

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Action Camera

Trade Mark: GURUGEAR™

Test Model: B1KS+

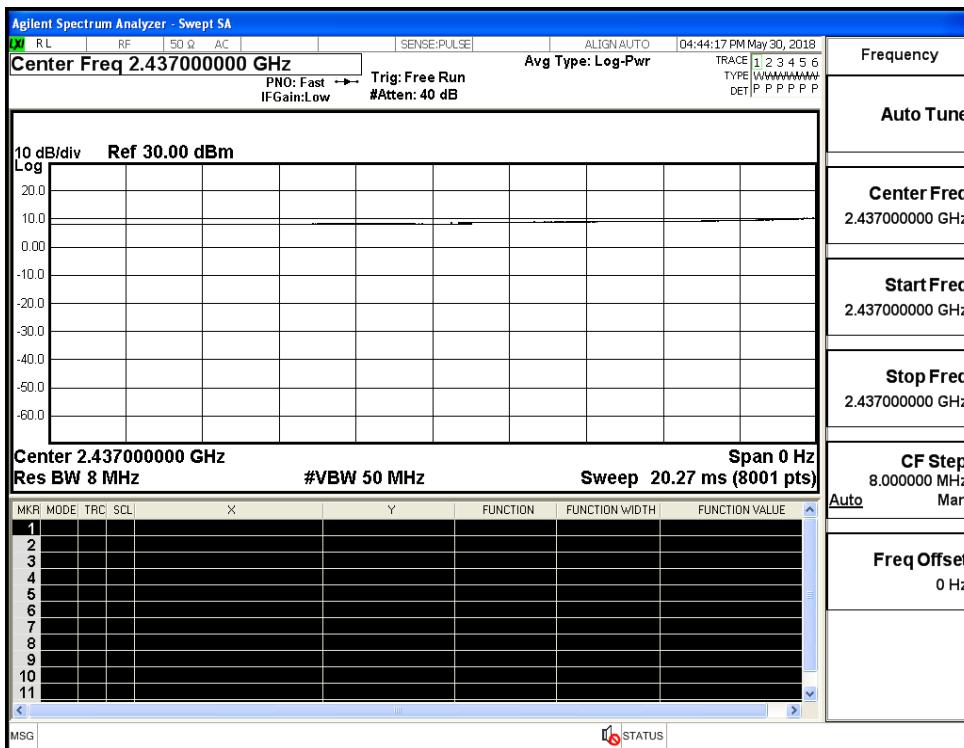
Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Jayden.Zhuo

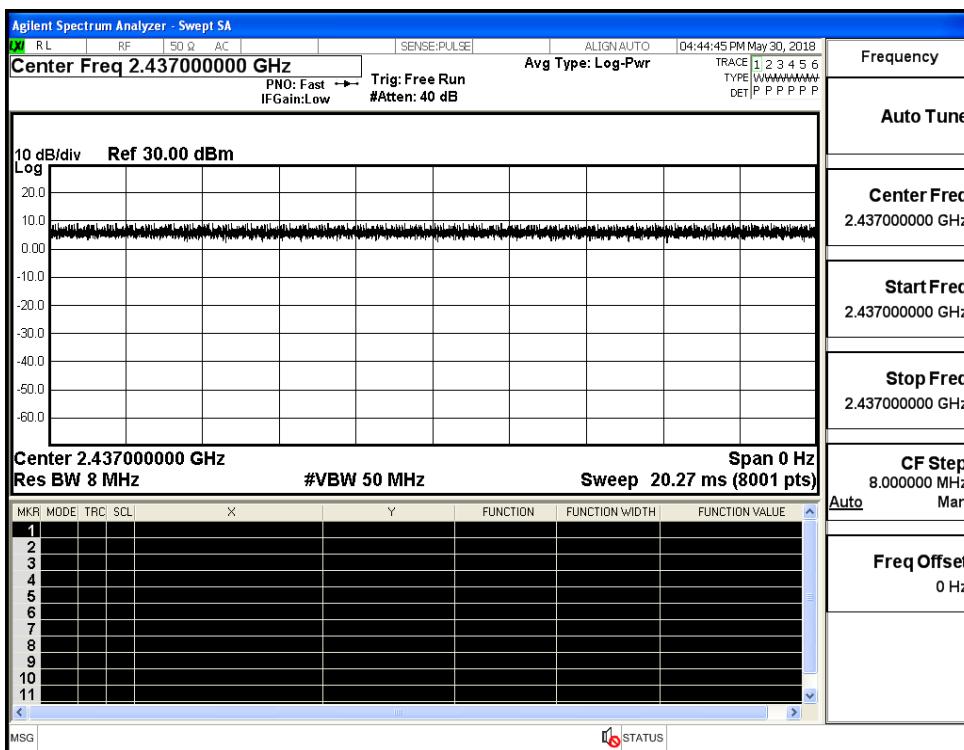
C.1 Duty Cycle

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

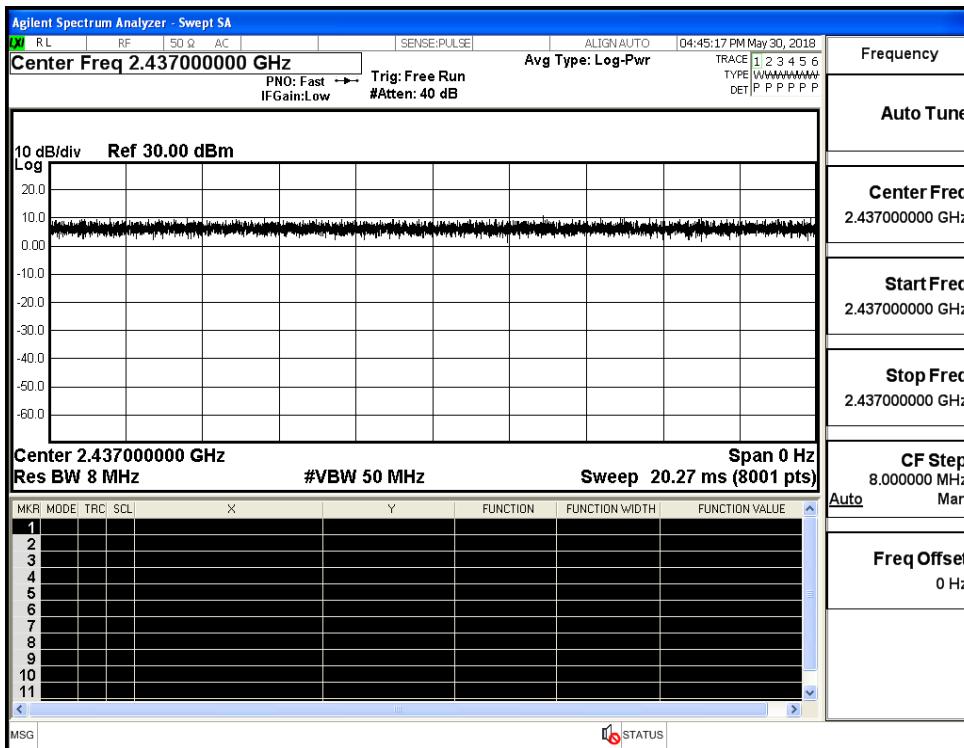
Duty Cycle_11B_2437_Ant1



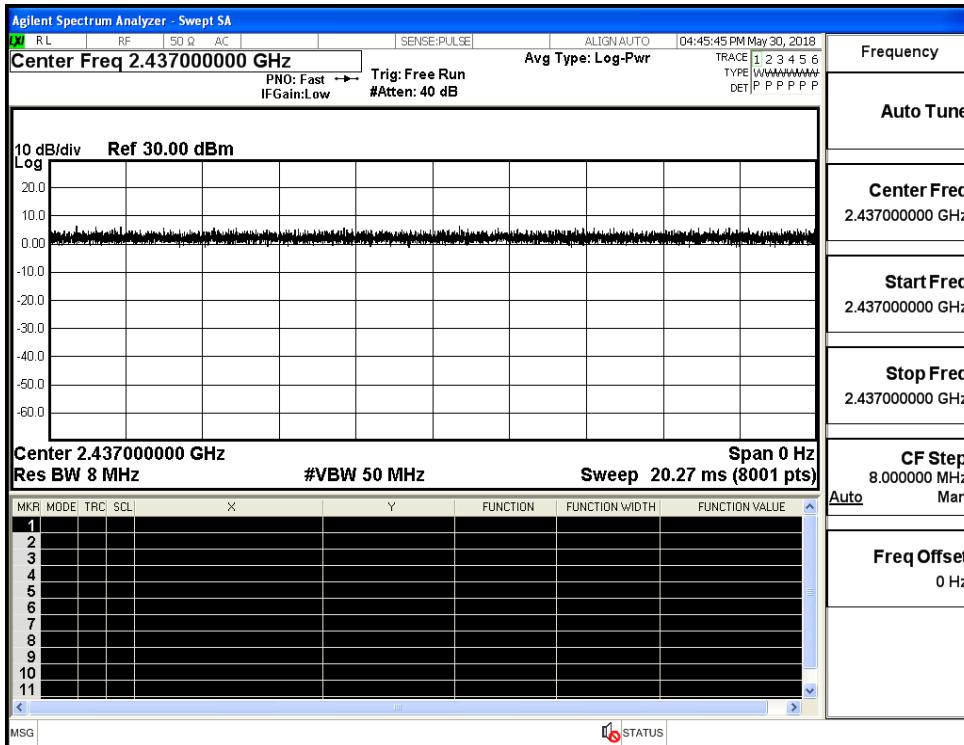
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

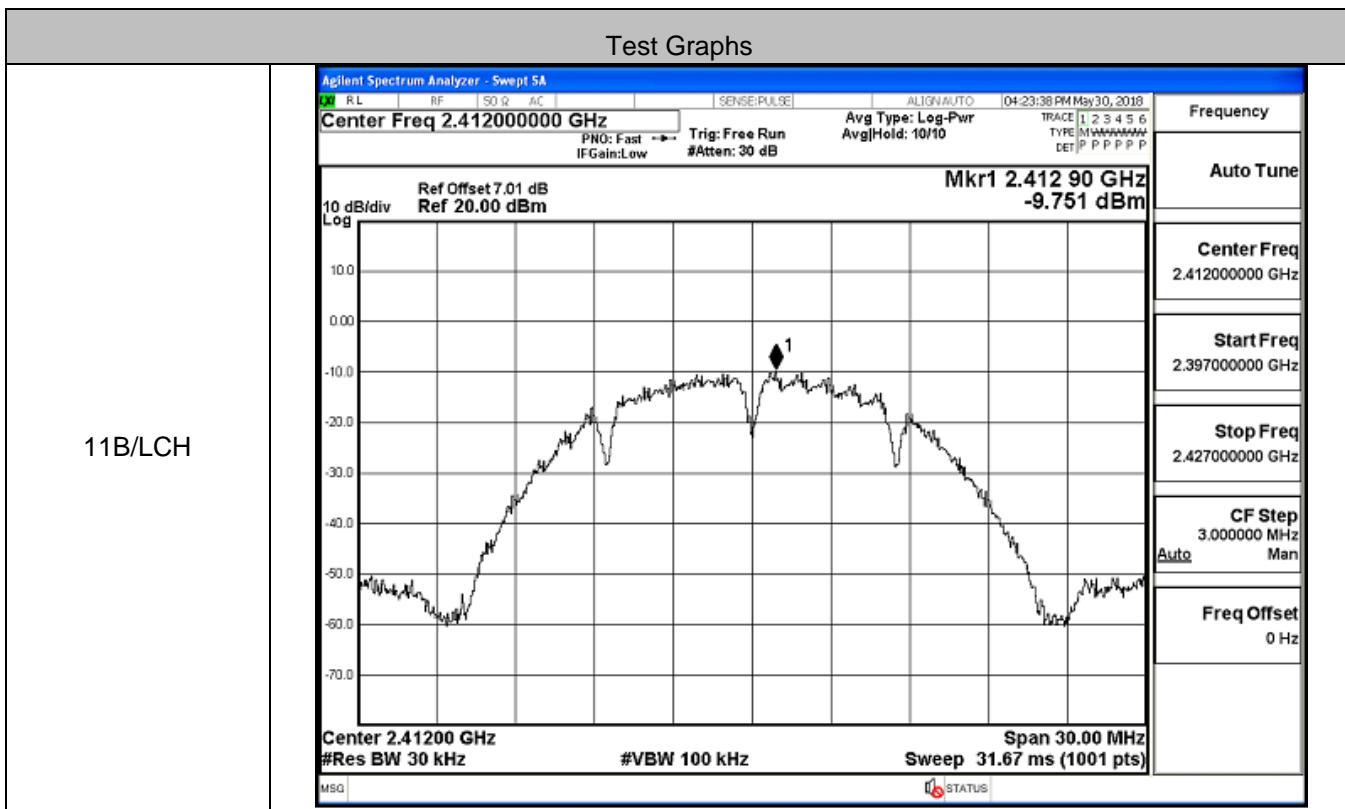


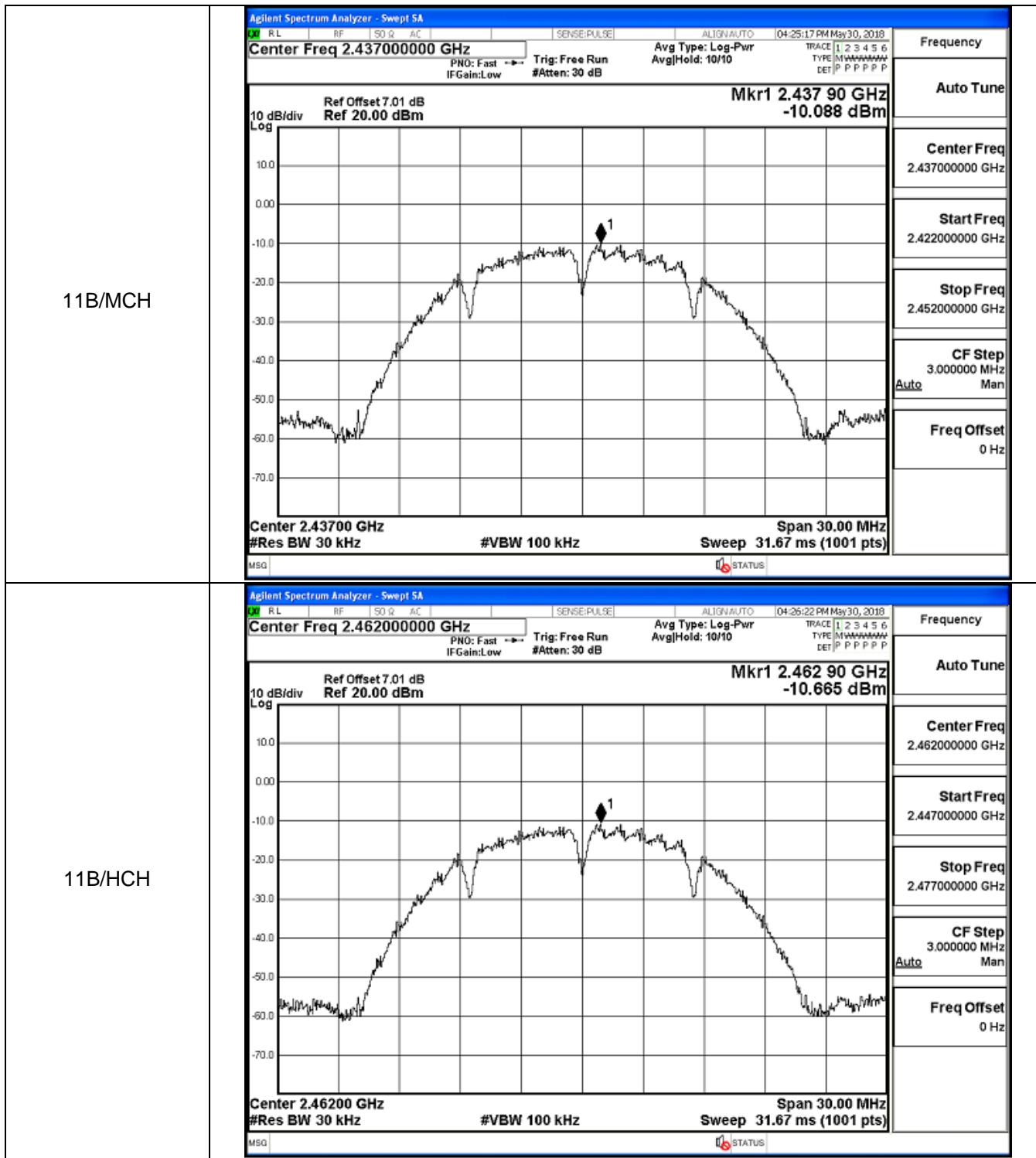
C.2 Maximum Conducted Output Power

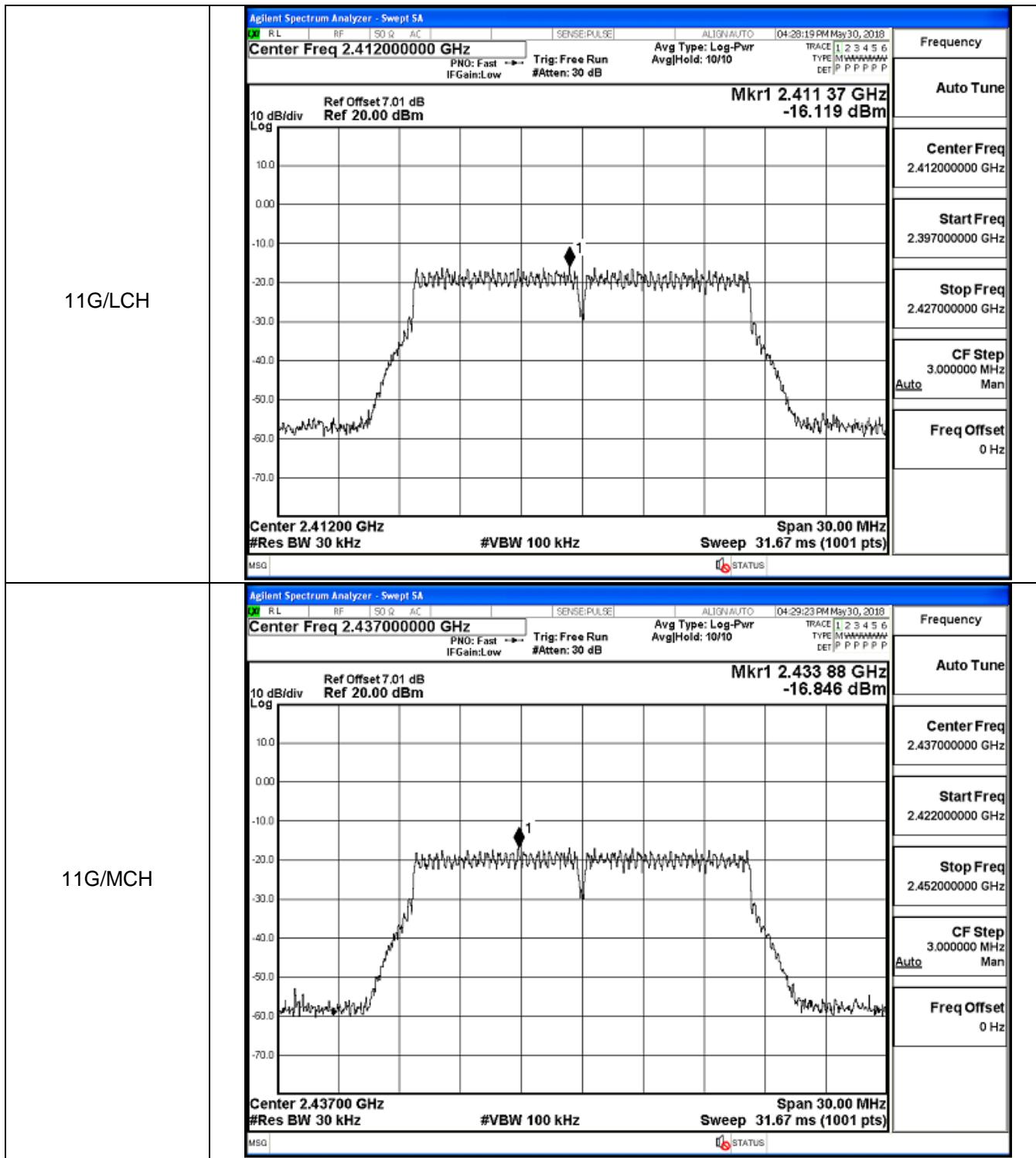
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	8.29	30	PASS
	MCH	8.25	30	PASS
	HCH	8.34	30	PASS
11G	LCH	8.13	30	PASS
	MCH	8.18	30	PASS
	HCH	8.24	30	PASS
11N20SISO	LCH	8.28	30	PASS
	MCH	8.32	30	PASS
	HCH	8.22	30	PASS
11N40SISO	LCH	7.65	30	PASS
	MCH	7.87	30	PASS
	HCH	7.69	30	PASS

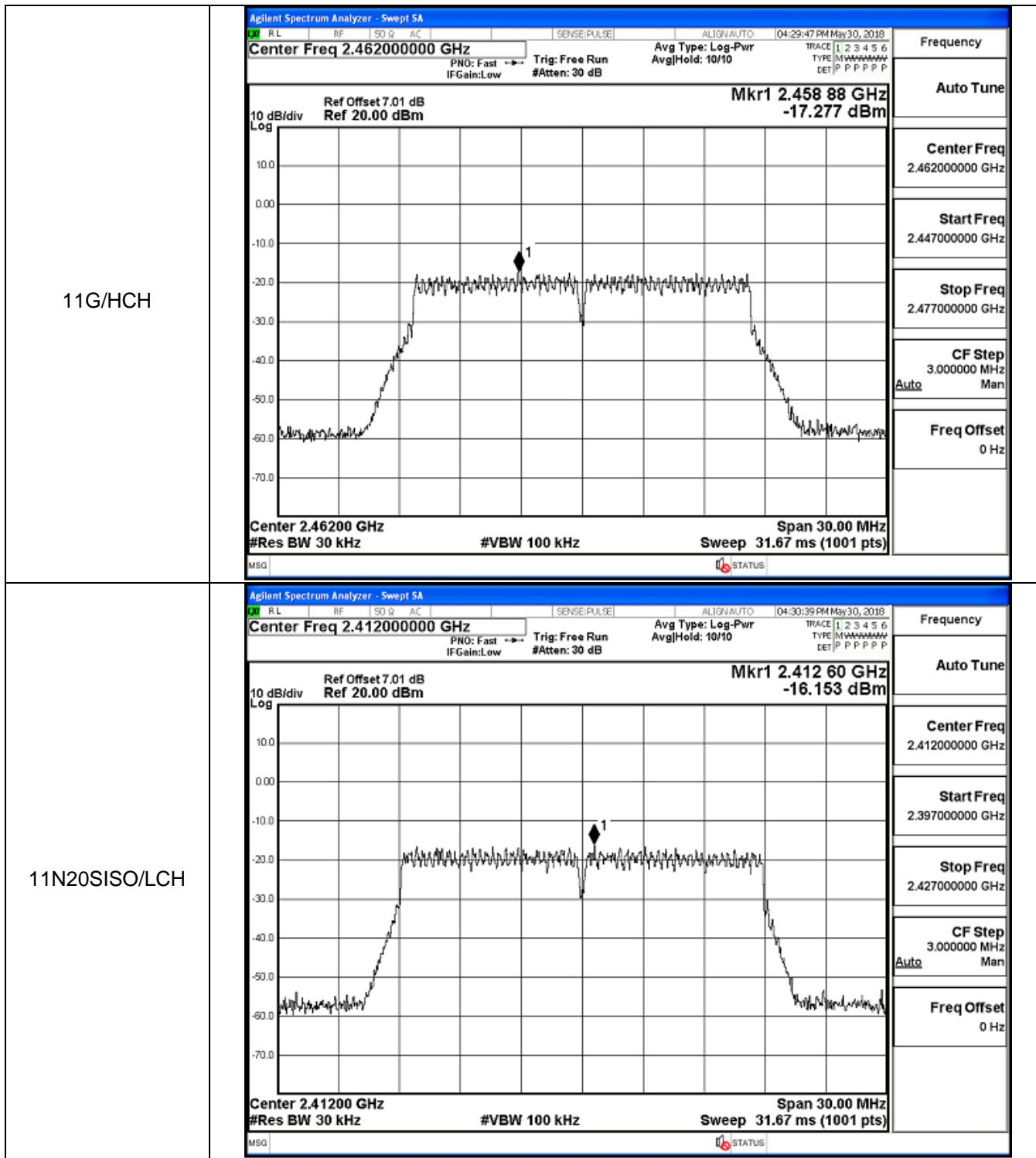
C.3 Maximum Power Spectral Density

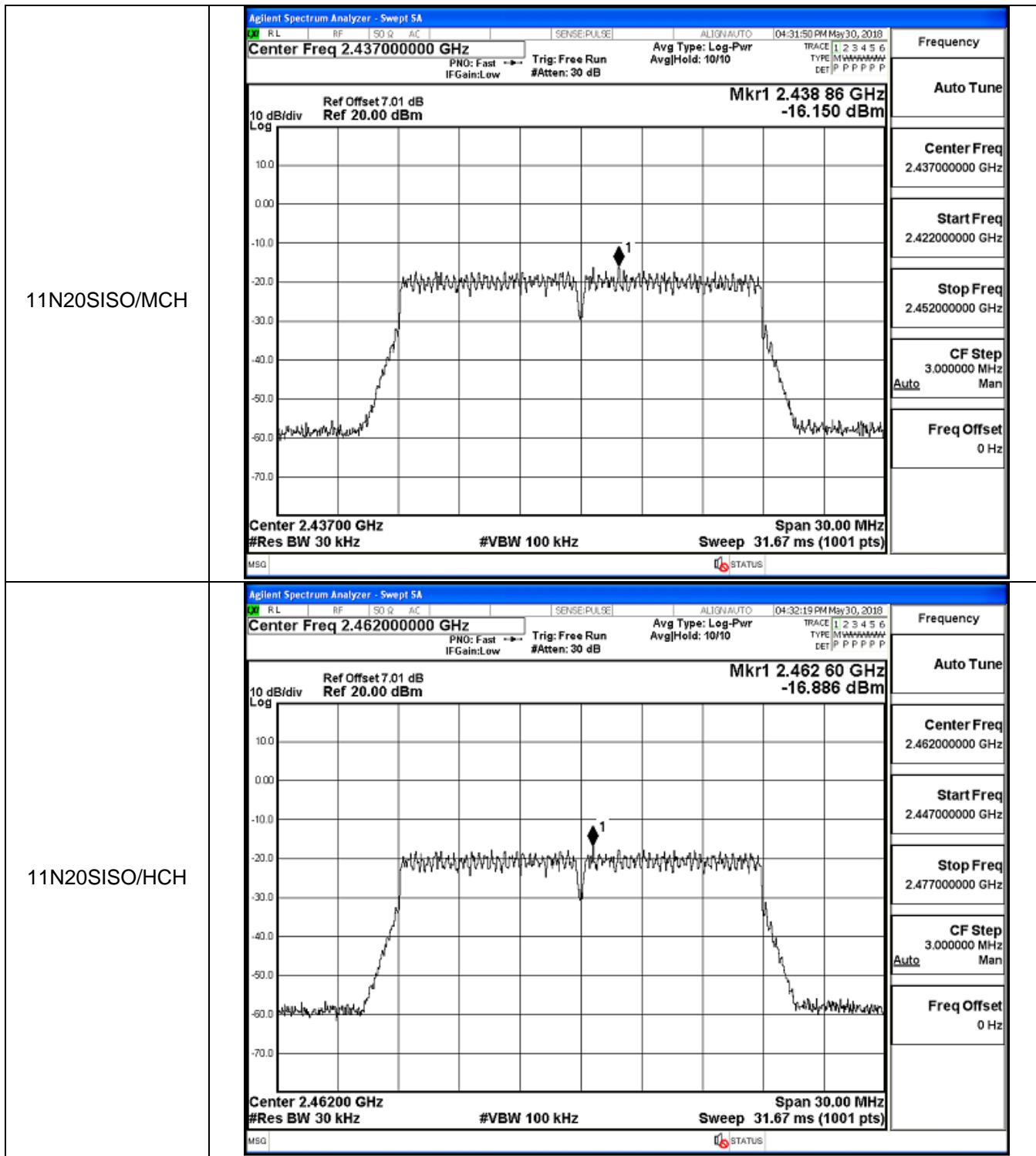
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-9.751	8	PASS
	MCH	-10.088	8	PASS
	HCH	-10.665	8	PASS
11G	LCH	-16.119	8	PASS
	MCH	-16.846	8	PASS
	HCH	-17.277	8	PASS
11N20SISO	LCH	-16.153	8	PASS
	MCH	-16.150	8	PASS
	HCH	16.886	8	PASS
11N40SISO	LCH	-18.821	8	PASS
	MCH	-20.243	8	PASS
	HCH	-20.009	8	PASS

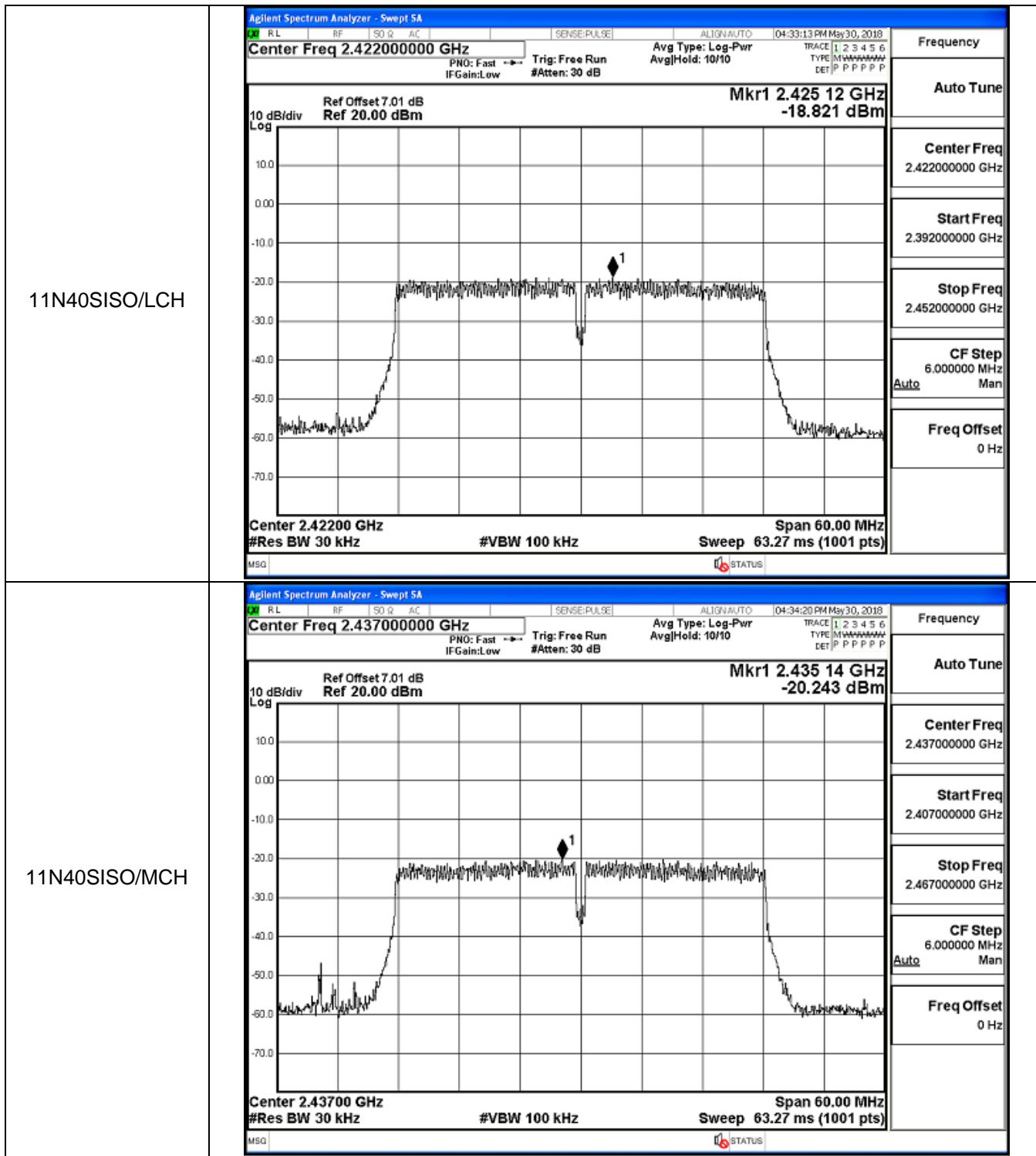


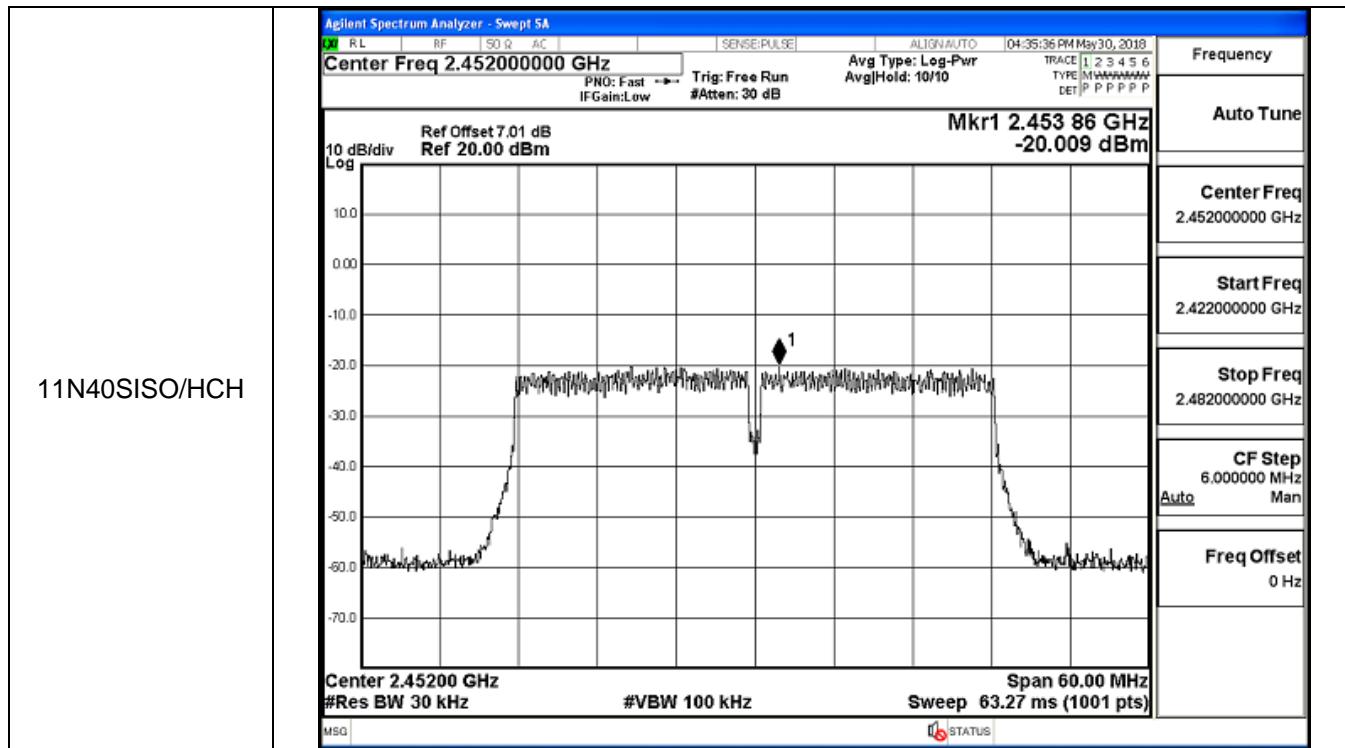








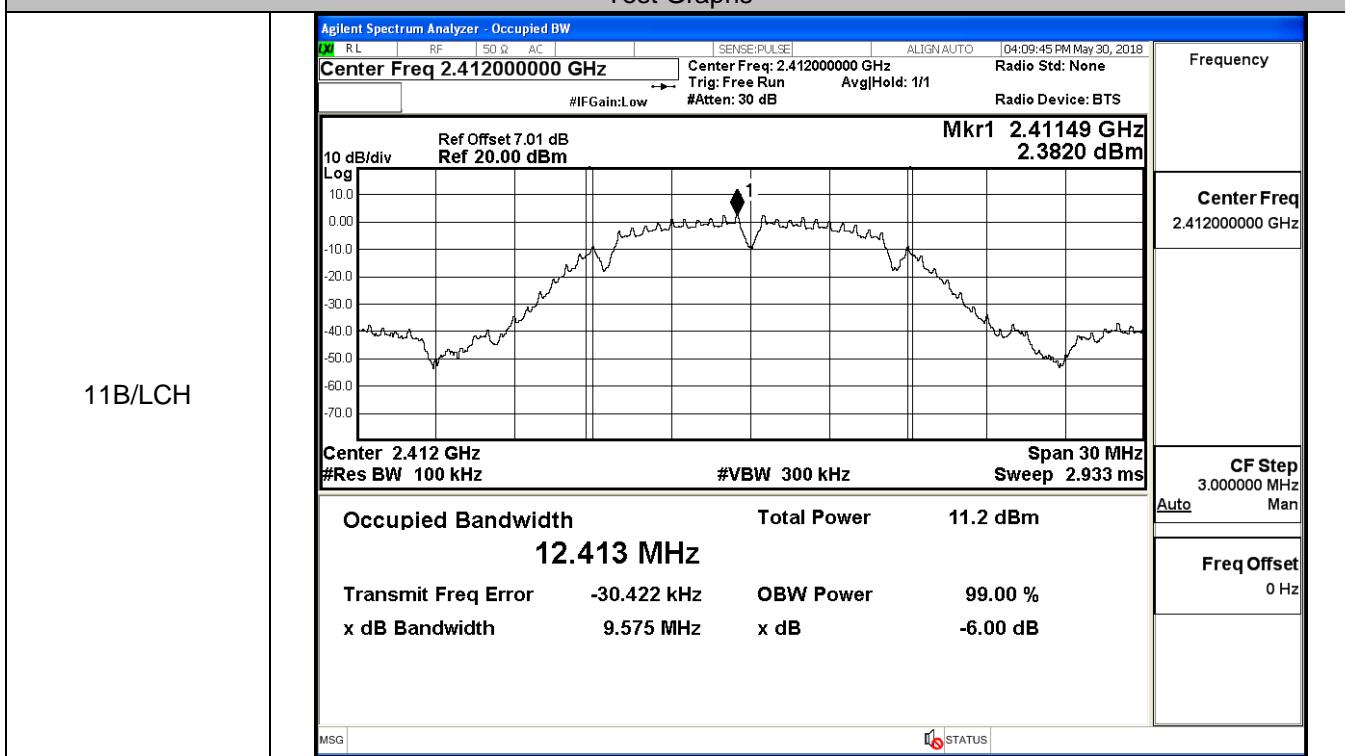


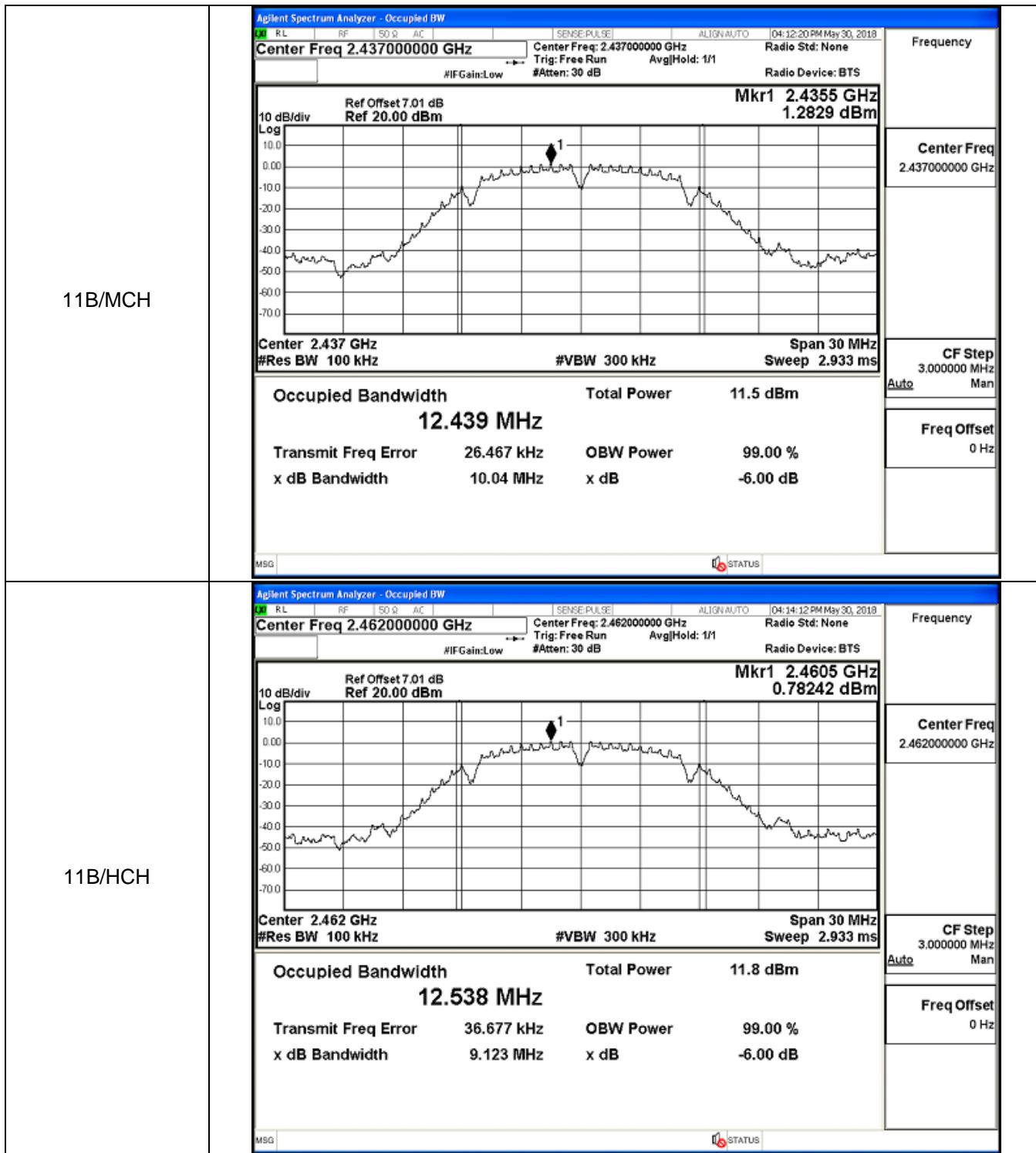


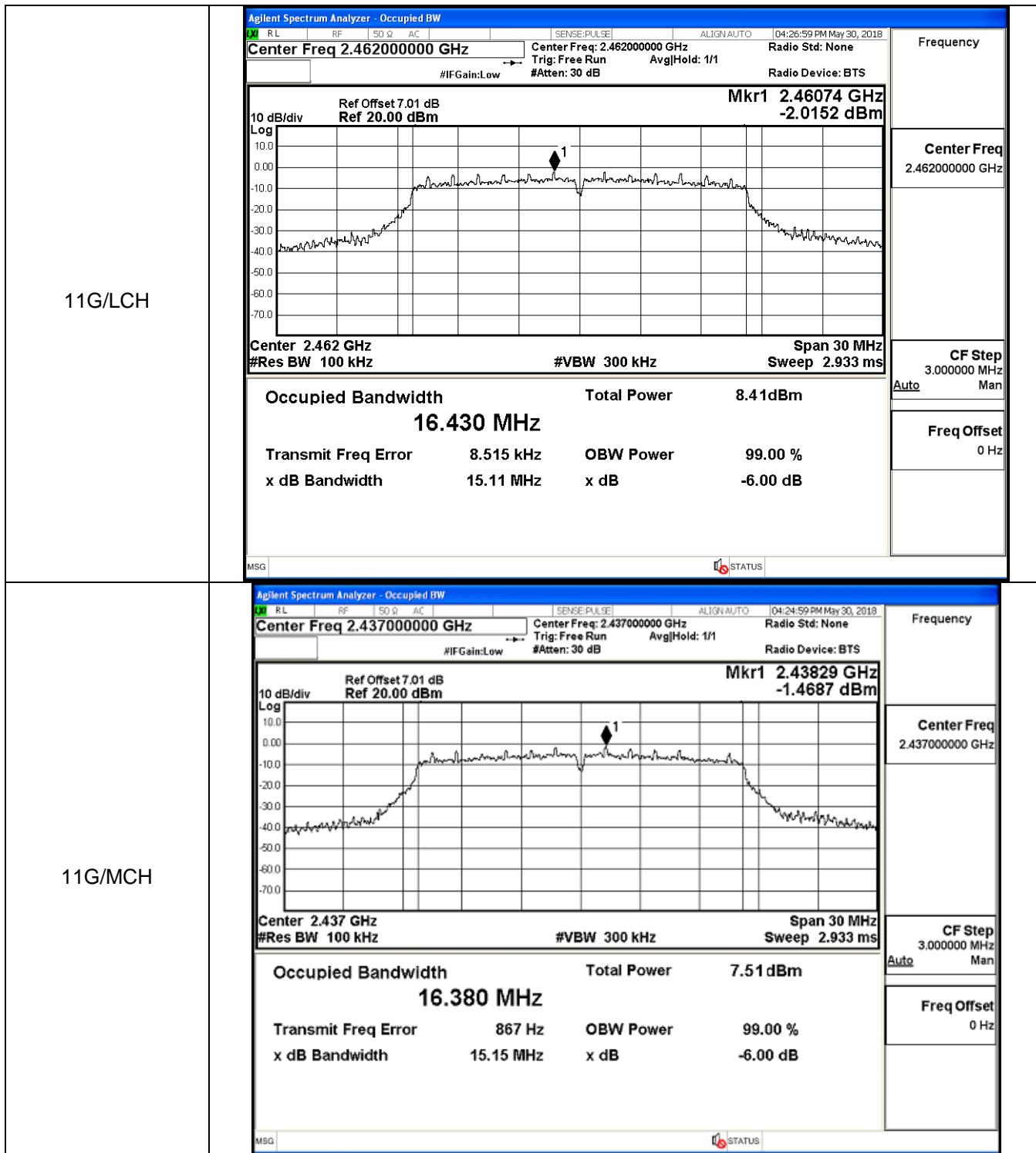
C.4 6dB Bandwidth

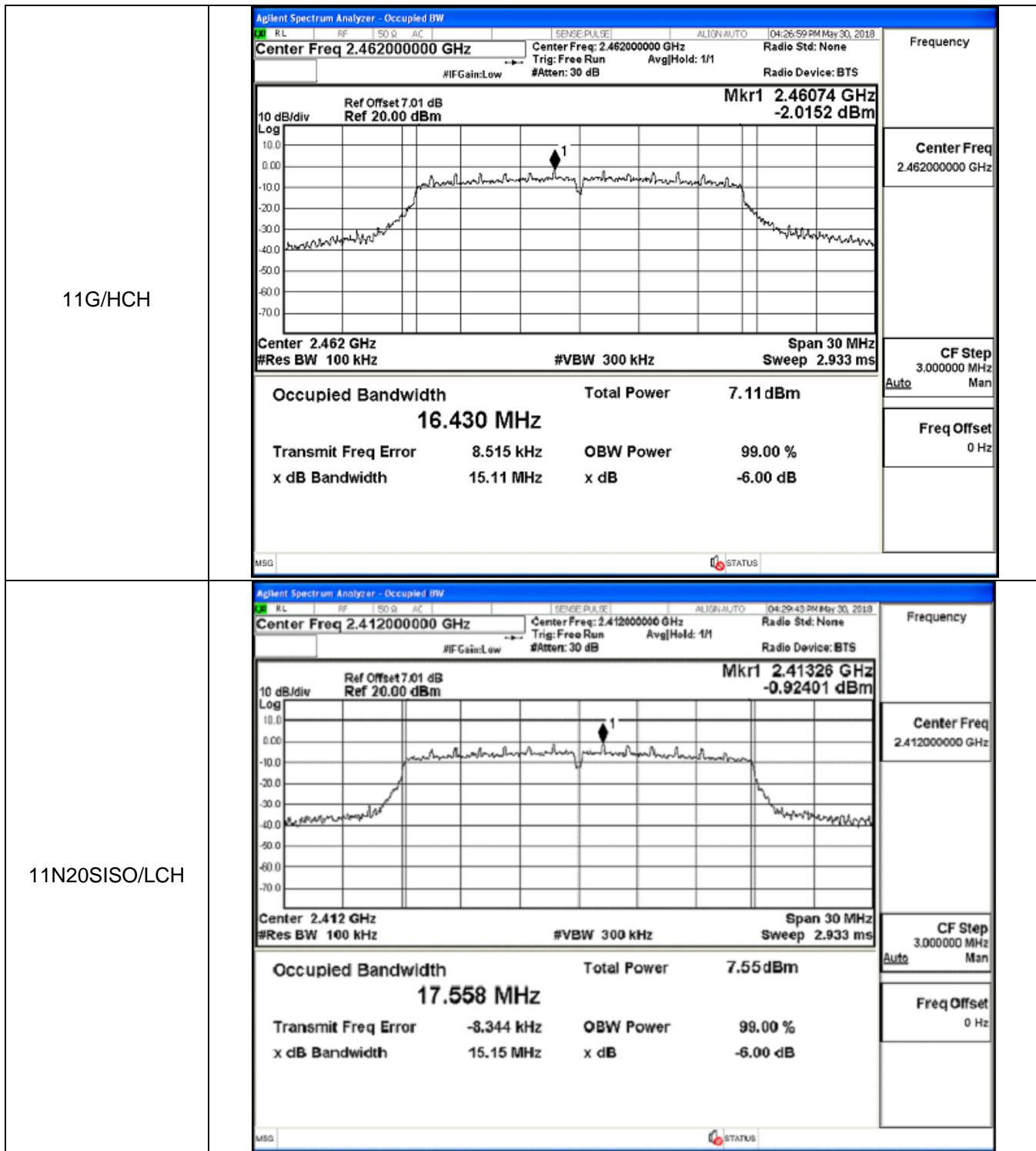
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.575	≥0.5	PASS
	MCH	10.04	≥0.5	PASS
	HCH	9.123	≥0.5	PASS
11G	LCH	15.15	≥0.5	PASS
	MCH	15.15	≥0.5	PASS
	HCH	15.11	≥0.5	PASS
11N20SISO	LCH	15.15	≥0.5	PASS
	MCH	15.12	≥0.5	PASS
	HCH	15.36	≥0.5	PASS
11N40SISO	LCH	35.25	≥0.5	PASS
	MCH	35.22	≥0.5	PASS
	HCH	35.24	≥0.5	PASS

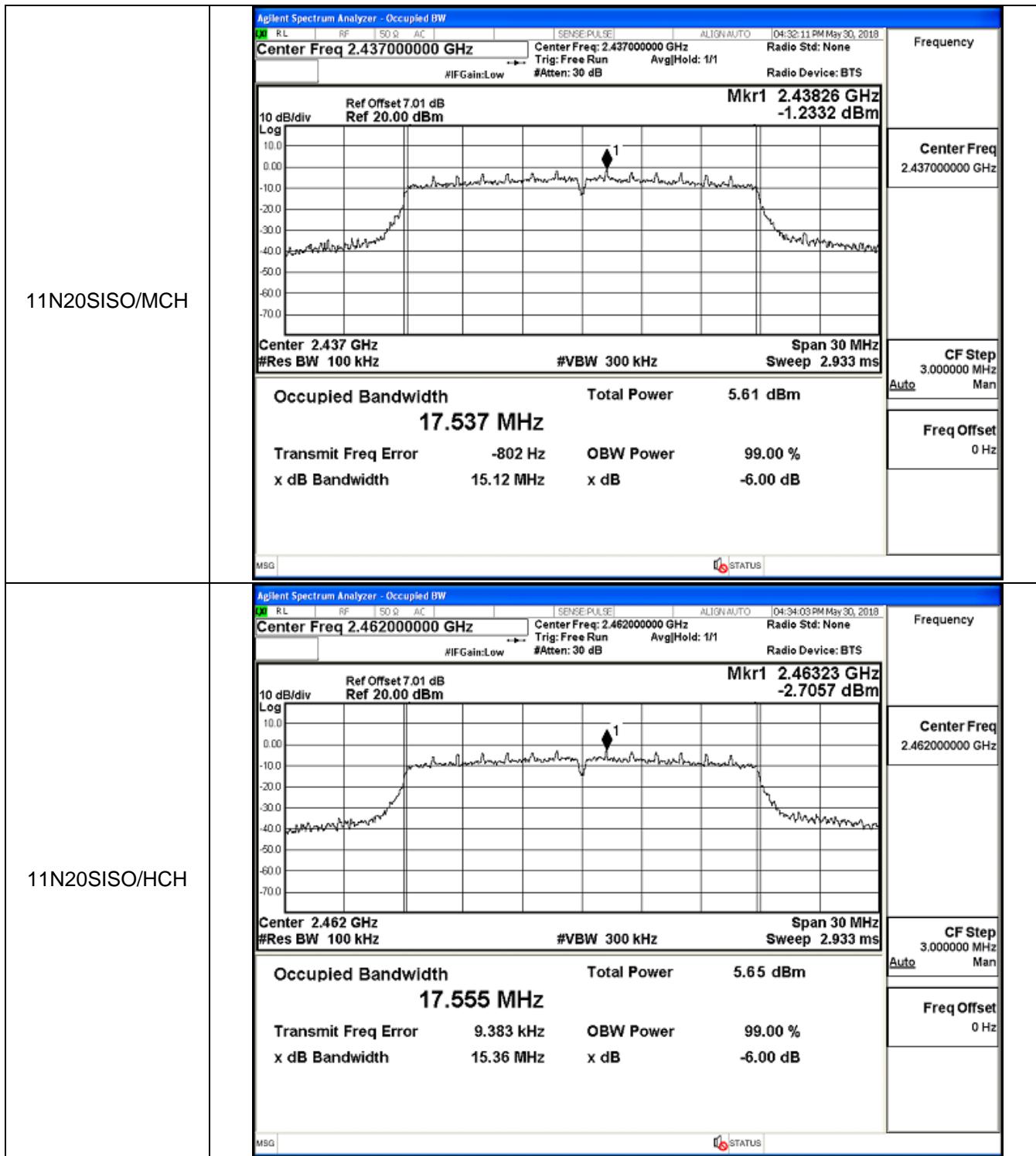
Test Graphs

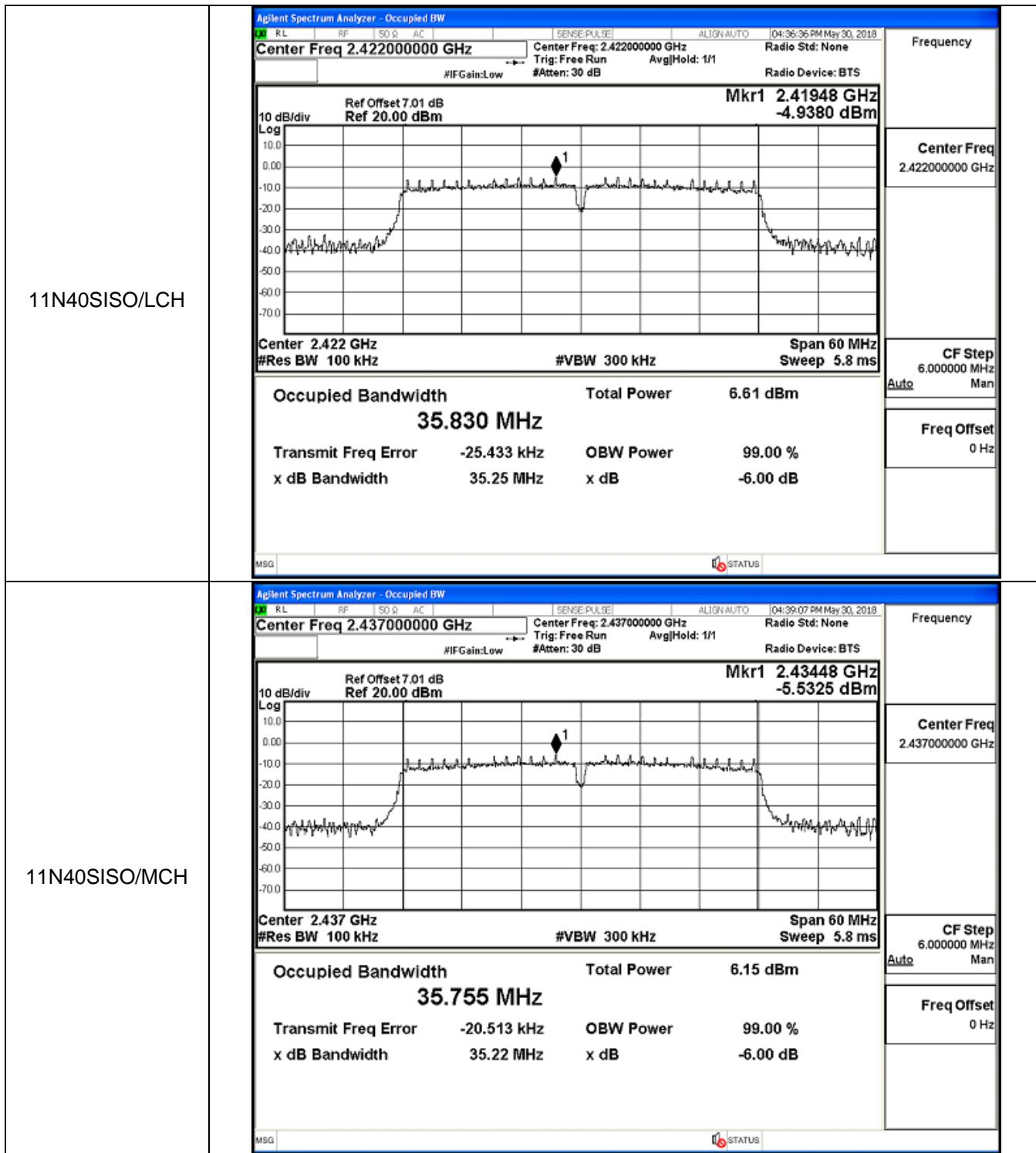


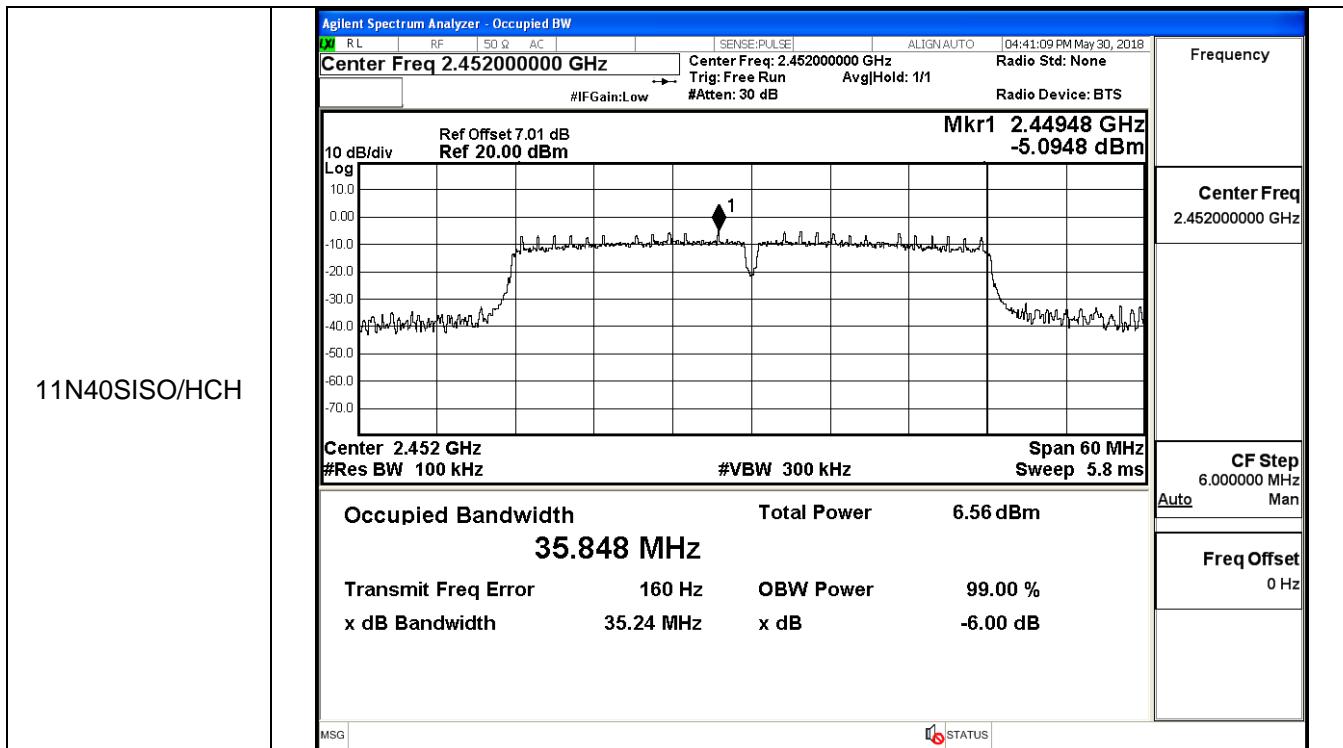








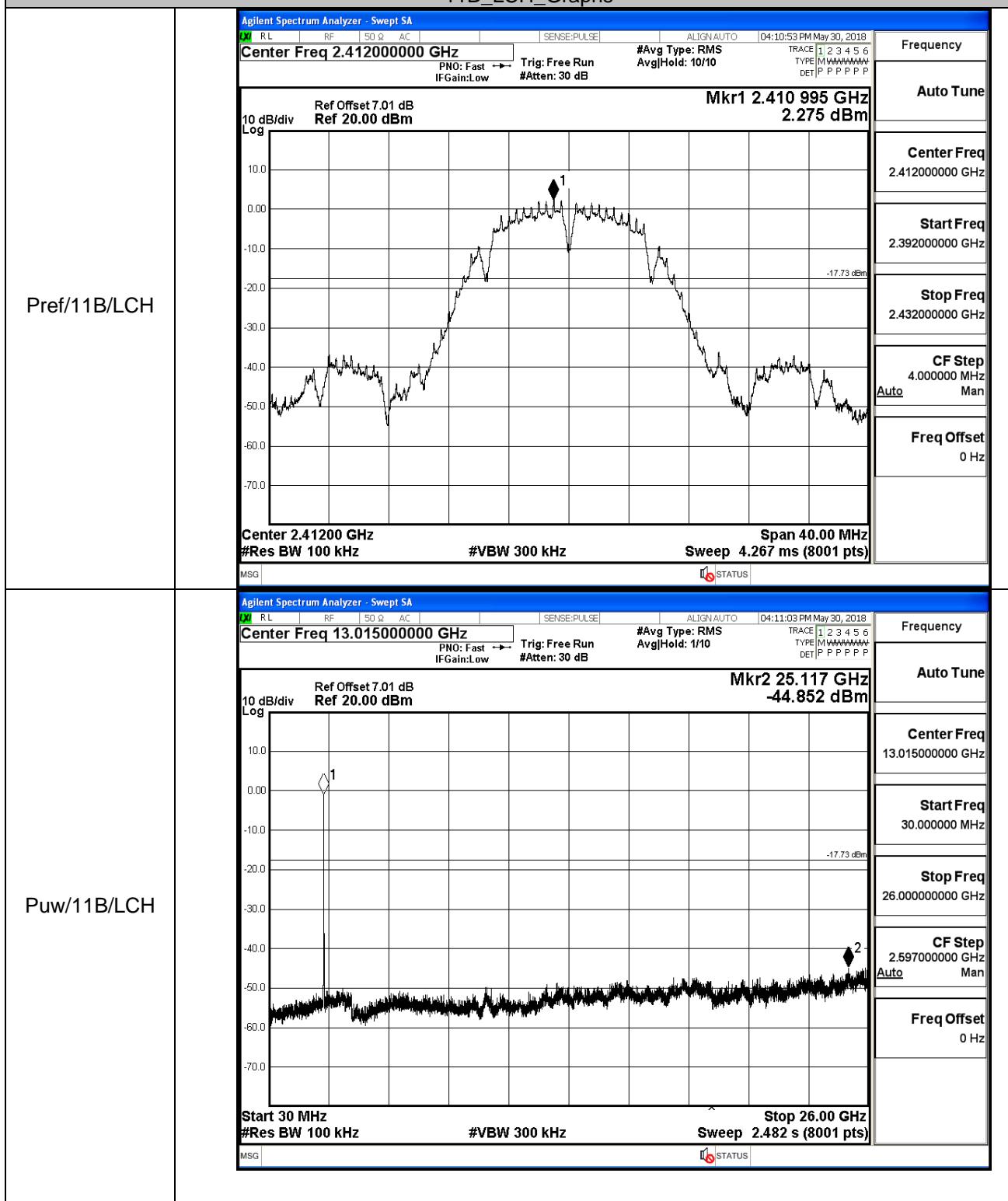




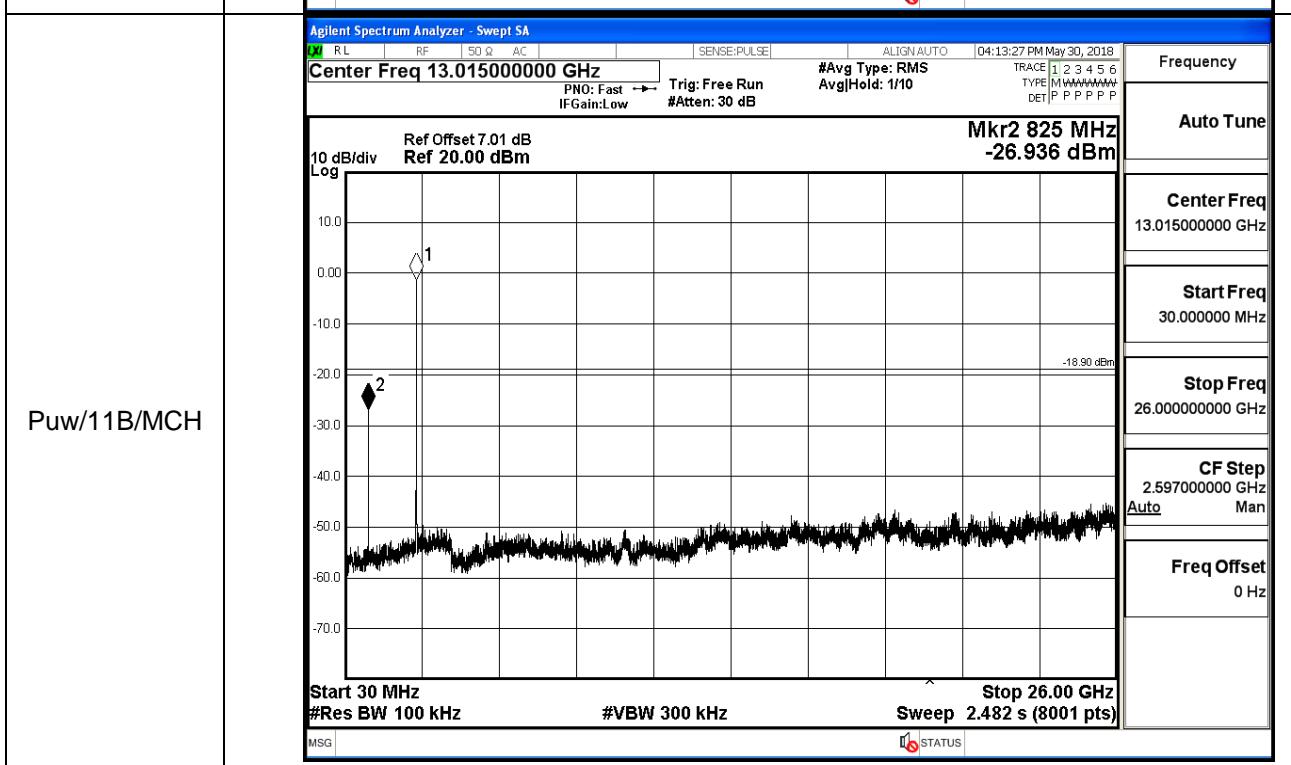
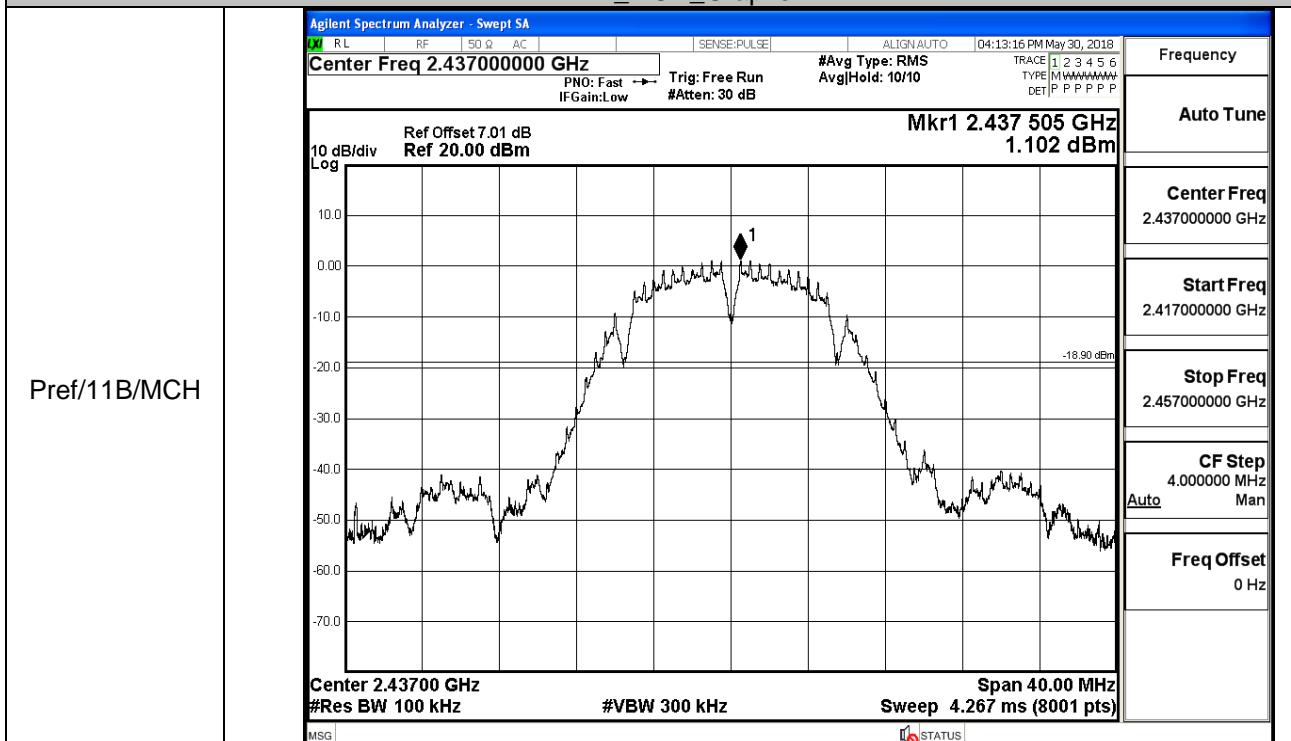
C.5 RF Conducted Spurious Emissions

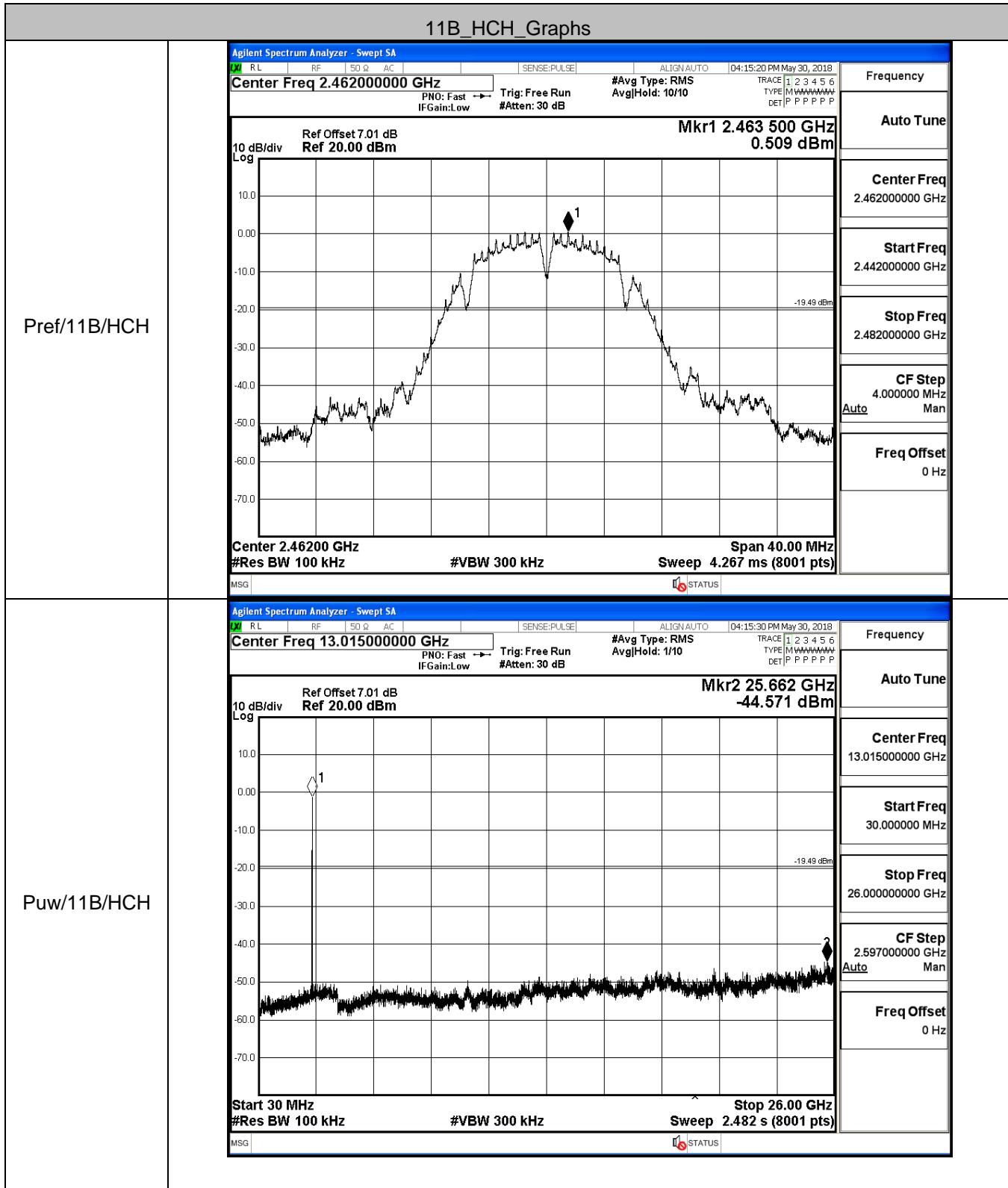
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.275	-44.852	-17.725	PASS
	MCH	1.102	-26.936	-18.898	PASS
	HCH	0.509	-44.571	-19.491	PASS
11G	LCH	-1.047	-44.758	-21.047	PASS
	MCH	-1.342	-45.027	-21.342	PASS
	HCH	-1.527	-43.604	-21.527	PASS
11N20 SISO	LCH	-1.217	-43.702	-21.217	PASS
	MCH	-1.841	-43.659	-21.841	PASS
	HCH	-2.295	-42.293	-22.295	PASS
11N40 SISO	LCH	-5.134	-44.503	-25.134	PASS
	MCH	-5.571	-45.158	-25.571	PASS
	HCH	-5.234	-44.875	-25.234	PASS

11B_LCH_Graphs

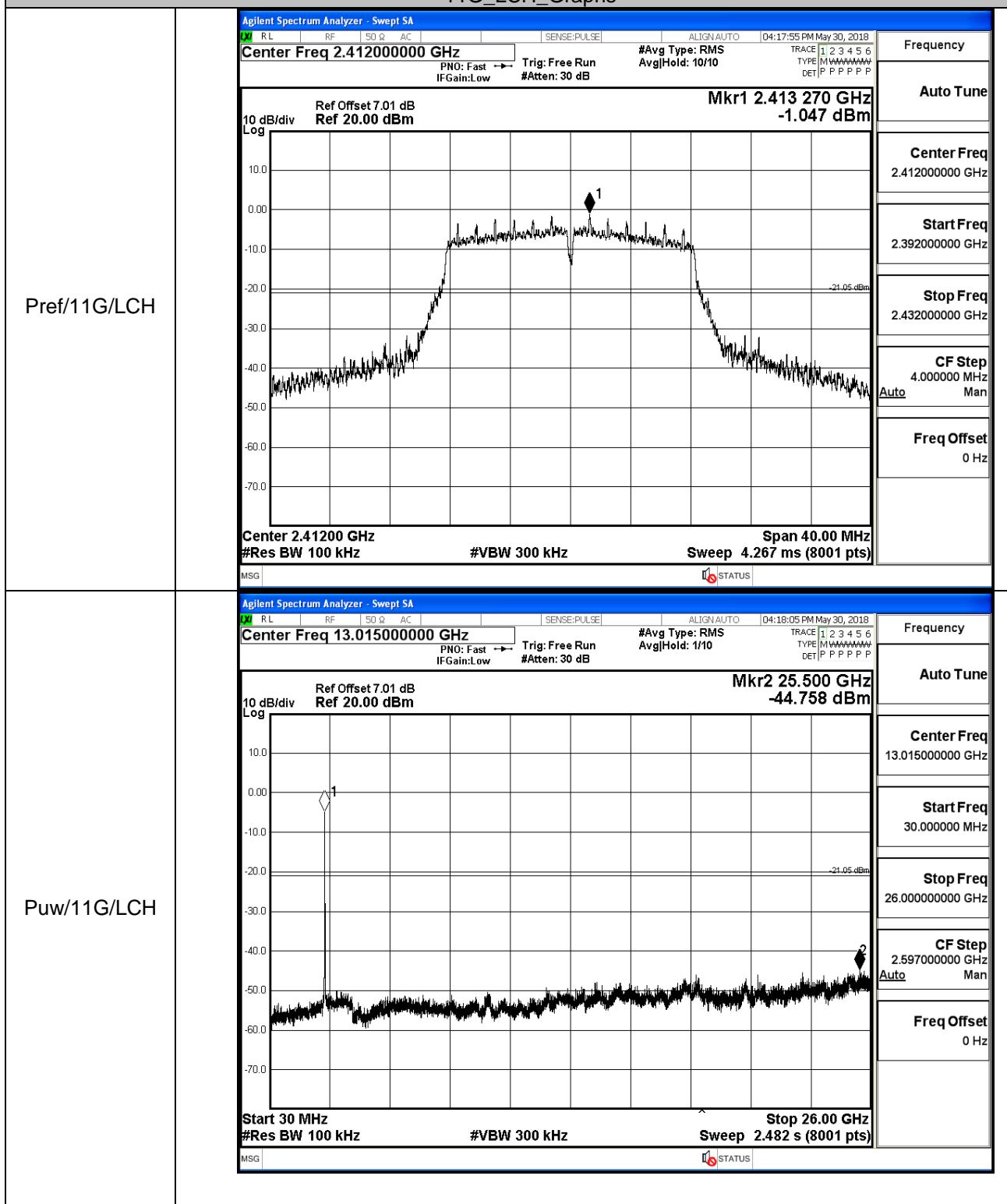


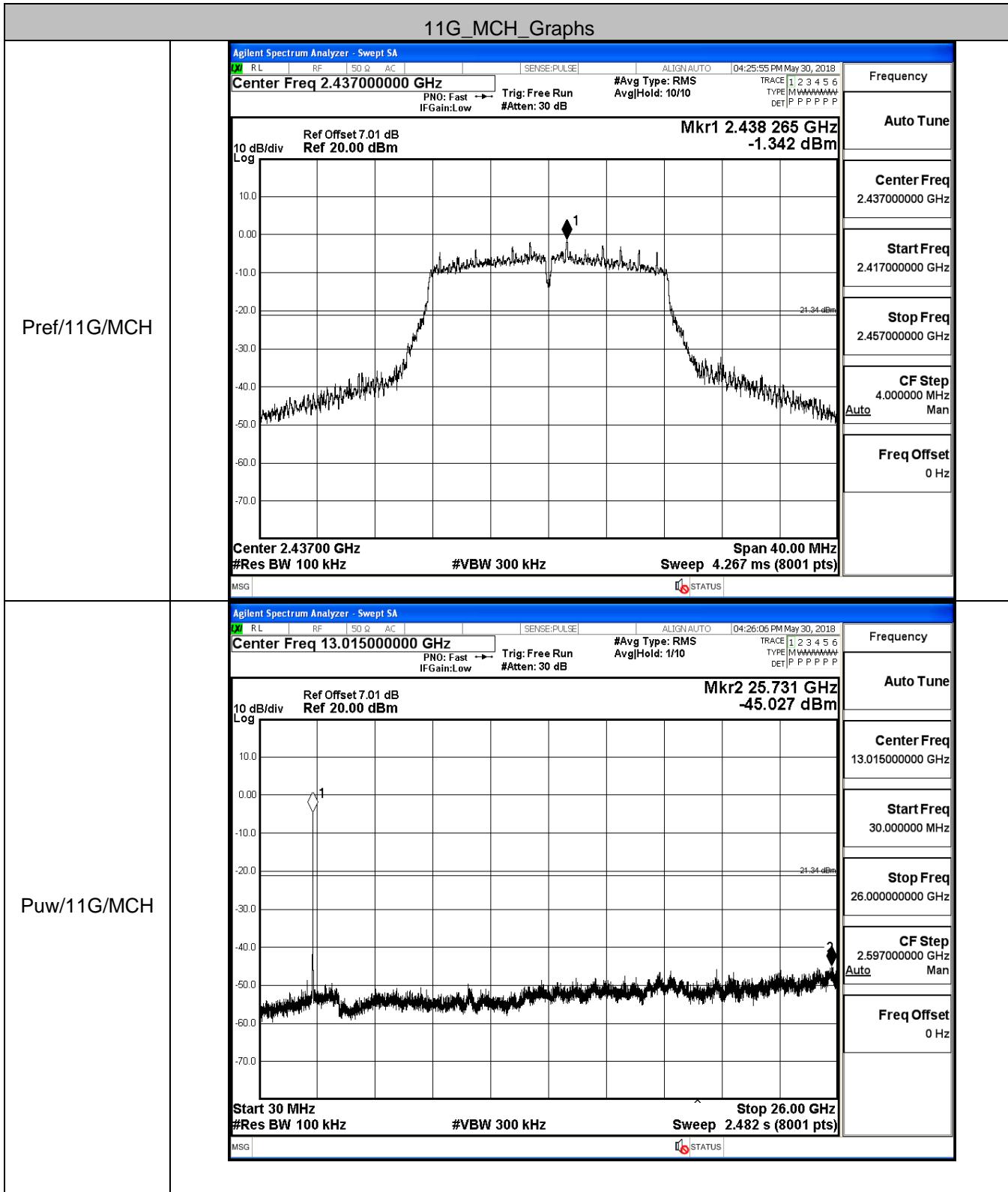
11B_MCH_Graphs

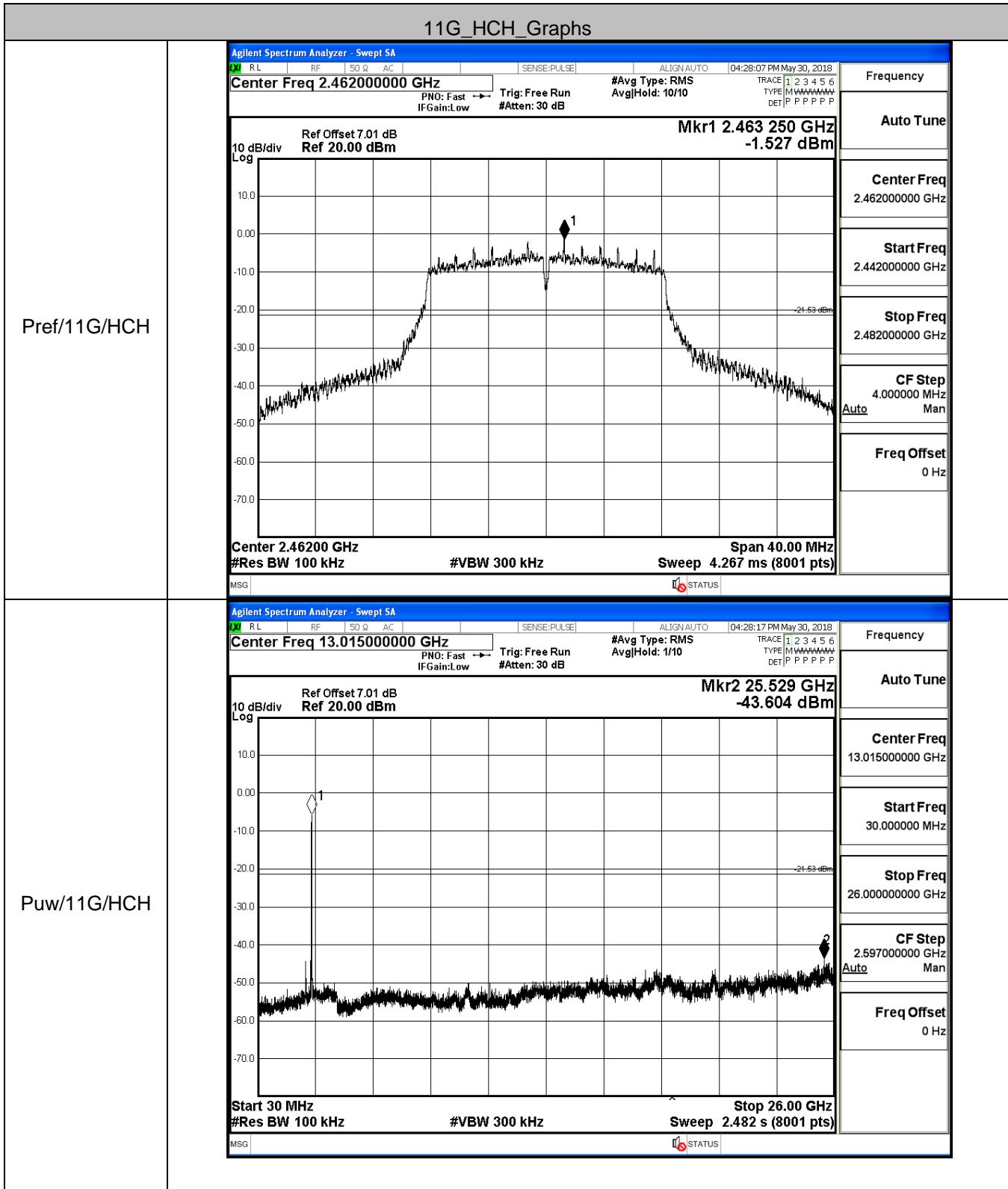


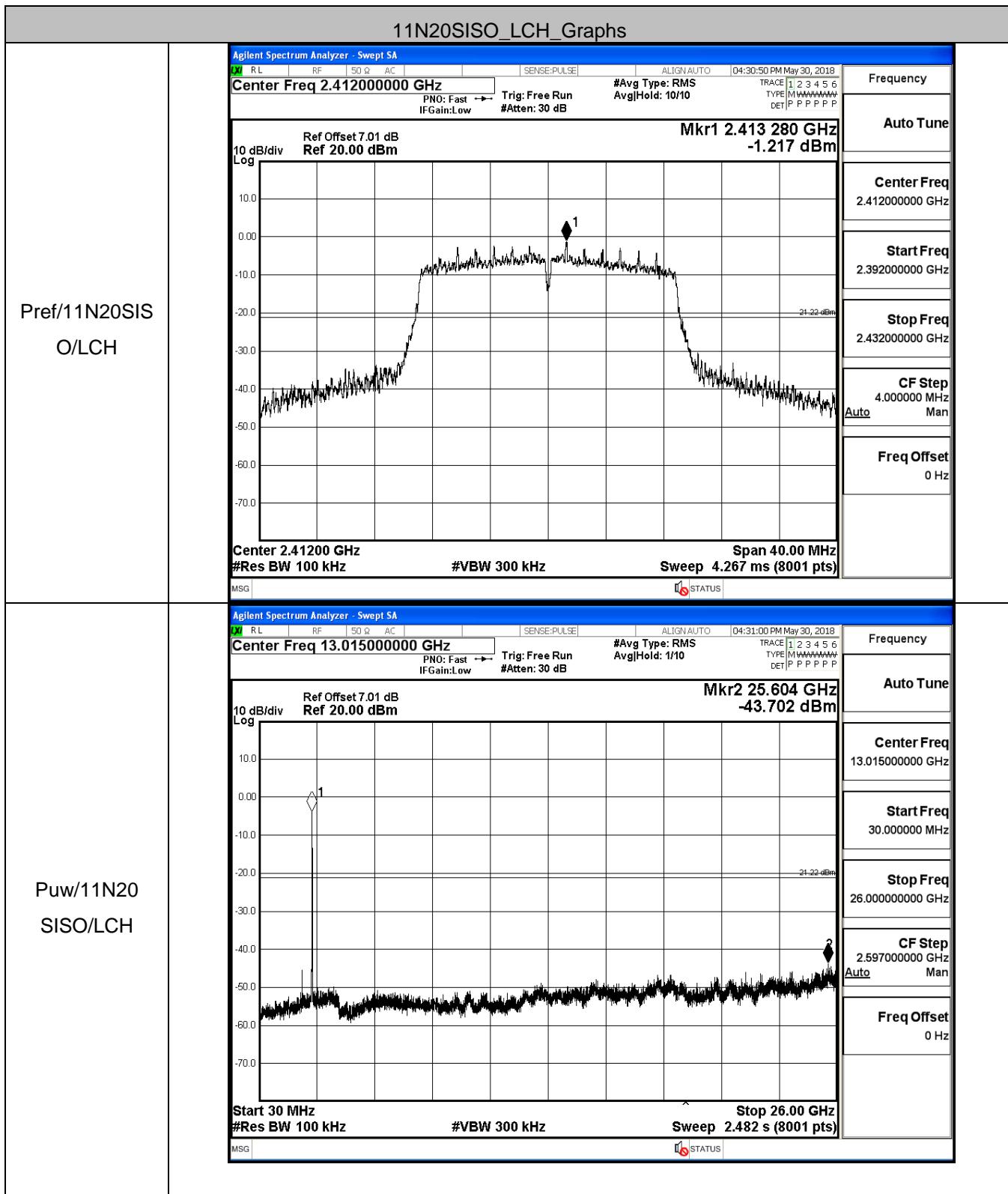


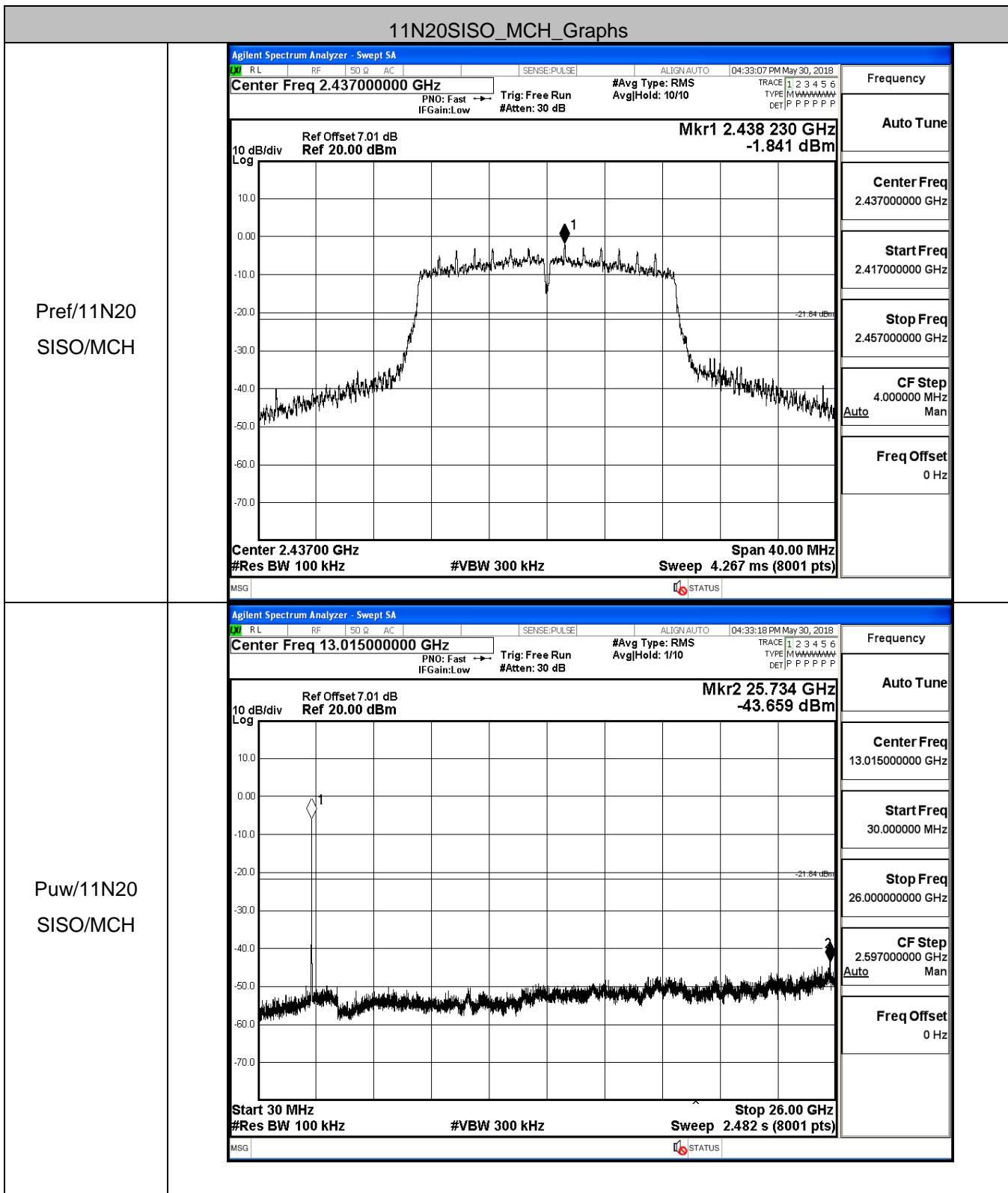
11G_LCH_Graphs

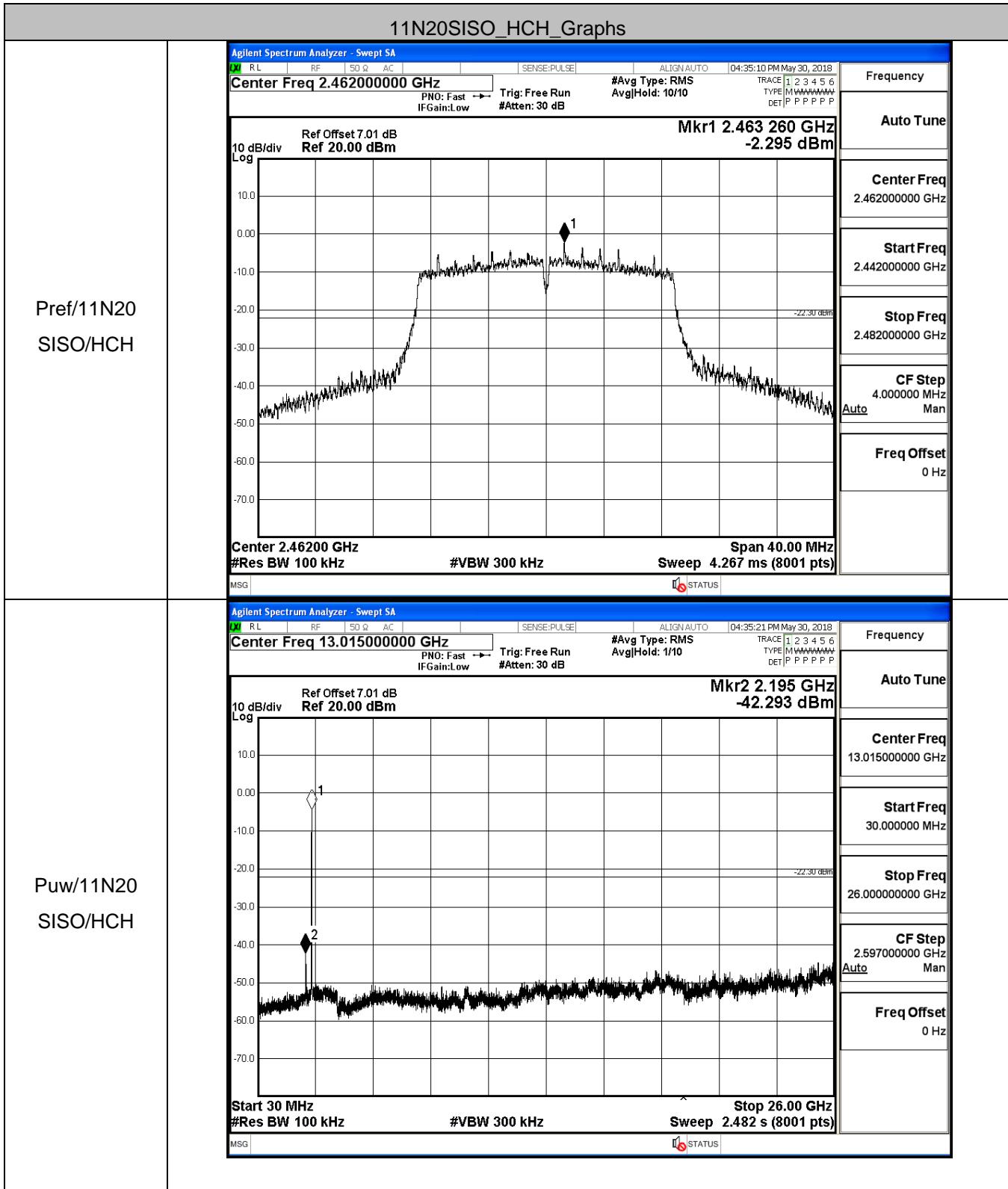


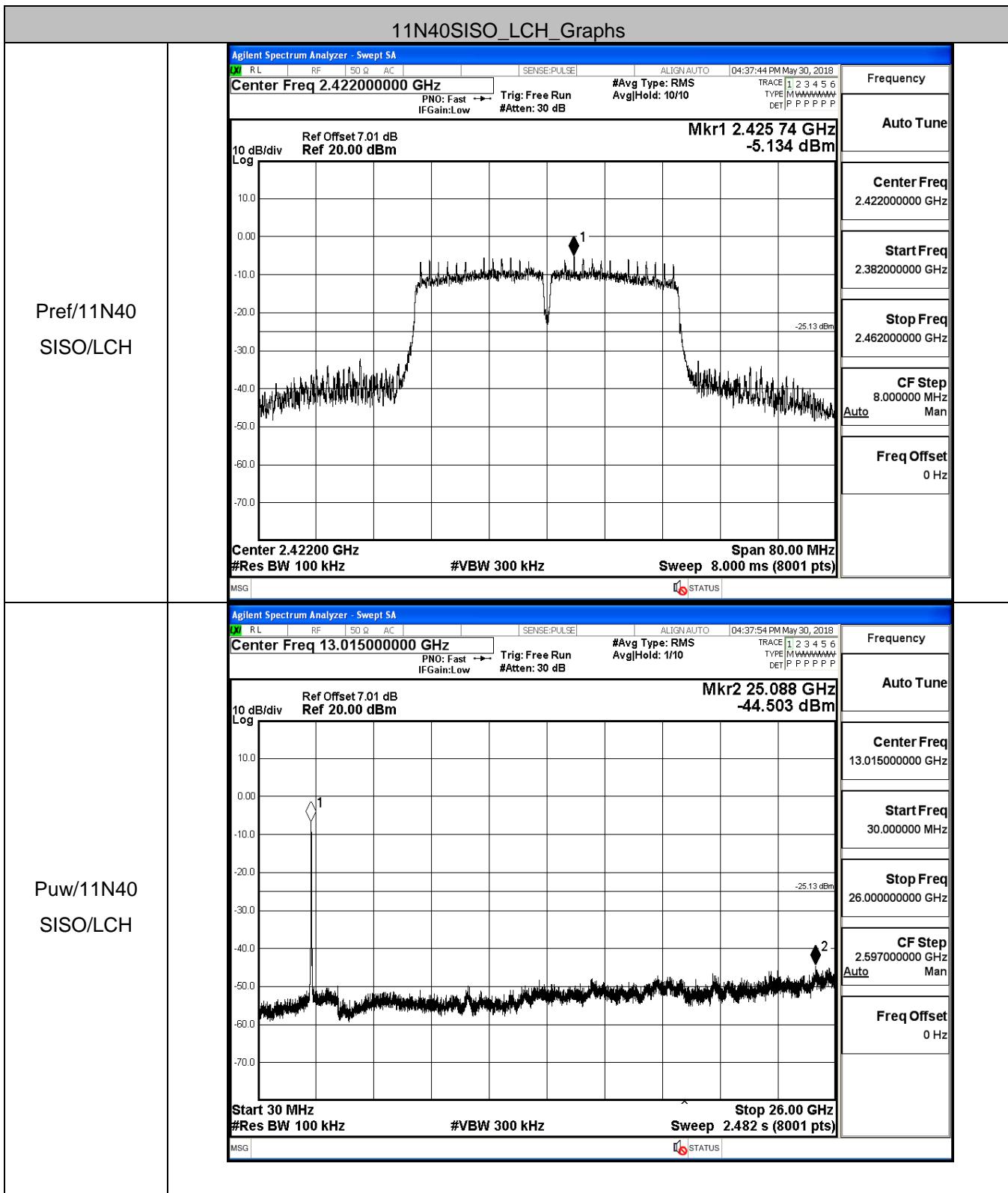


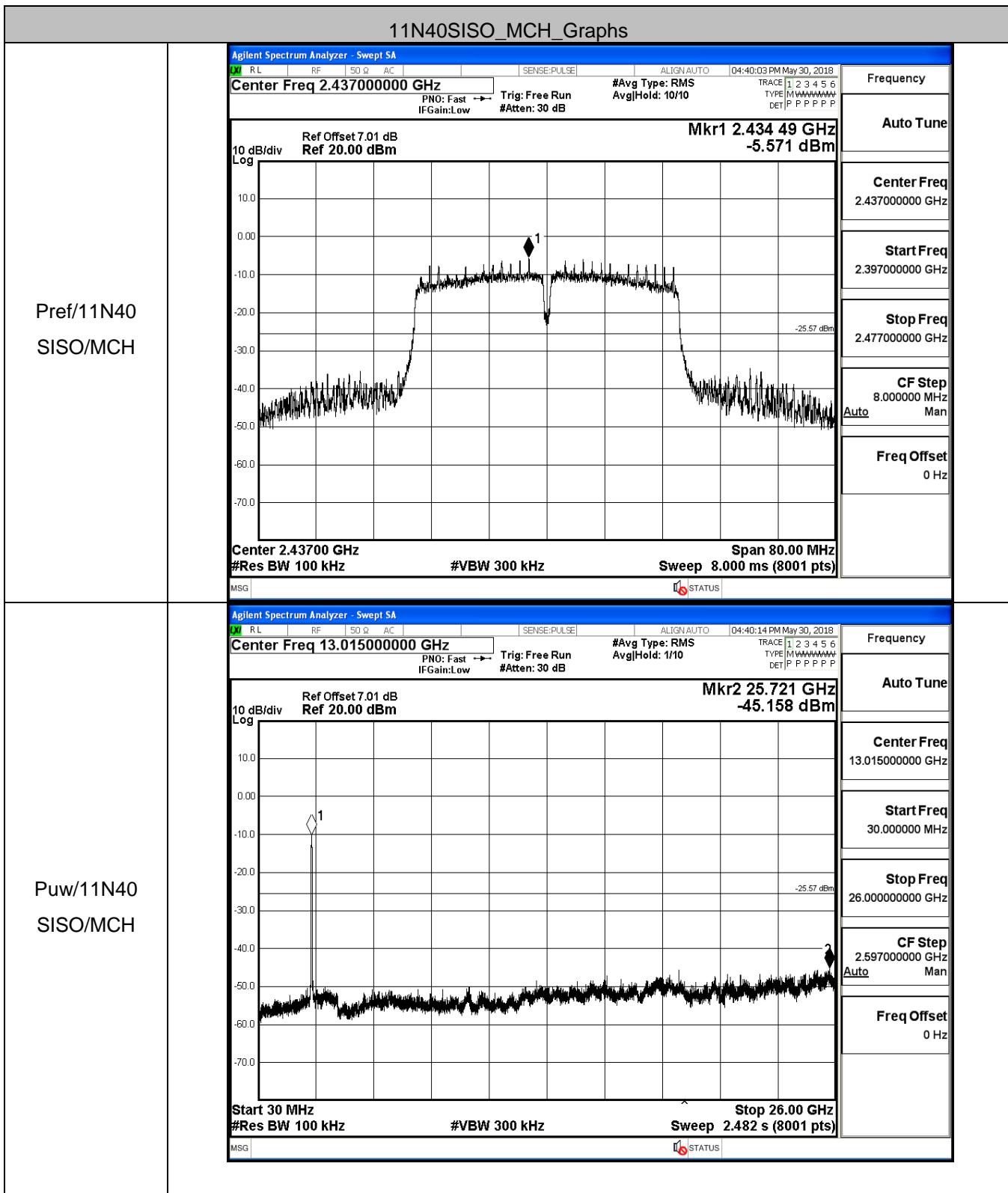


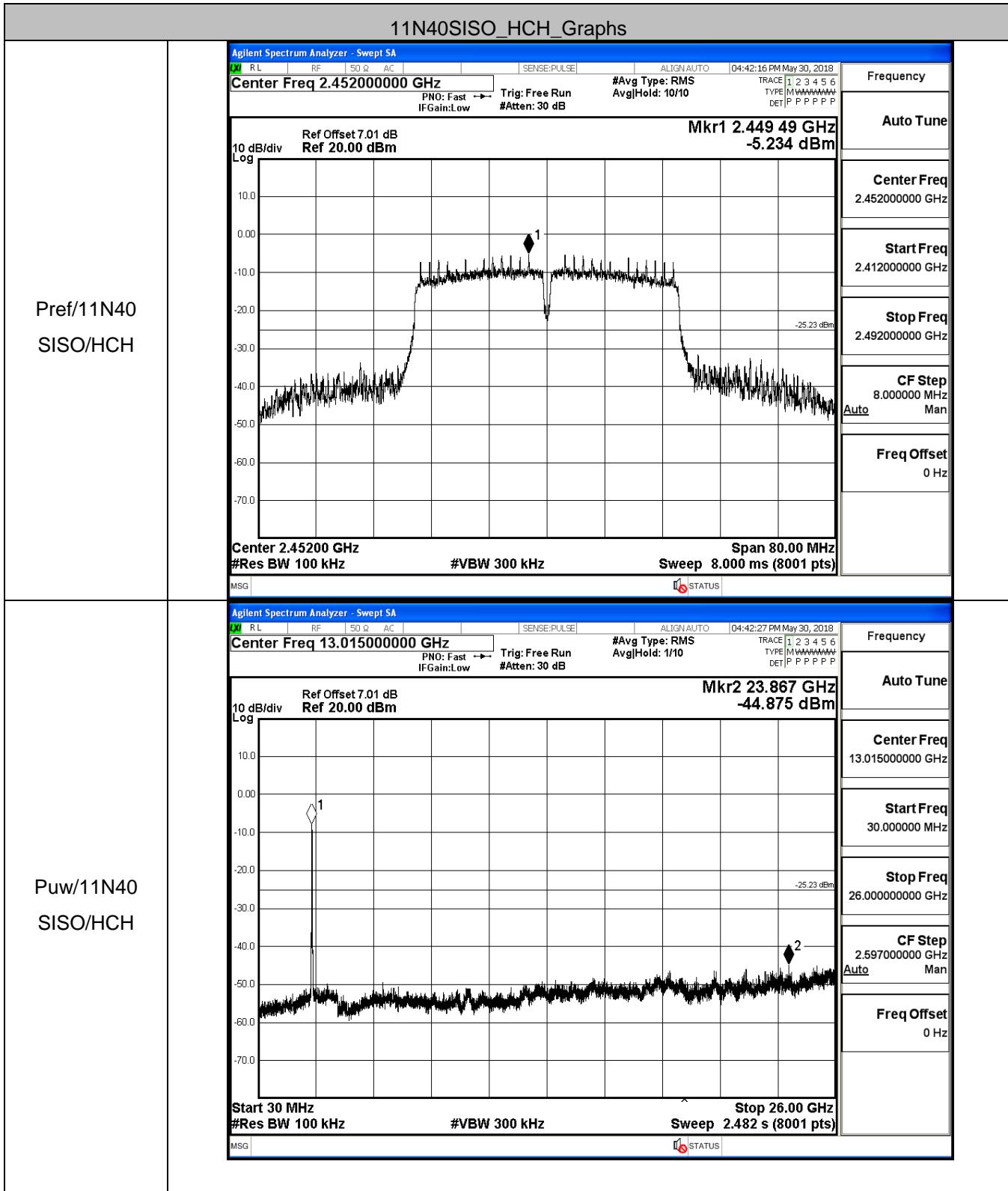






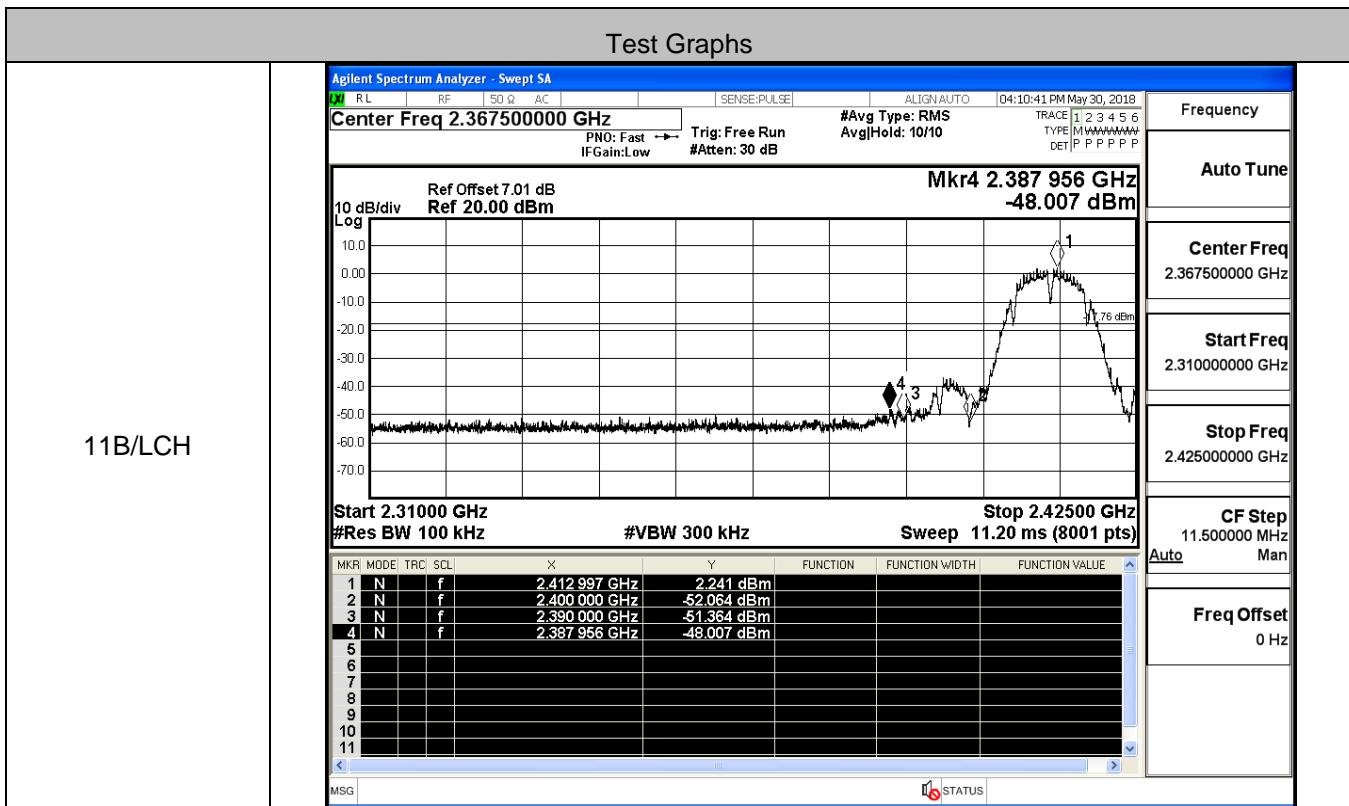


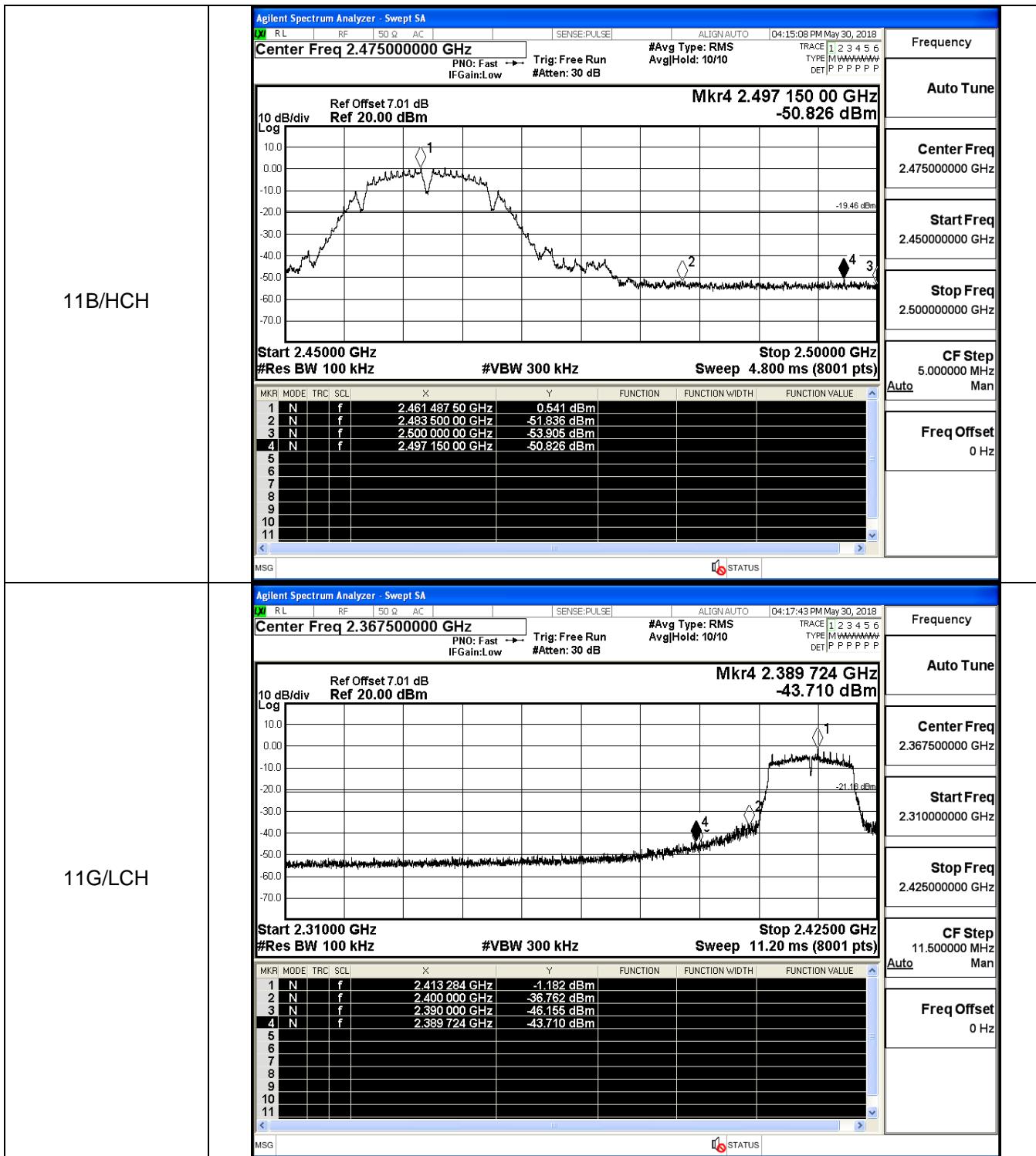


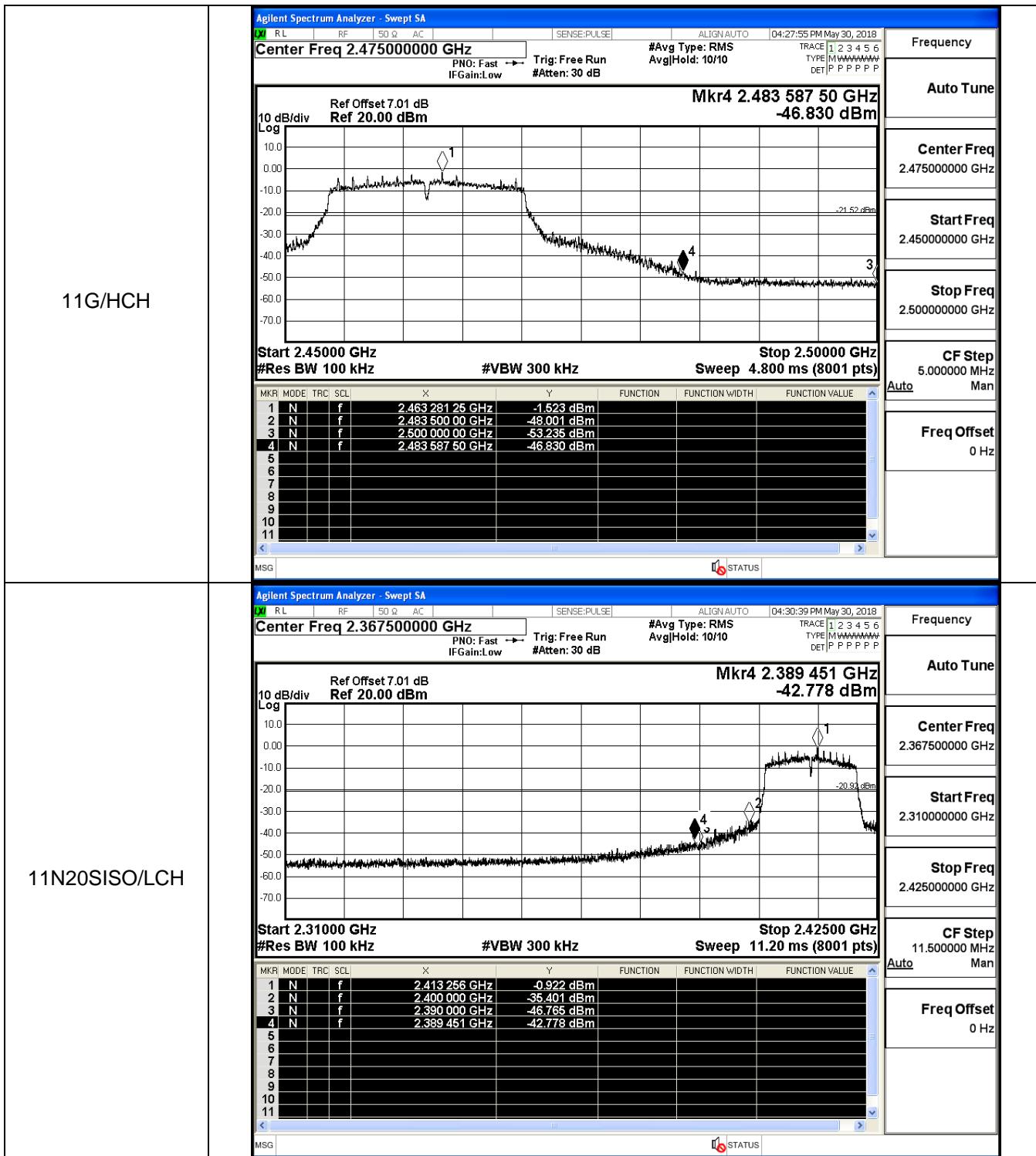


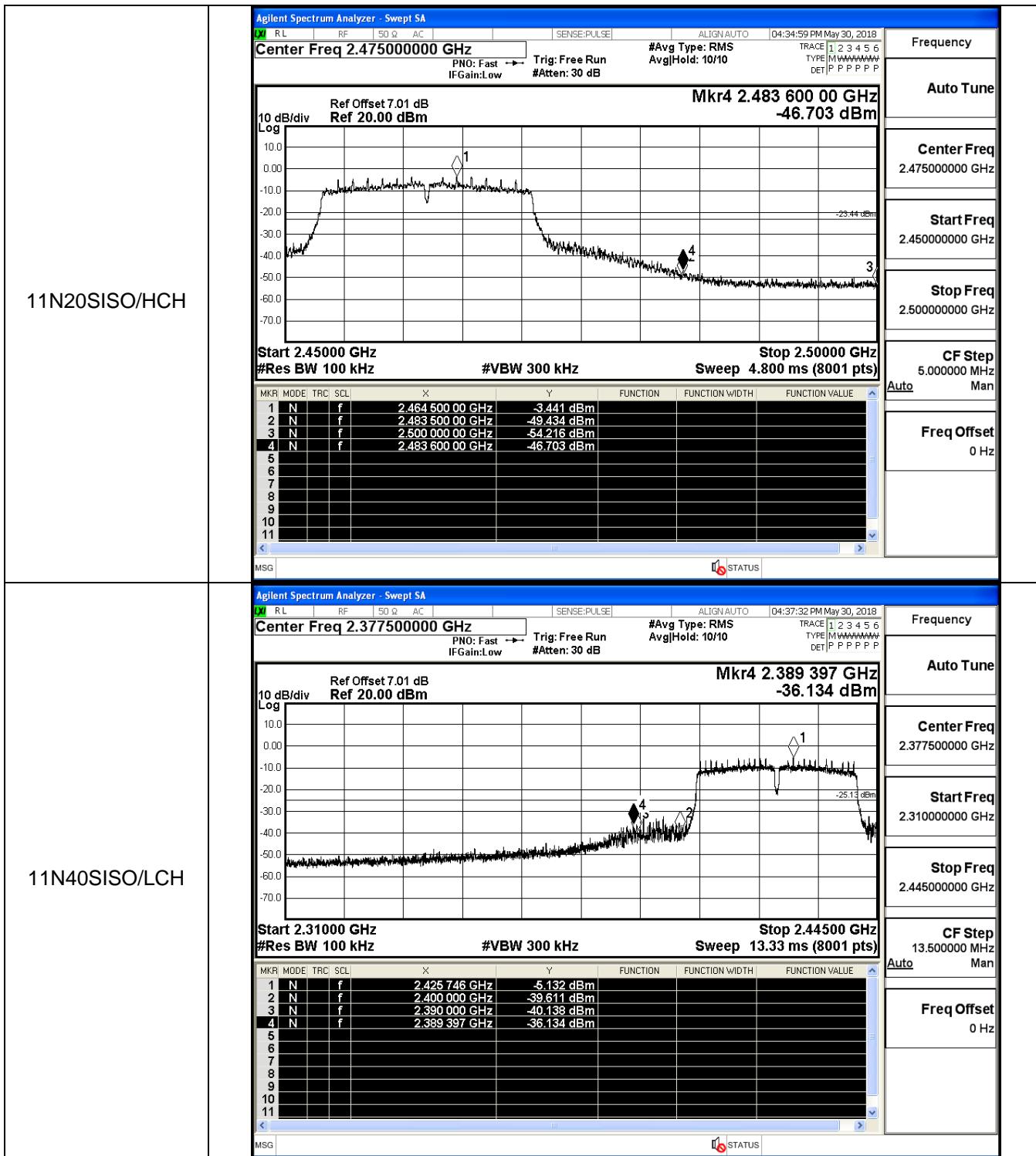
C.6 Band-edge for RF Conducted Emissions

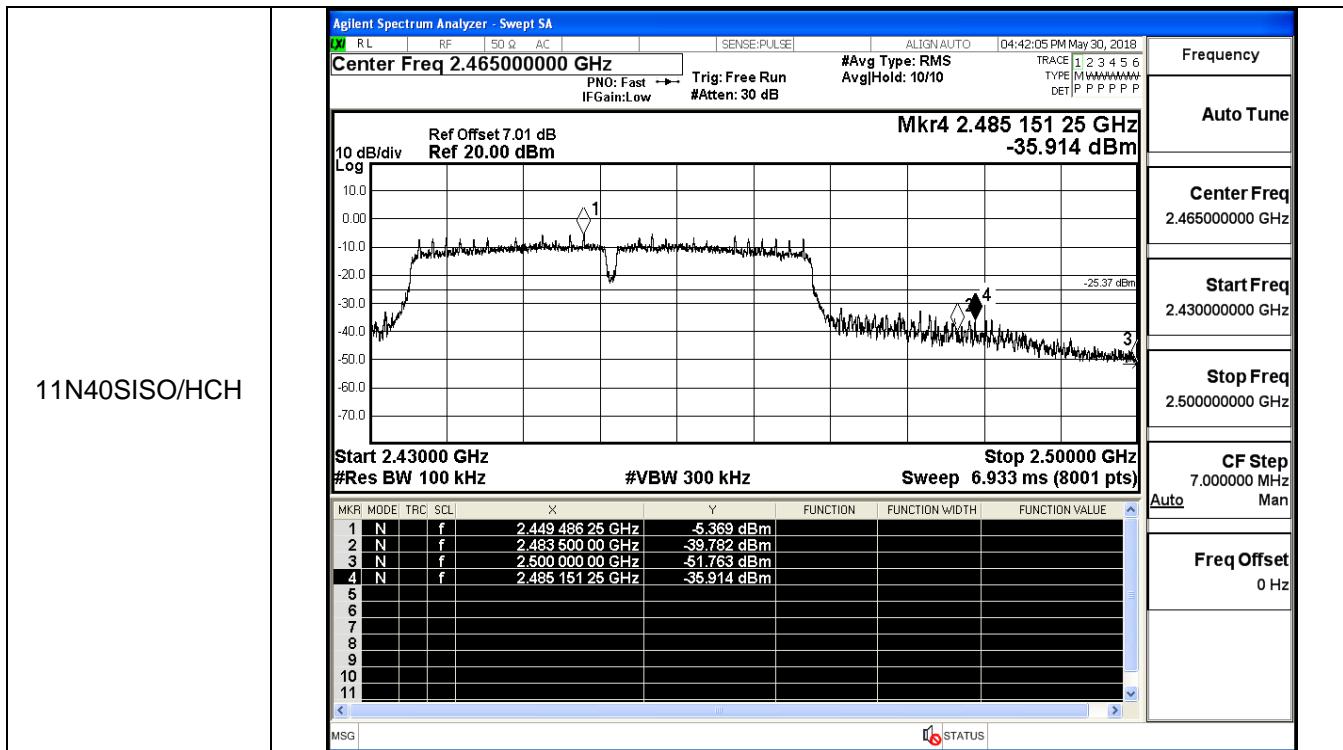
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.241	-48.007	-17.76	PASS
	HCH	0.541	-50.826	-19.46	PASS
11G	LCH	-1.182	-43.710	-21.18	PASS
	HCH	-1.523	-46.830	-21.52	PASS
11N20SISO	LCH	-0.922	-42.778	-20.92	PASS
	HCH	-3.441	-46.703	-23.44	PASS
11N40SISO	LCH	-5.132	-36.134	-25.13	PASS
	HCH	-5.369	-35.914	-25.37	PASS









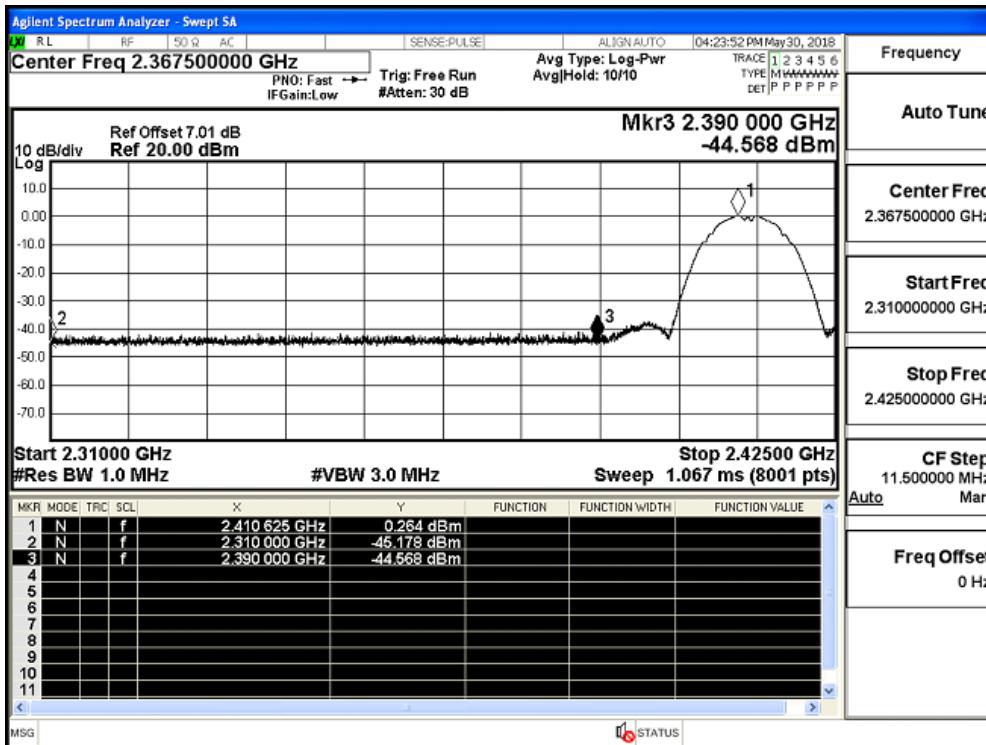


C.7 Restrict-band band-edge measurements

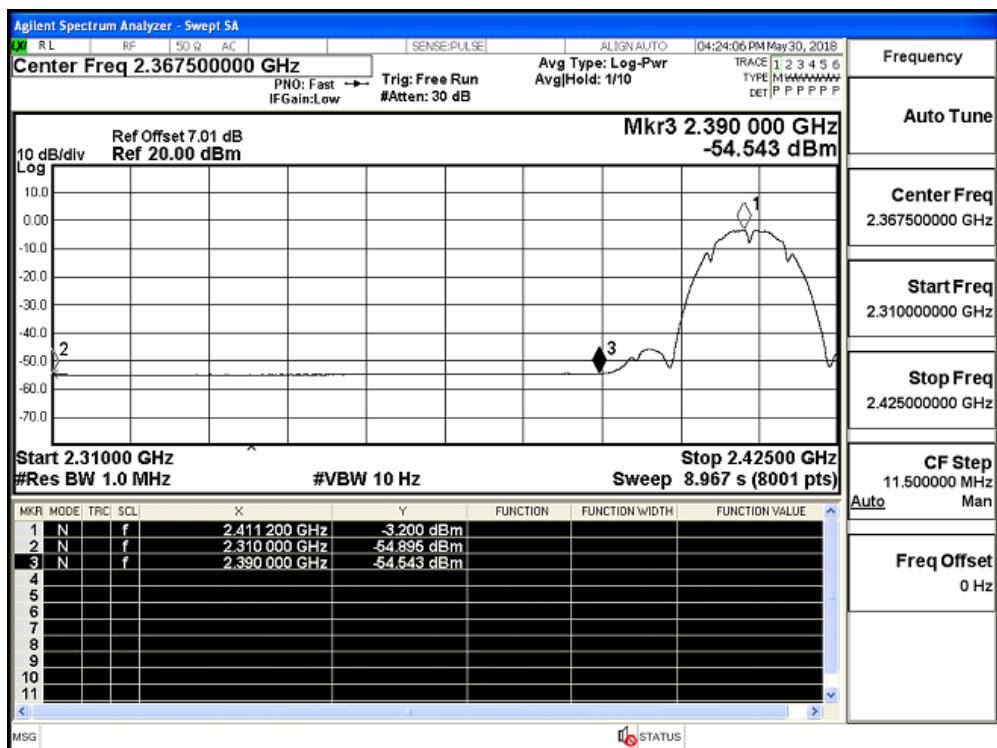
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-45.178	2.0	0	52.08	PEAK	74	PASS
	2412	Ant1	2310.0	-54.895	2.0	0	42.37	AV	54	PASS
	2412	Ant1	2390.0	-44.568	2.0	0	52.69	PEAK	74	PASS
	2412	Ant1	2390.0	-54.543	2.0	0	42.72	AV	54	PASS
	2462	Ant1	2483.5	-43.803	2.0	0	53.46	PEAK	74	PASS
	2462	Ant1	2483.5	-54.340	2.0	0	42.92	AV	54	PASS
	2462	Ant1	2500.0	-44.777	2.0	0	52.48	PEAK	74	PASS
	2462	Ant1	2500.0	-54.292	2.0	0	42.97	AV	54	PASS
11G	2412	Ant1	2310.0	-44.536	2.0	0	52.72	PEAK	74	PASS
	2412	Ant1	2310.0	-54.885	2.0	0	42.38	AV	54	PASS
	2412	Ant1	2390.0	-43.221	2.0	0	54.04	PEAK	74	PASS
	2412	Ant1	2390.0	-54.052	2.0	0	43.21	AV	54	PASS
	2462	Ant1	2483.5	-44.293	2.0	0	52.97	PEAK	74	PASS
	2462	Ant1	2483.5	-54.265	2.0	0	43.00	AV	54	PASS
	2462	Ant1	2500.0	-42.364	2.0	0	54.90	PEAK	74	PASS
	2462	Ant1	2500.0	-54.217	2.0	0	43.04	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.030	2.0	0	53.23	PEAK	74	PASS
	2412	Ant1	2310.0	-54.855	2.0	0	42.41	AV	54	PASS
	2412	Ant1	2390.0	-43.432	2.0	0	53.83	PEAK	74	PASS
	2412	Ant1	2390.0	-53.949	2.0	0	43.31	AV	54	PASS
	2462	Ant1	2483.5	-44.171	2.0	0	53.09	PEAK	74	PASS
	2462	Ant1	2483.5	-54.237	2.0	0	43.02	AV	54	PASS
	2462	Ant1	2500.0	-42.934	2.0	0	54.33	PEAK	74	PASS
	2462	Ant1	2500.0	-54.209	2.0	0	43.05	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.779	2.0	0	53.48	PEAK	74	PASS
	2422	Ant1	2310.0	-54.867	2.0	0	42.39	AV	54	PASS

	2422	Ant1	2390.0	-43.794	2.0	0	53.47	PEAK	74	PASS
	2422	Ant1	2390.0	-52.889	2.0	0	44.37	AV	54	PASS
	2452	Ant1	2483.5	-44.147	2.0	0	53.11	PEAK	74	PASS
	2452	Ant1	2483.5	-54.176	2.0	0	43.08	AV	54	PASS
	2452	Ant1	2500.0	-44.239	2.0	0	53.02	PEAK	74	PASS
	2452	Ant1	2500.0	-54.149	2.0	0	43.11	AV	54	PASS

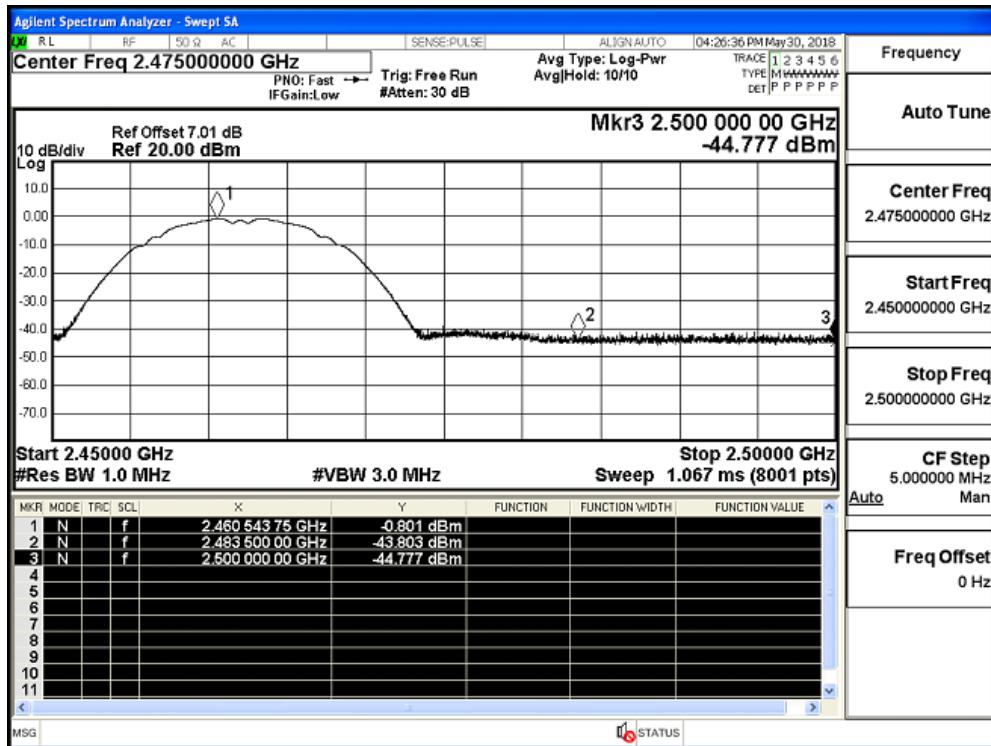
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



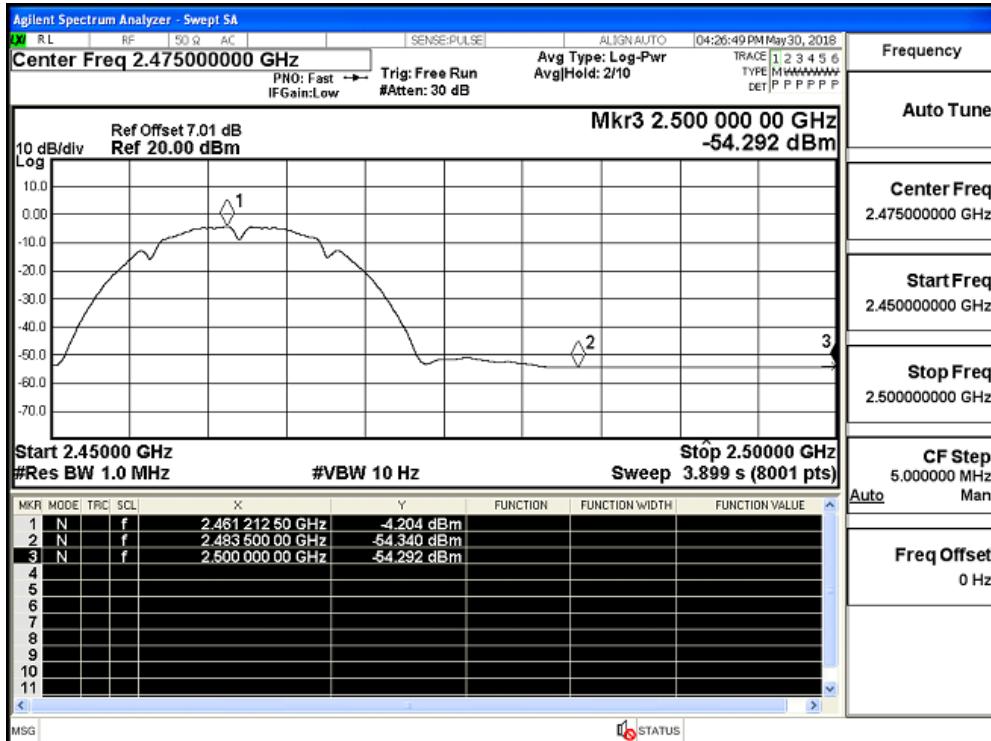
Restrict-band band-edge measurements_11B_2412_Ant1_AV



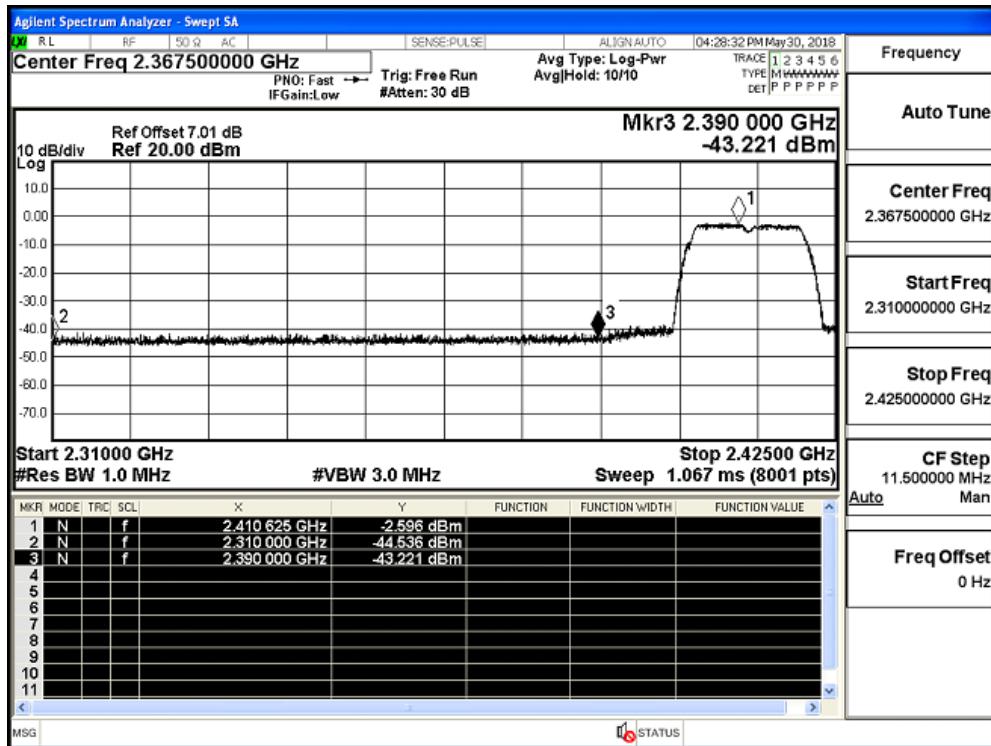
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



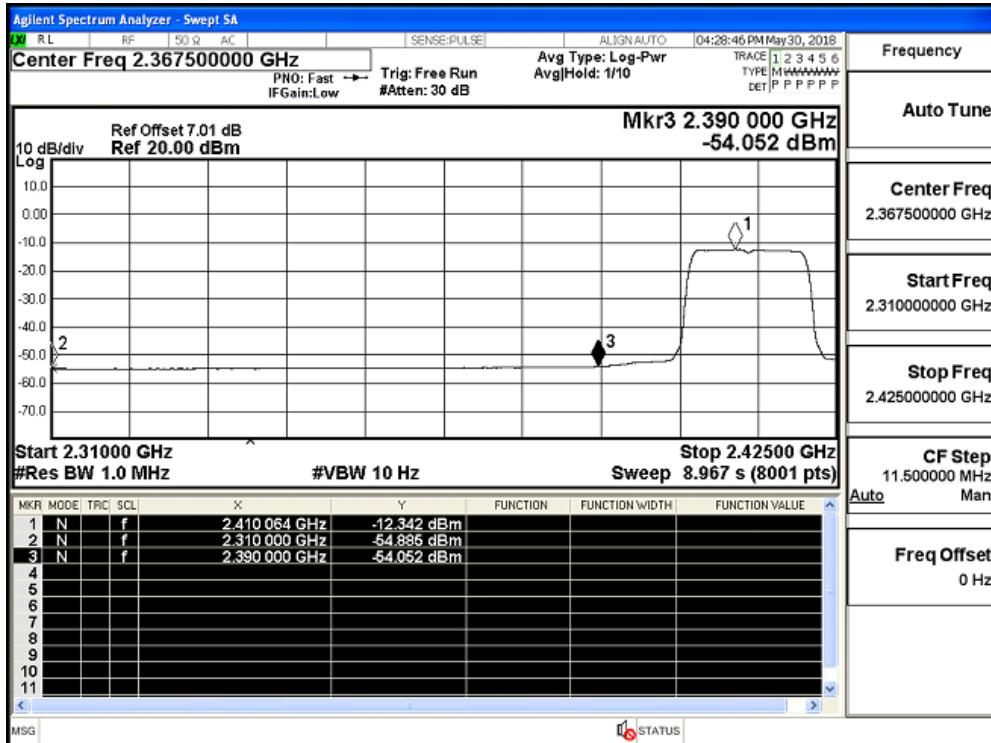
Restrict-band band-edge measurements_11B_2462_Ant1_AV



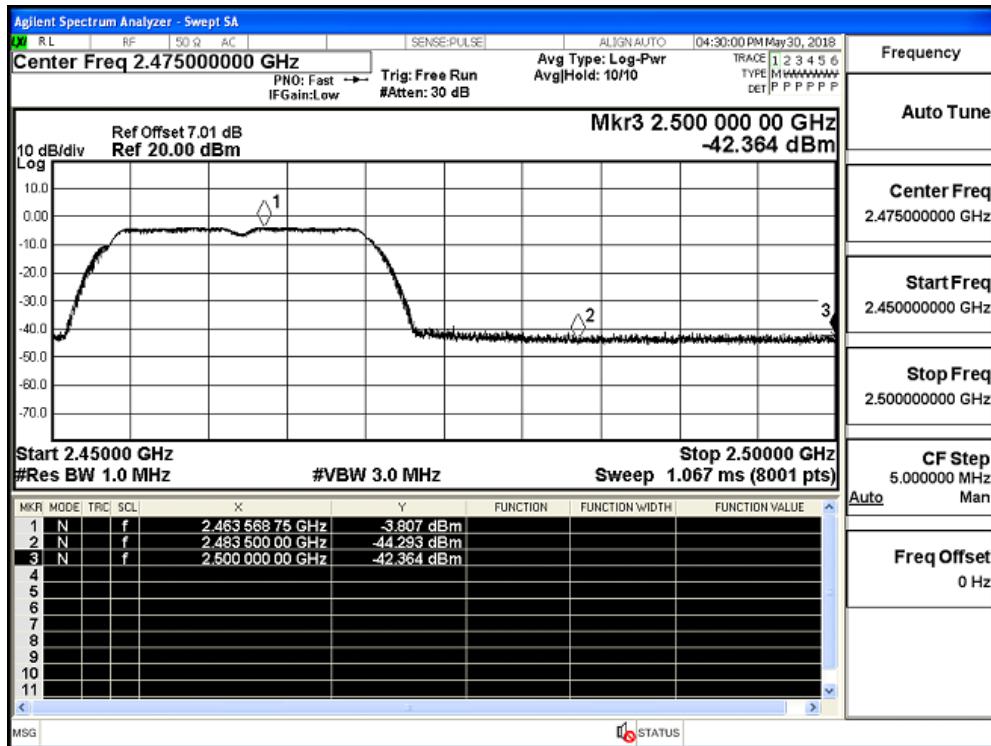
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



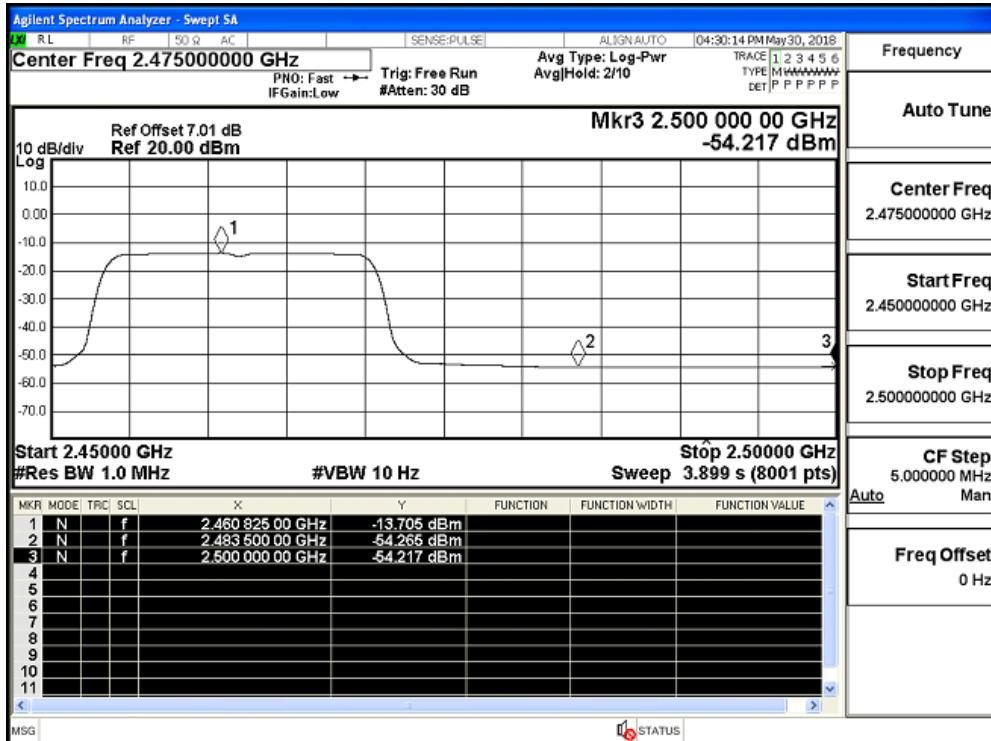
Restrict-band band-edge measurements_11G_2412_Ant1_AV



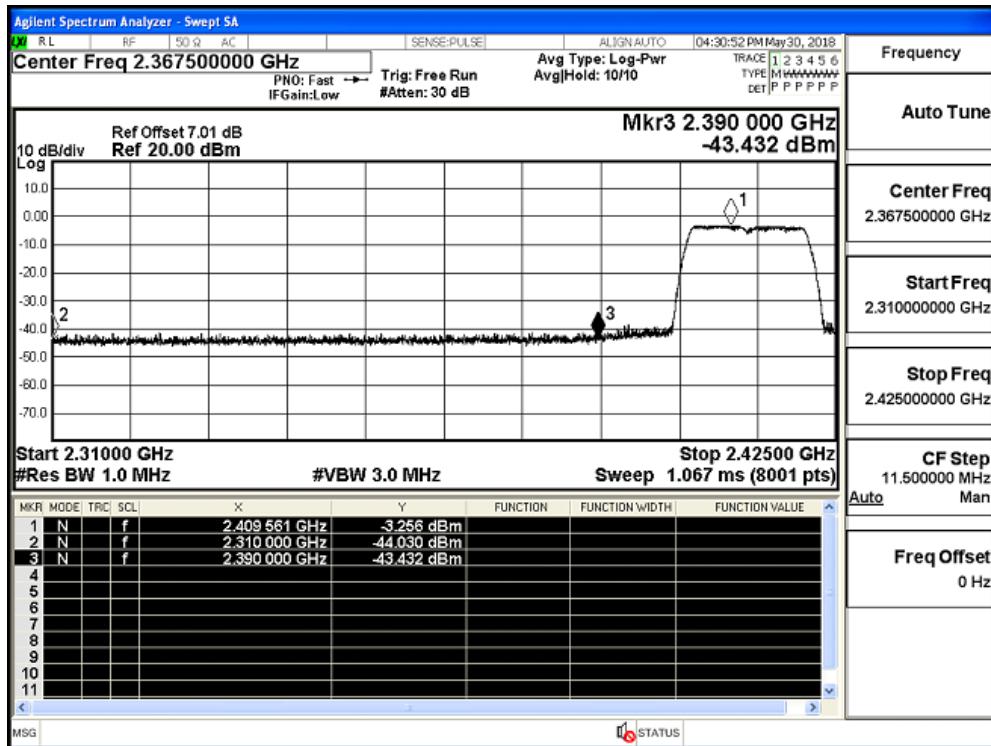
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



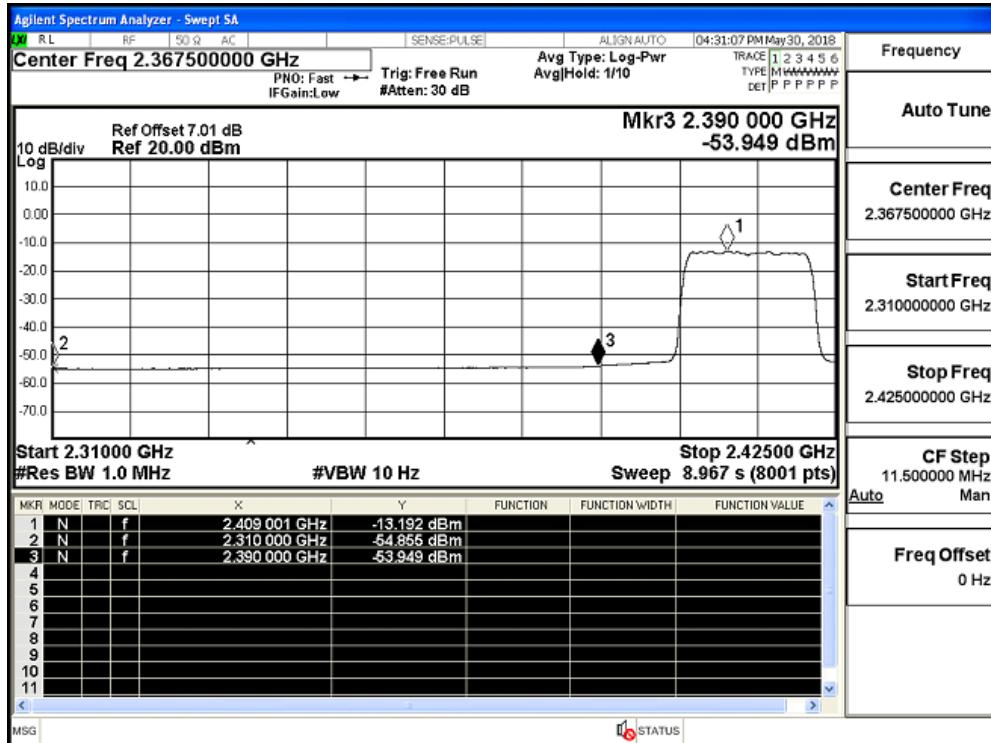
Restrict-band band-edge measurements_11G_2462_Ant1_AV



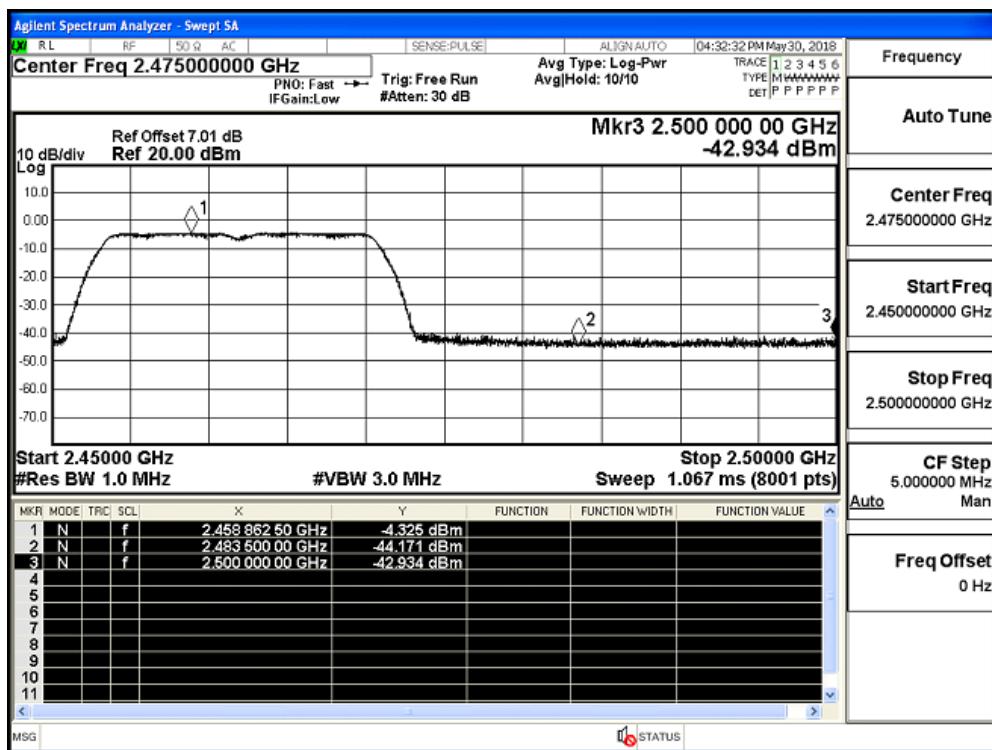
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



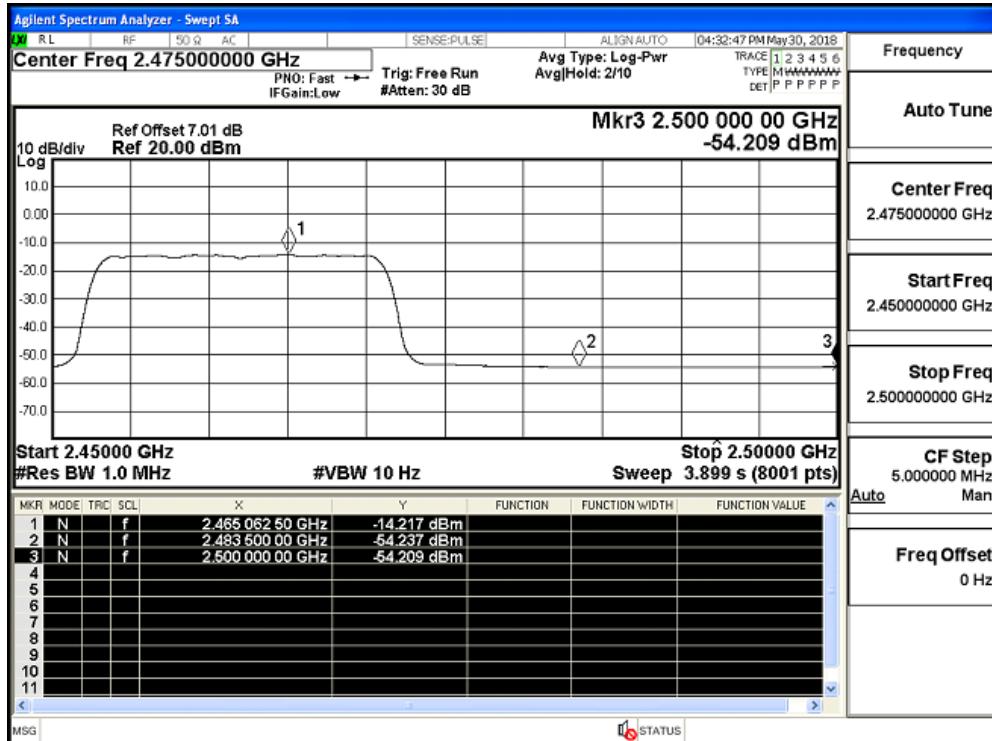
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



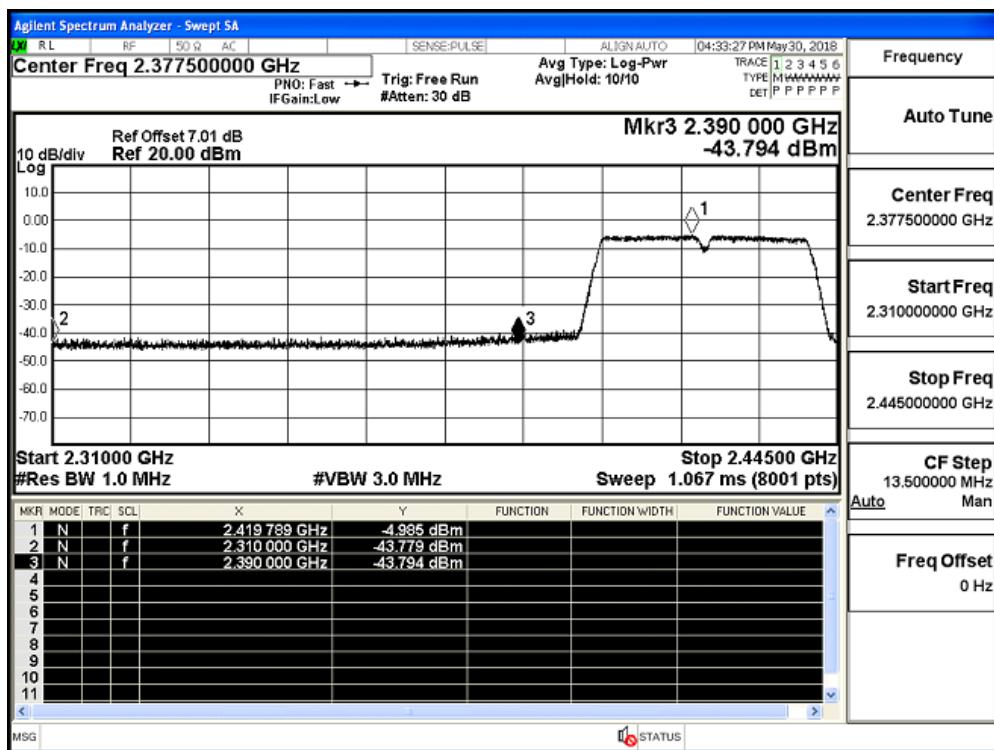
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



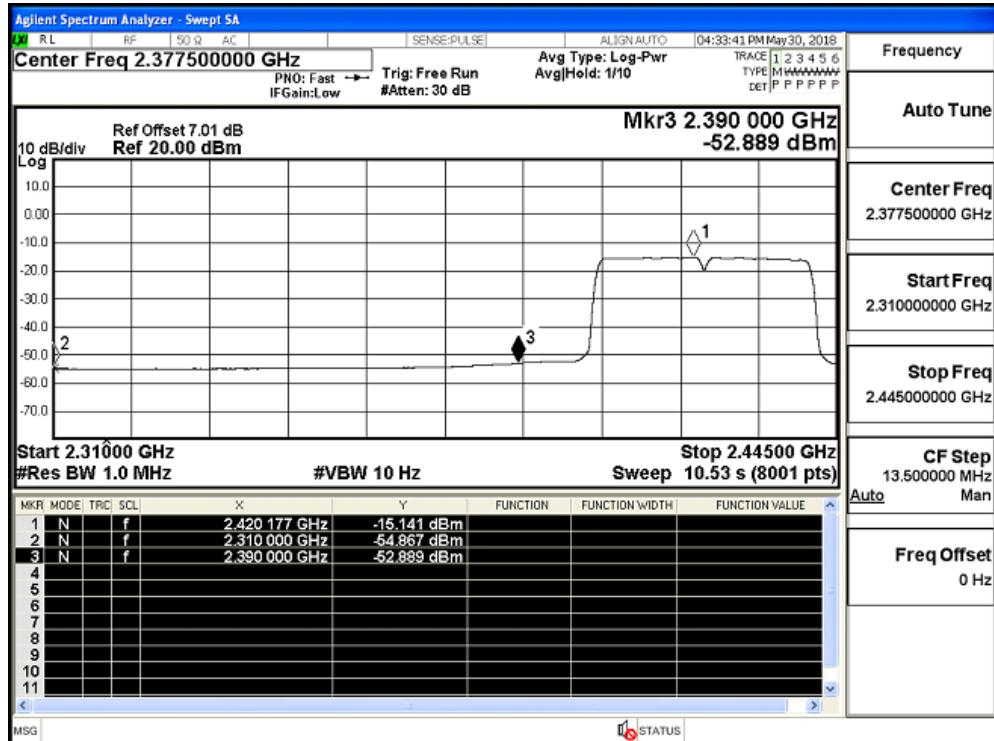
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



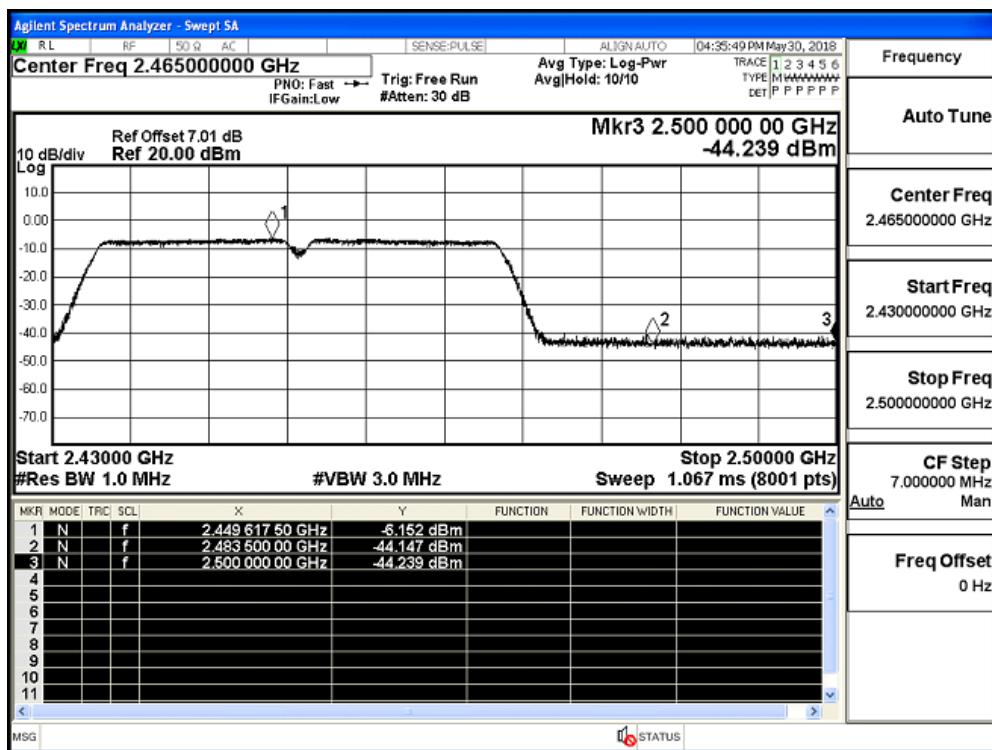
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

