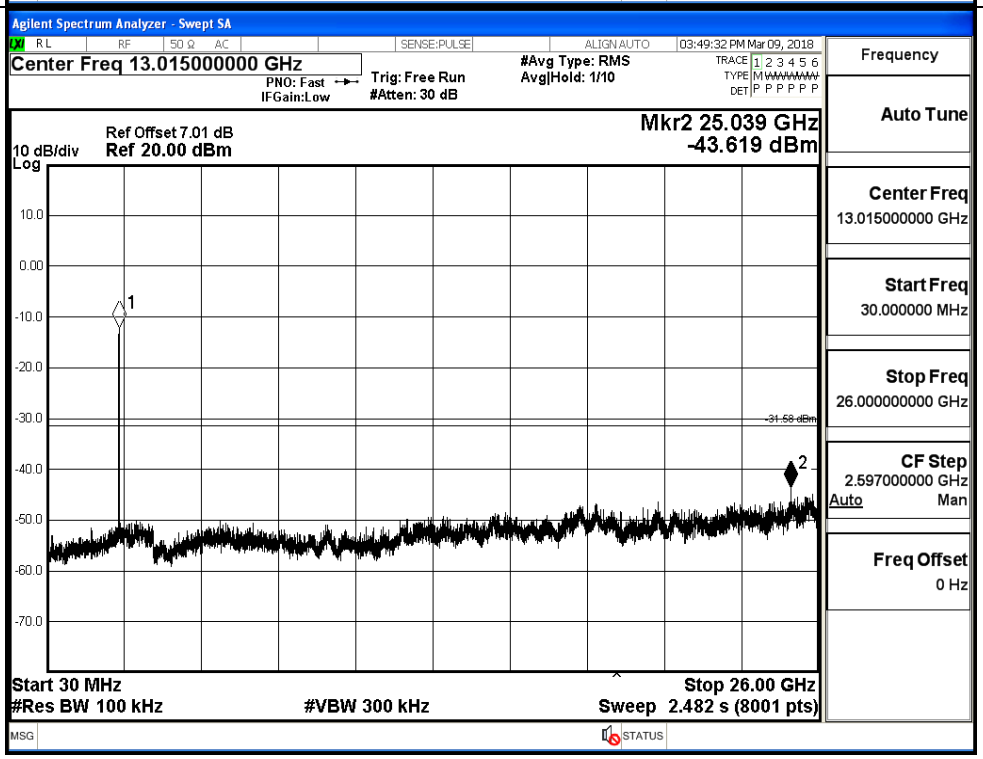
11G_LCH_Graphs		
Pref/11G/LCH		
Puw/11G/LCH		

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

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

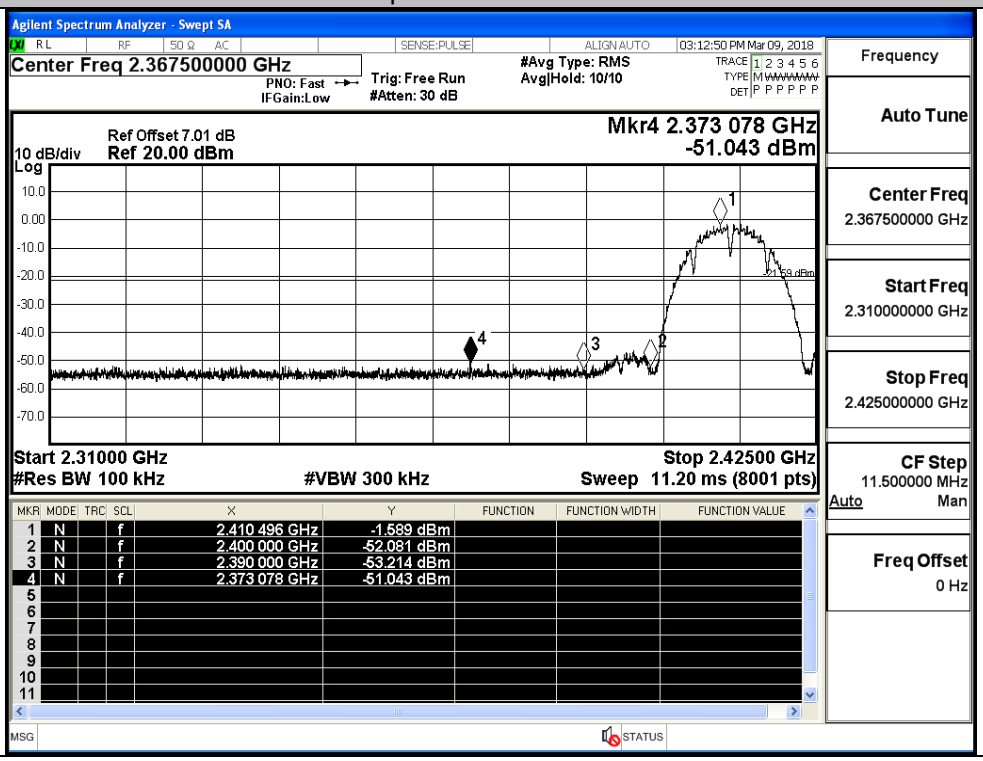
11N20SISO_LCH_Graphs		
Pref/11N20SISO/LCH		
Puw/11N20SISO/LCH		

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

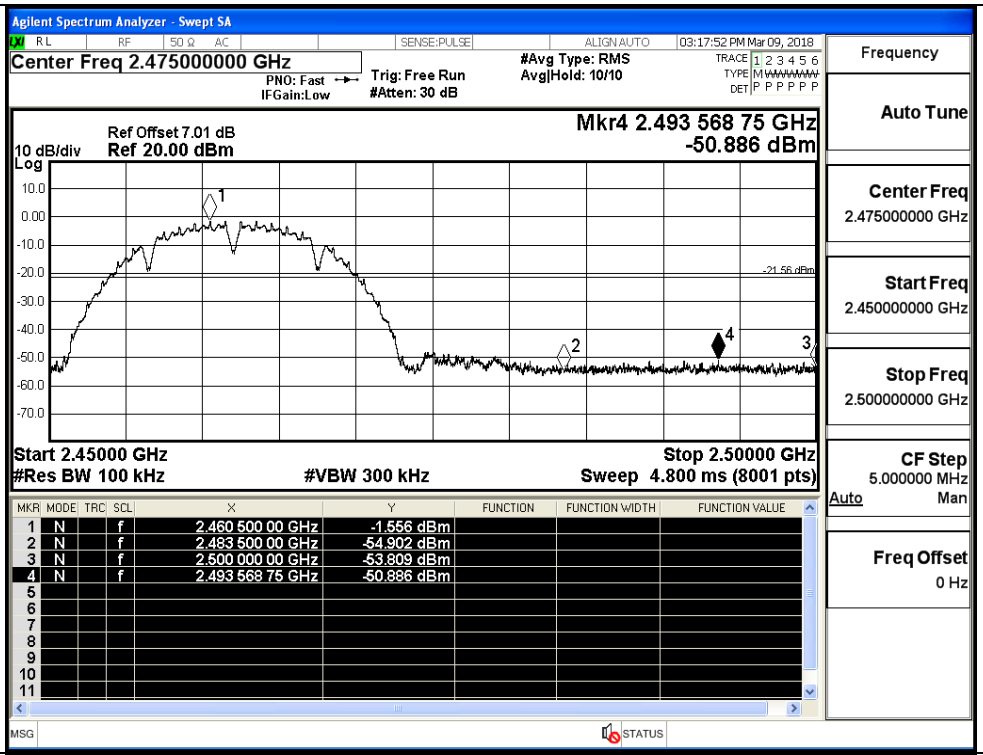
11N20SISO_HCH_Graphs		
Pref/11N20 SISO/HCH		
Puw/11N20 SISO/HCH		

C.5 Band-edge for RF Conducted Emissions

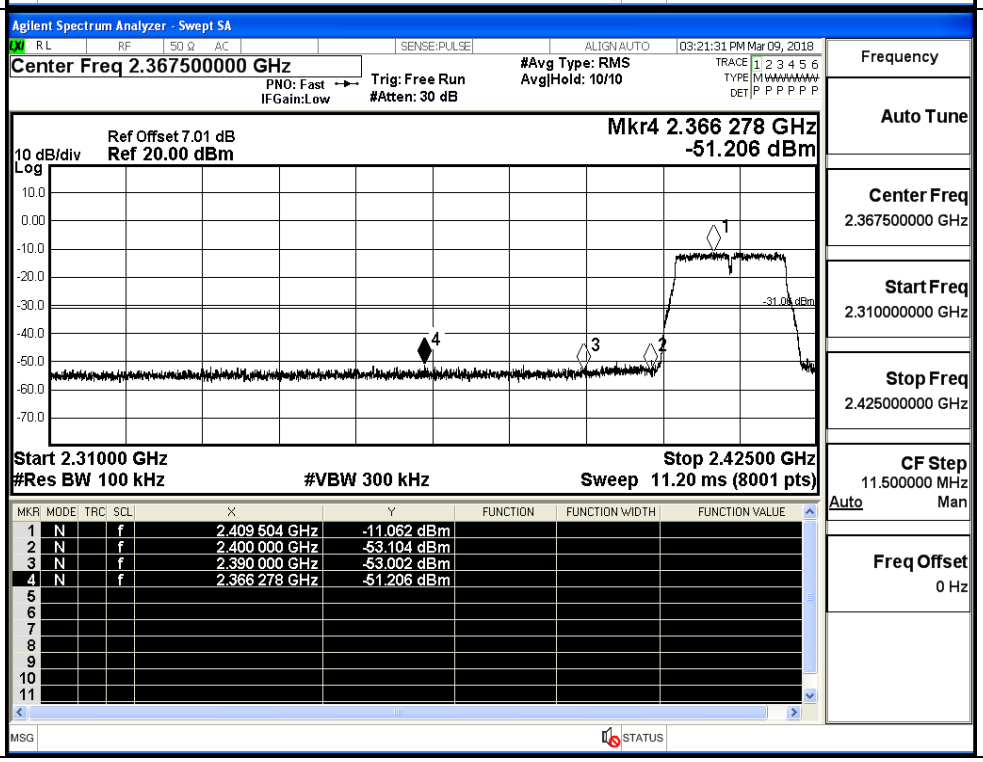
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.589	-51.043	-21.59	PASS
	HCH	-1.556	-50.886	-21.56	PASS
11G	LCH	-11.062	-51.206	-31.06	PASS
	HCH	-11.017	-51.050	-31.02	PASS
11N20SISO	LCH	-10.203	-51.438	-30.2	PASS
	HCH	-11.048	-50.316	-31.05	PASS

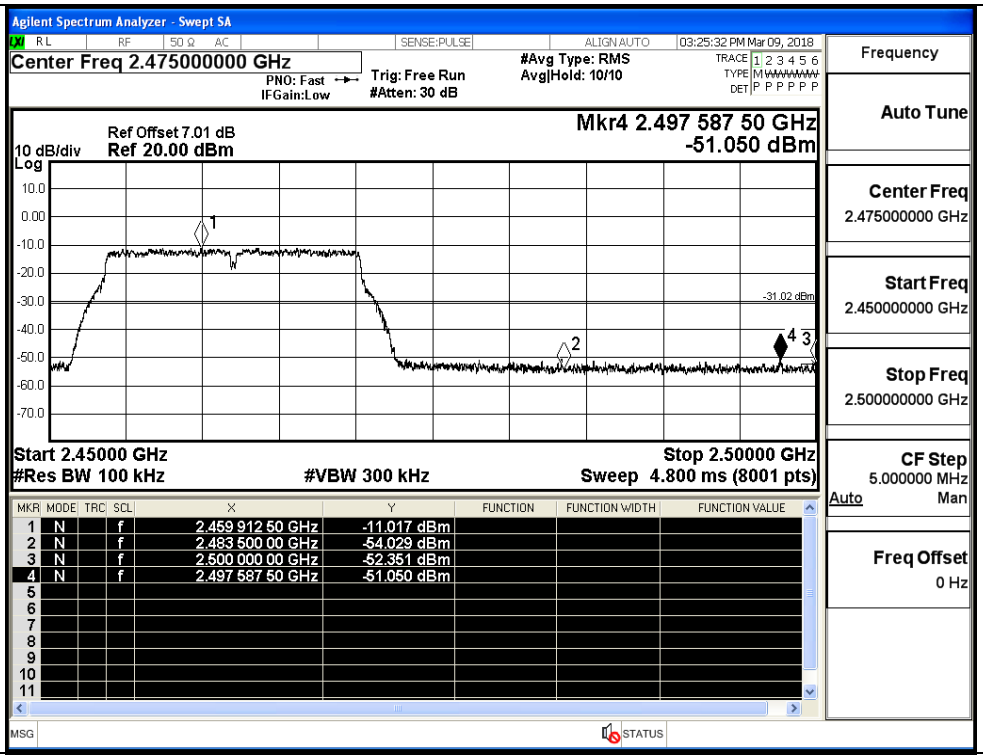
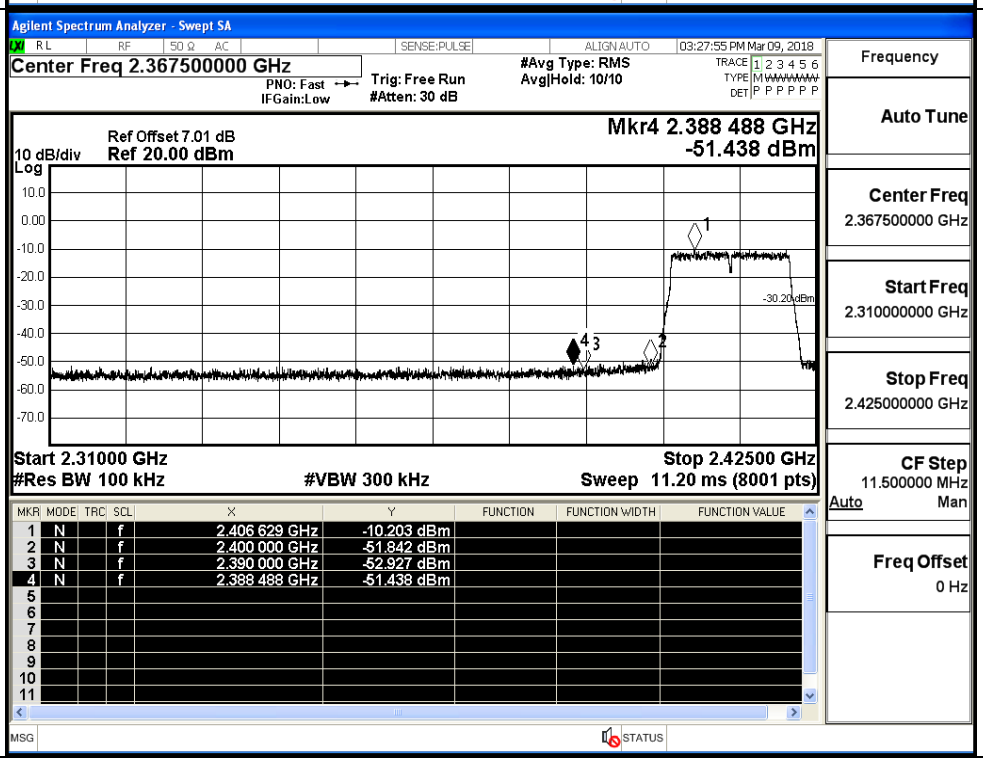
Test Graphs	
11B/LCH	

11B/HCH

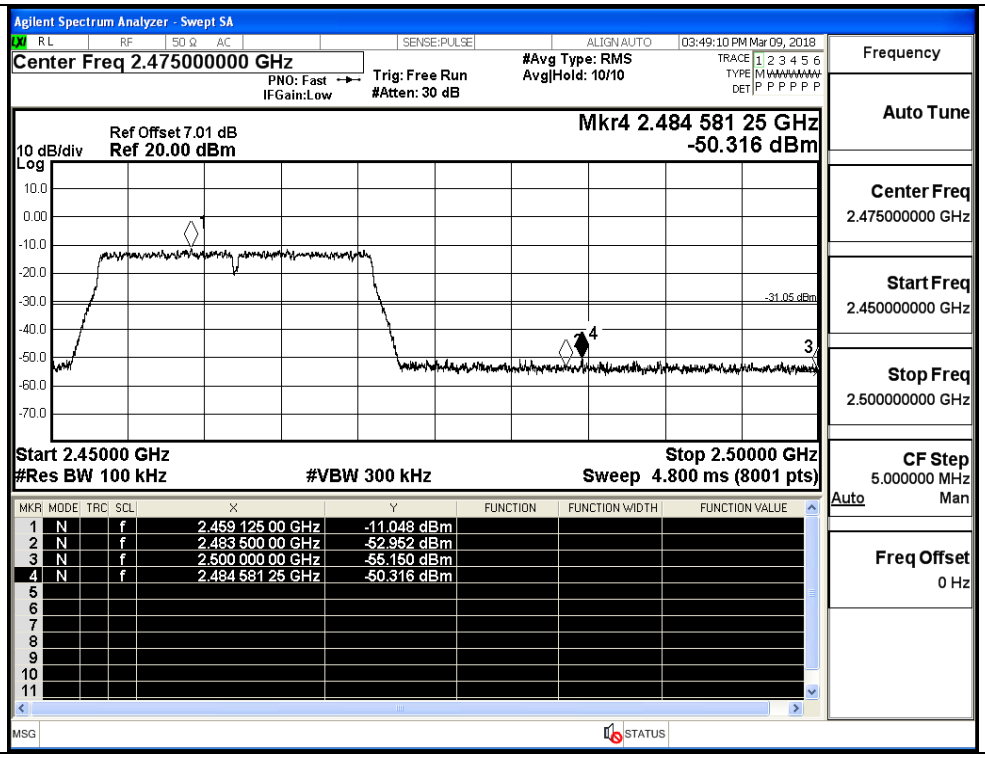


11G/LCH



11G/HCH		
11N20SISO/LCH		

11N20SISO/HCH



C.6 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-45.40	2.64	0	52.44	PEAK	74	PASS
	2412	Ant1	2310.0	-55.17	2.64	0	42.67	AV	54	PASS
	2412	Ant1	2390.0	-44.61	2.64	0	53.23	PEAK	74	PASS
	2412	Ant1	2390.0	-54.79	2.64	0	43.05	AV	54	PASS
	2462	Ant1	2483.5	-43.16	2.64	0	54.68	PEAK	74	PASS
	2462	Ant1	2483.5	-54.56	2.64	0	43.28	AV	54	PASS
	2462	Ant1	2500.0	-44.06	2.64	0	53.78	PEAK	74	PASS
	2462	Ant1	2500.0	-54.47	2.64	0	43.37	AV	54	PASS
11G	2412	Ant1	2310.0	-45.29	2.64	0	52.55	PEAK	74	PASS
	2412	Ant1	2310.0	-55.18	2.64	0	42.66	AV	54	PASS
	2412	Ant1	2390.0	-44.38	2.64	0	53.46	PEAK	74	PASS
	2412	Ant1	2390.0	-54.38	2.64	0	43.46	AV	54	PASS
	2462	Ant1	2483.5	-43.90	2.64	0	53.94	PEAK	74	PASS
	2462	Ant1	2483.5	-54.14	2.64	0	43.70	AV	54	PASS
	2462	Ant1	2500.0	-42.41	2.64	0	55.43	PEAK	74	PASS
	2462	Ant1	2500.0	-54.23	2.64	0	43.61	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.98	2.64	0	52.86	PEAK	74	PASS
	2412	Ant1	2310.0	-55.14	2.64	0	42.7	AV	54	PASS
	2412	Ant1	2390.0	-44.01	2.64	0	53.83	PEAK	74	PASS
	2412	Ant1	2390.0	-54.08	2.64	0	43.76	AV	54	PASS
	2462	Ant1	2483.5	-44.84	2.64	0	53.00	PEAK	74	PASS
	2462	Ant1	2483.5	-54.22	2.64	0	43.62	AV	54	PASS
	2462	Ant1	2500.0	-43.81	2.64	0	54.03	PEAK	74	PASS
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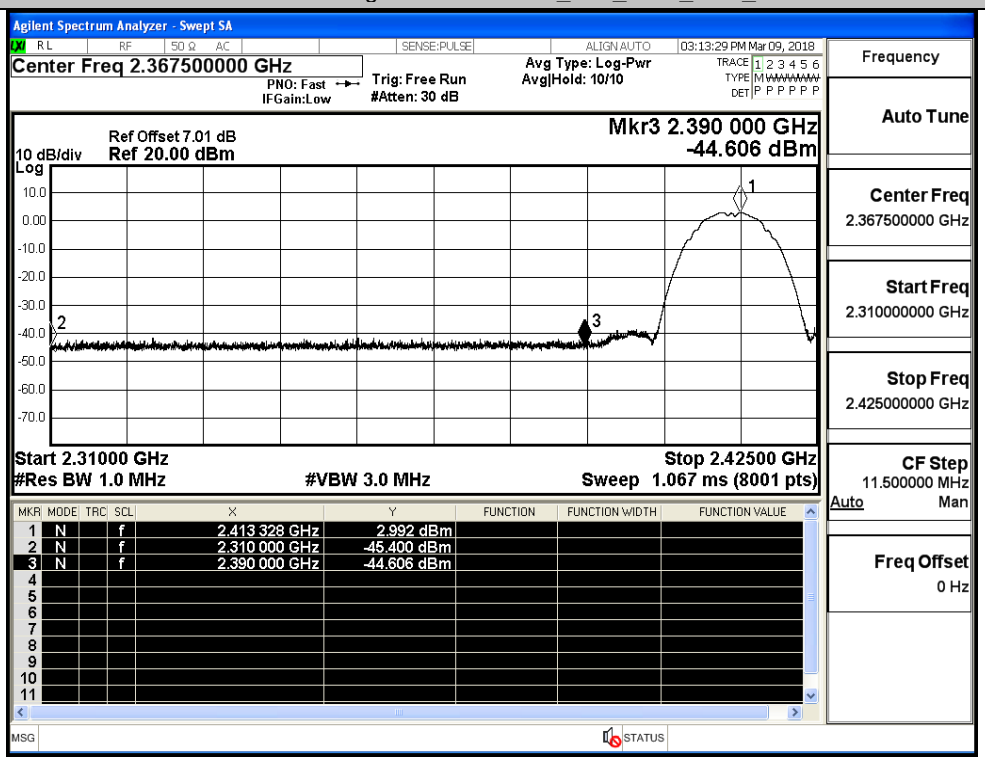
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



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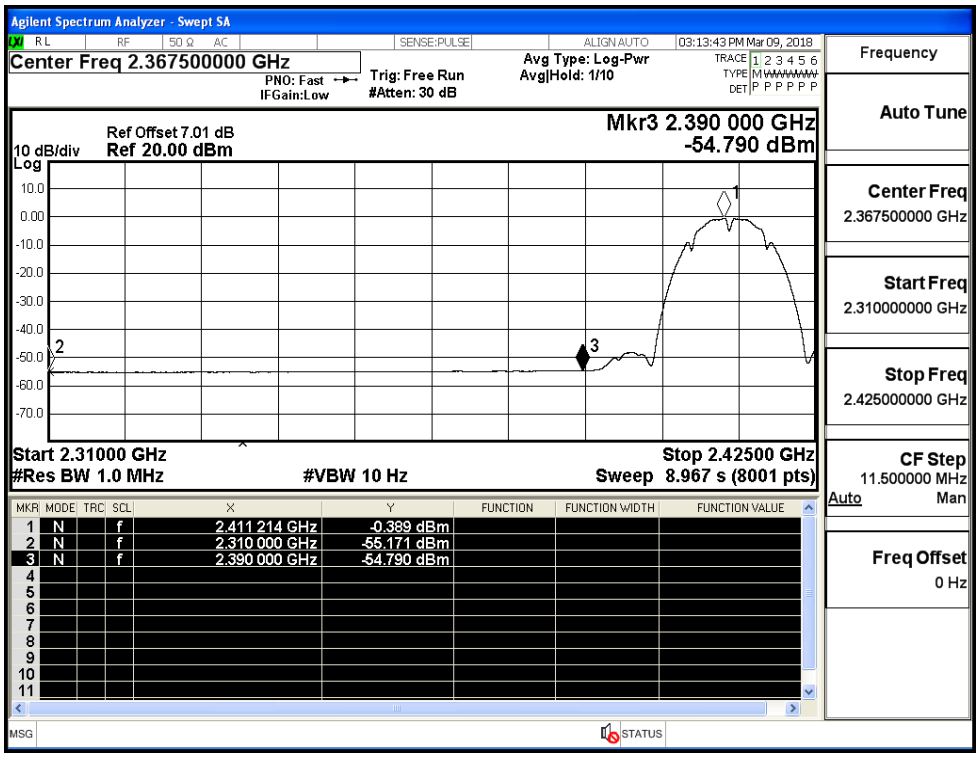

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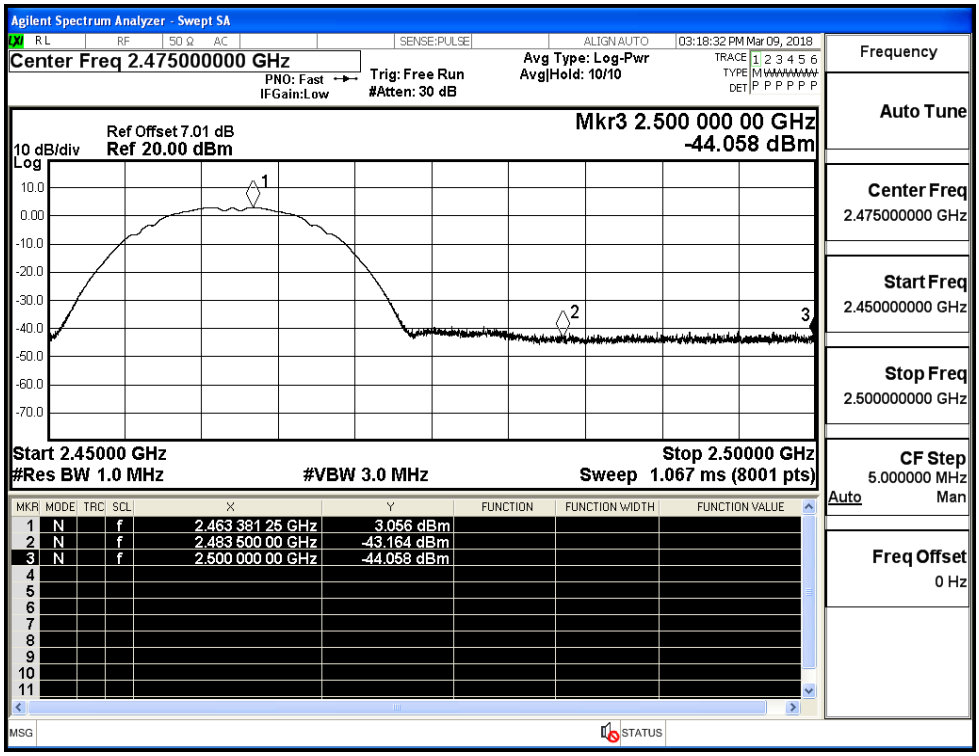

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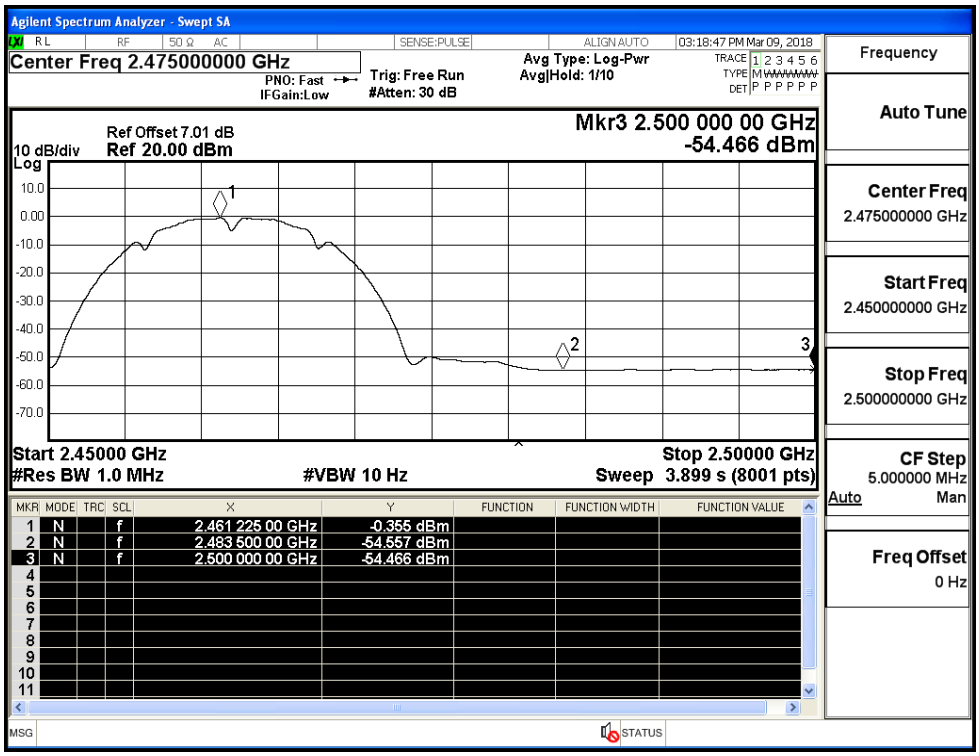

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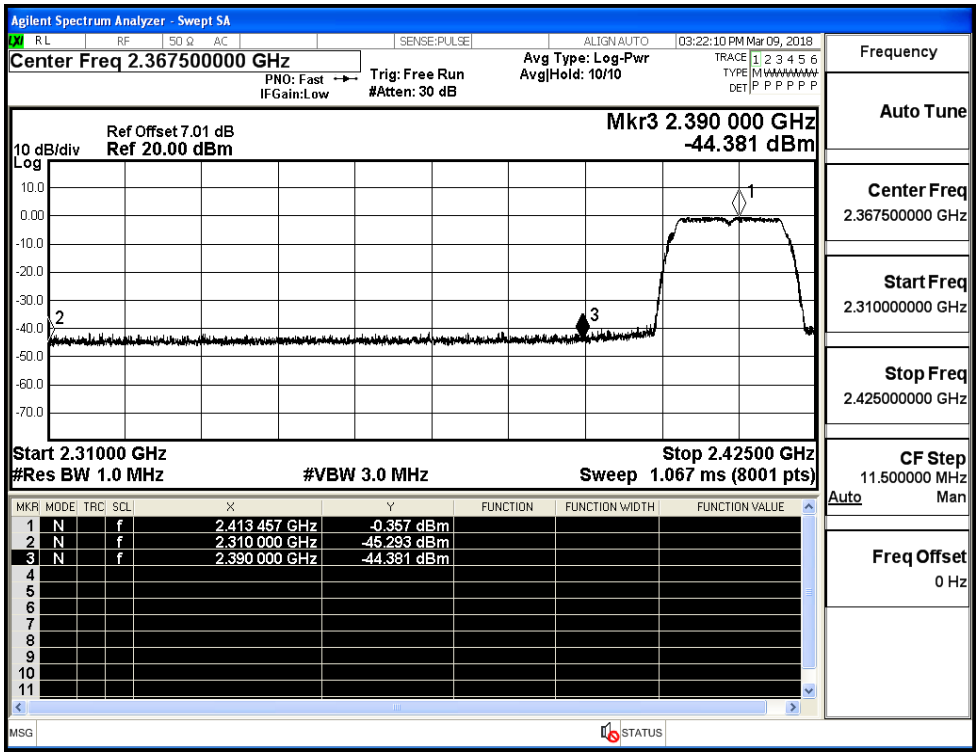

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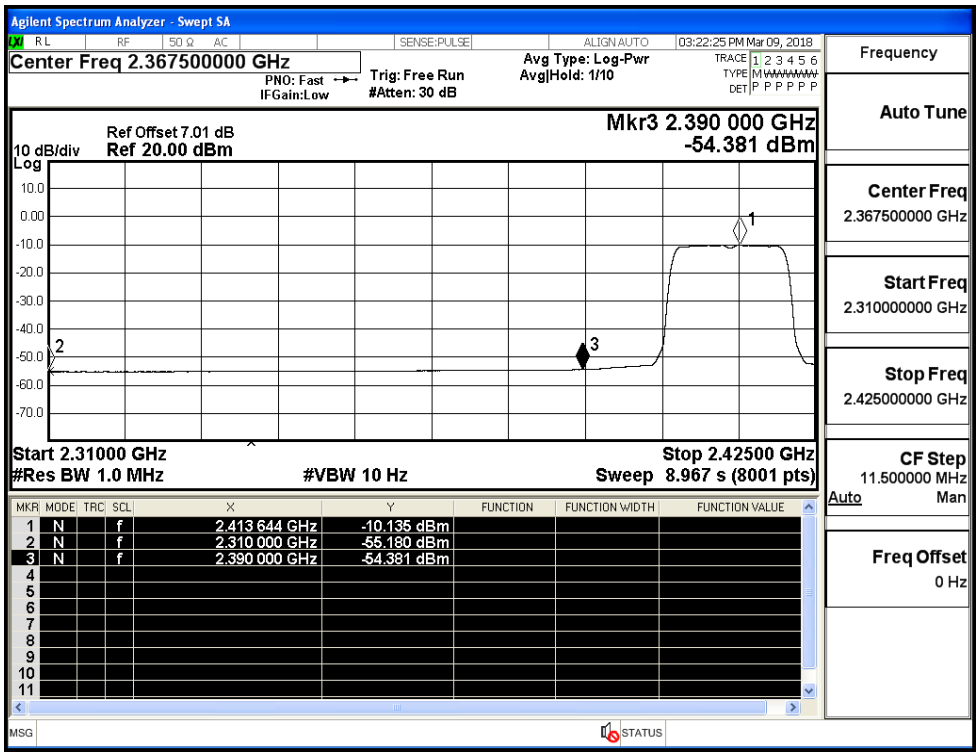

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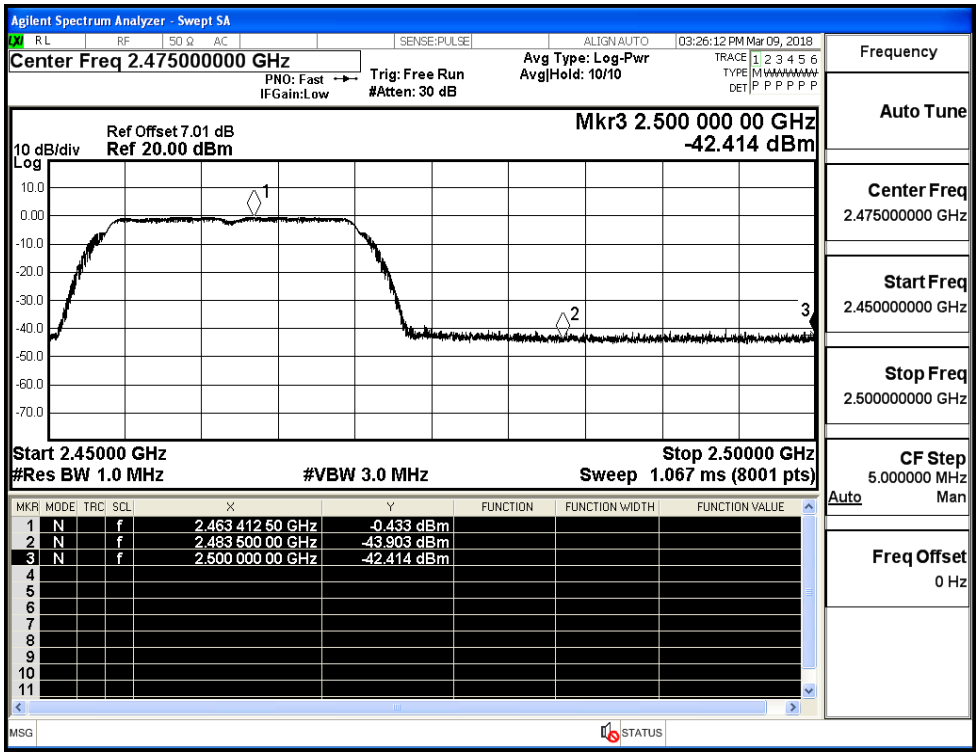

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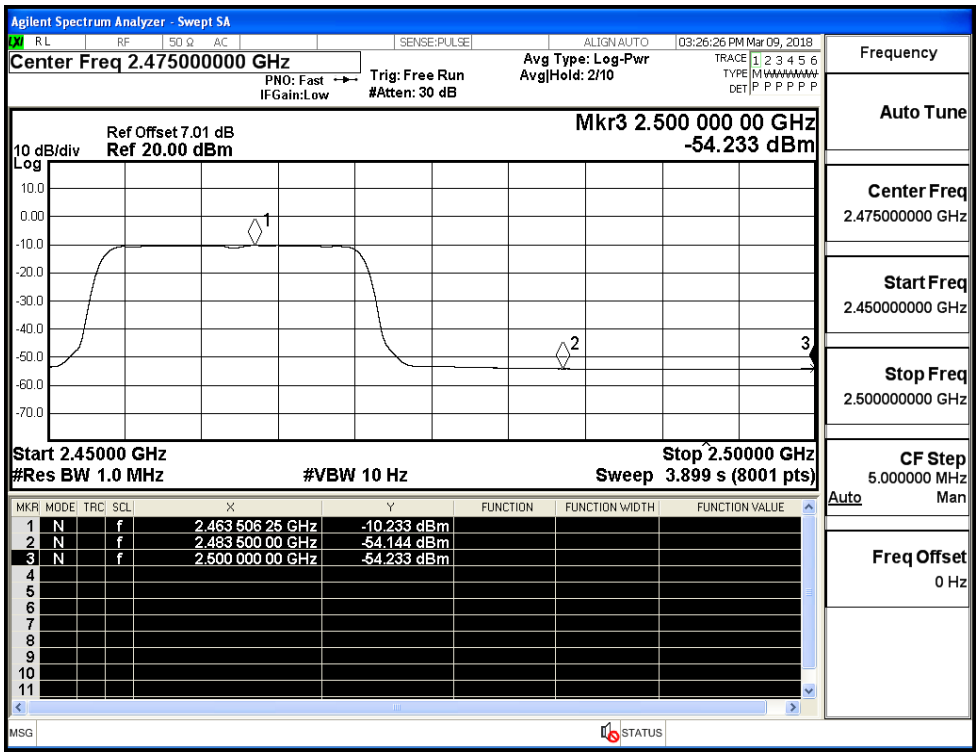

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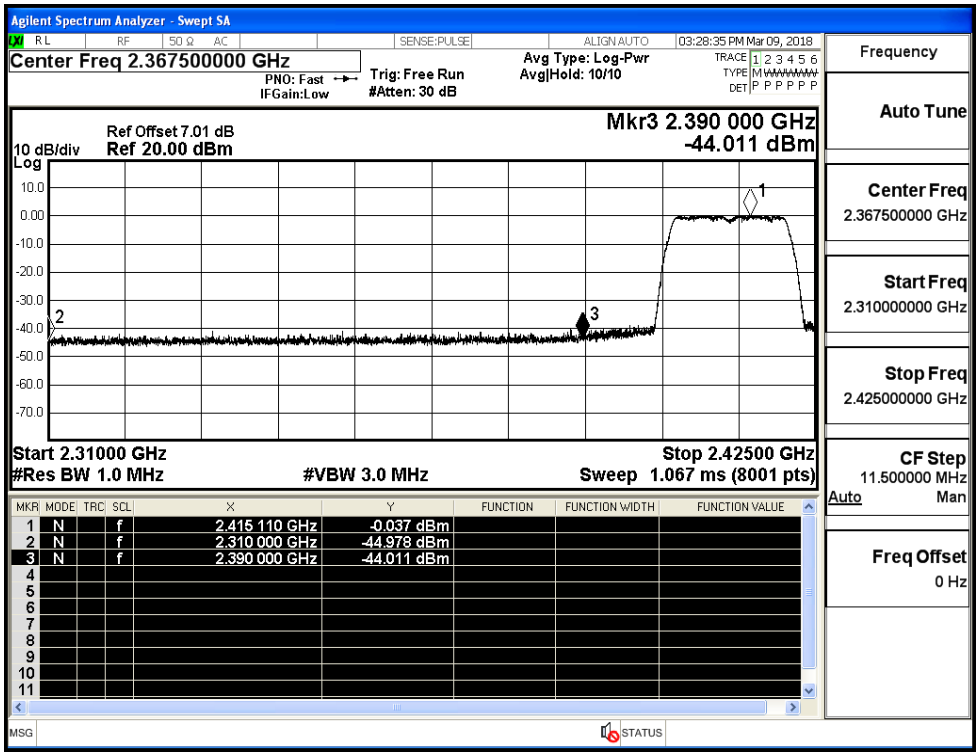

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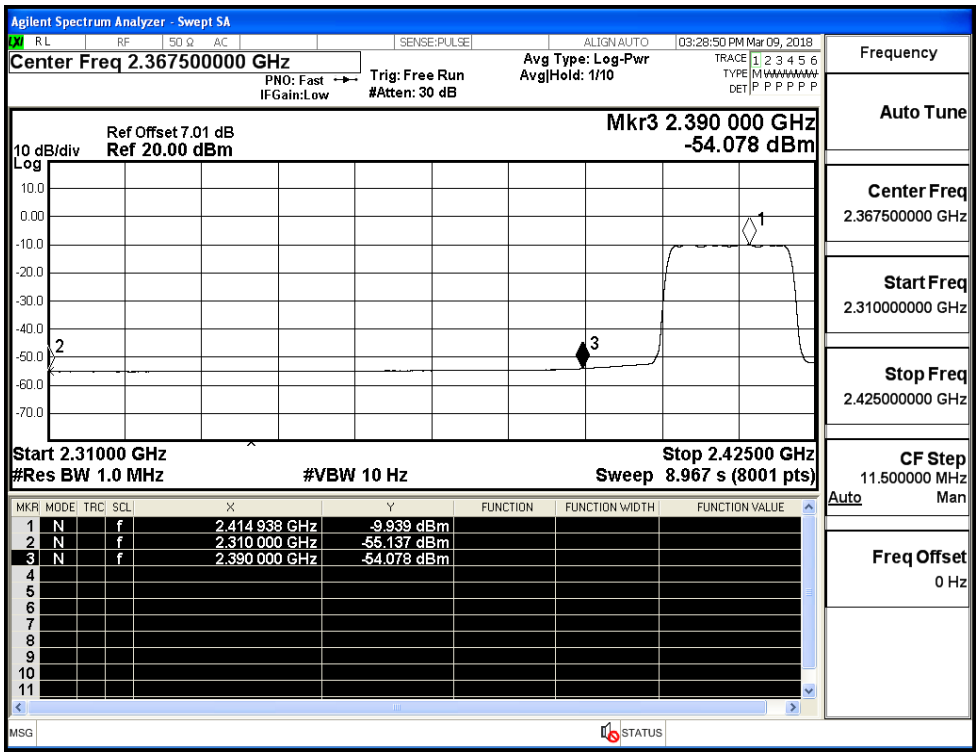

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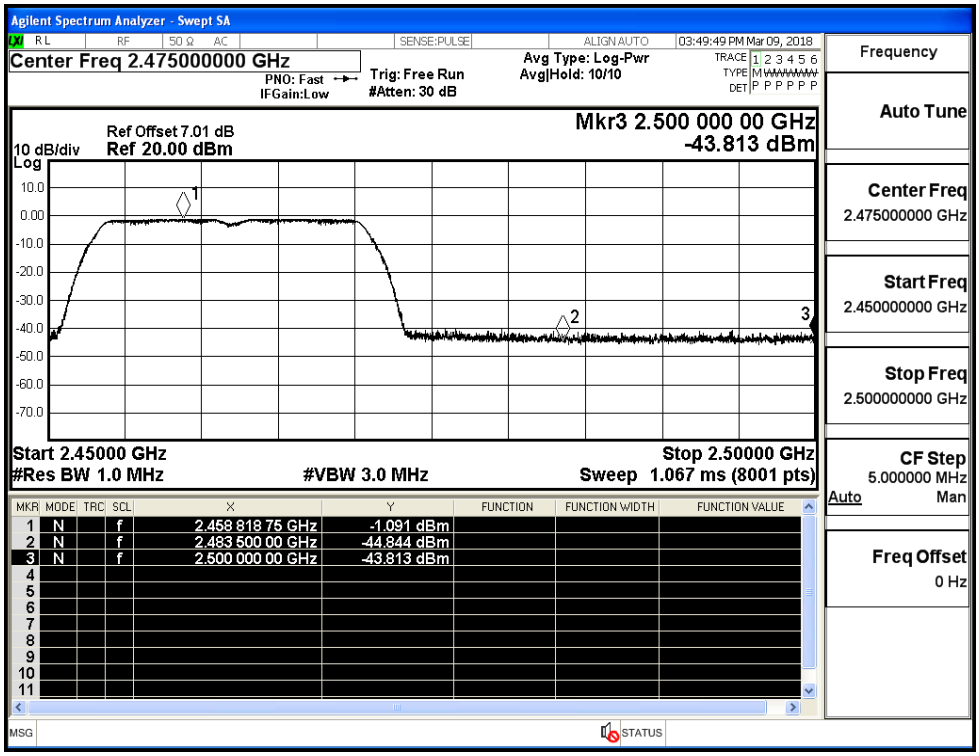
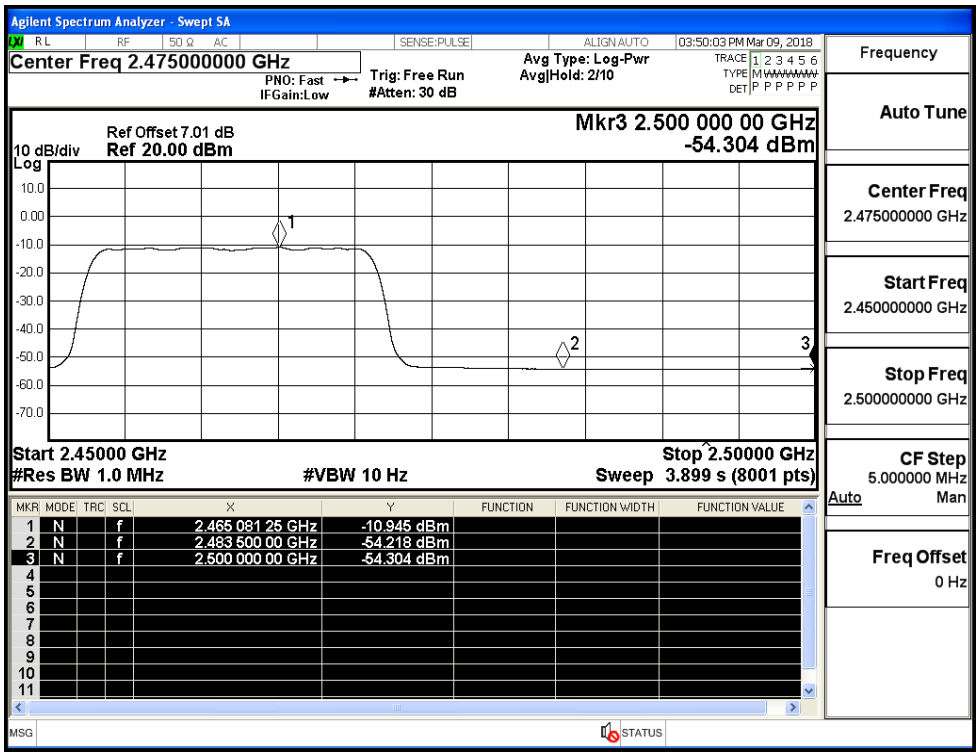
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