Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Battery Camera

Trade Mark: N/A

Test Model: S1

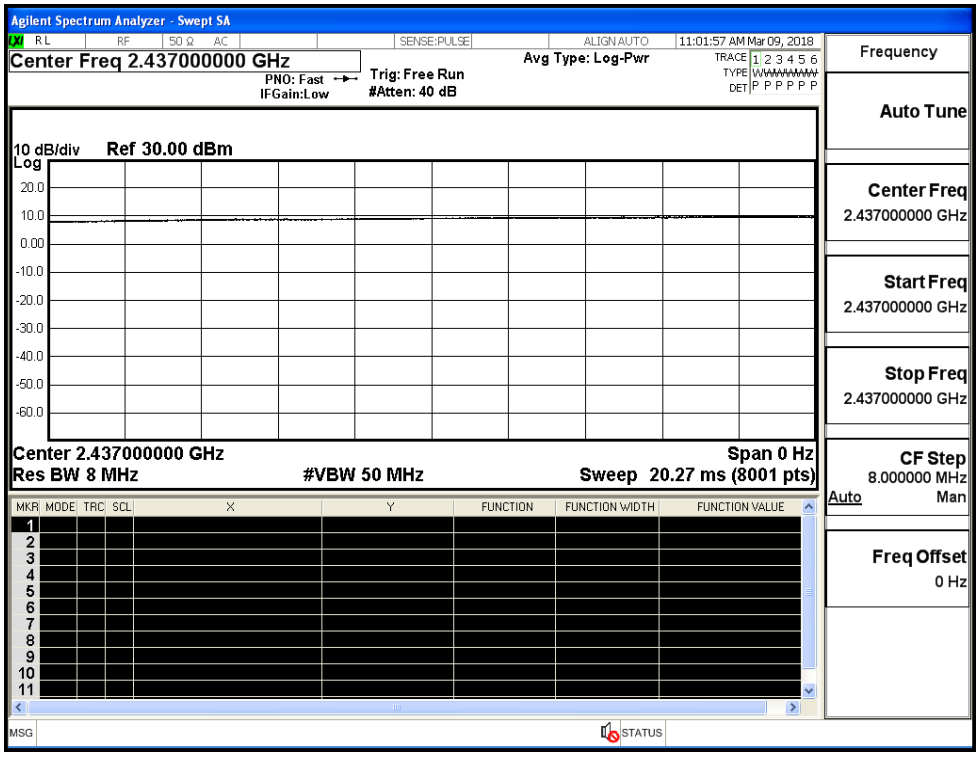
Environmental Conditions

Temperature:	22.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson Hong
Supervised by:	Jayden Zhuo

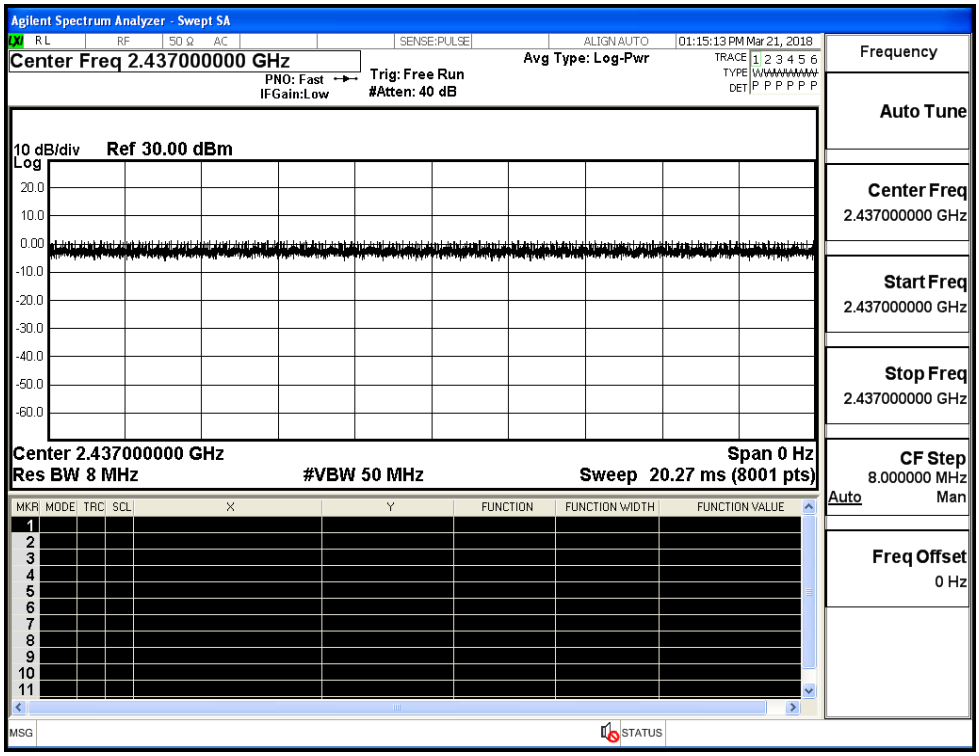
A.1 Duty Cycle

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

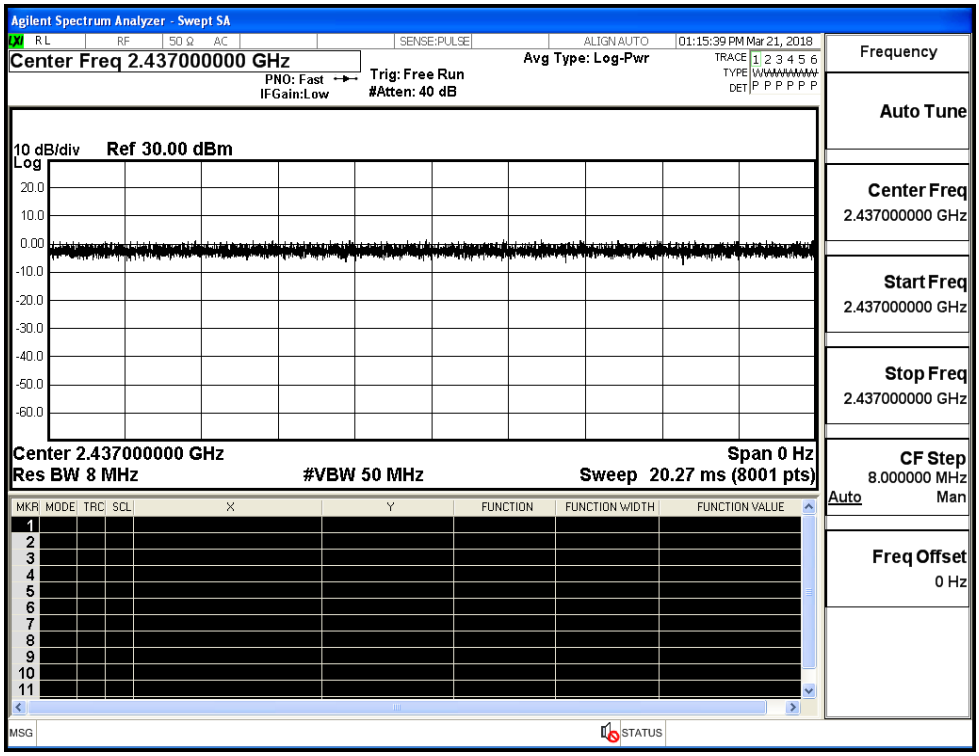
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1

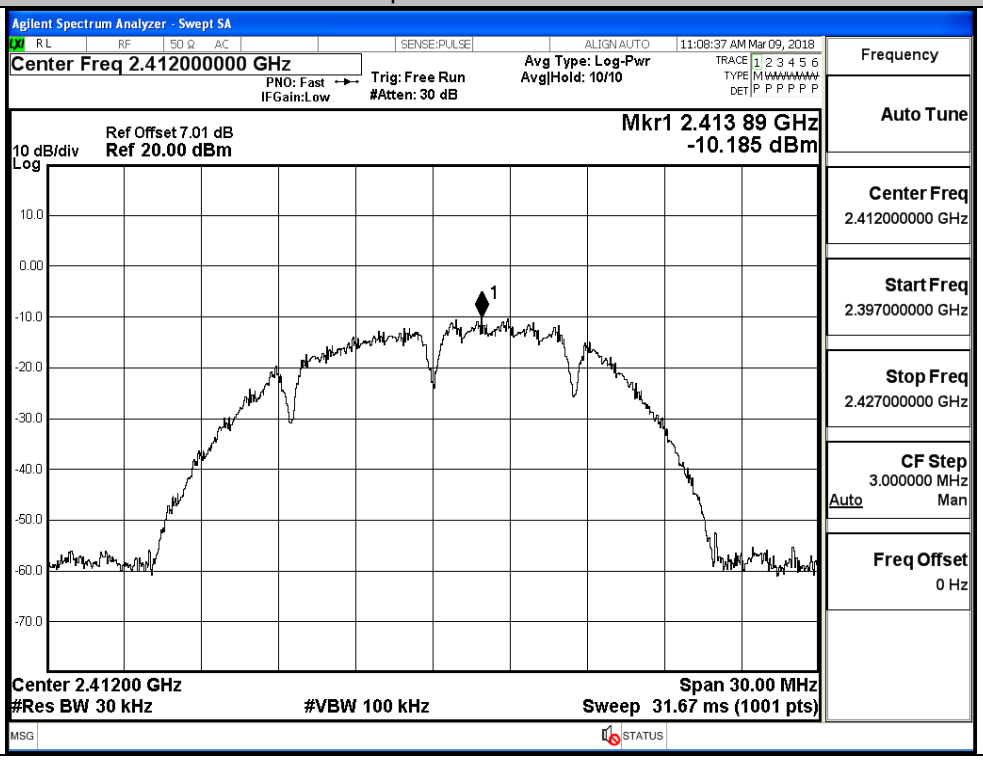


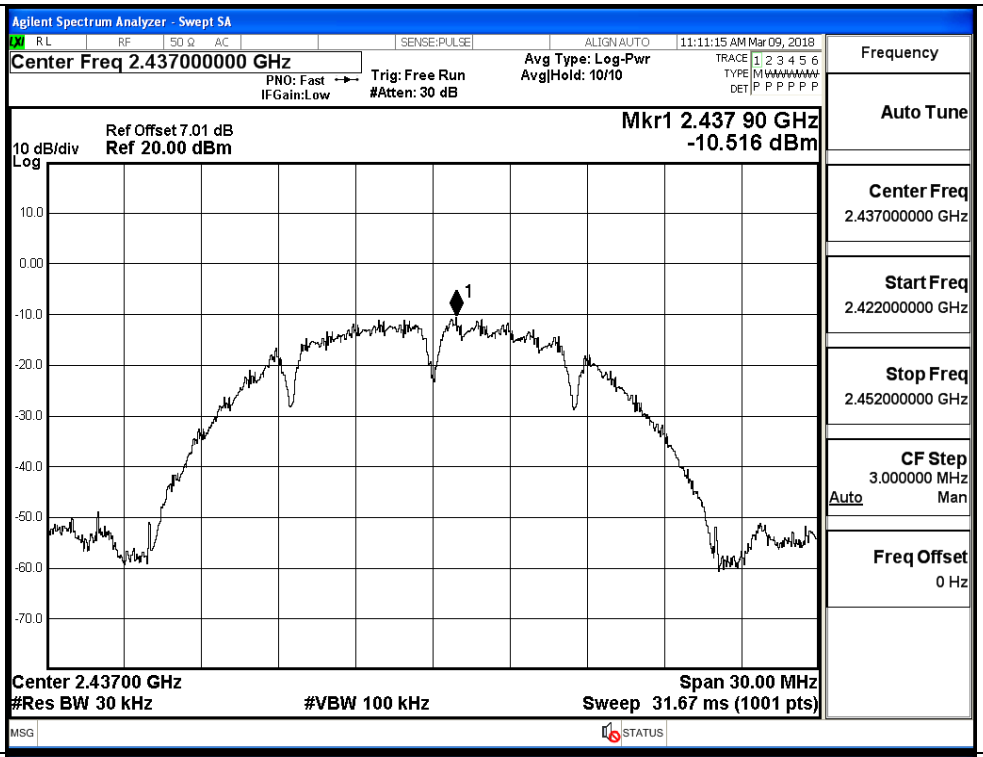
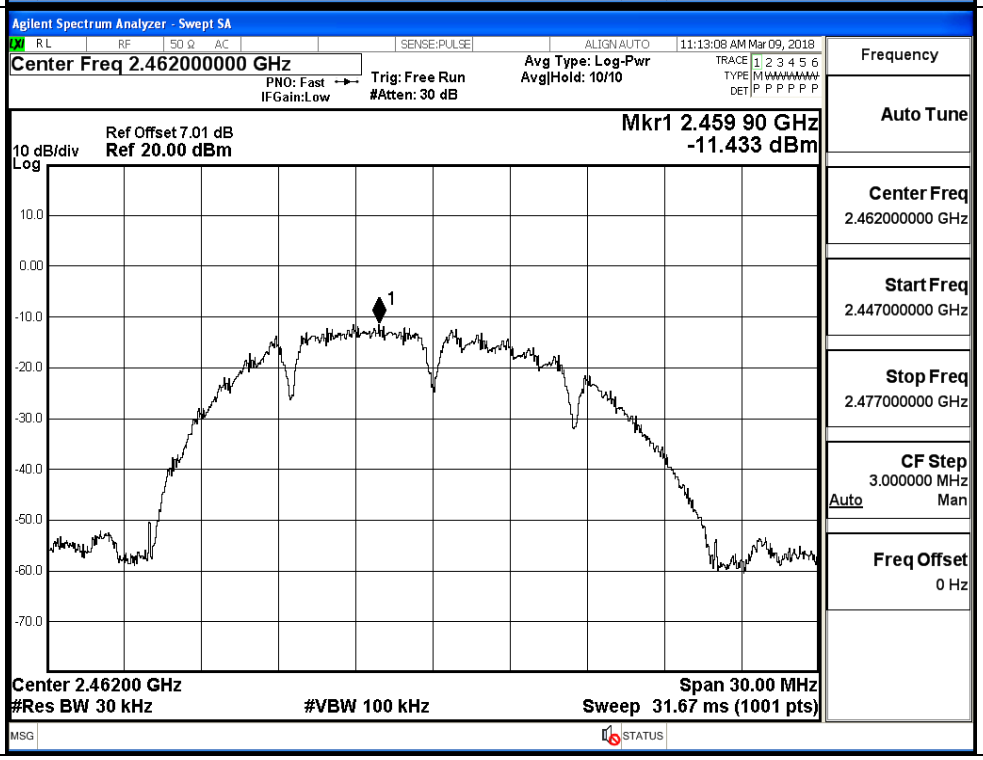
Duty Cycle_11N20SISO_2437_Ant1

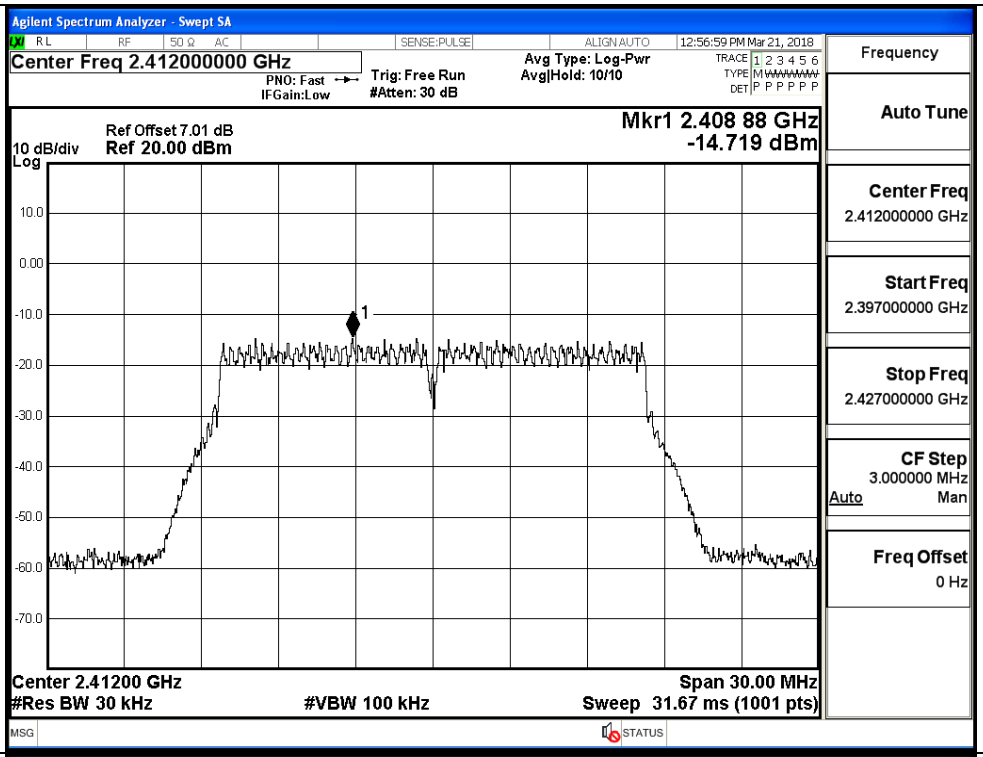
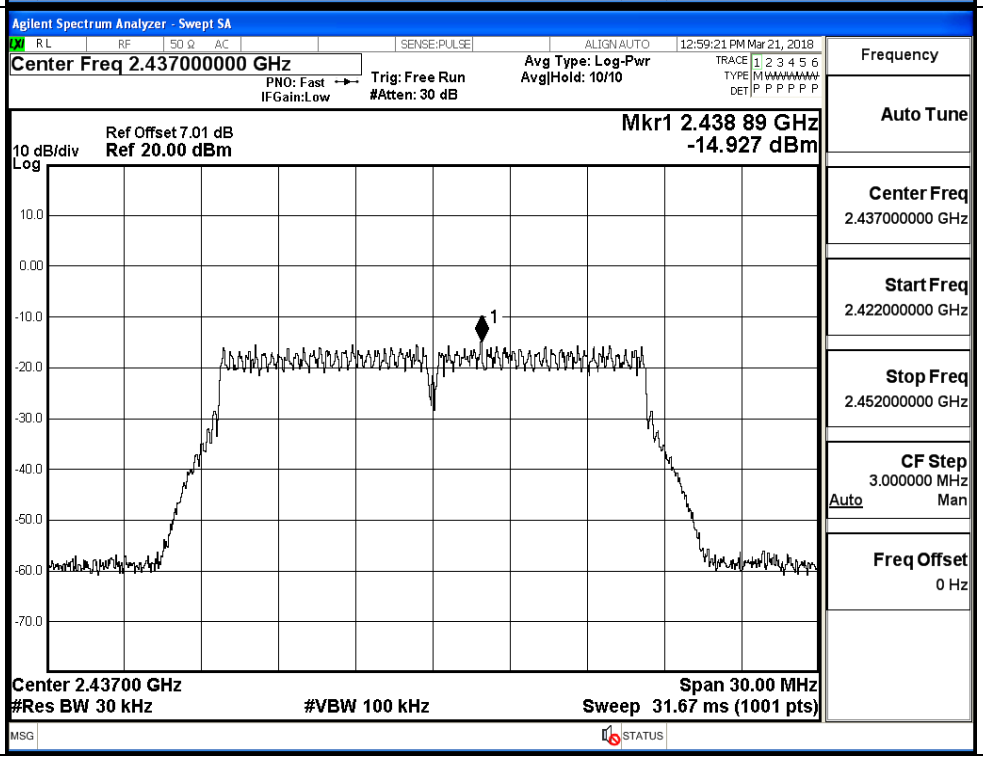


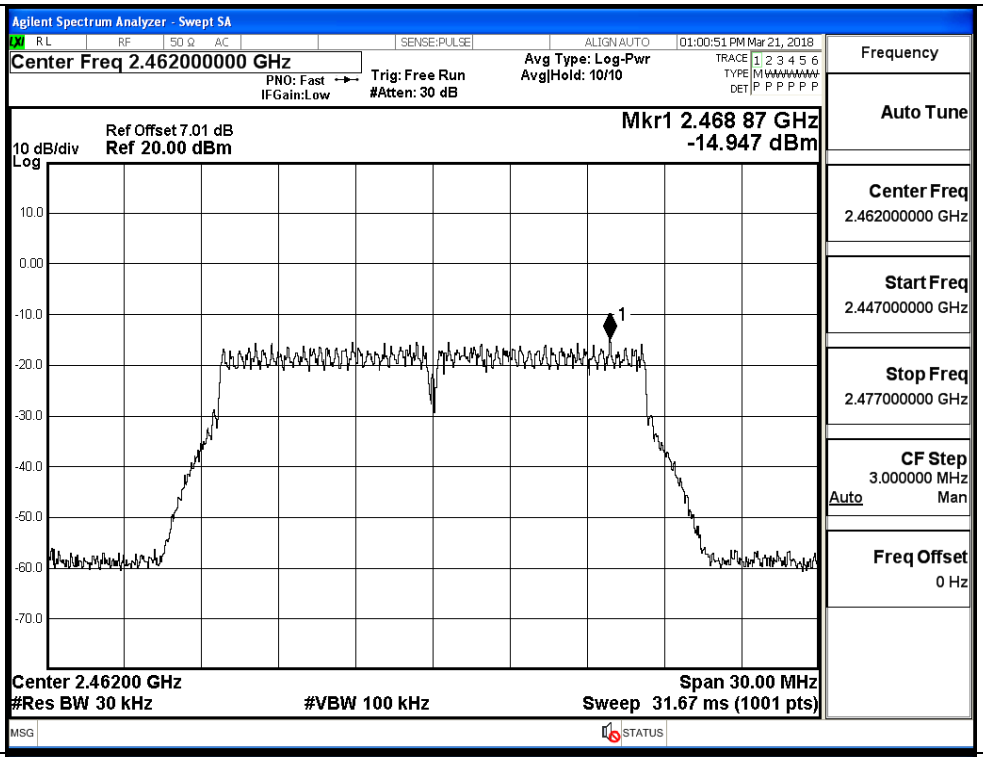
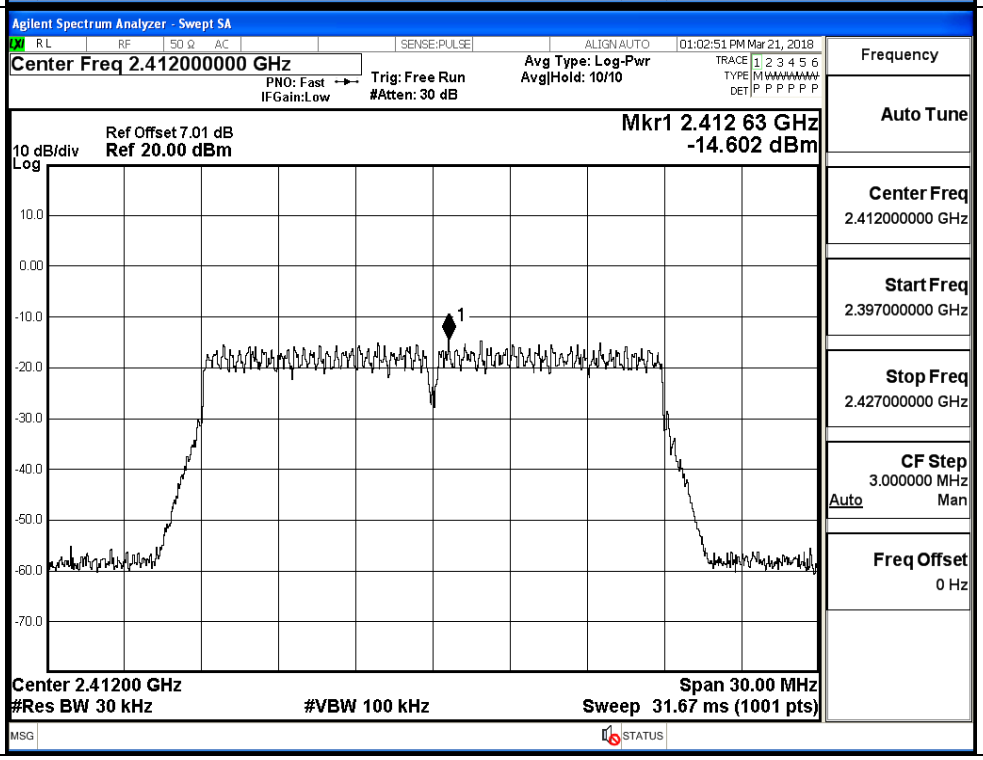
A.2 Maximum Power Spectral Density

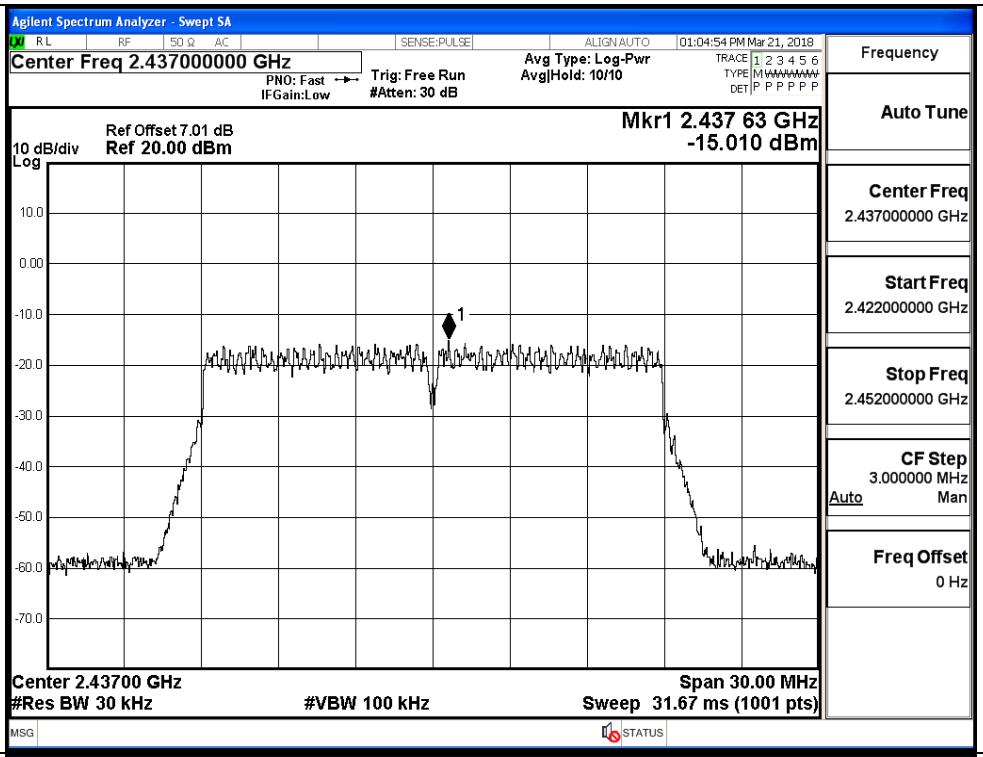
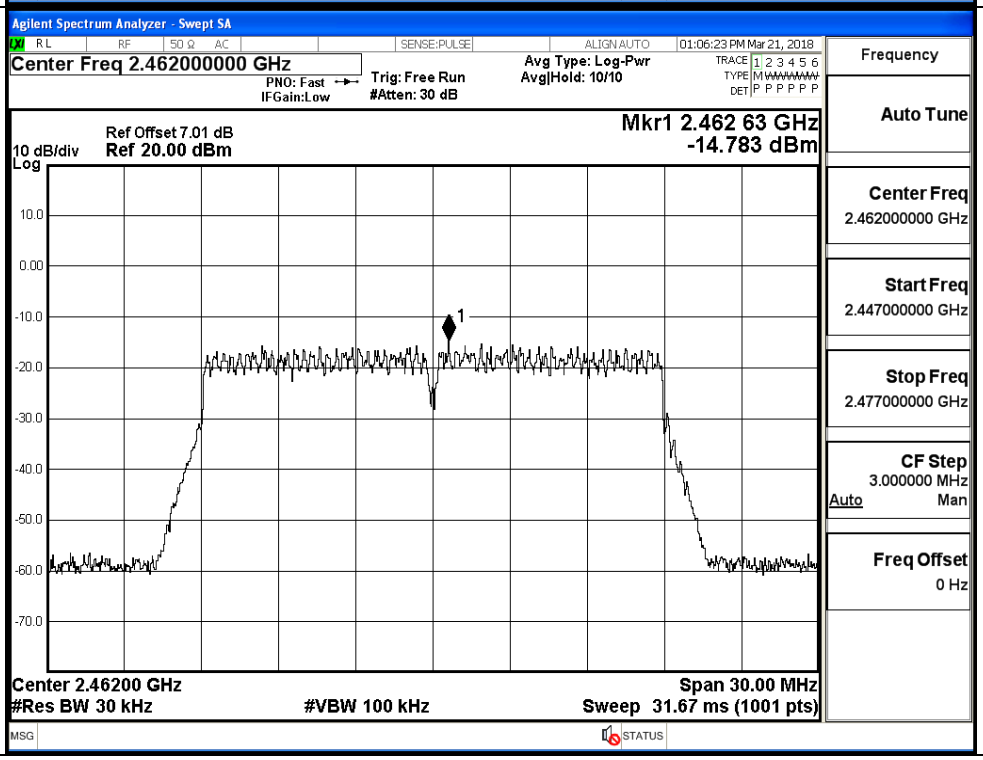
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-10.185	8	PASS
	MCH	-10.516	8	PASS
	HCH	-11.433	8	PASS
11G	LCH	-14.719	8	PASS
	MCH	-14.927	8	PASS
	HCH	-14.947	8	PASS
11N20SISO	LCH	-14.602	8	PASS
	MCH	-15.010	8	PASS
	HCH	-14.783	8	PASS

Test Graphs	
11B/LCH	

11B/MCH	
11B/HCH	

11G/LCH	
11G/MCH	

11G/HCH	
11N20SISO/LCH	

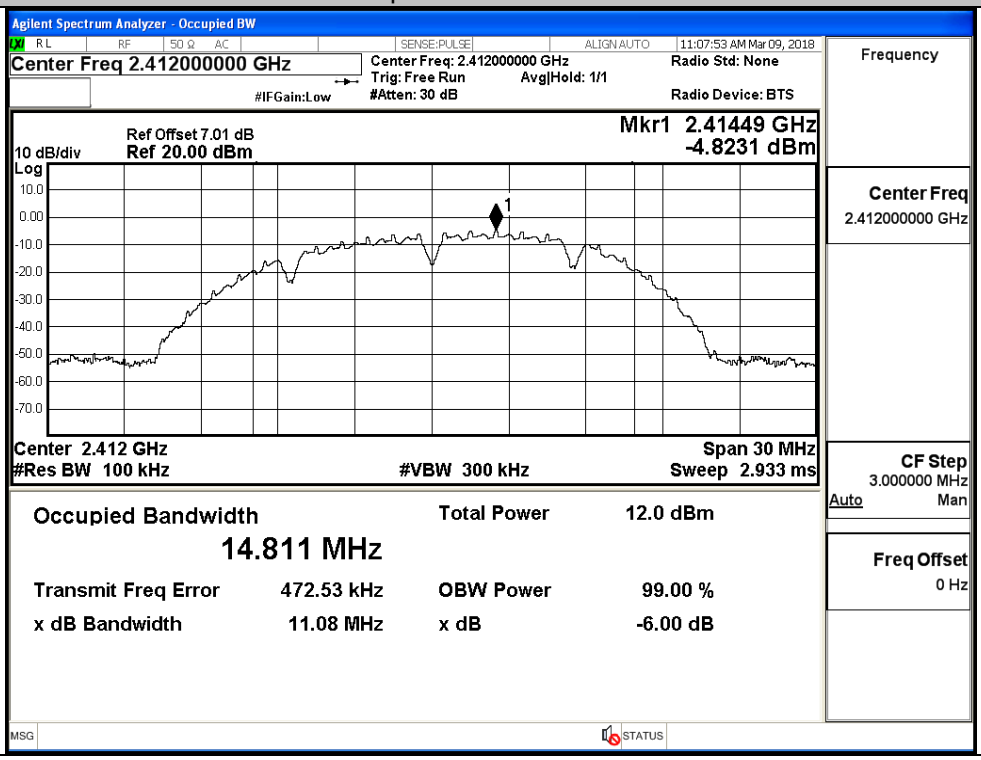
11N20SISO/MCH	
11N20SISO/HCH	

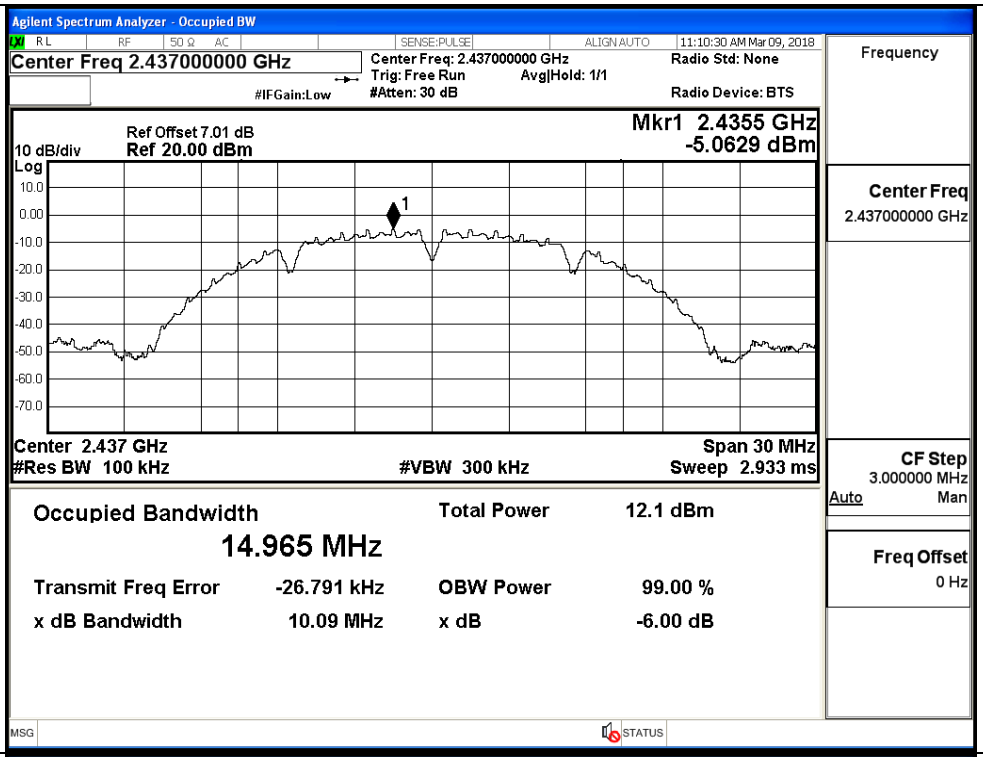
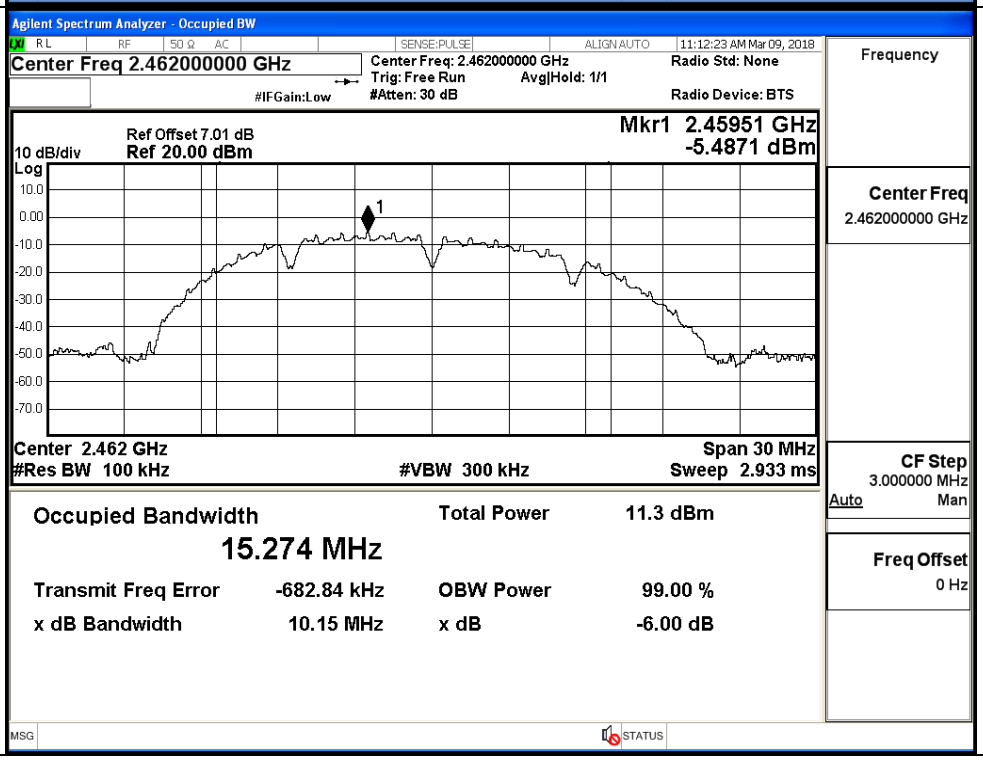
A.3 6dB Bandwidth

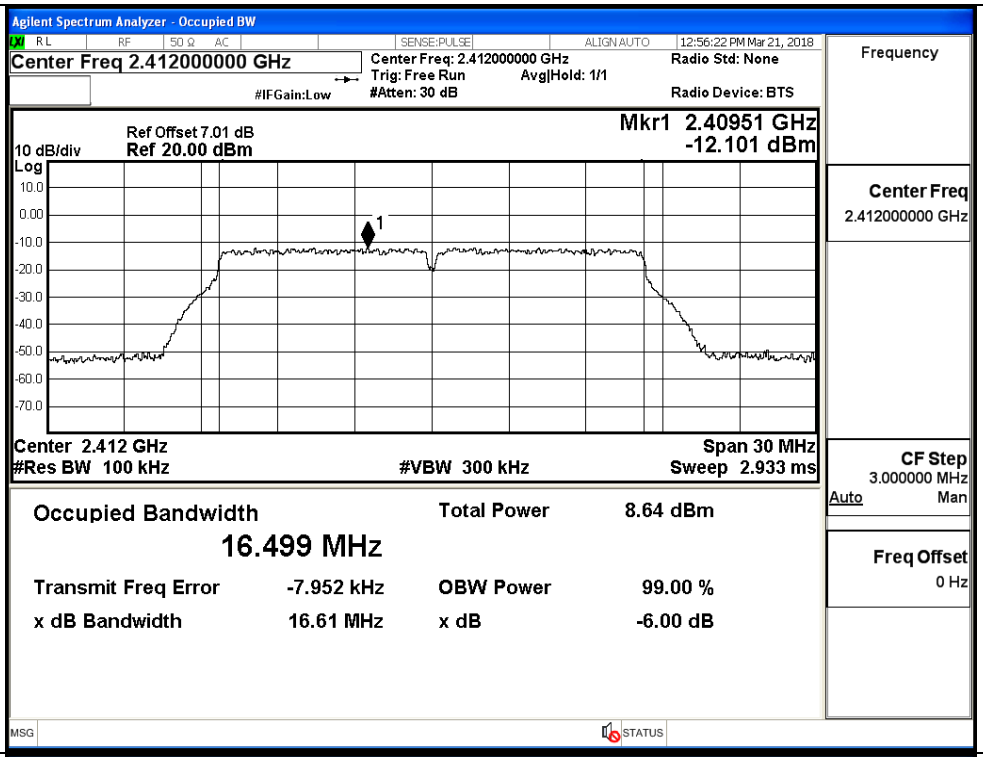
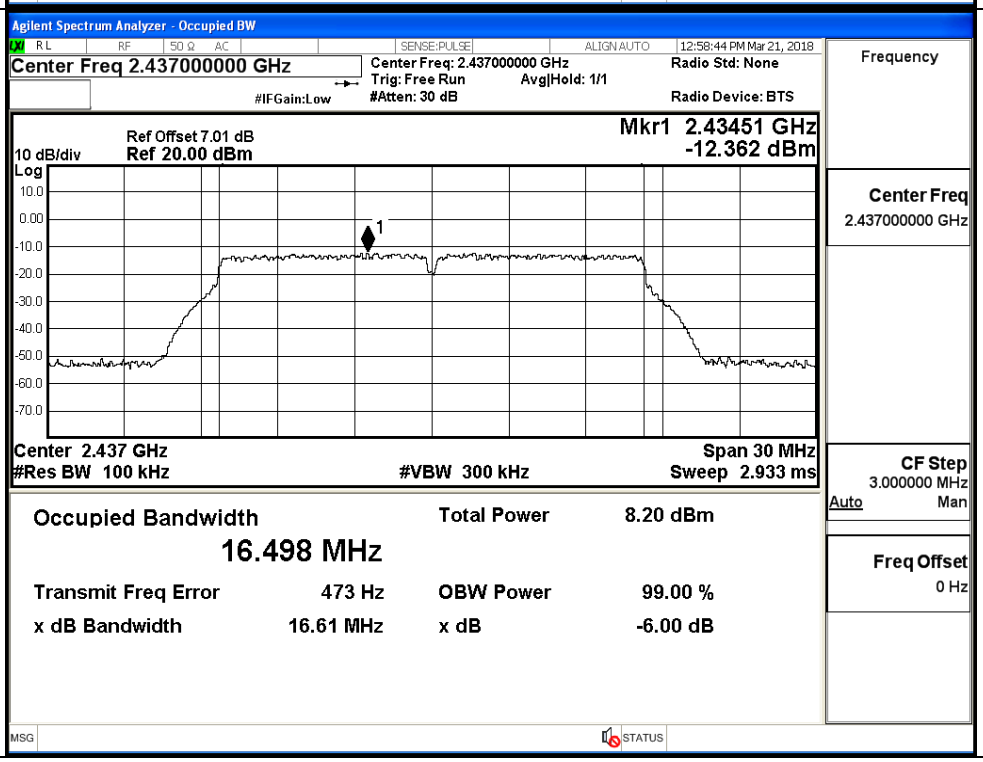
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	11.08	≥0.5	PASS
	MCH	10.09	≥0.5	PASS
	HCH	10.15	≥0.5	PASS
11G	LCH	16.61	≥0.5	PASS
	MCH	16.61	≥0.5	PASS
	HCH	16.62	≥0.5	PASS
11N20SISO	LCH	17.82	≥0.5	PASS
	MCH	17.83	≥0.5	PASS
	HCH	17.83	≥0.5	PASS

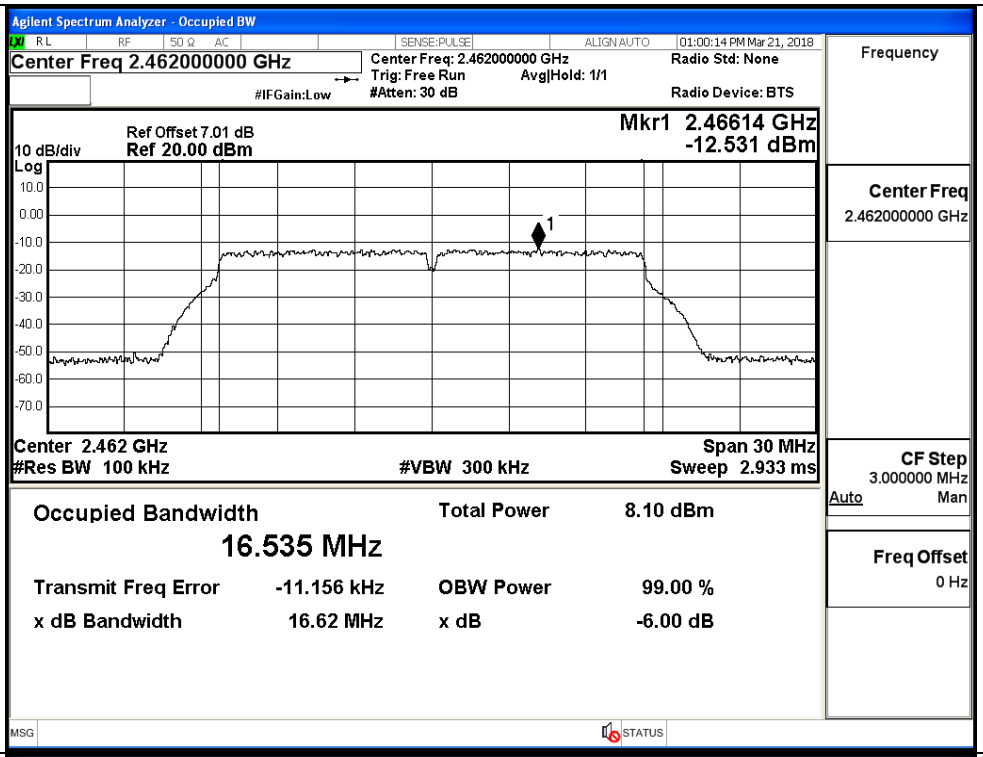
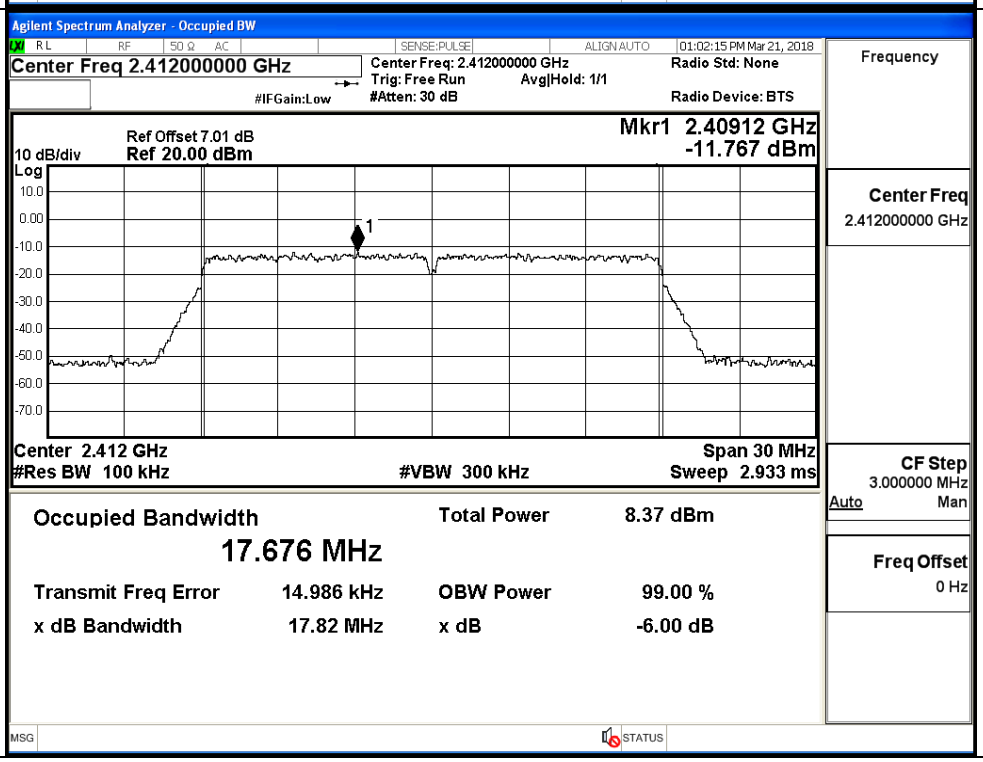
Test Graphs

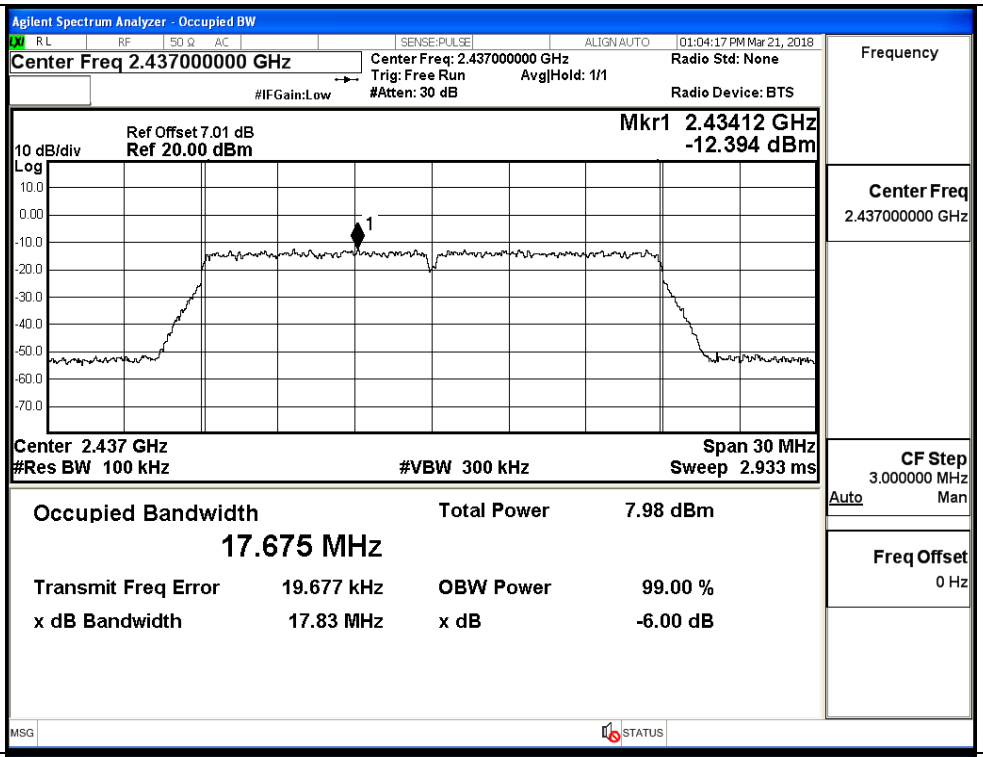
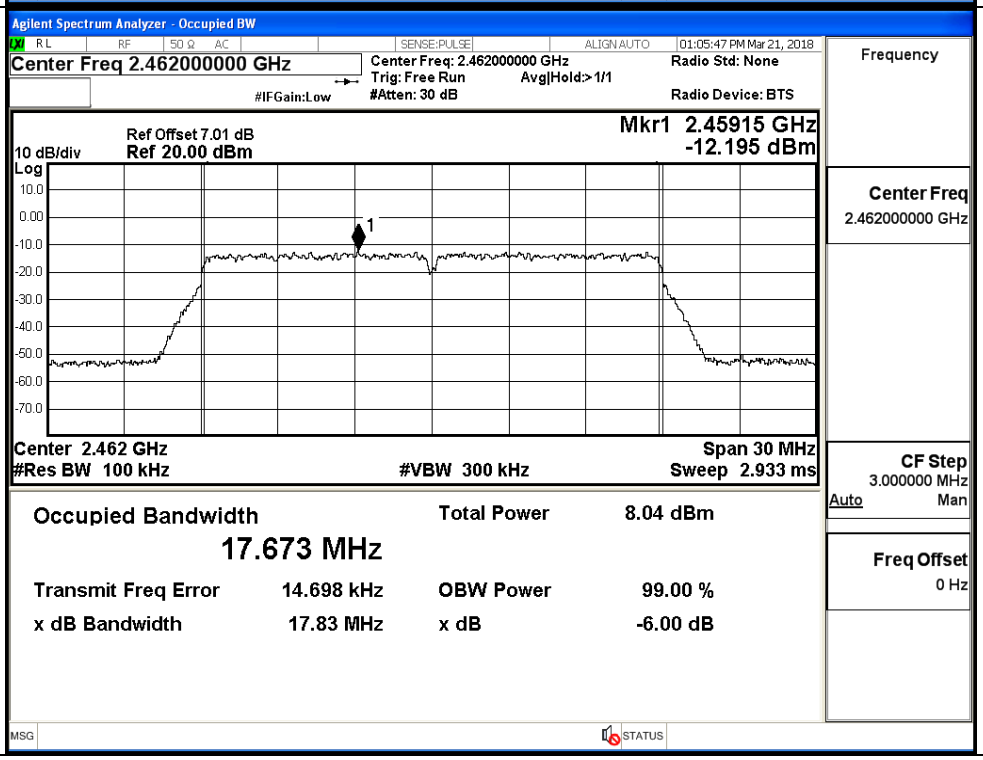
11B/LCH



11B/MCH	
11B/HCH	

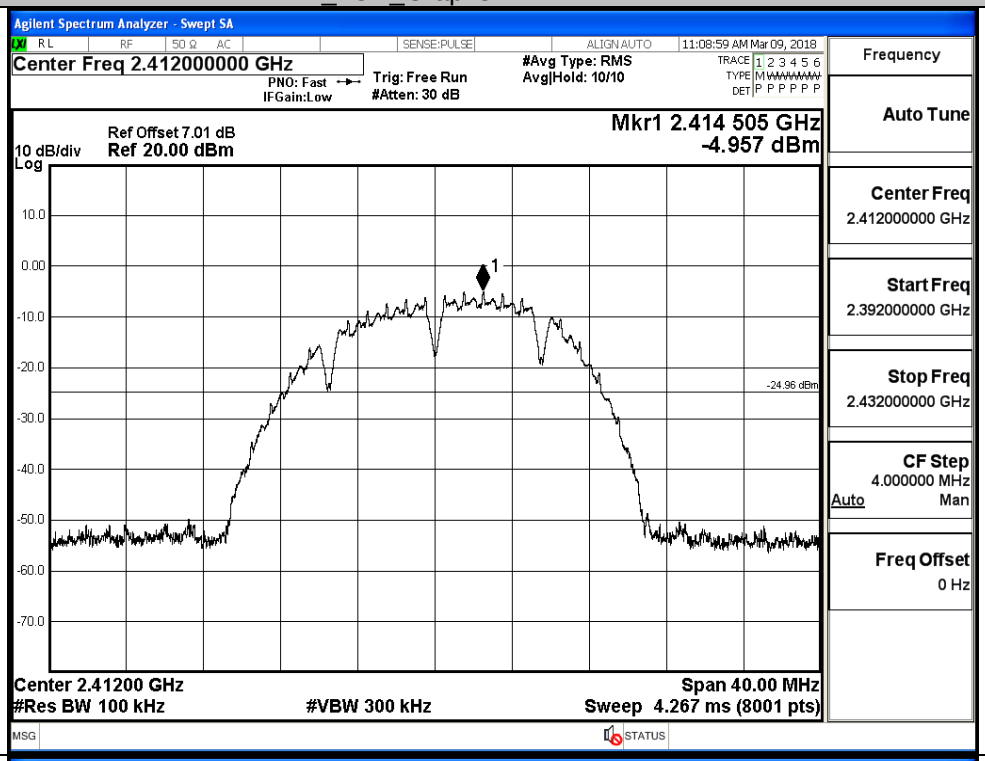
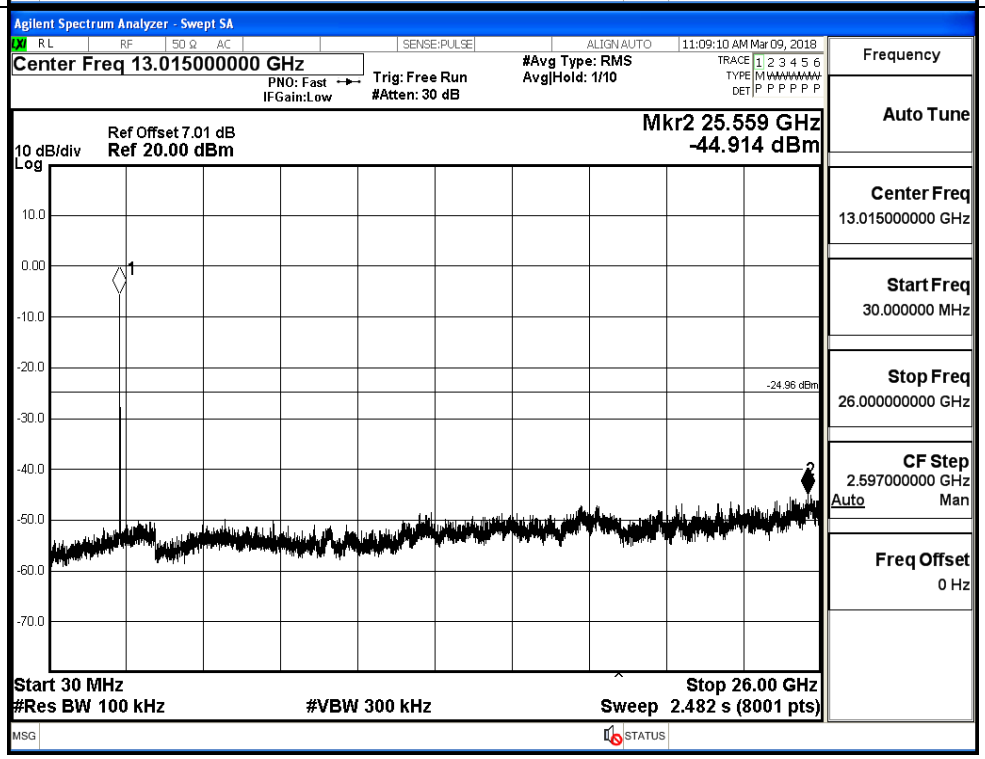
11G/LCH	
11G/MCH	

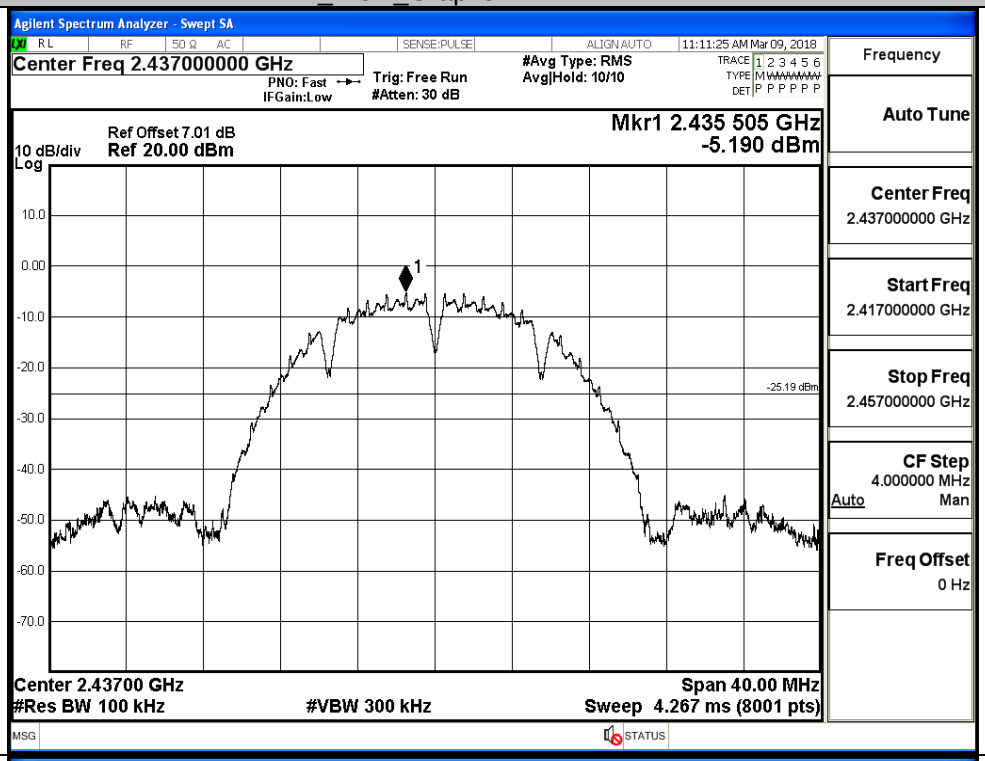
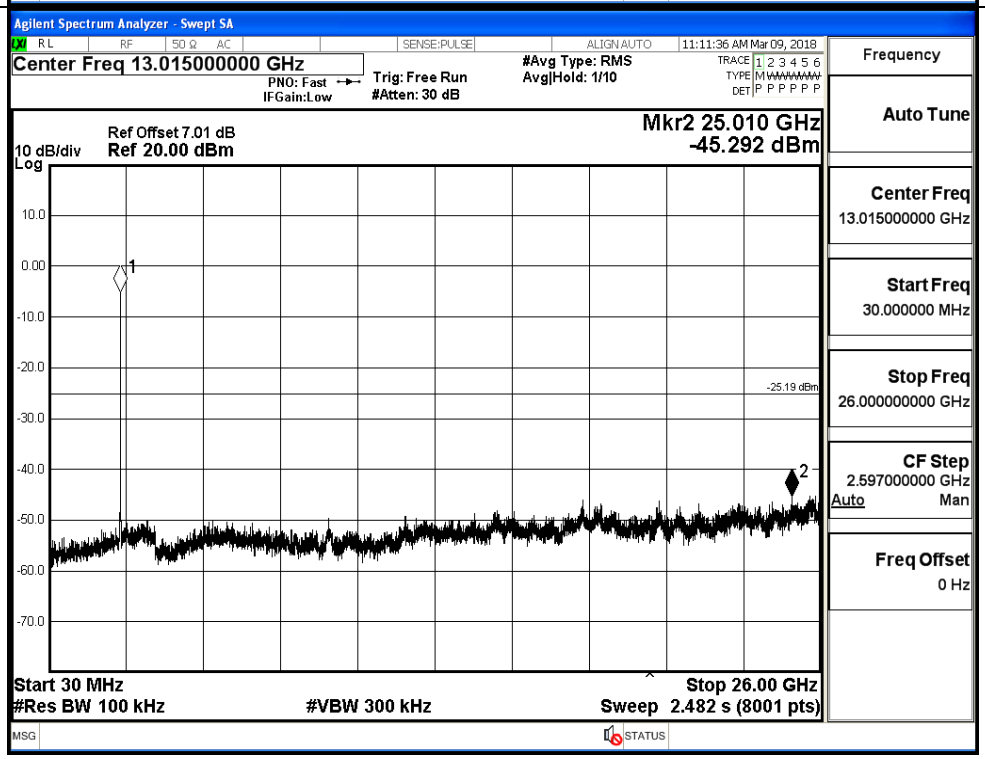
11G/HCH	
11N20SISO/LCH	

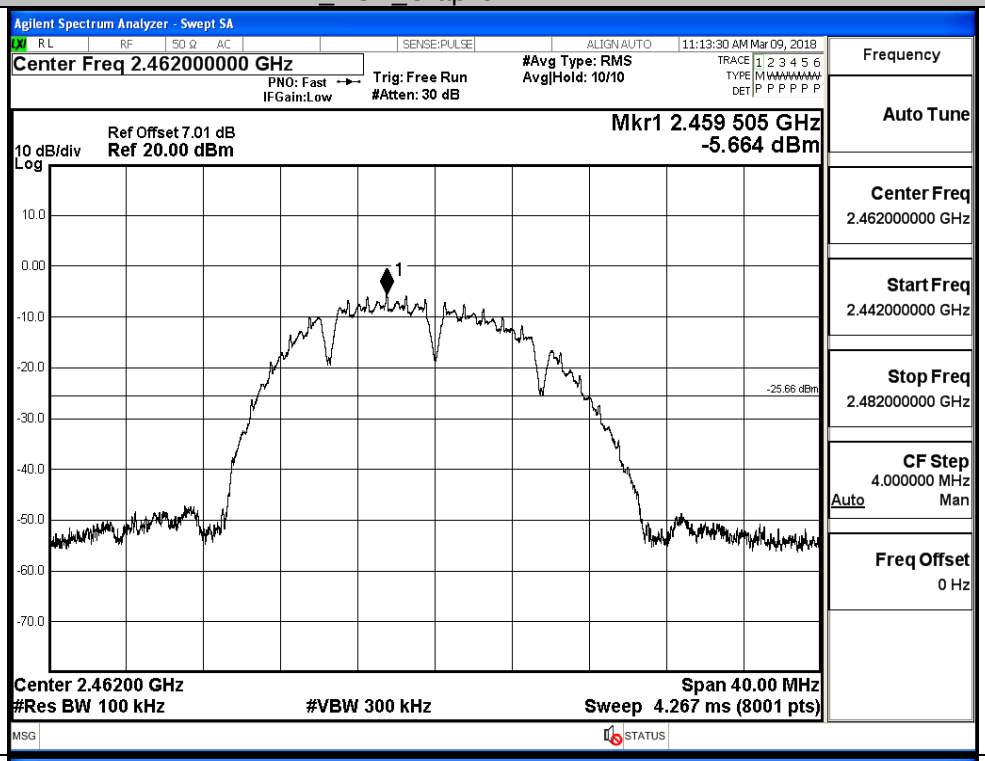
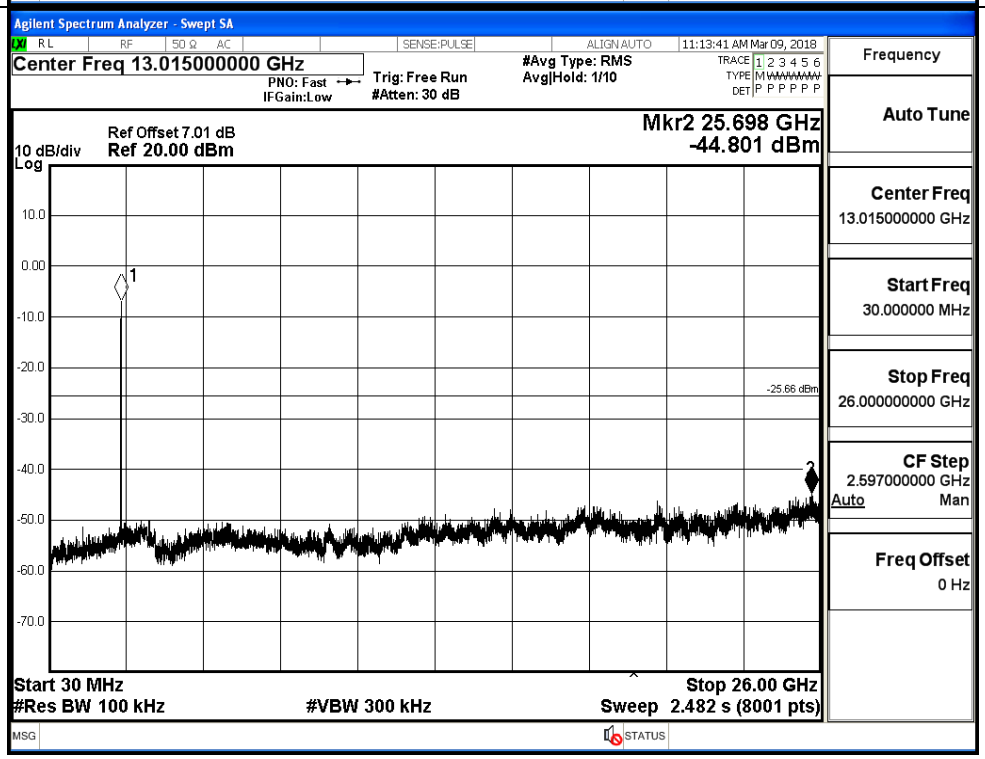
11N20SISO/MCH	
11N20SISO/HCH	

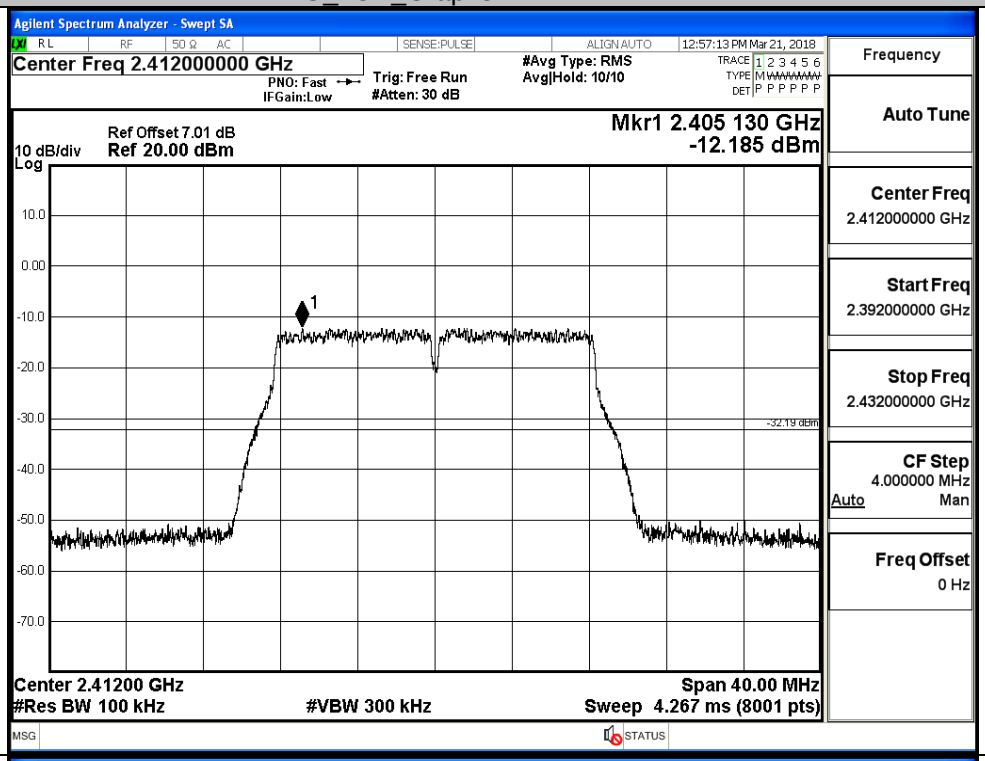
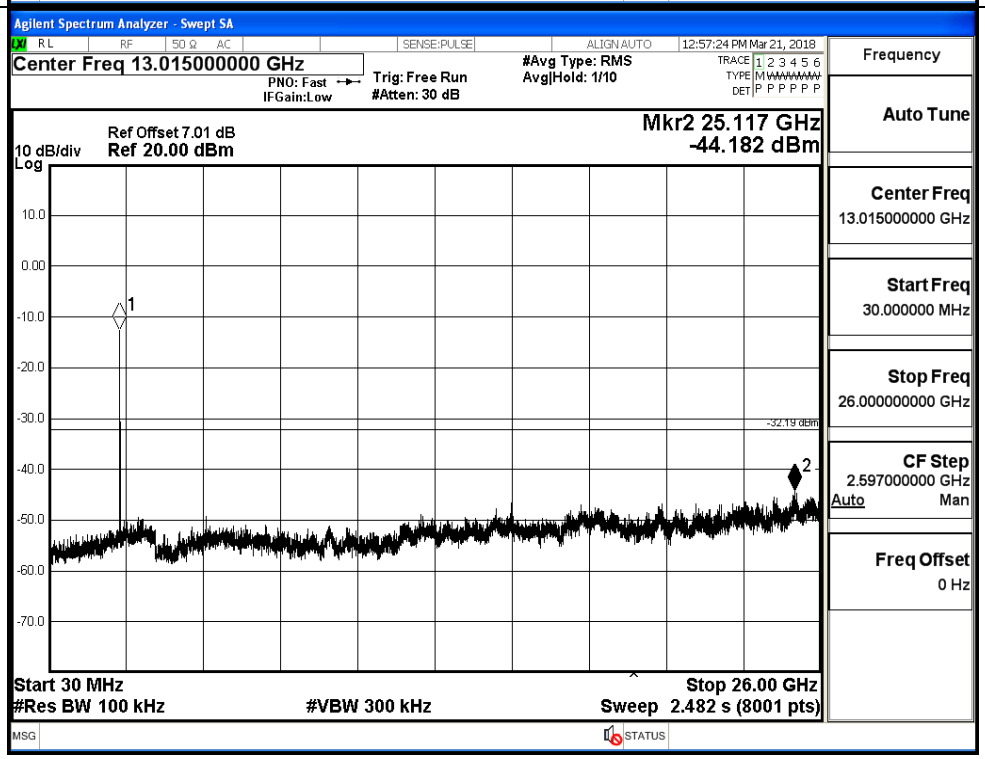
A.4 RF Conducted Spurious Emissions

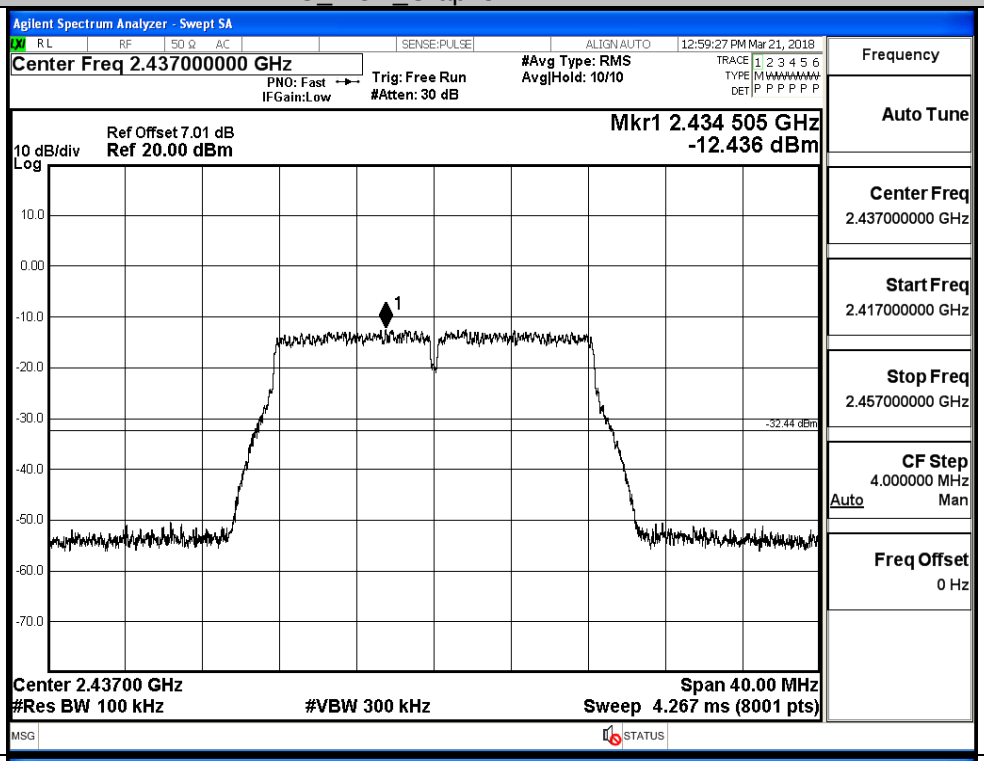
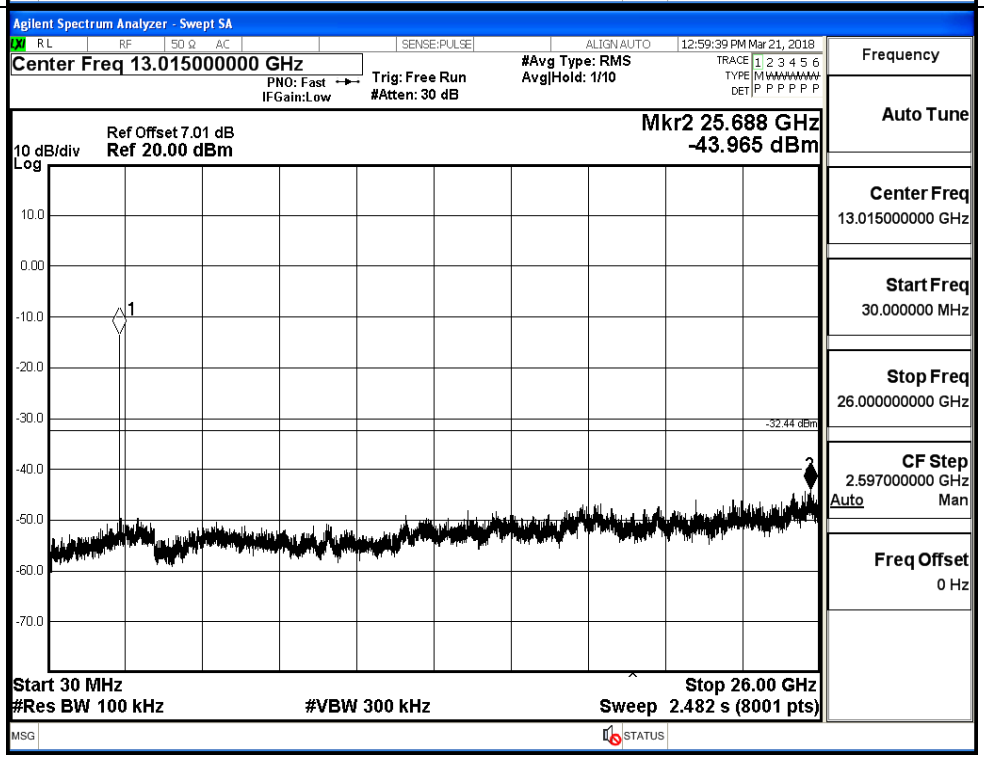
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.957	-44.914	-23.137	PASS
	MCH	-5.19	-45.292	-23.092	PASS
	HCH	-5.664	-44.801	-23.273	PASS
11G	LCH	-12.185	-44.182	-32.185	PASS
	MCH	-12.436	-43.965	-32.436	PASS
	HCH	-12.53	-44.868	-32.530	PASS
11N20 SISO	LCH	-11.839	-44.911	-31.839	PASS
	MCH	-12.516	-42.793	-32.516	PASS
	HCH	-12.366	-44.304	-32.366	PASS

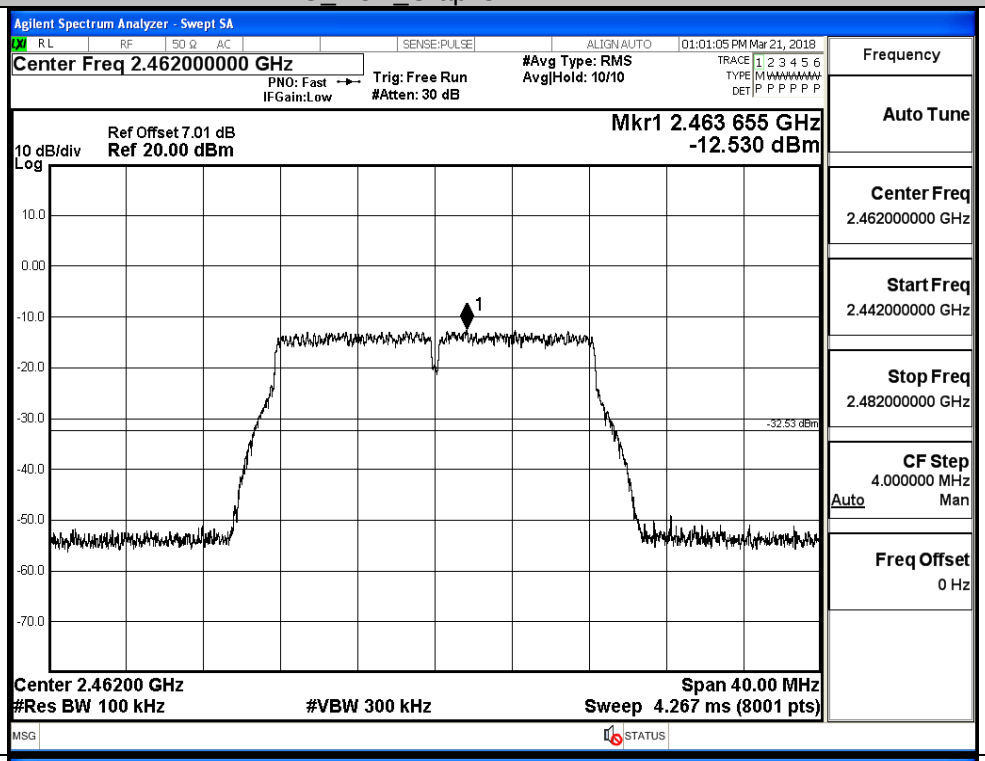
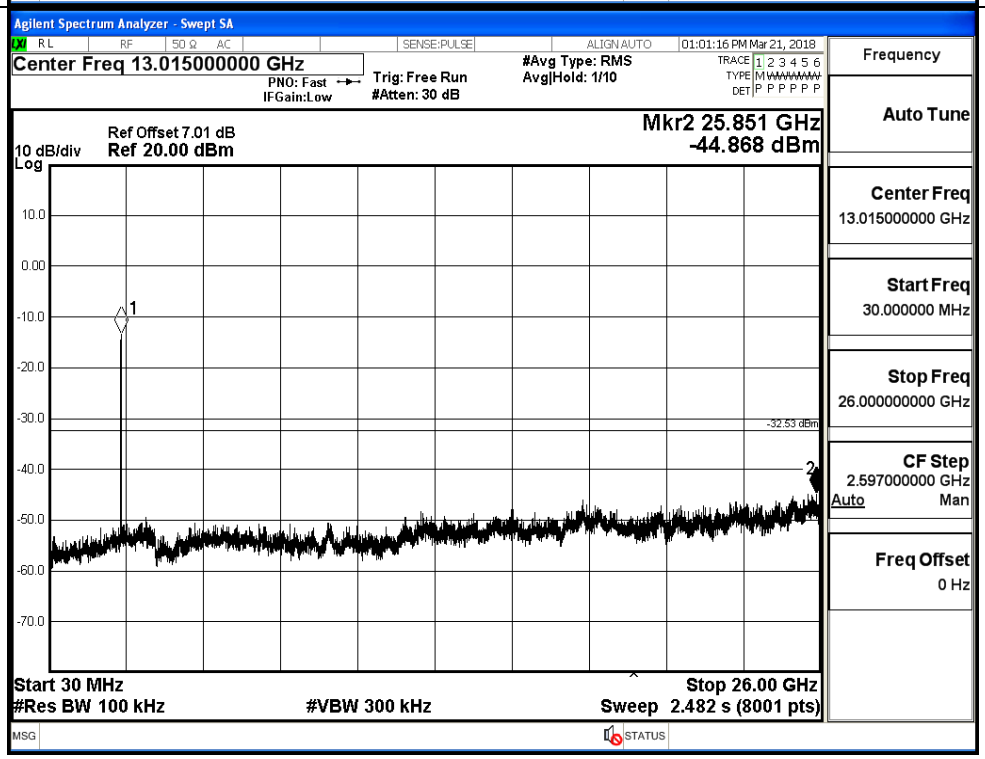
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

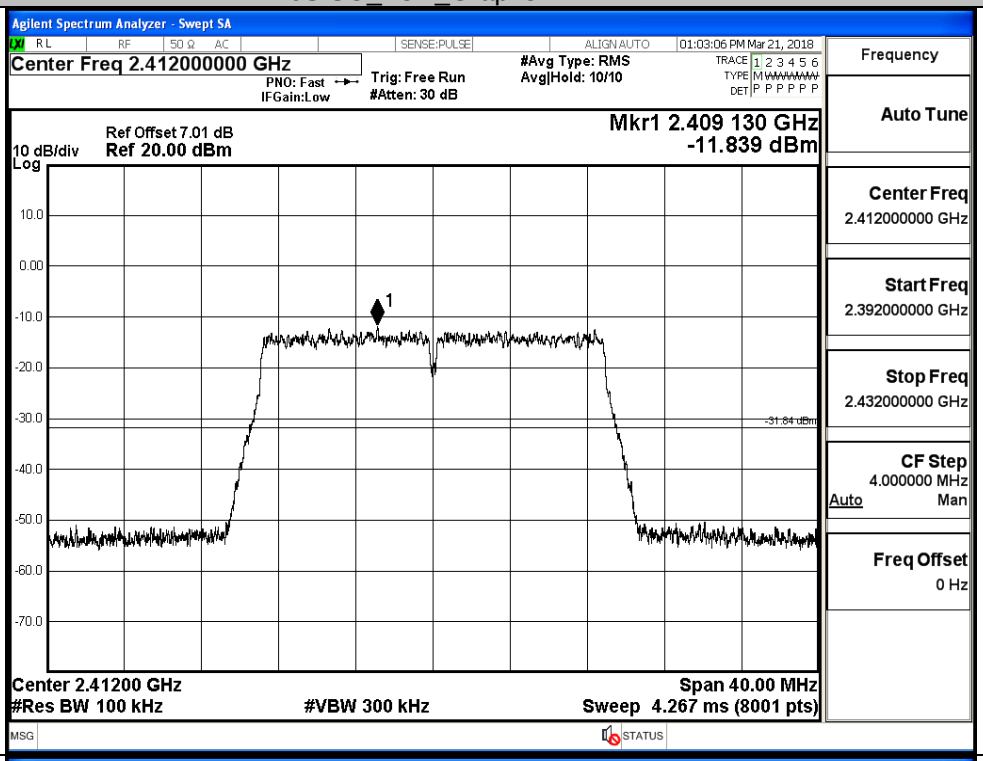
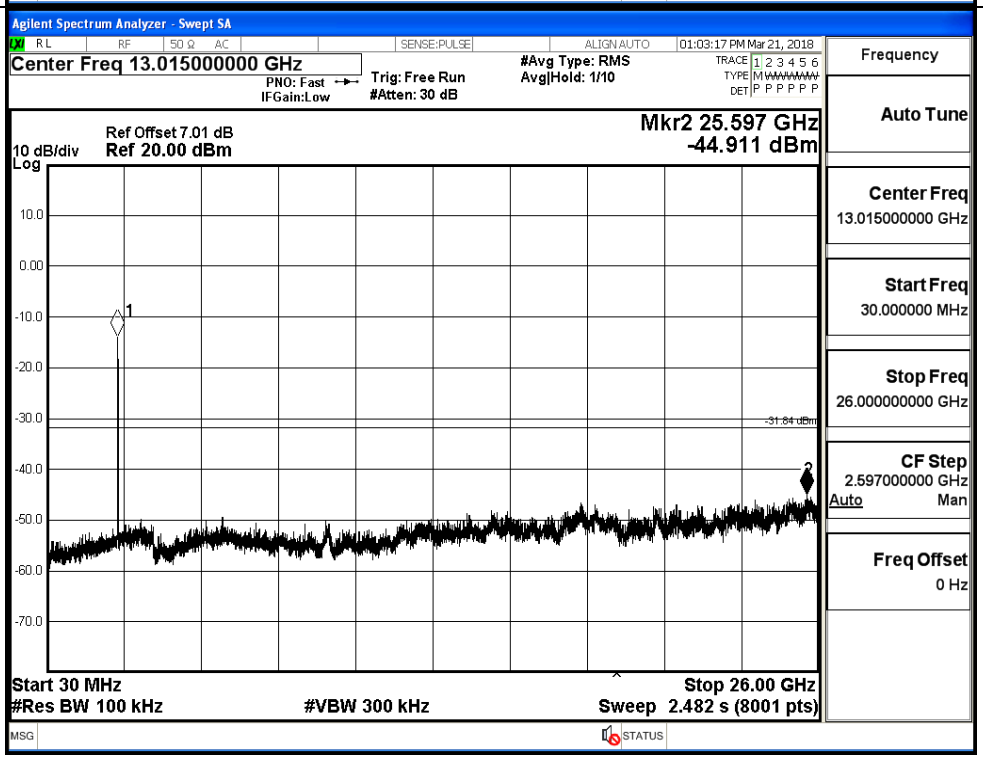
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

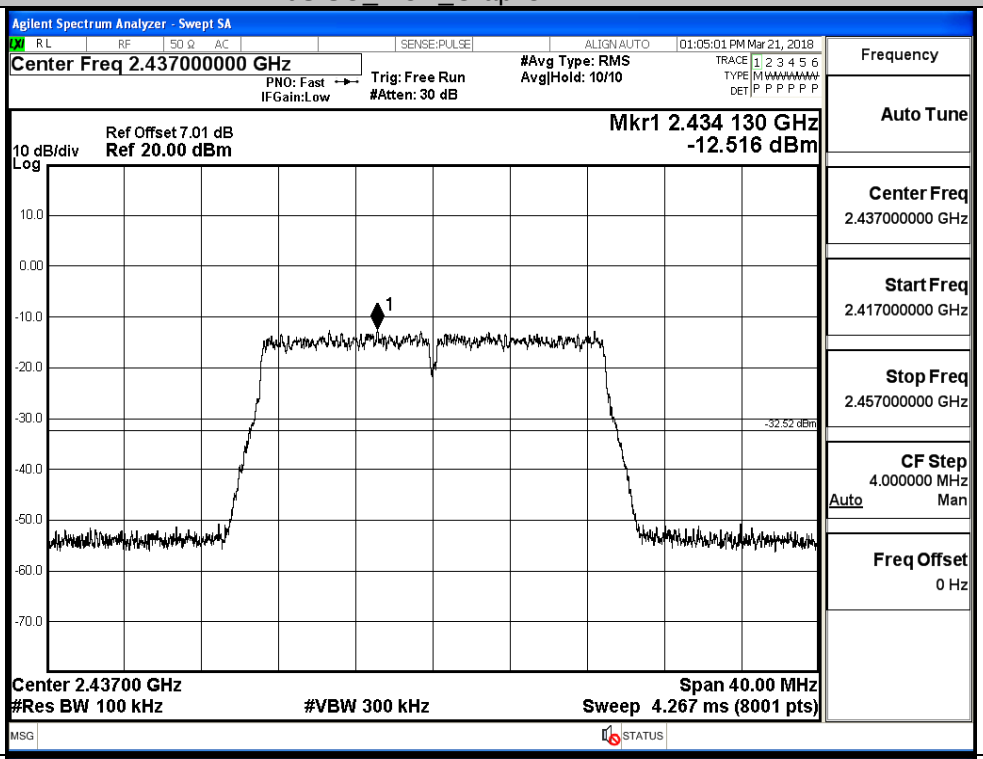
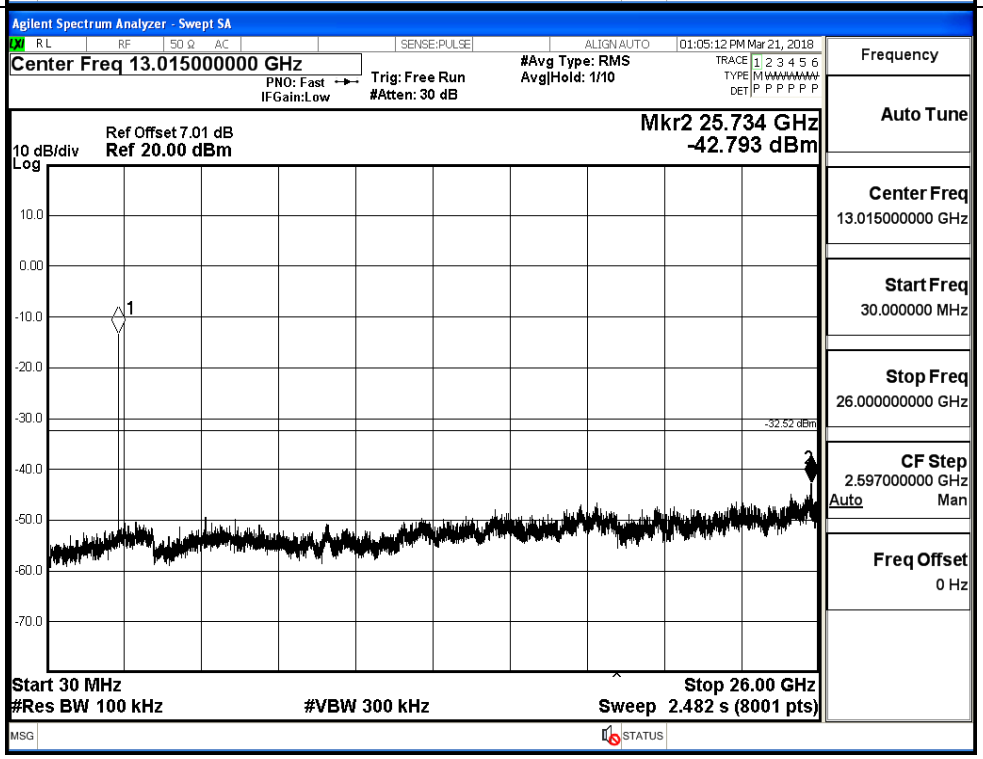
11B_HCH_Graphs	
Pref/11B/HCH	
Puw/11B/HCH	

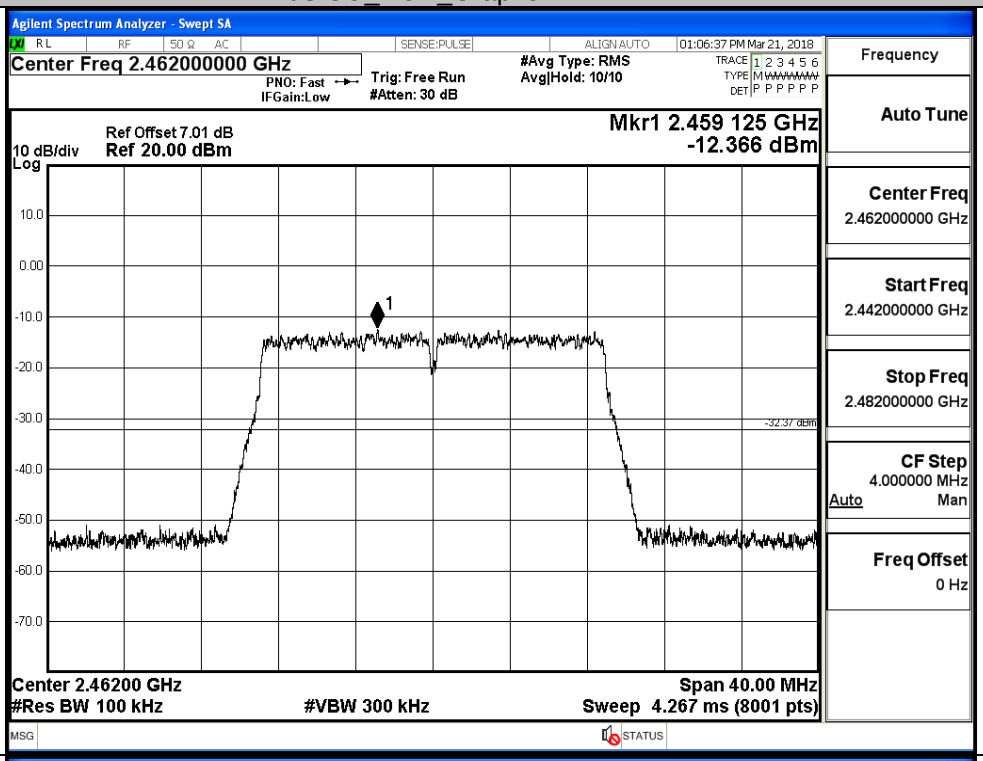
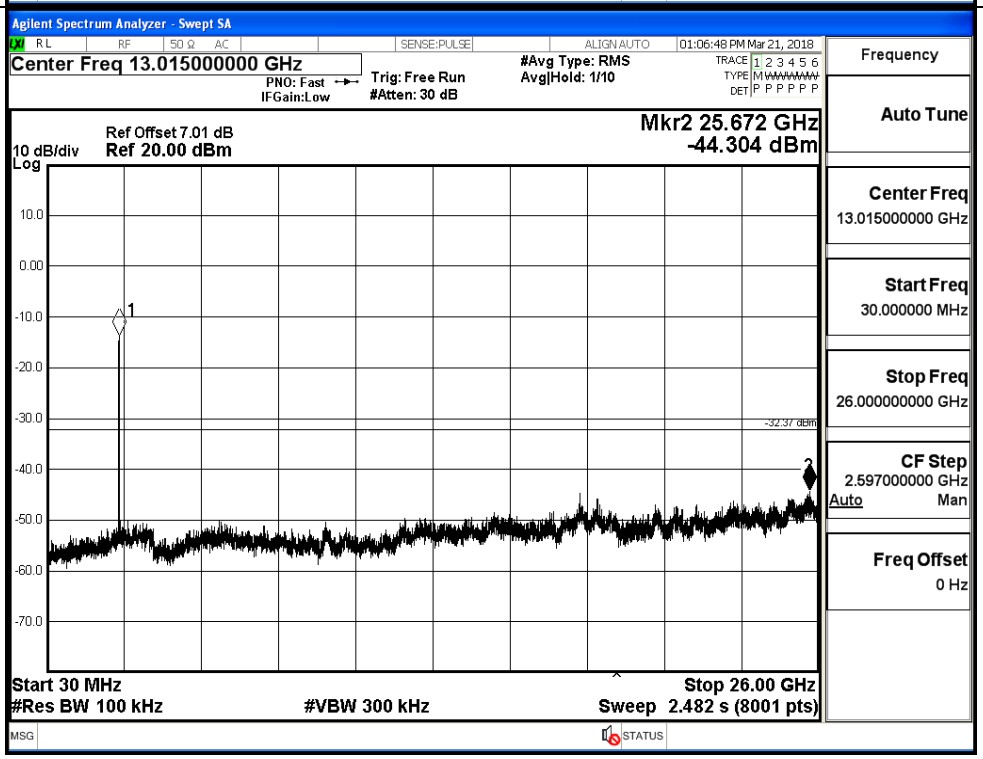
11G_LCH_Graphs	
Pref/11G/LCH	
Puw/11G/LCH	

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

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

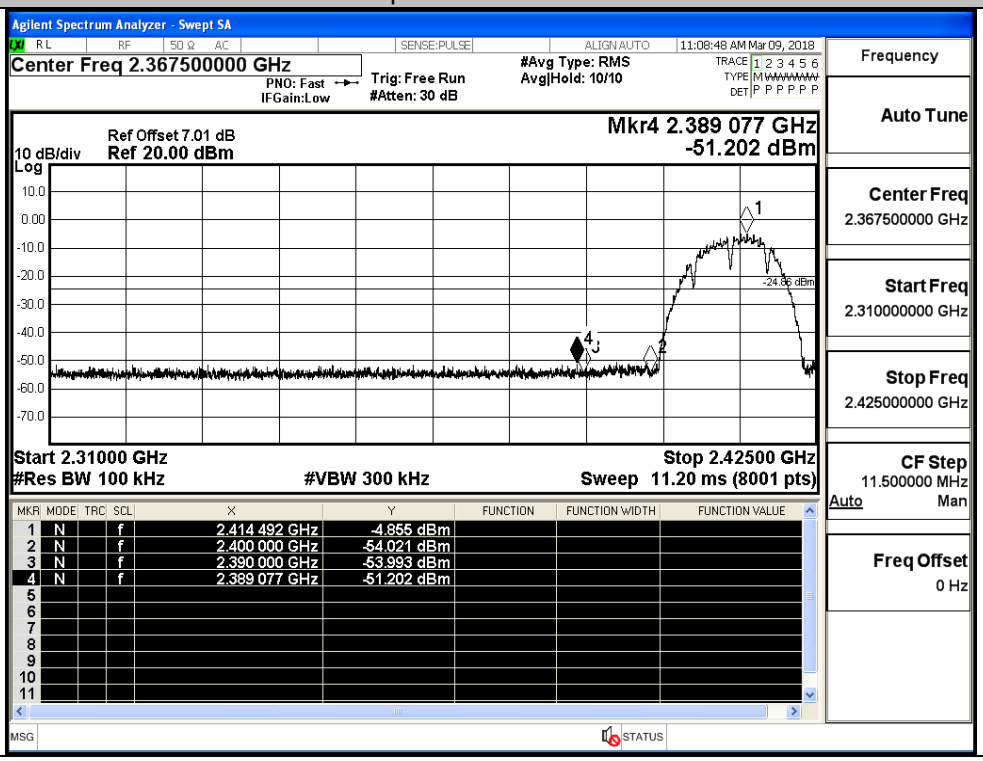
11N20SISO_LCH_Graphs	
Pref/11N20SISO/LCH	
Puw/11N20SISO/LCH	

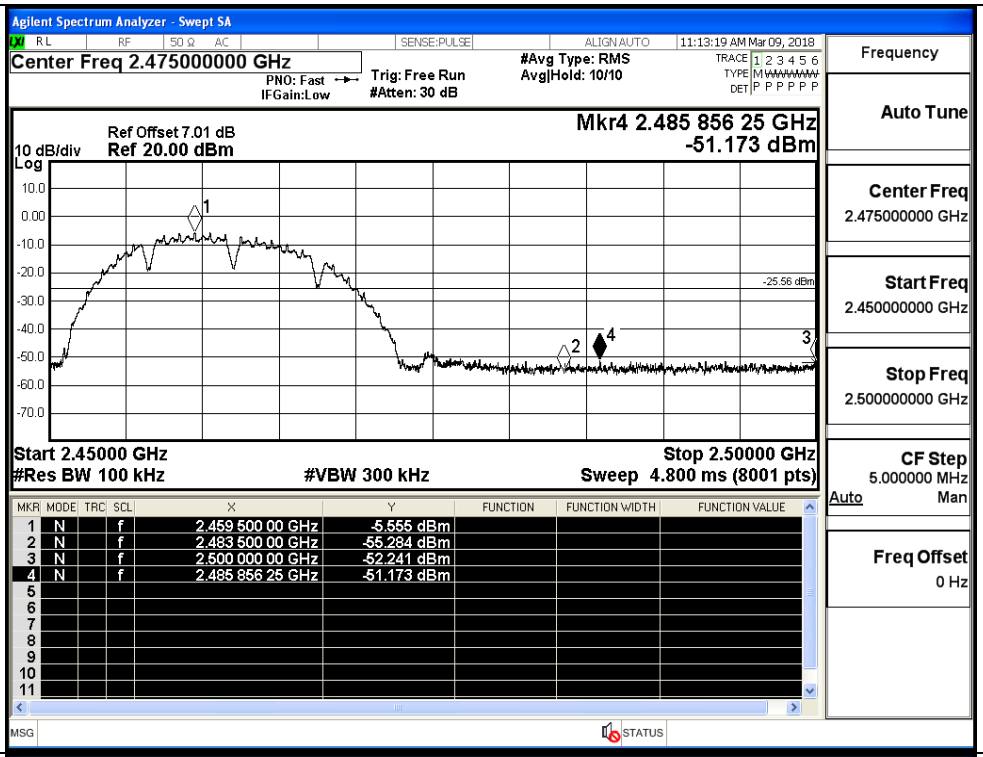
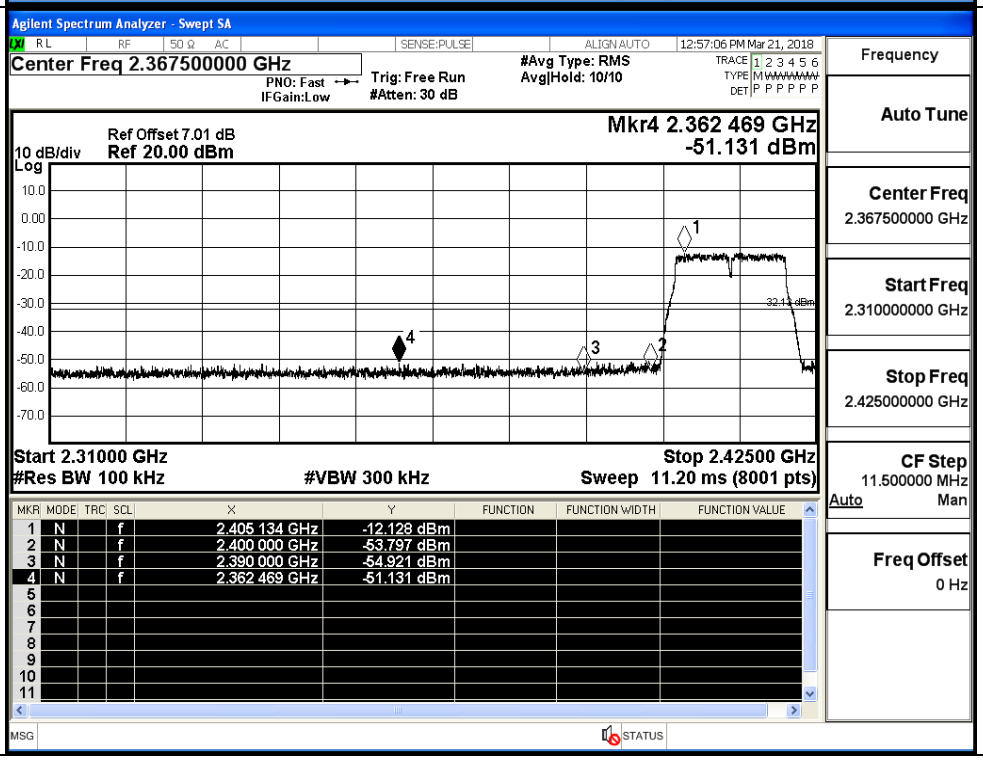
11N20SISO_MCH_Graphs	
Pref/11N20 SISO/MCH	
Puw/11N20 SISO/MCH	

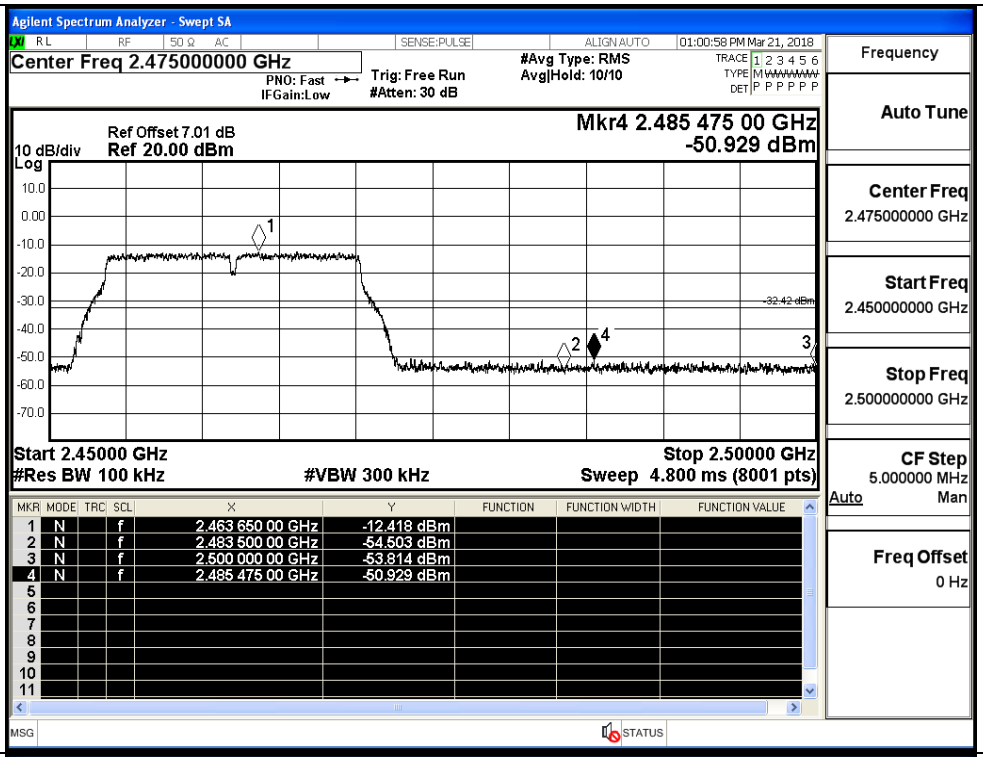
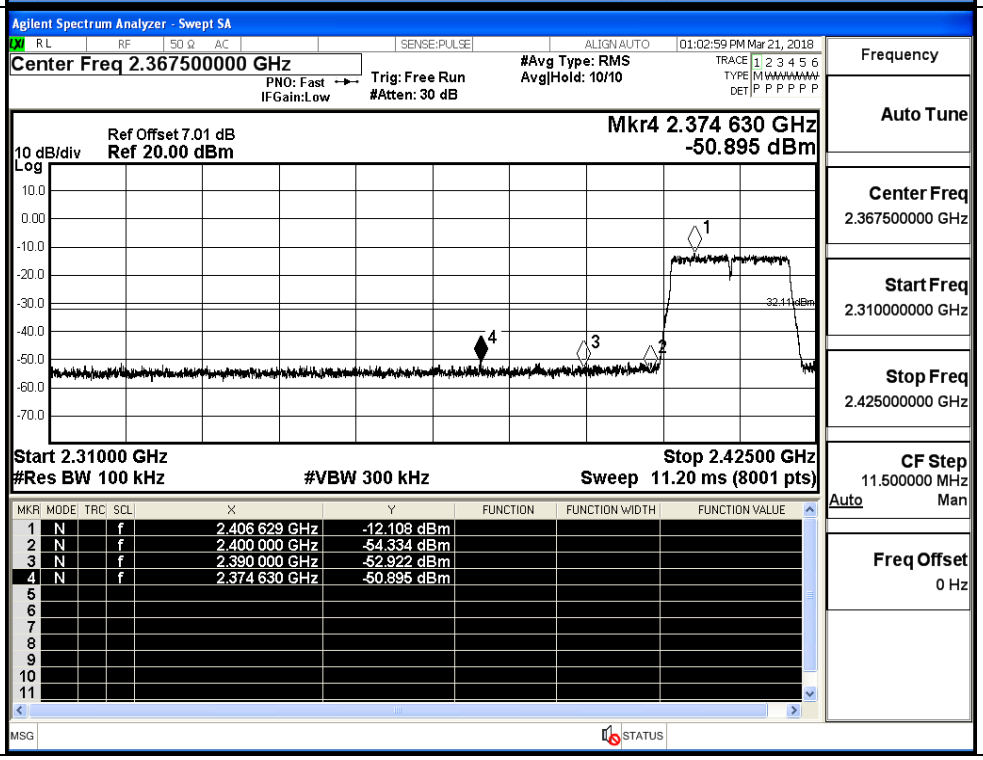
11N20SISO_HCH_Graphs	
Pref/11N20 SISO/HCH	
Puw/11N20 SISO/HCH	

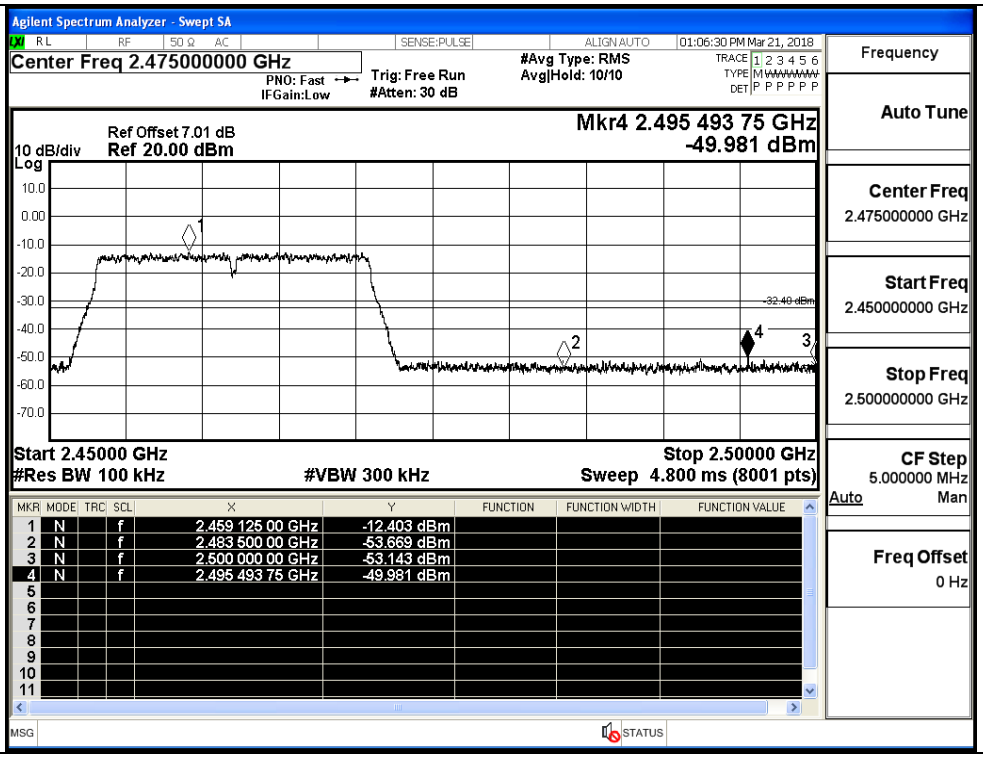
A.5 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.855	-51.202	-24.86	PASS
	HCH	-5.555	-51.173	-25.56	PASS
11G	LCH	-12.128	-51.131	-32.13	PASS
	HCH	-12.418	-50.929	-32.42	PASS
11N20SISO	LCH	-12.108	-50.895	-32.11	PASS
	HCH	-12.403	-49.981	-32.4	PASS

Test Graphs	
11B/LCH	

11B/HCH	
11G/LCH	

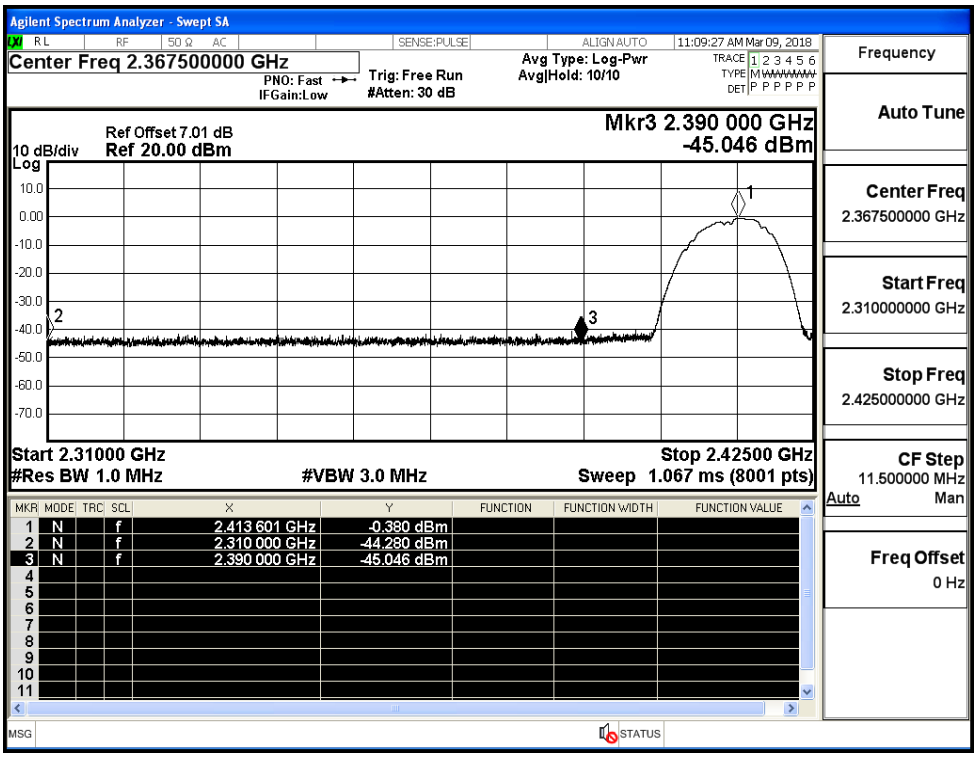
11G/HCH	
11N20SISO/LCH	

11N20SISO/HCH	

A.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	-44.28	2.64	0	53.56	PEAK	74	PASS
	2412	Ant1	2310.0	-54.99	2.64	0	42.85	AV	54	PASS
	2412	Ant1	2390.0	-45.05	2.64	0	52.79	PEAK	74	PASS
	2412	Ant1	2390.0	-54.64	2.64	0	43.20	AV	54	PASS
	2462	Ant1	2483.5	-43.51	2.64	0	54.33	PEAK	74	PASS
	2462	Ant1	2483.5	-54.44	2.64	0	43.40	AV	54	PASS
	2462	Ant1	2500.0	-43.74	2.64	0	54.10	PEAK	74	PASS
	2462	Ant1	2500.0	-54.39	2.64	0	43.45	AV	54	PASS
11G	2412	Ant1	2310.0	-44.84	2.64	0	53.00	PEAK	74	PASS
	2412	Ant1	2310.0	-55.13	2.64	0	42.71	AV	54	PASS
	2412	Ant1	2390.0	-43.41	2.64	0	54.43	PEAK	74	PASS
	2412	Ant1	2390.0	-54.48	2.64	0	43.36	AV	54	PASS
	2462	Ant1	2483.5	-42.76	2.64	0	55.08	PEAK	74	PASS
	2462	Ant1	2483.5	-54.26	2.64	0	43.58	AV	54	PASS
	2462	Ant1	2500.0	-42.55	2.64	0	55.29	PEAK	74	PASS
	2462	Ant1	2500.0	-54.29	2.64	0	43.55	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.40	2.64	0	54.44	PEAK	74	PASS
	2412	Ant1	2310.0	-55.12	2.64	0	42.72	AV	54	PASS
	2412	Ant1	2390.0	-42.66	2.64	0	55.18	PEAK	74	PASS
	2412	Ant1	2390.0	-54.36	2.64	0	43.48	AV	54	PASS
	2462	Ant1	2483.5	-43.80	2.64	0	54.04	PEAK	74	PASS
	2462	Ant1	2483.5	-54.25	2.64	0	43.59	AV	54	PASS
	2462	Ant1	2500.0	-43.86	2.64	0	53.98	PEAK	74	PASS
	2462	Ant1	2500.0	-54.27	2.64	0	43.57	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



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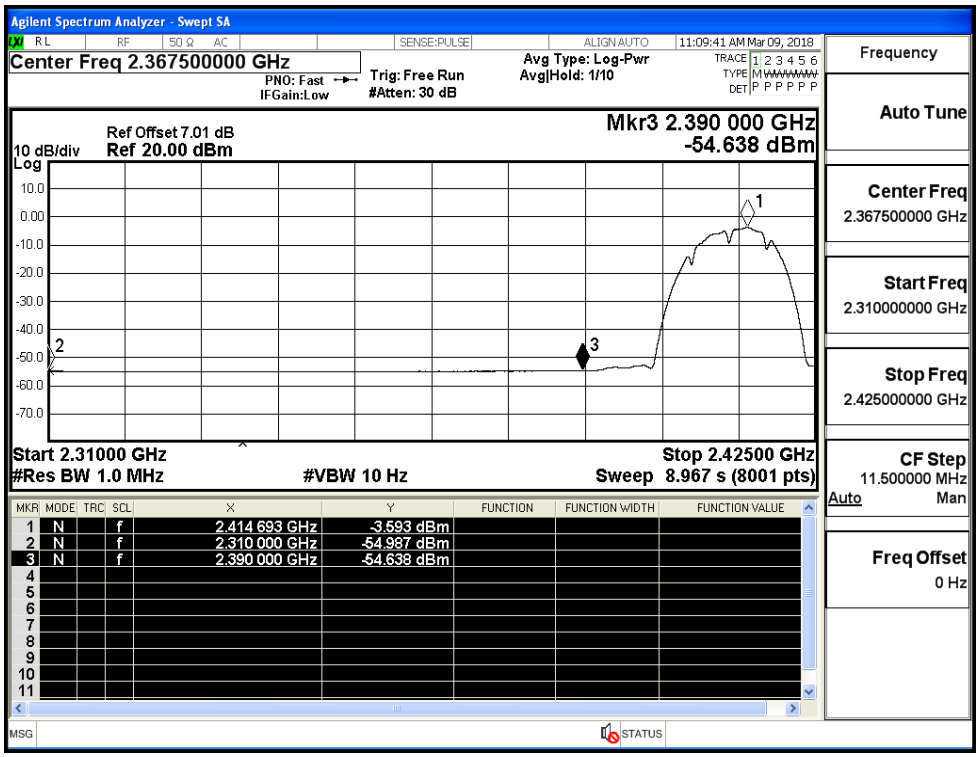

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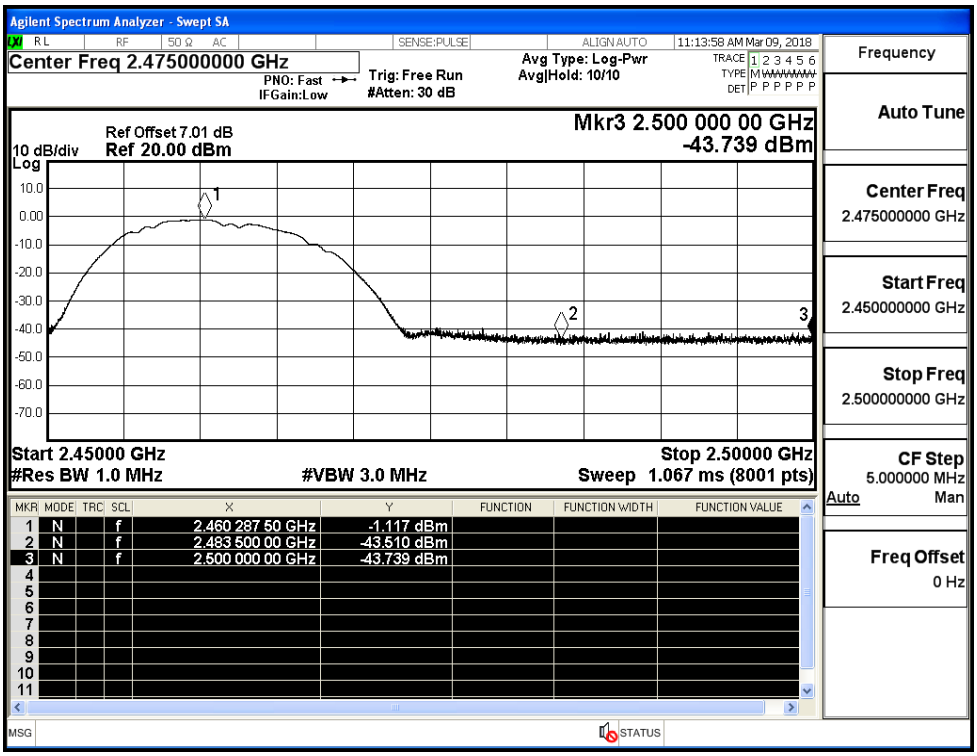

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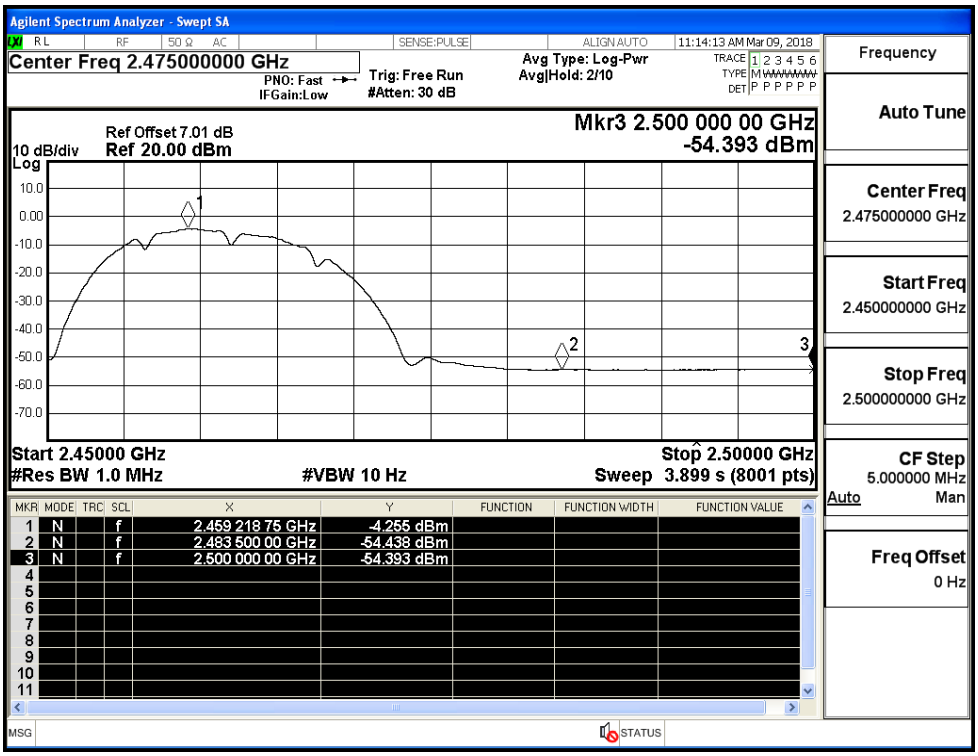

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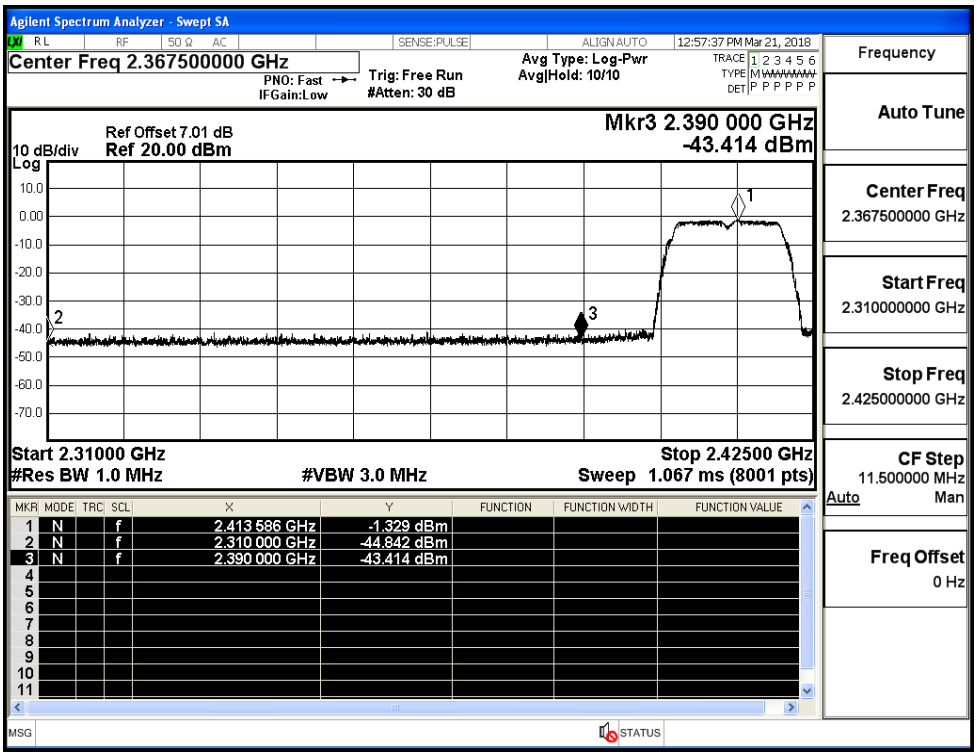

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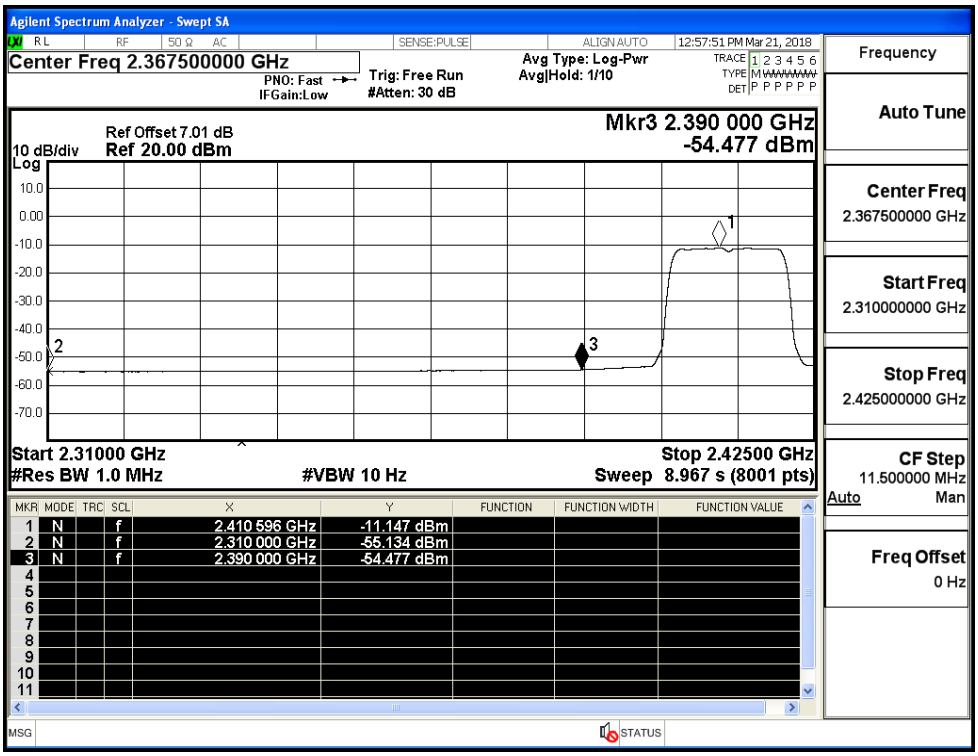
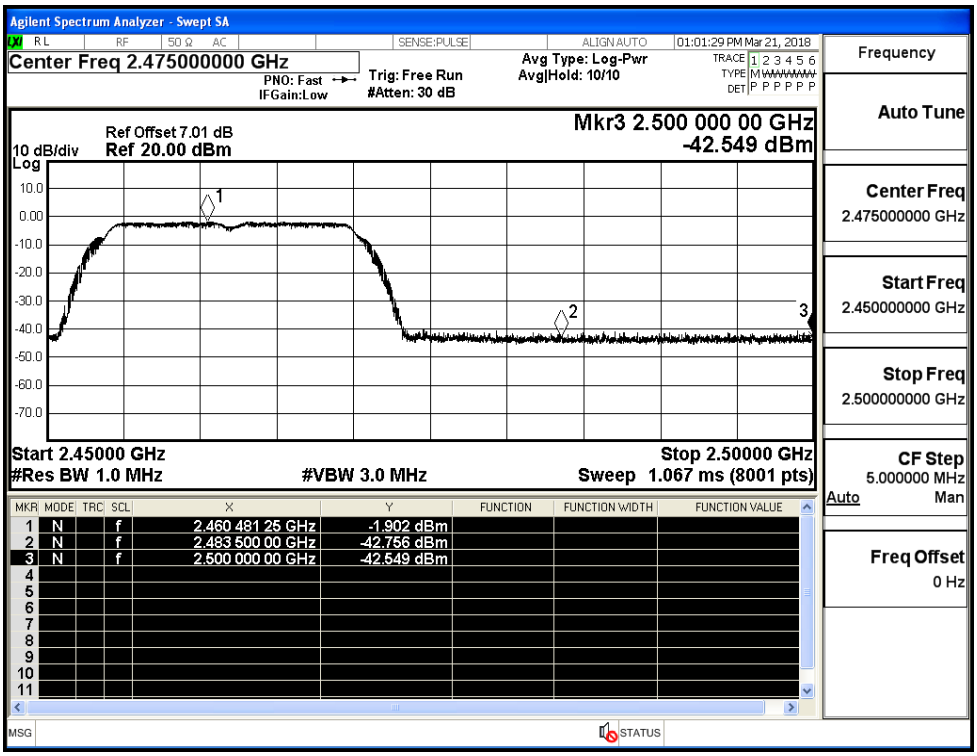


Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



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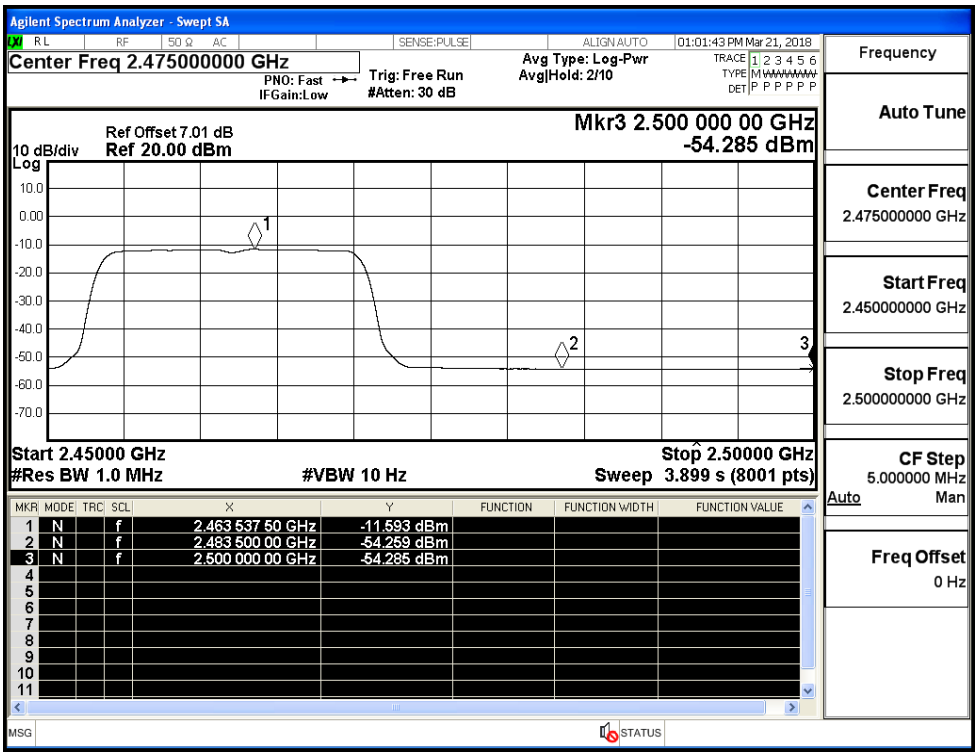

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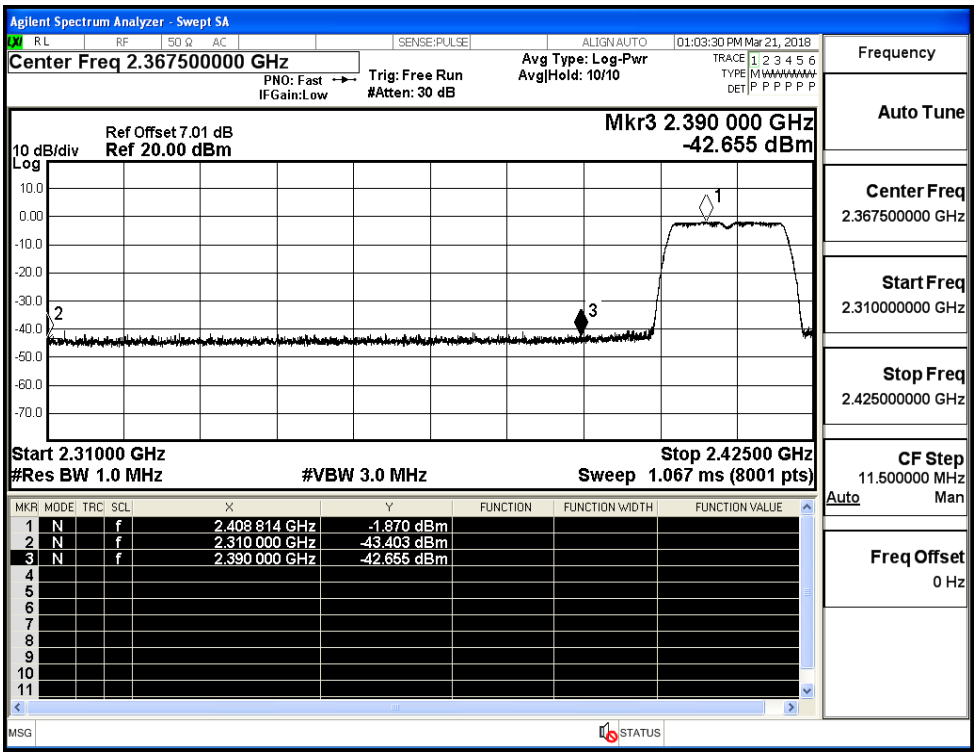

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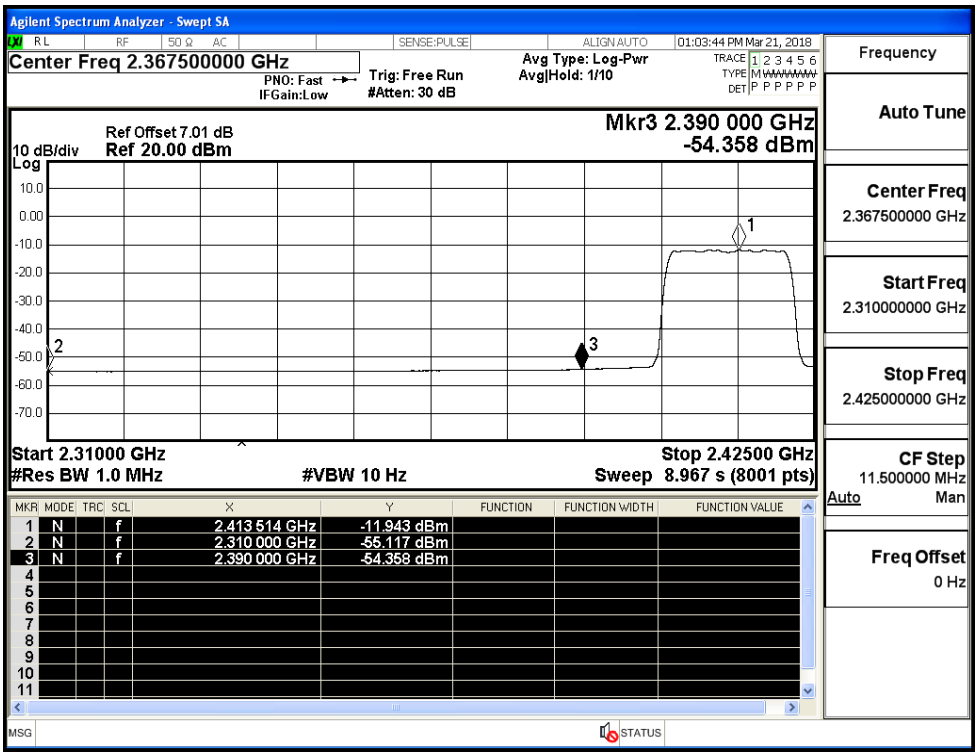

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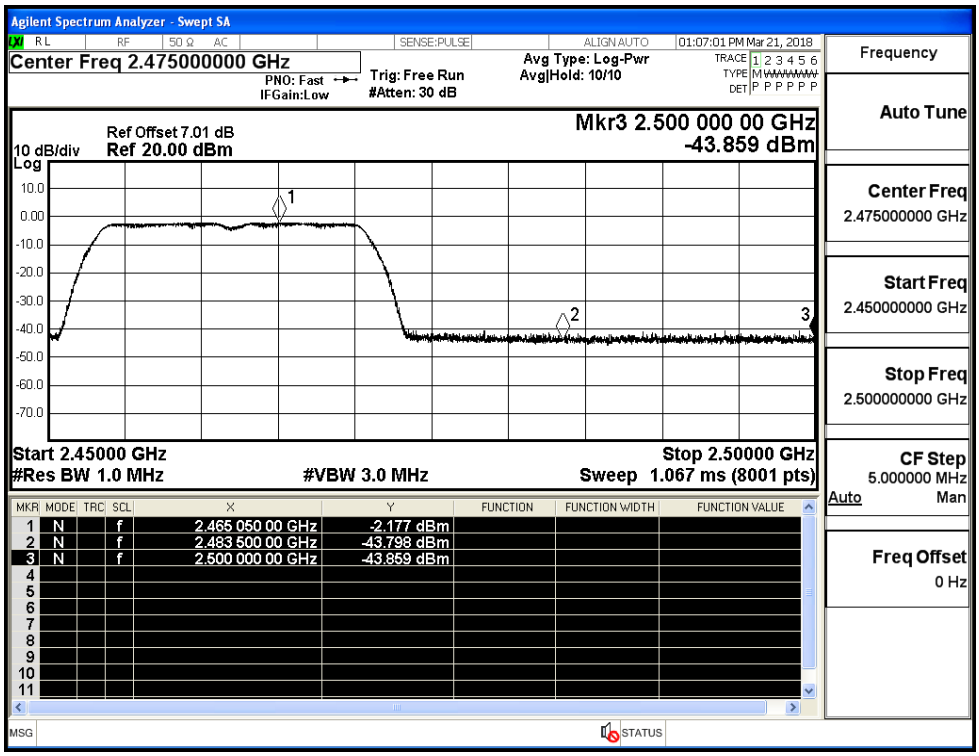

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV