

## Appendix C

### RF Test Data for 2.4G WIFI (Conducted Measurement)

**Product Name:** 4G Smartphones

**Trade Mark:** Kenxinda, Ken mobile, KXD, E&L, EL

**Test Model:** Y50

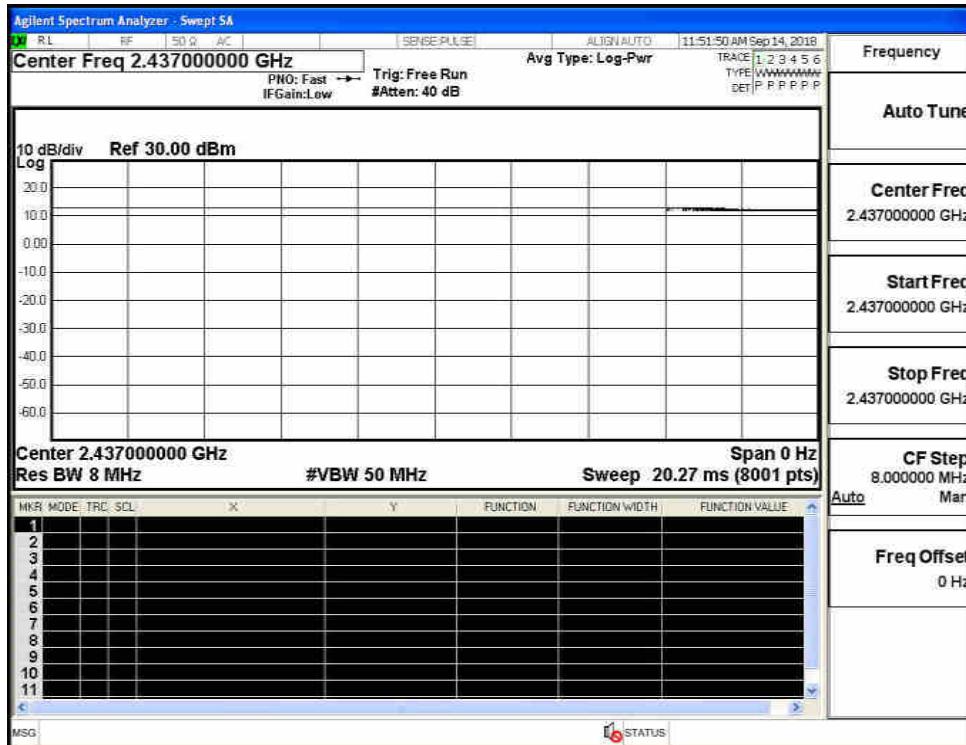
#### Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

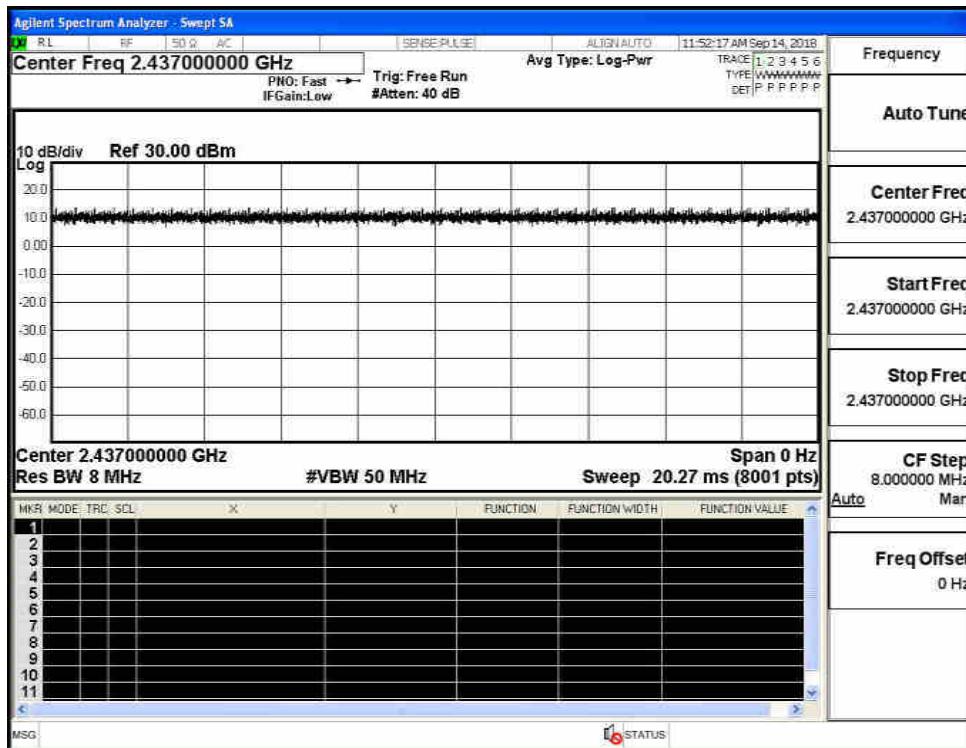
#### C.1 Duty Cycle

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

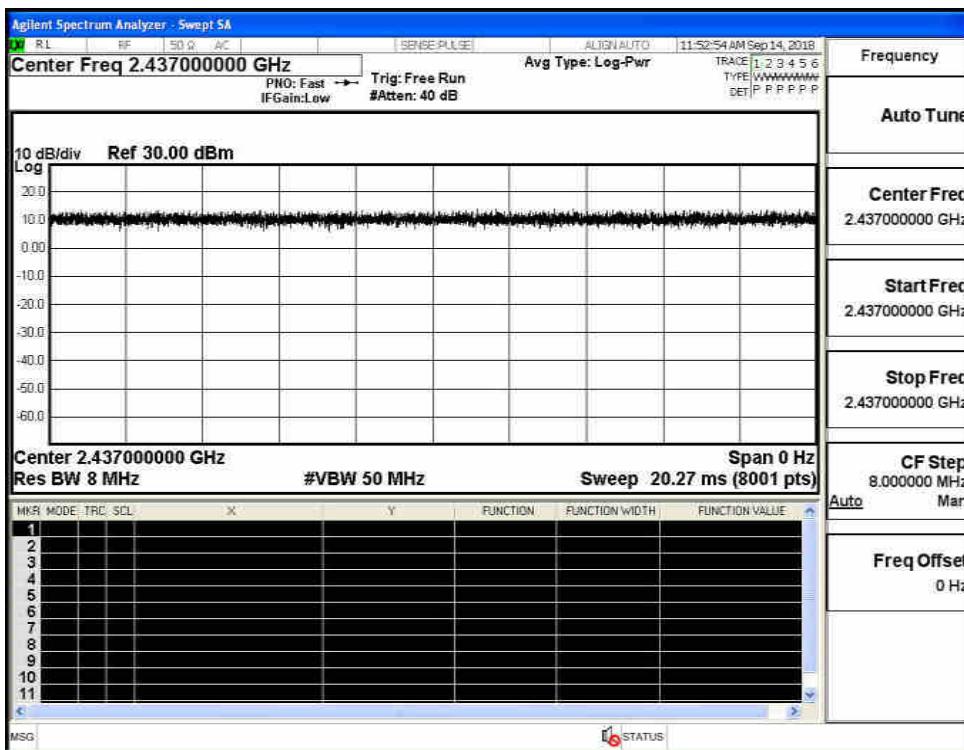
## Duty Cycle\_11B\_2437\_Ant1



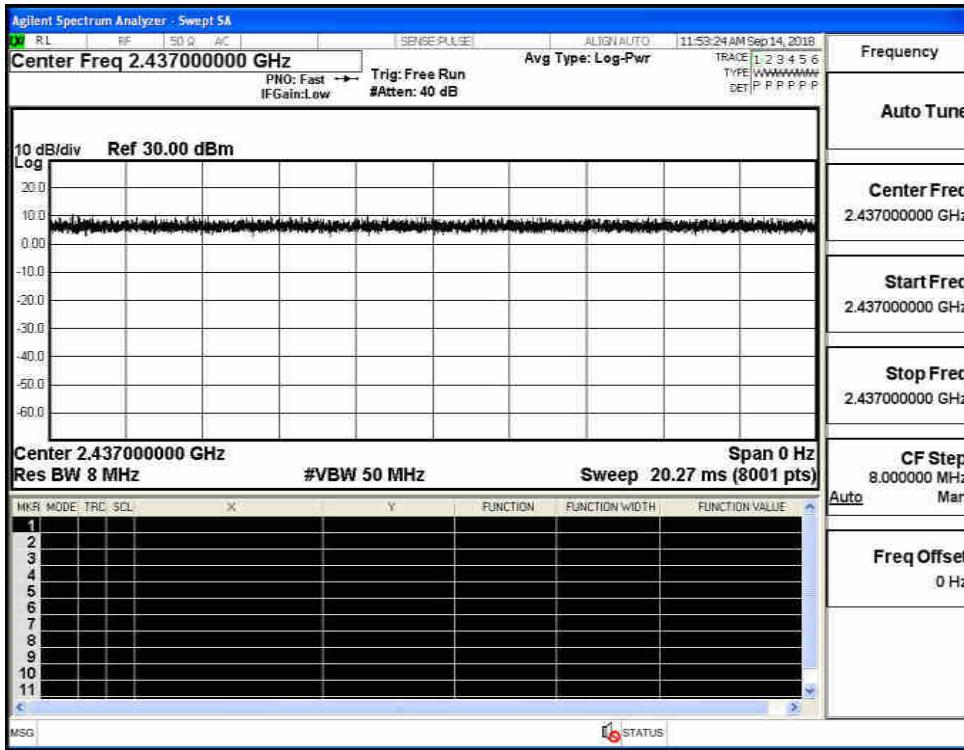
## Duty Cycle\_11G\_2437\_Ant1



## Duty Cycle\_11N20SISO\_2437\_Ant1



## Duty Cycle\_11N40SISO\_2437\_Ant1

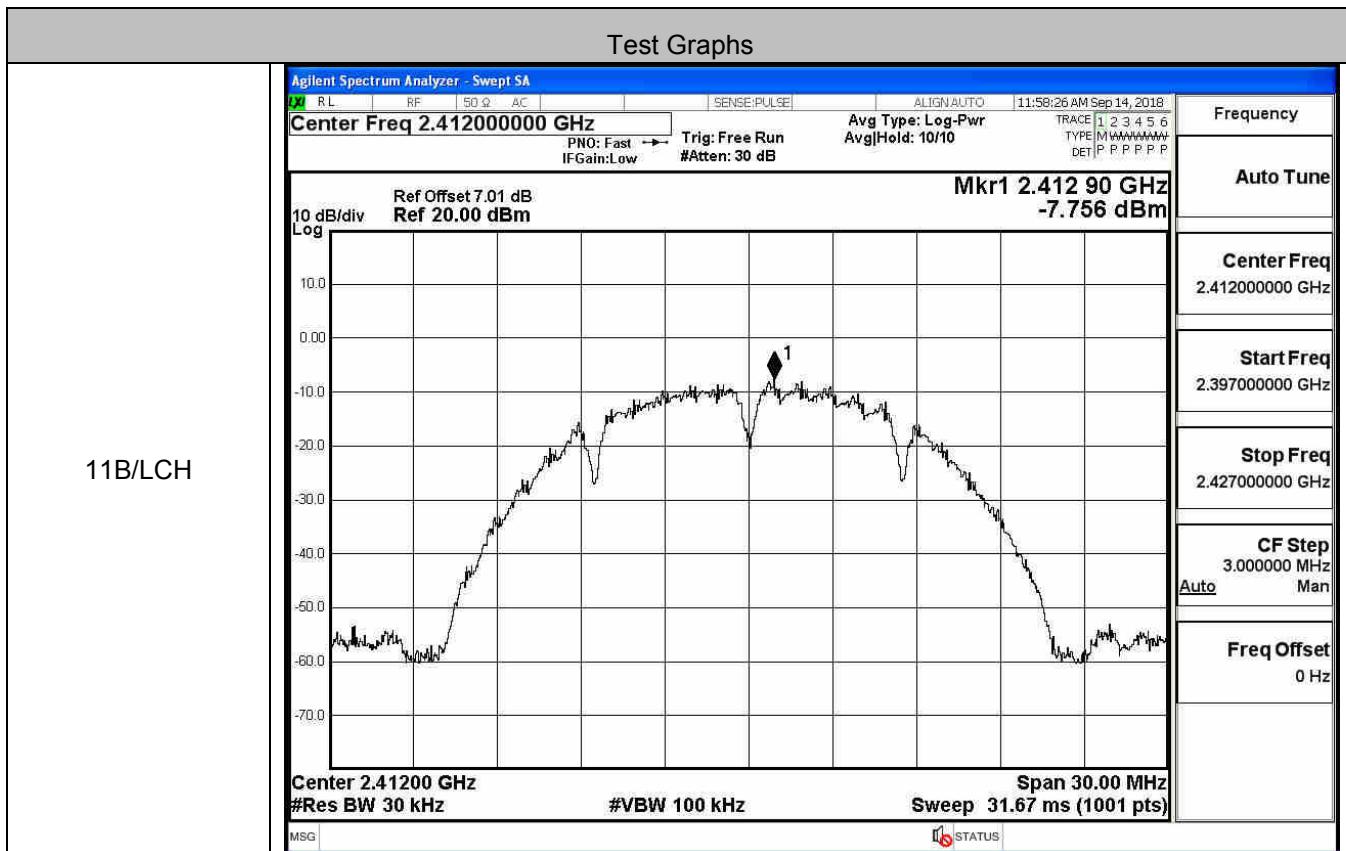


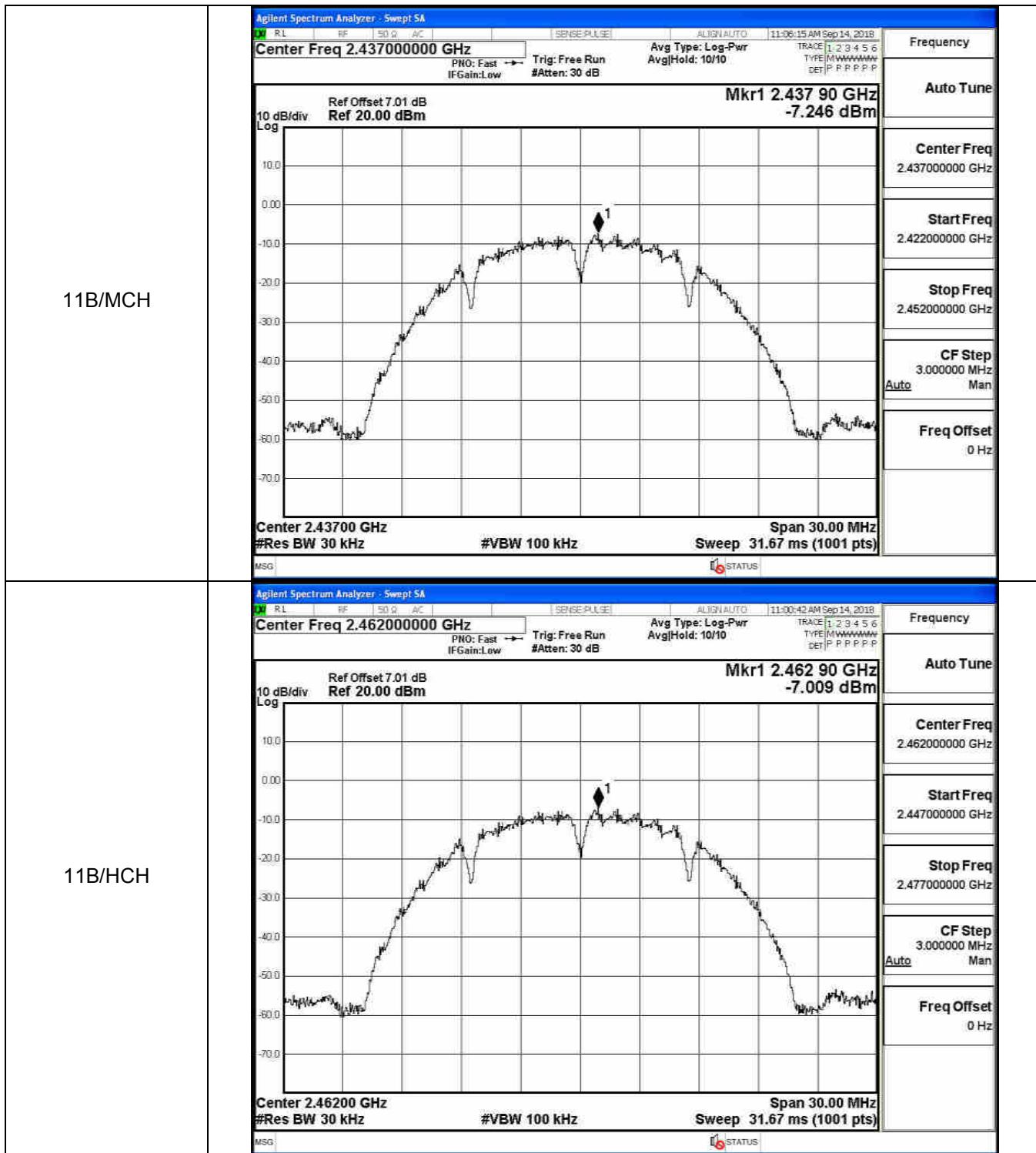
## C.2 Maximum Conducted Output Power

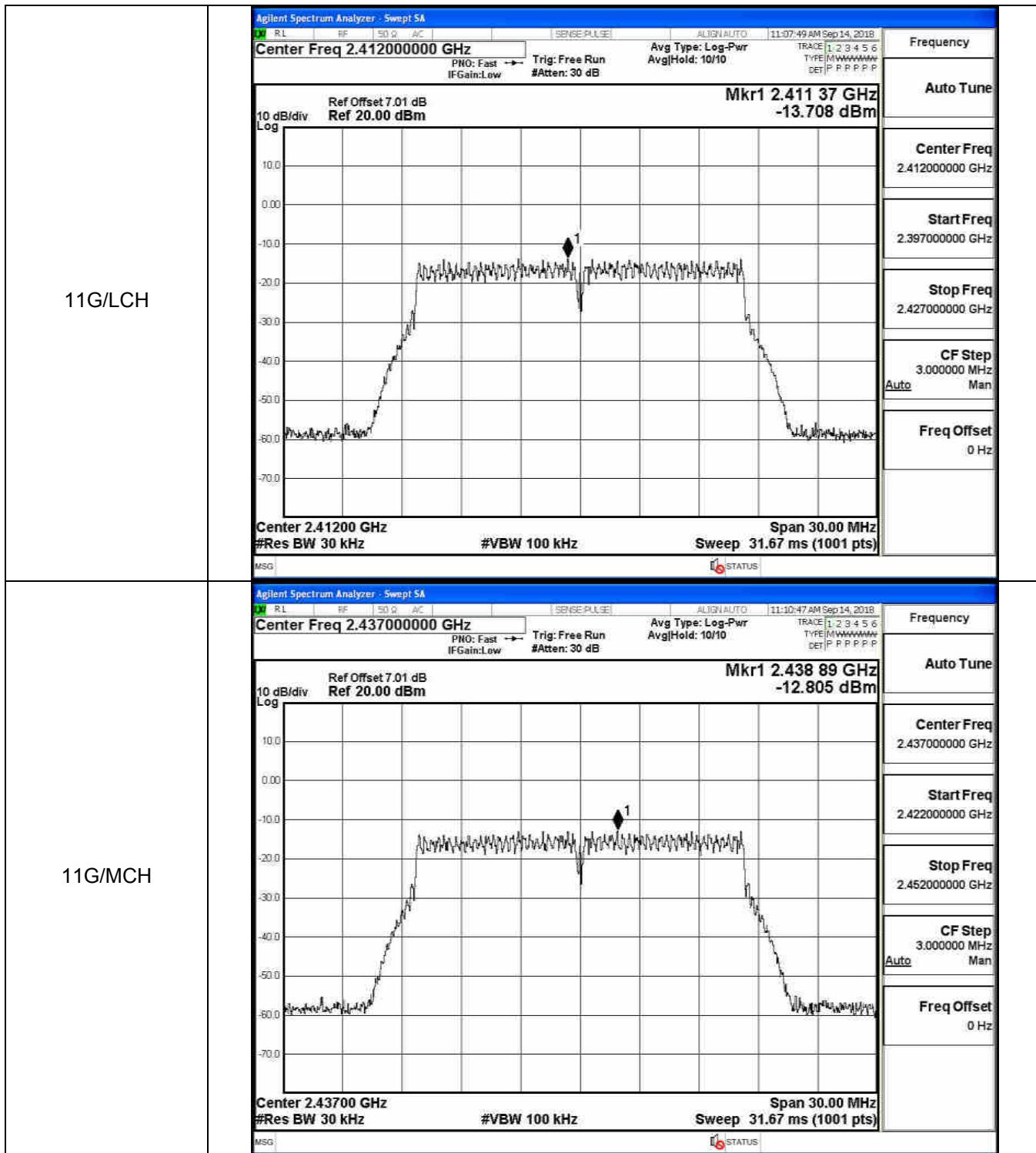
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	9.84	30	PASS
	MCH	10.93	30	PASS
	HCH	11.14	30	PASS
11G	LCH	11.06	30	PASS
	MCH	11.99	30	PASS
	HCH	12.46	30	PASS
11N20SISO	LCH	11.08	30	PASS
	MCH	12.21	30	PASS
	HCH	12.35	30	PASS
11N40SISO	LCH	11.21	30	PASS
	MCH	12.04	30	PASS
	HCH	12.48	30	PASS

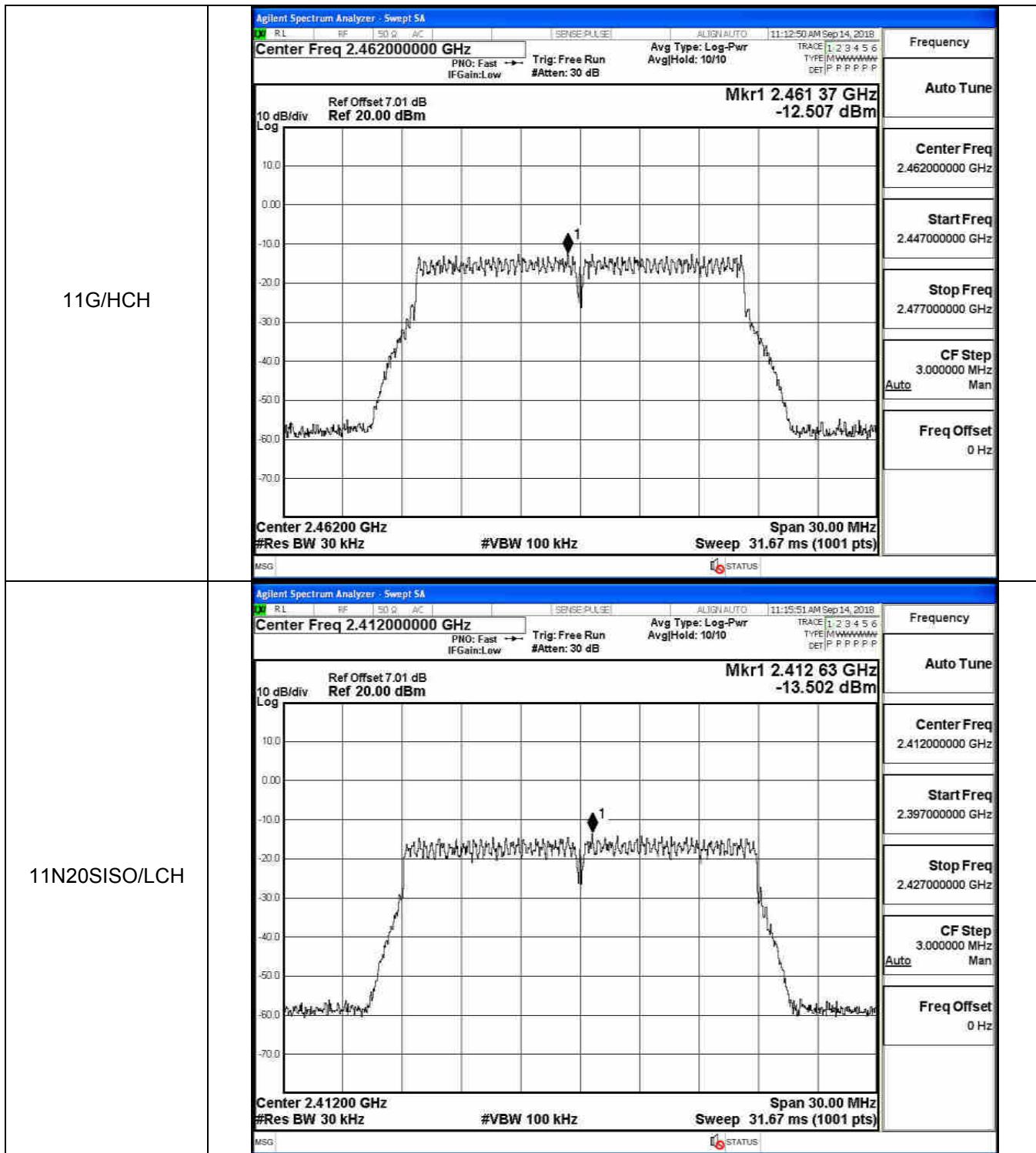
### C.3 Maximum Power Spectral Density

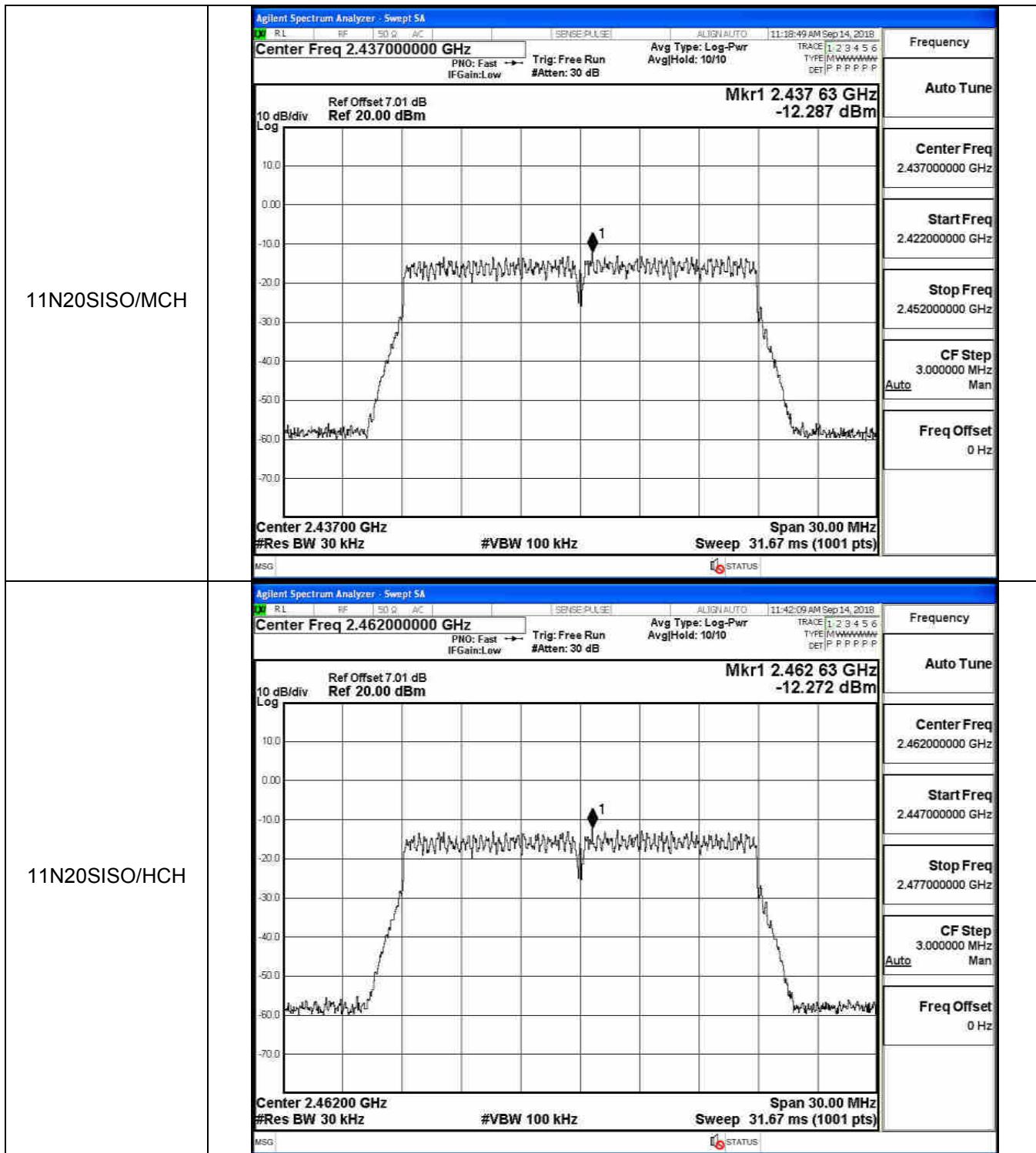
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-7.756	8	PASS
	MCH	-7.246	8	PASS
	HCH	-7.009	8	PASS
11G	LCH	-13.708	8	PASS
	MCH	-12.805	8	PASS
	HCH	-12.507	8	PASS
11N20SISO	LCH	-13.502	8	PASS
	MCH	-12.287	8	PASS
	HCH	-12.272	8	PASS
11N40SISO	LCH	-16.871	8	PASS
	MCH	-15.225	8	PASS
	HCH	-15.550	8	PASS

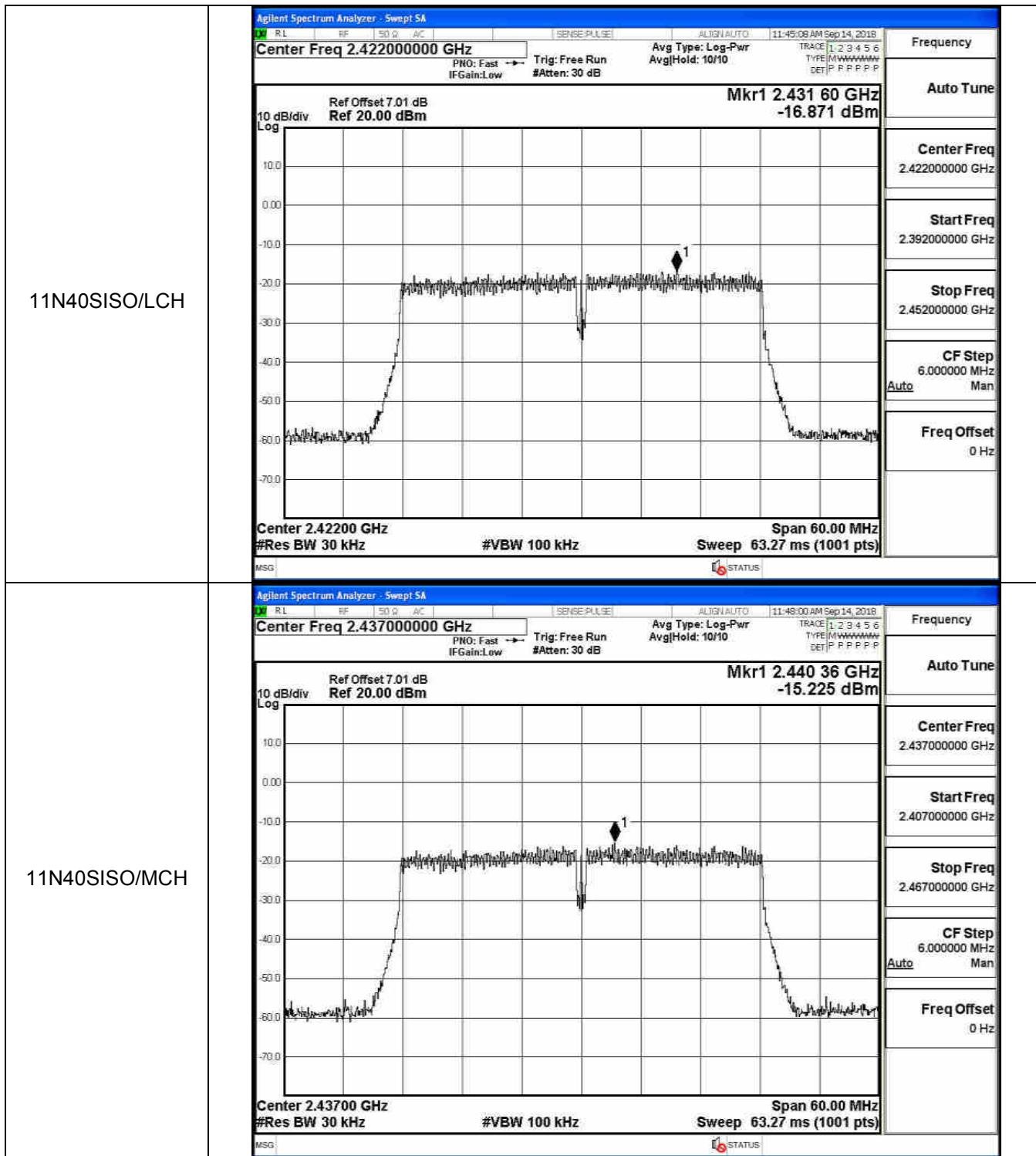


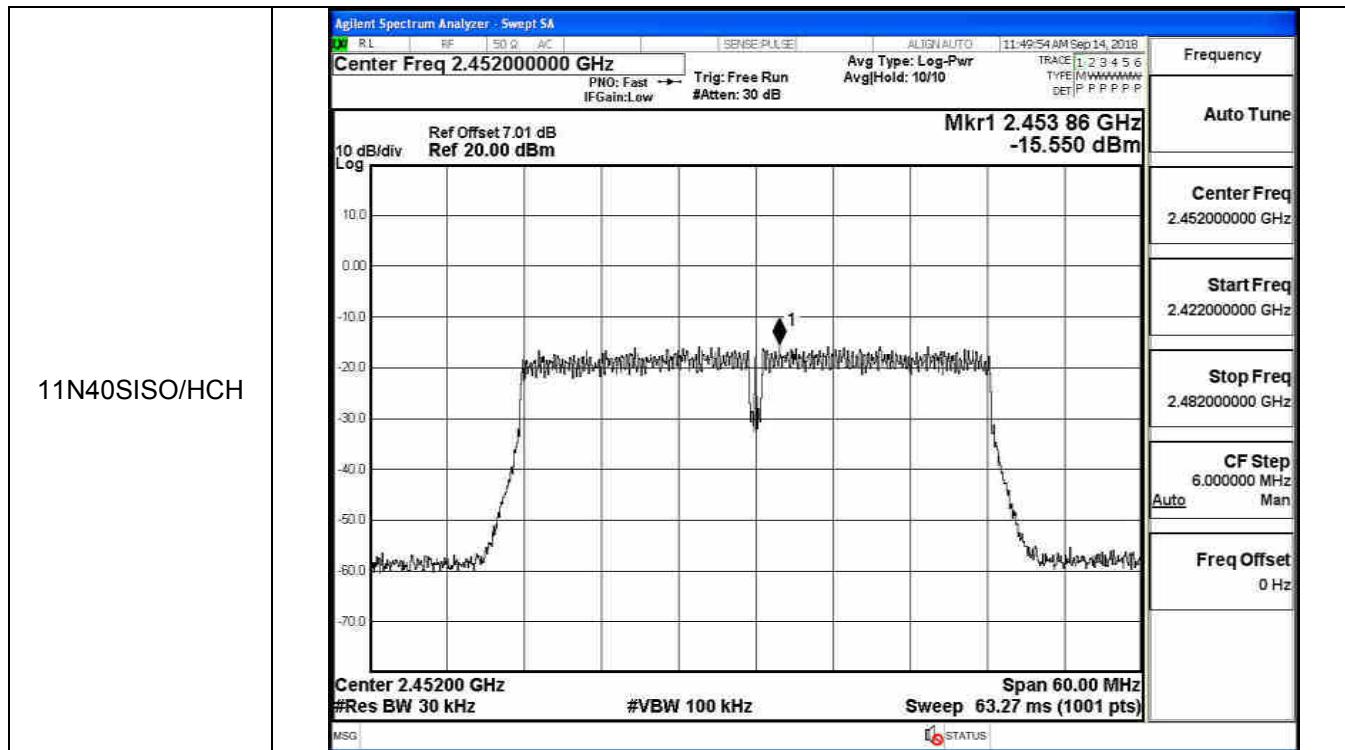








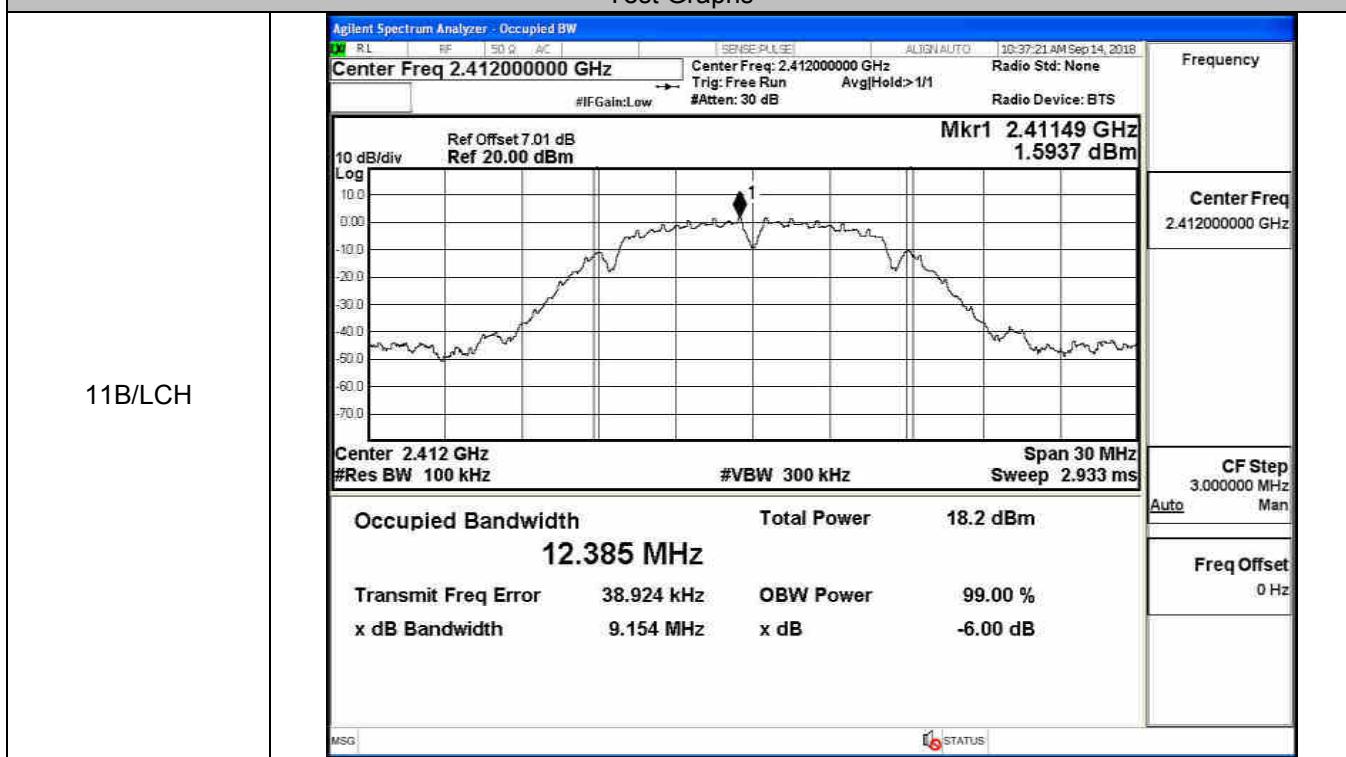


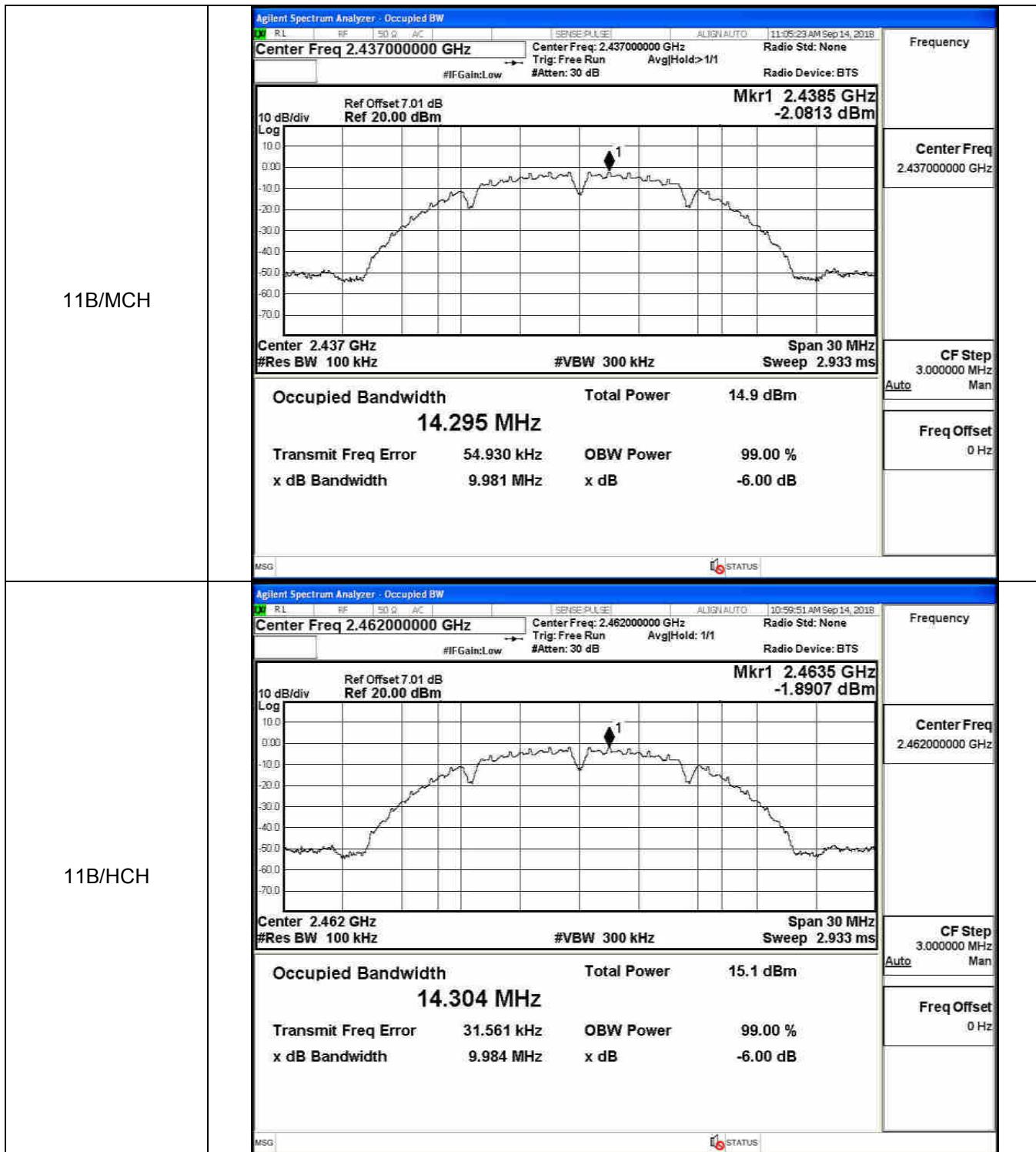


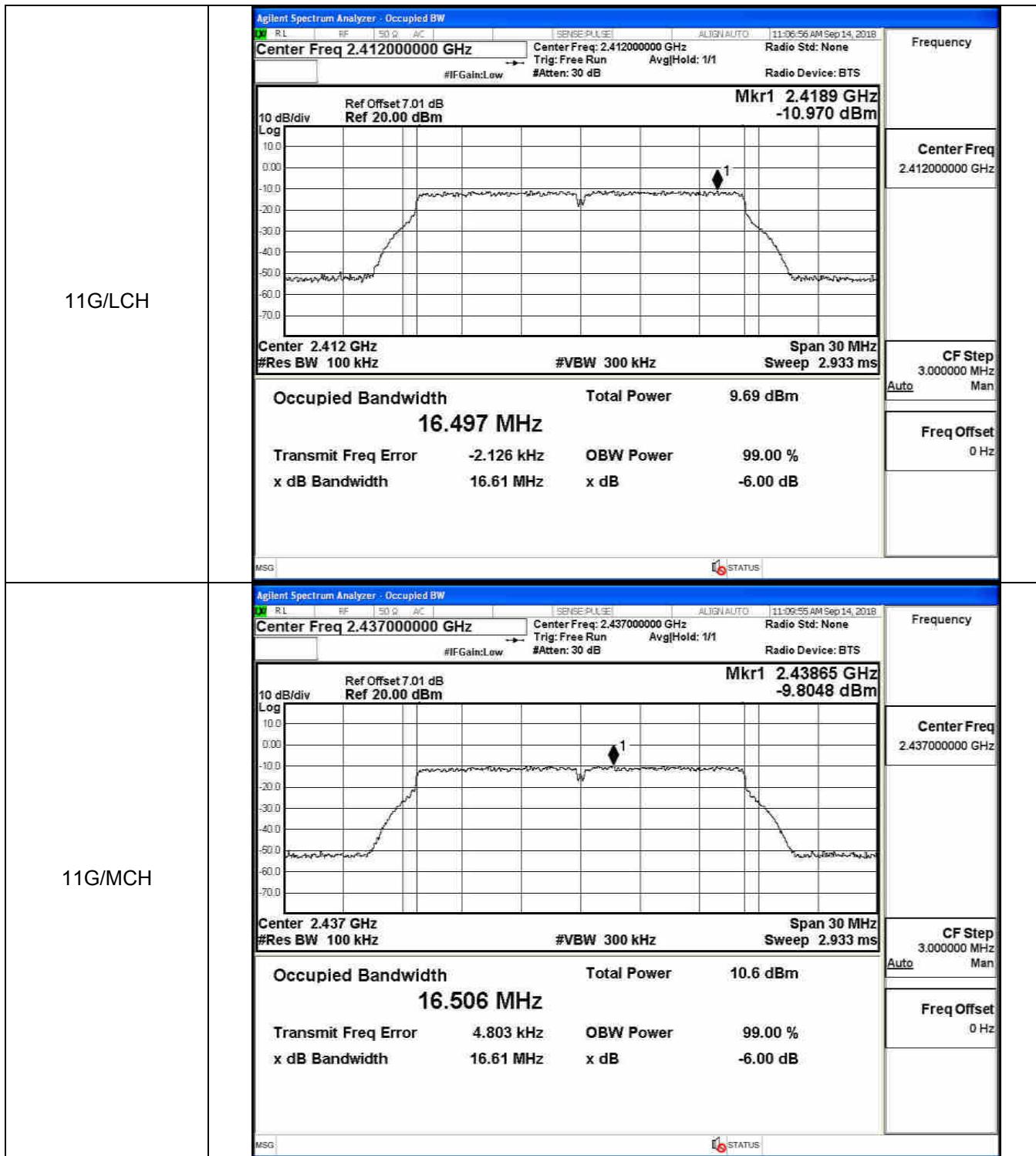
#### C.4 6dB Bandwidth

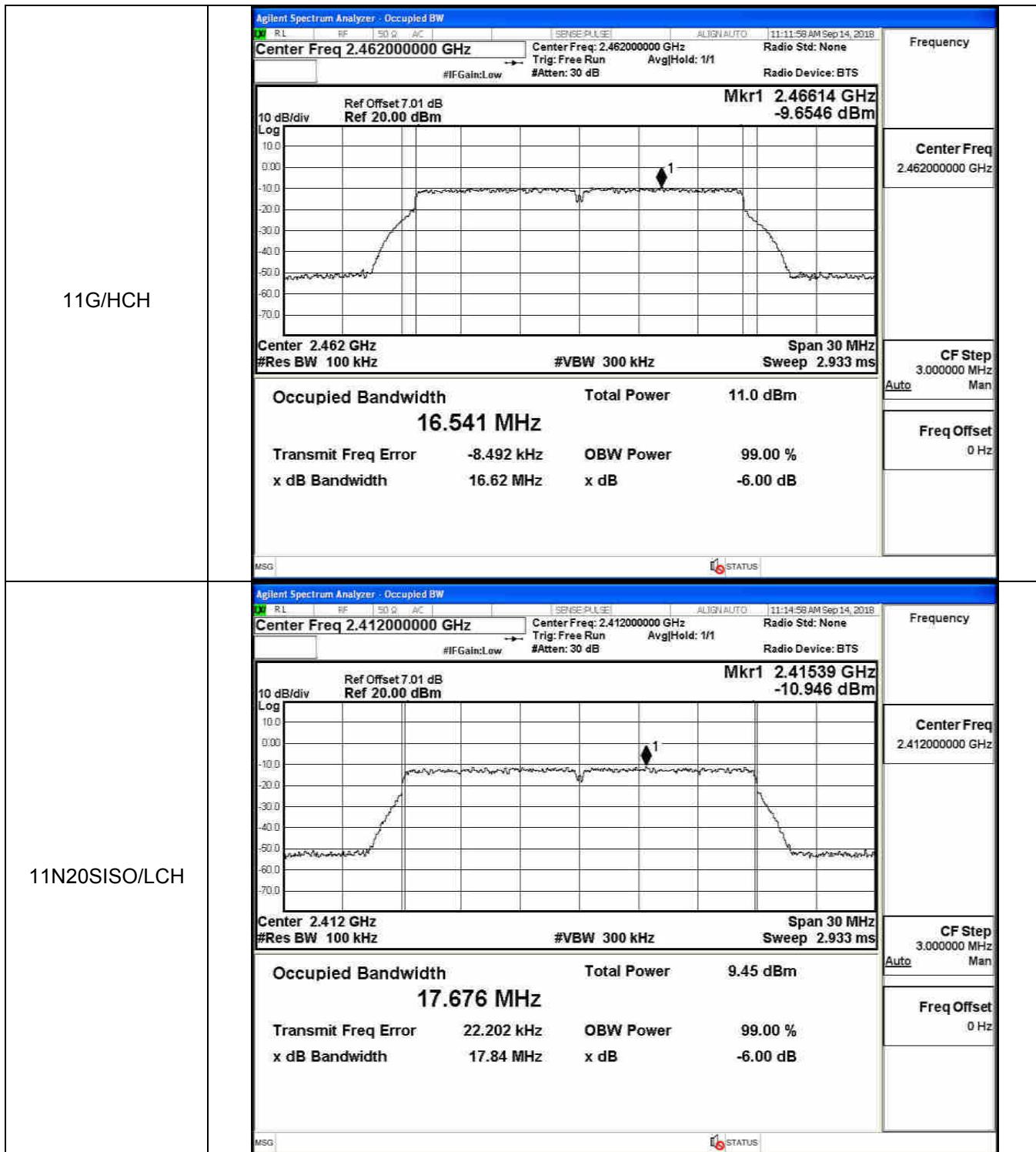
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.154	≥0.5	PASS
	MCH	9.981	≥0.5	PASS
	HCH	9.984	≥0.5	PASS
11G	LCH	16.61	≥0.5	PASS
	MCH	16.61	≥0.5	PASS
	HCH	16.62	≥0.5	PASS
11N20SISO	LCH	17.84	≥0.5	PASS
	MCH	17.83	≥0.5	PASS
	HCH	17.82	≥0.5	PASS
11N40SISO	LCH	36.49	≥0.5	PASS
	MCH	36.51	≥0.5	PASS
	HCH	36.49	≥0.5	PASS

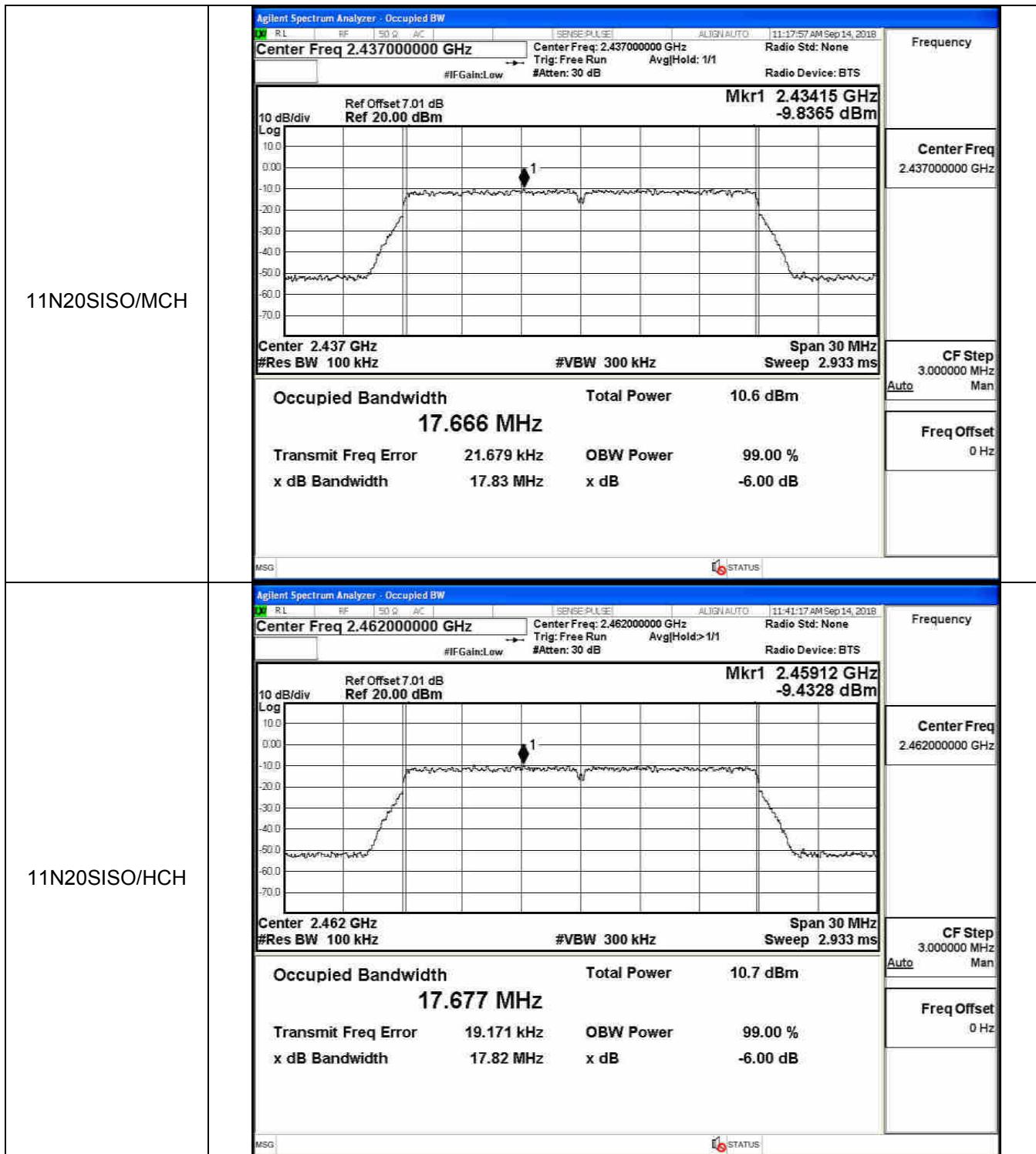
#### Test Graphs

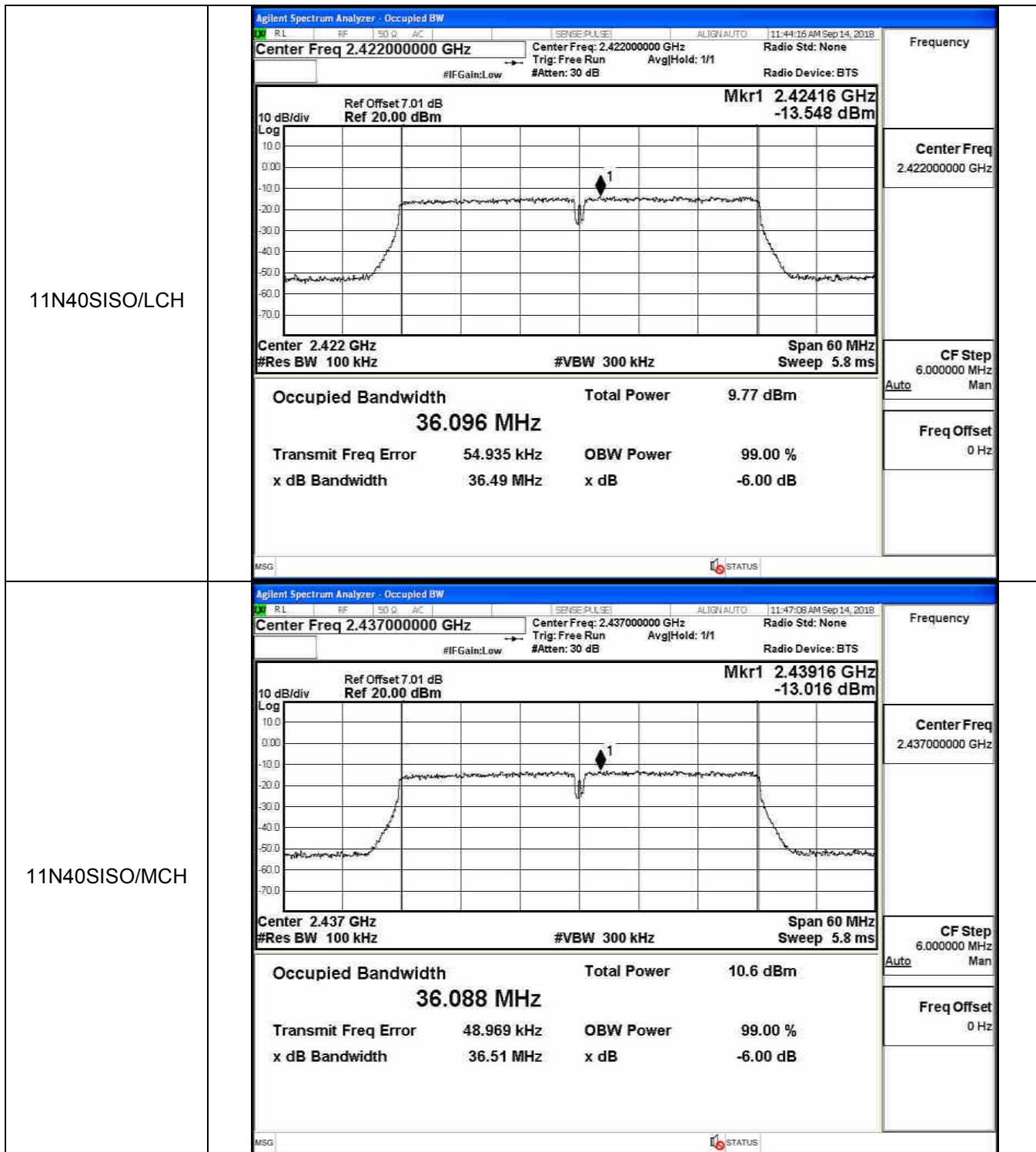


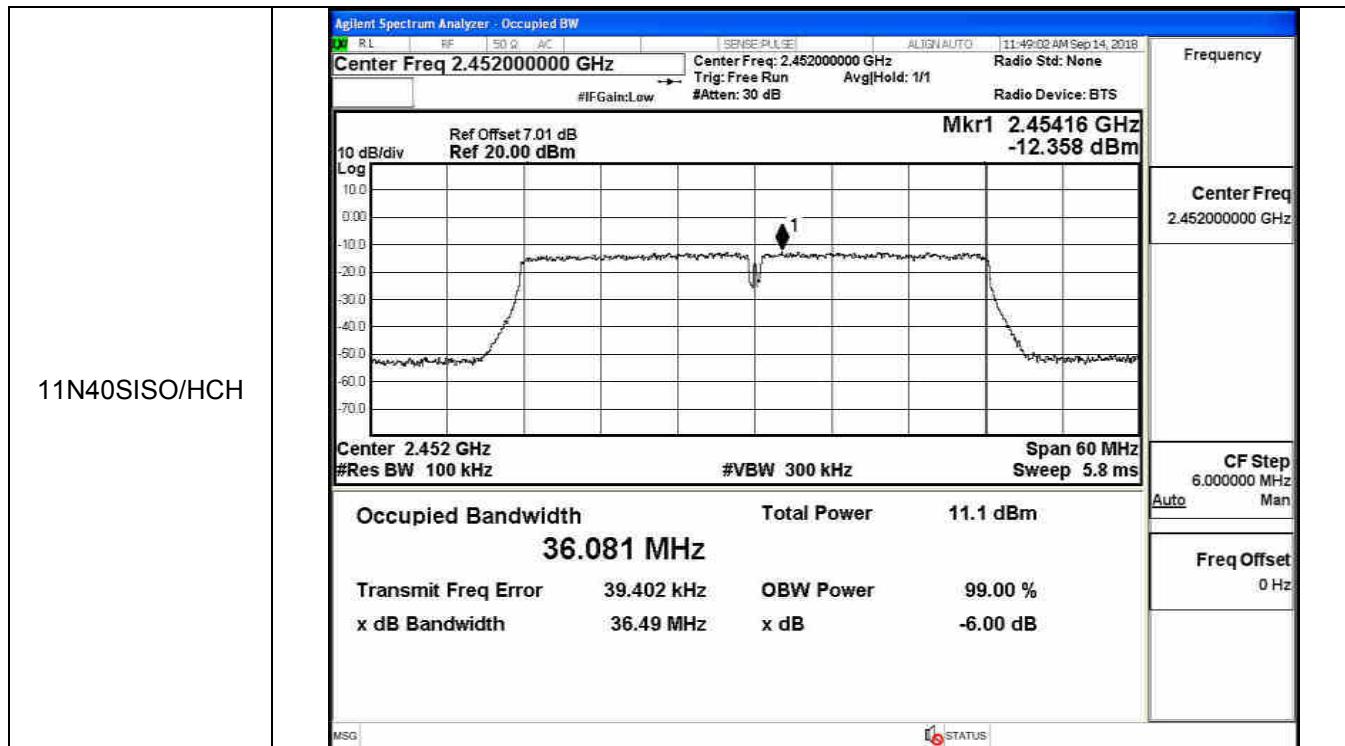






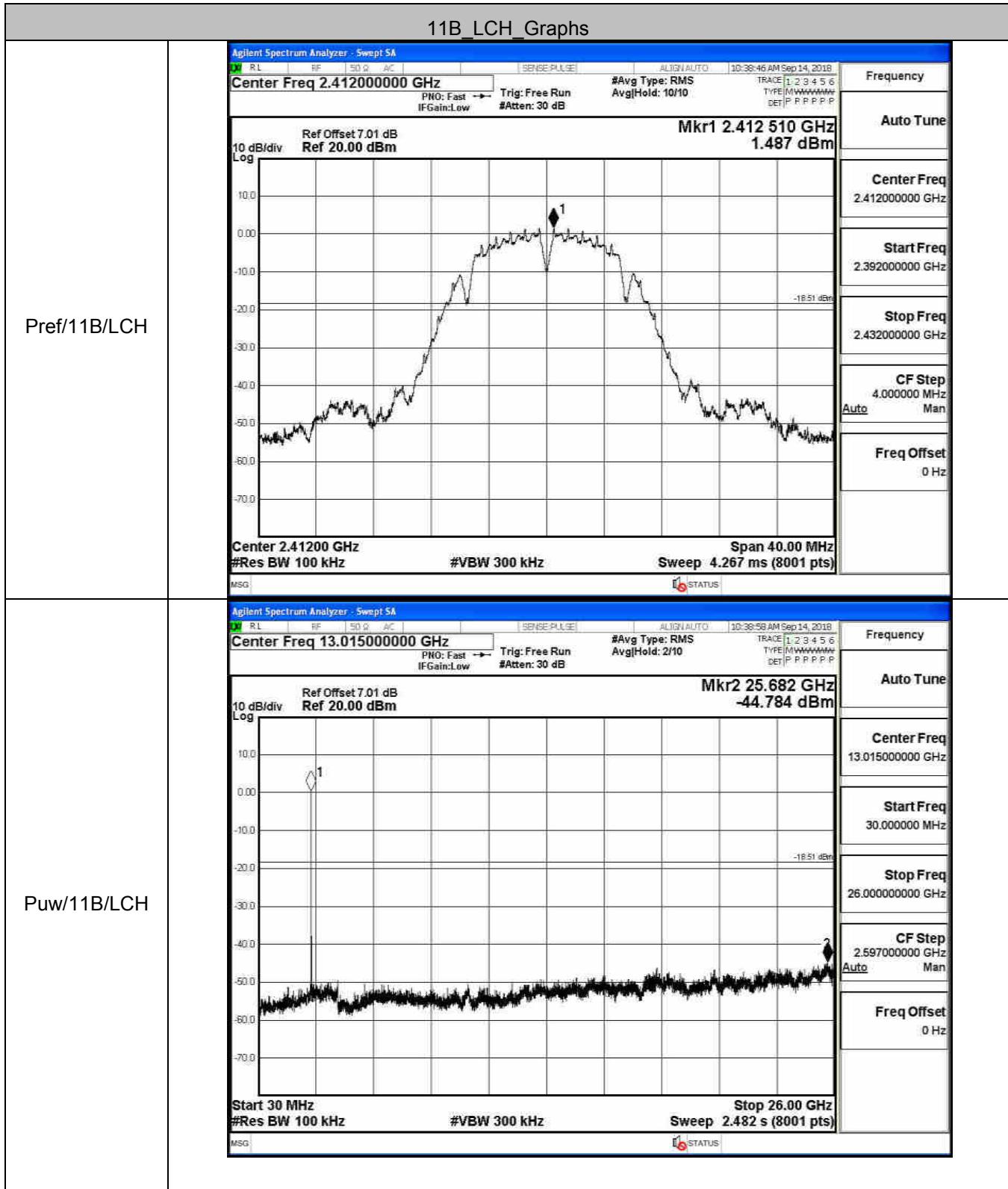


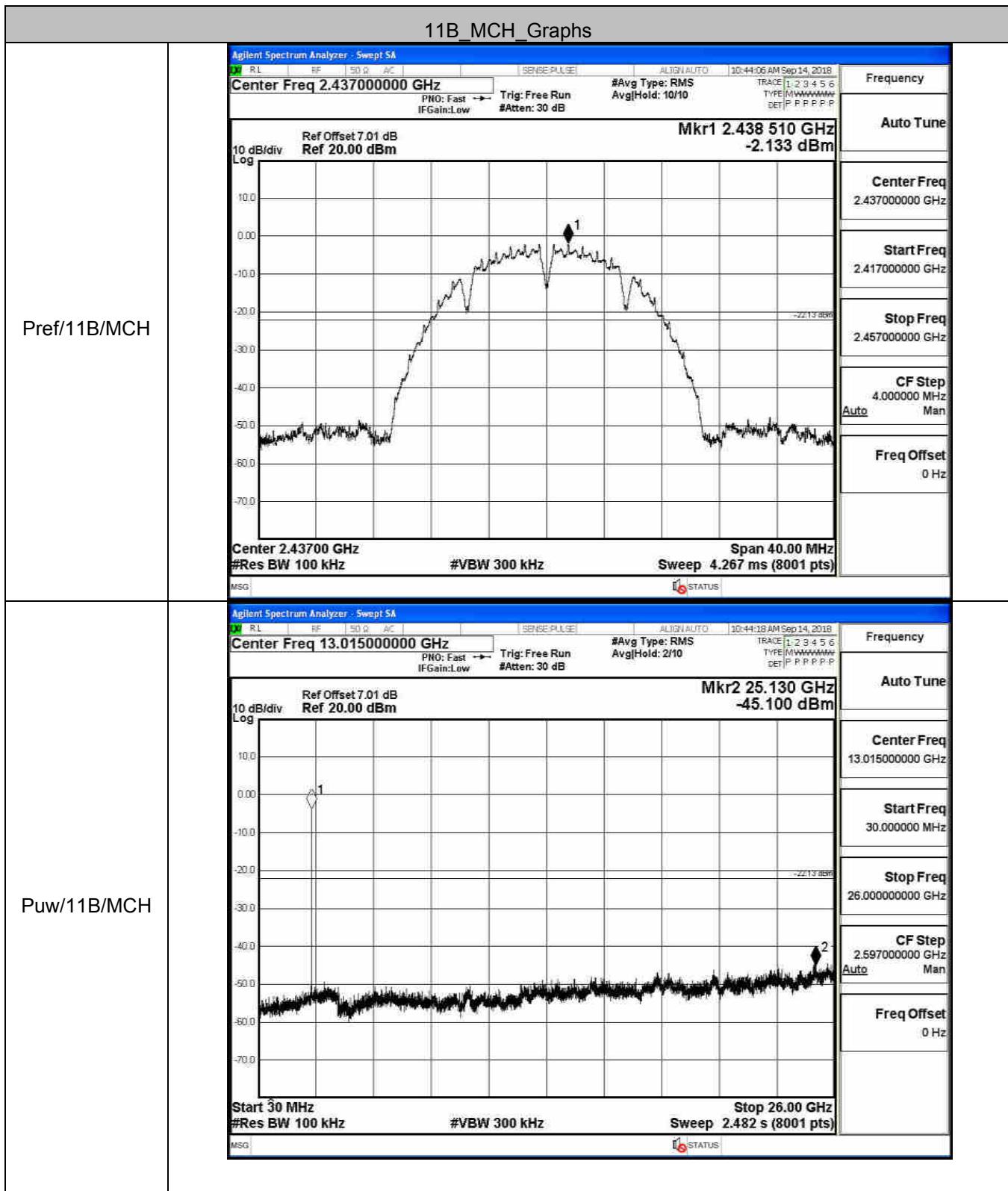


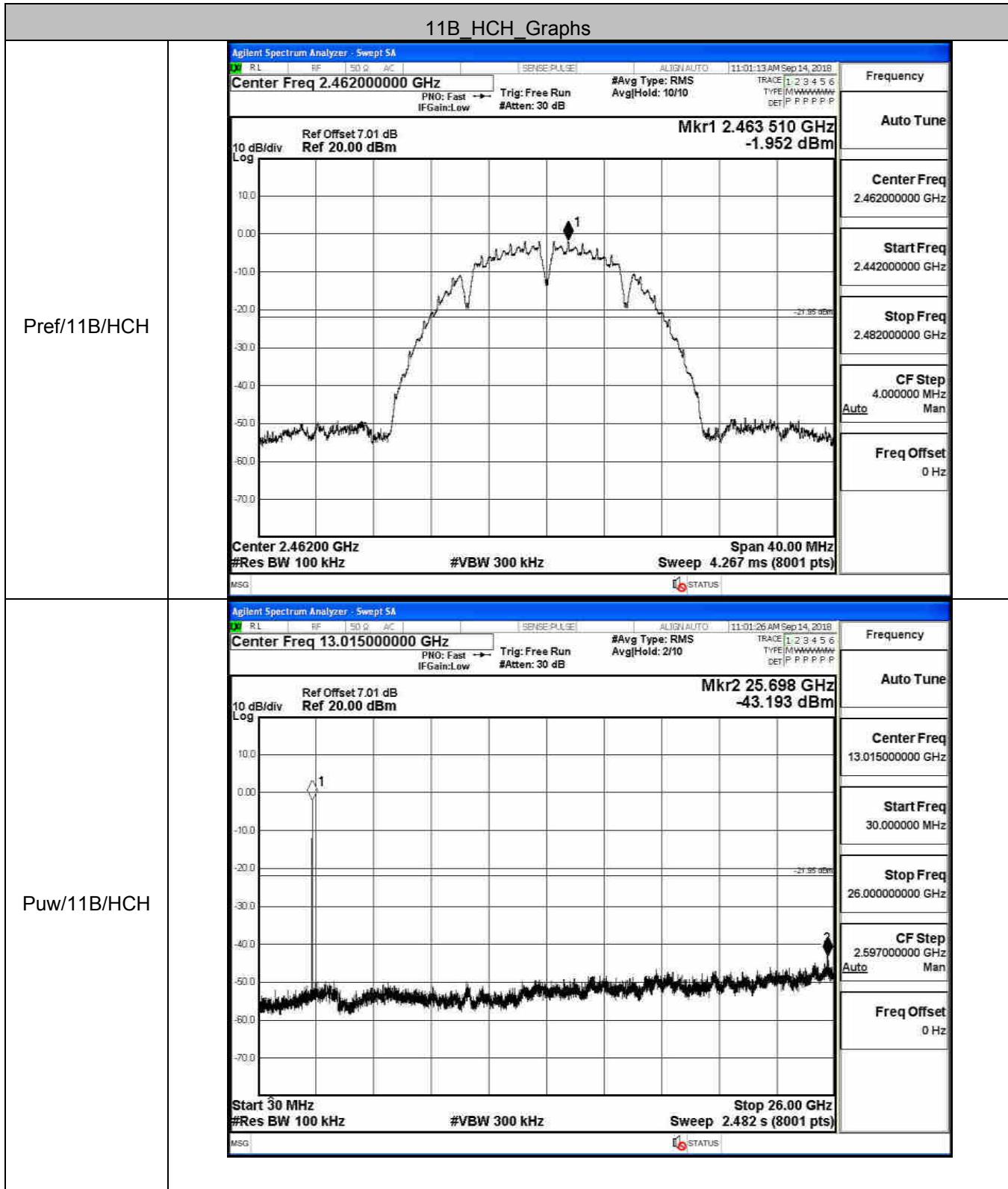


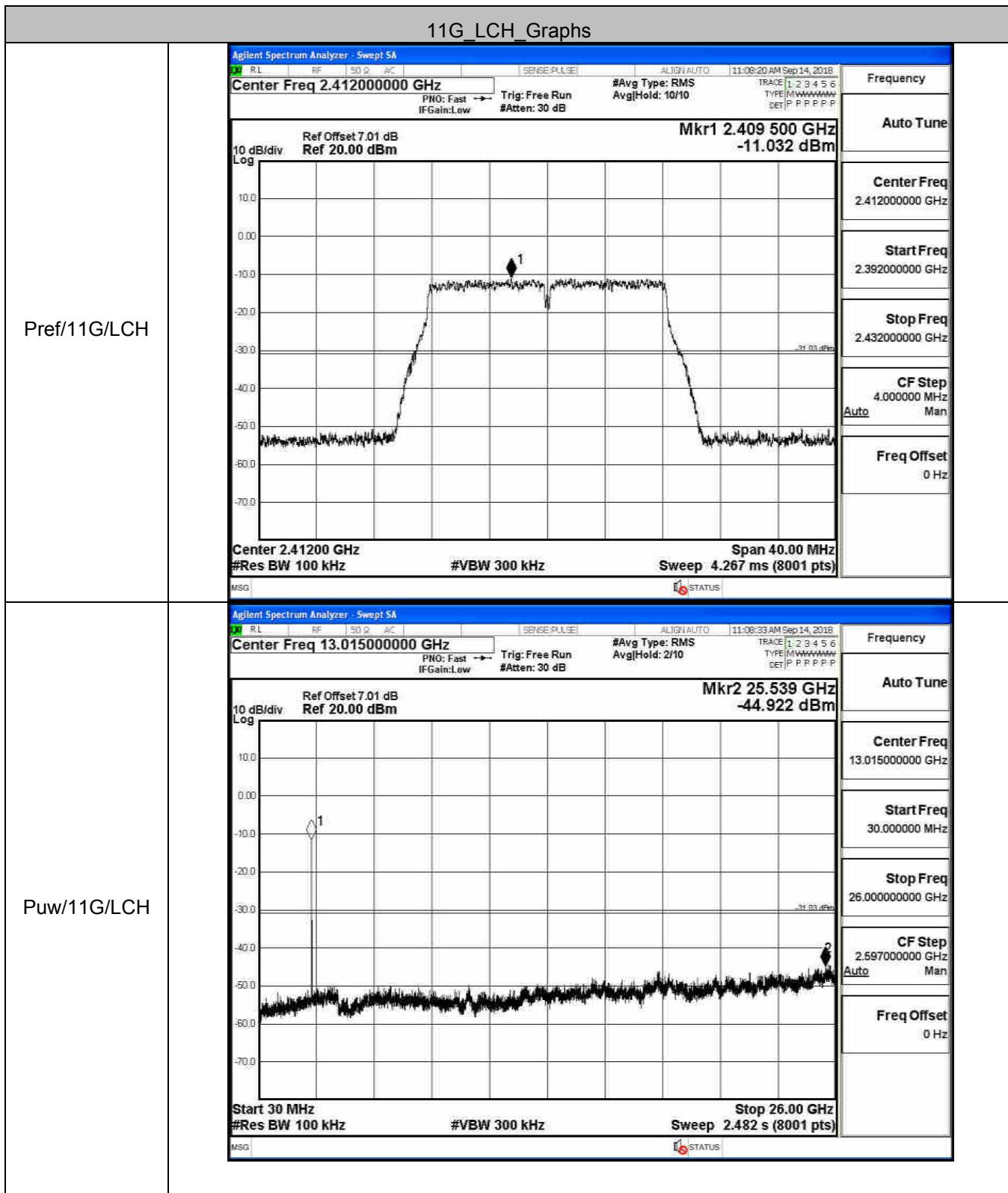
## C.5 RF Conducted Spurious Emissions

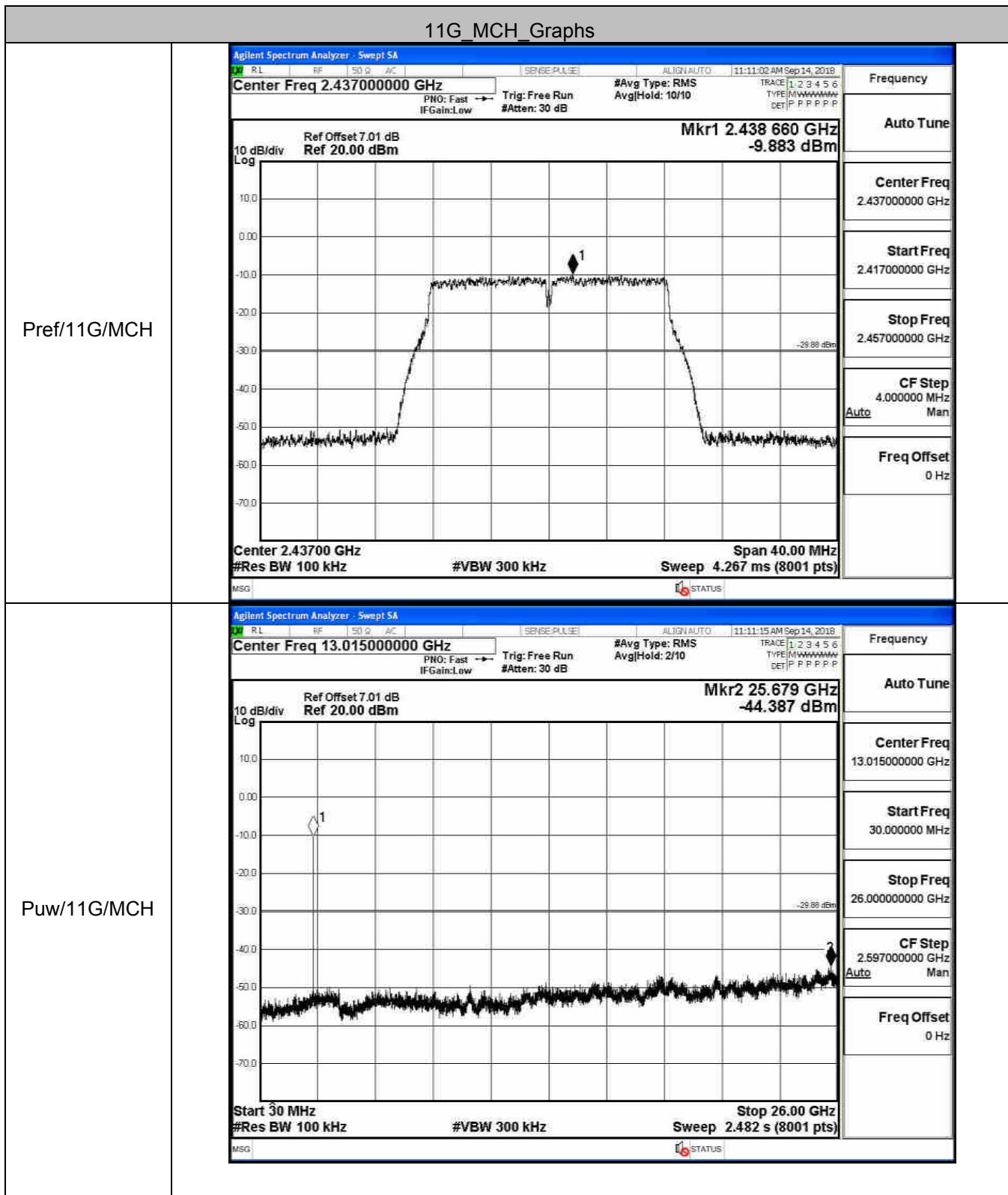
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.487	-44.784	-18.513	PASS
	MCH	-2.133	-45.100	-22.133	PASS
	HCH	-1.952	-43.193	-21.952	PASS
11G	LCH	-11.032	-44.922	-31.032	PASS
	MCH	-9.883	-44.387	-29.883	PASS
	HCH	-9.593	-44.298	-29.593	PASS
11N20 SISO	LCH	-11.02	-44.811	-31.020	PASS
	MCH	-9.752	-43.918	-29.752	PASS
	HCH	-9.846	-45.050	-29.846	PASS
11N40 SISO	LCH	-13.781	-44.544	-33.781	PASS
	MCH	-12.617	-45.011	-32.617	PASS
	HCH	-12.401	-44.291	-32.401	PASS

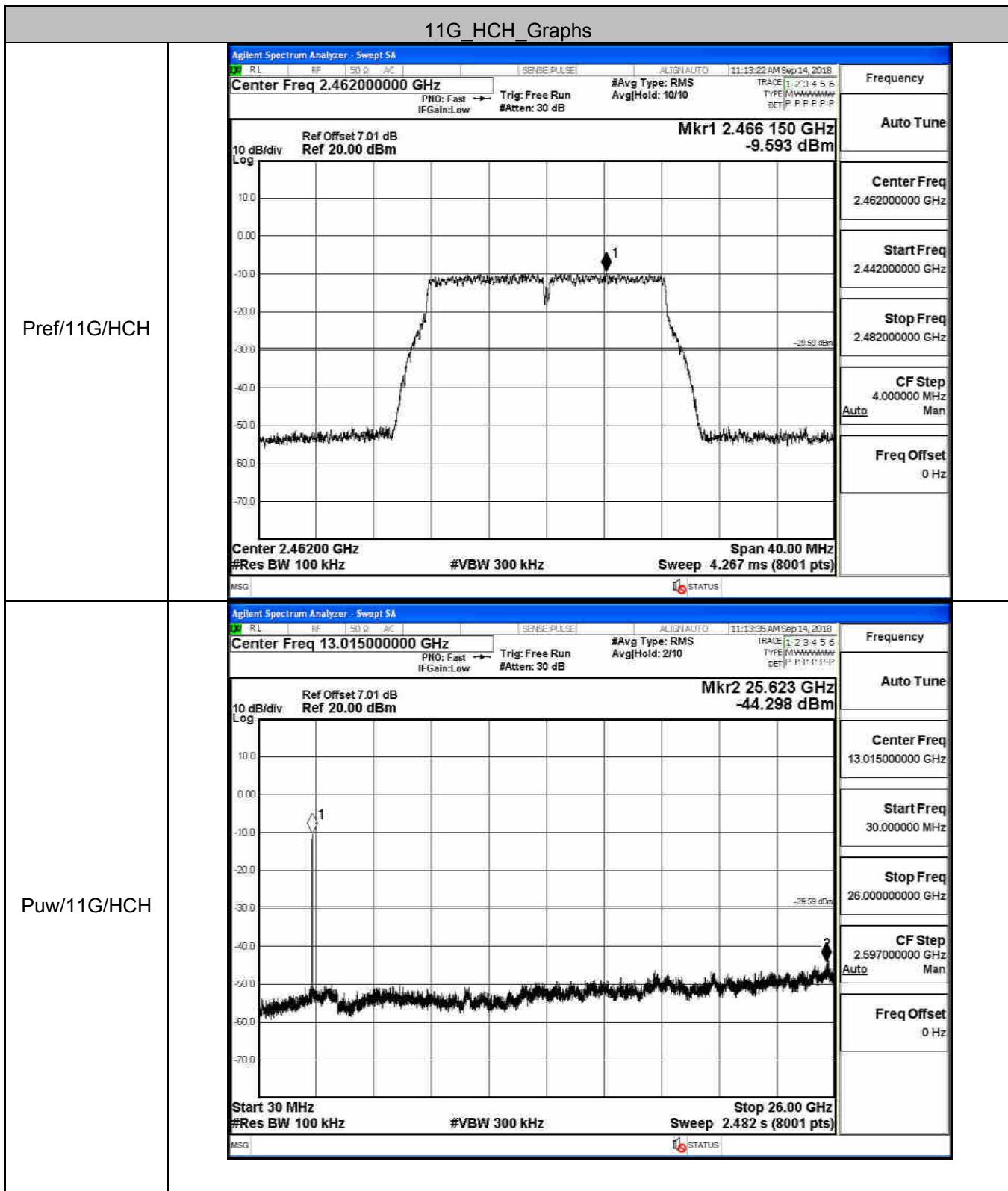


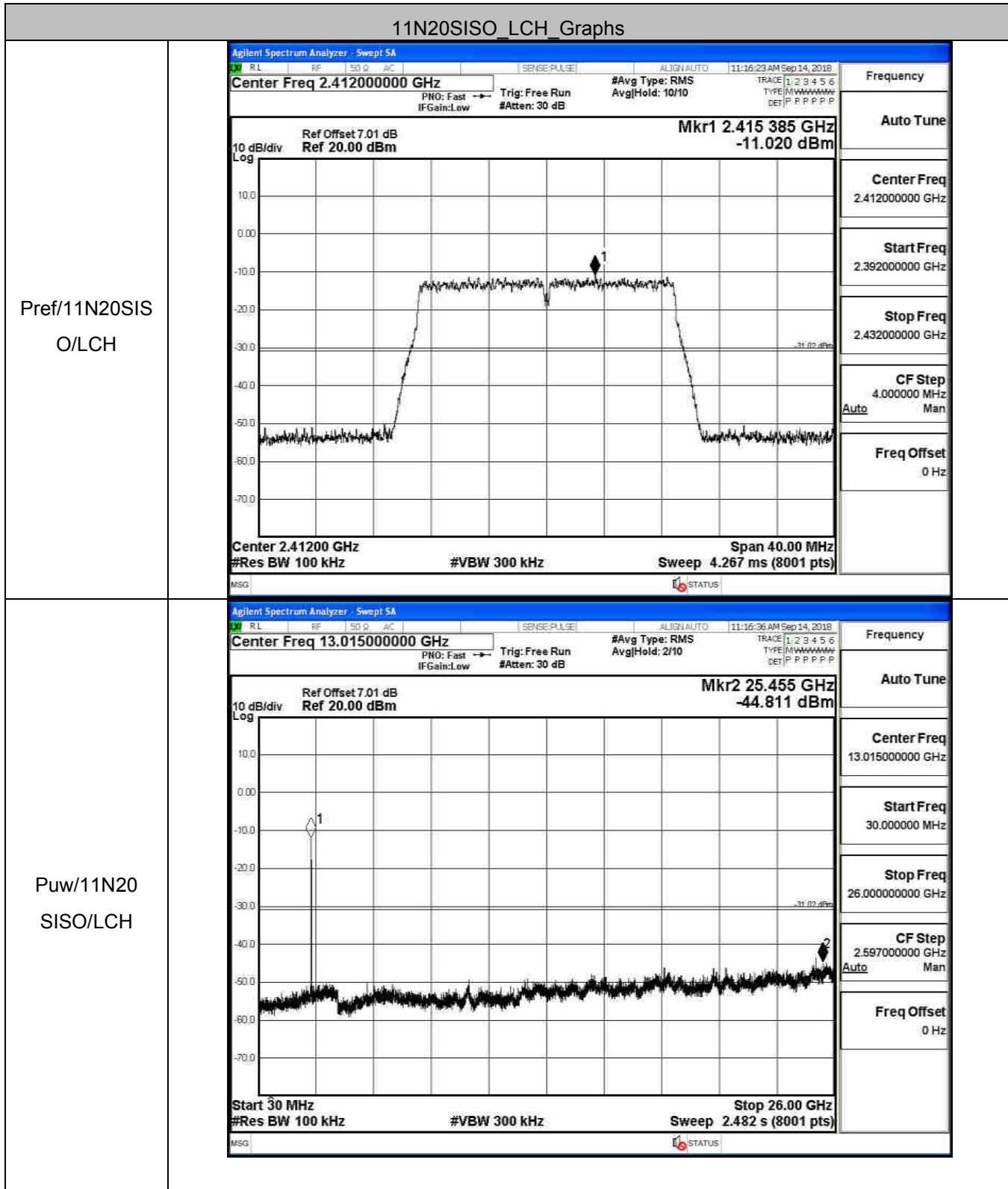


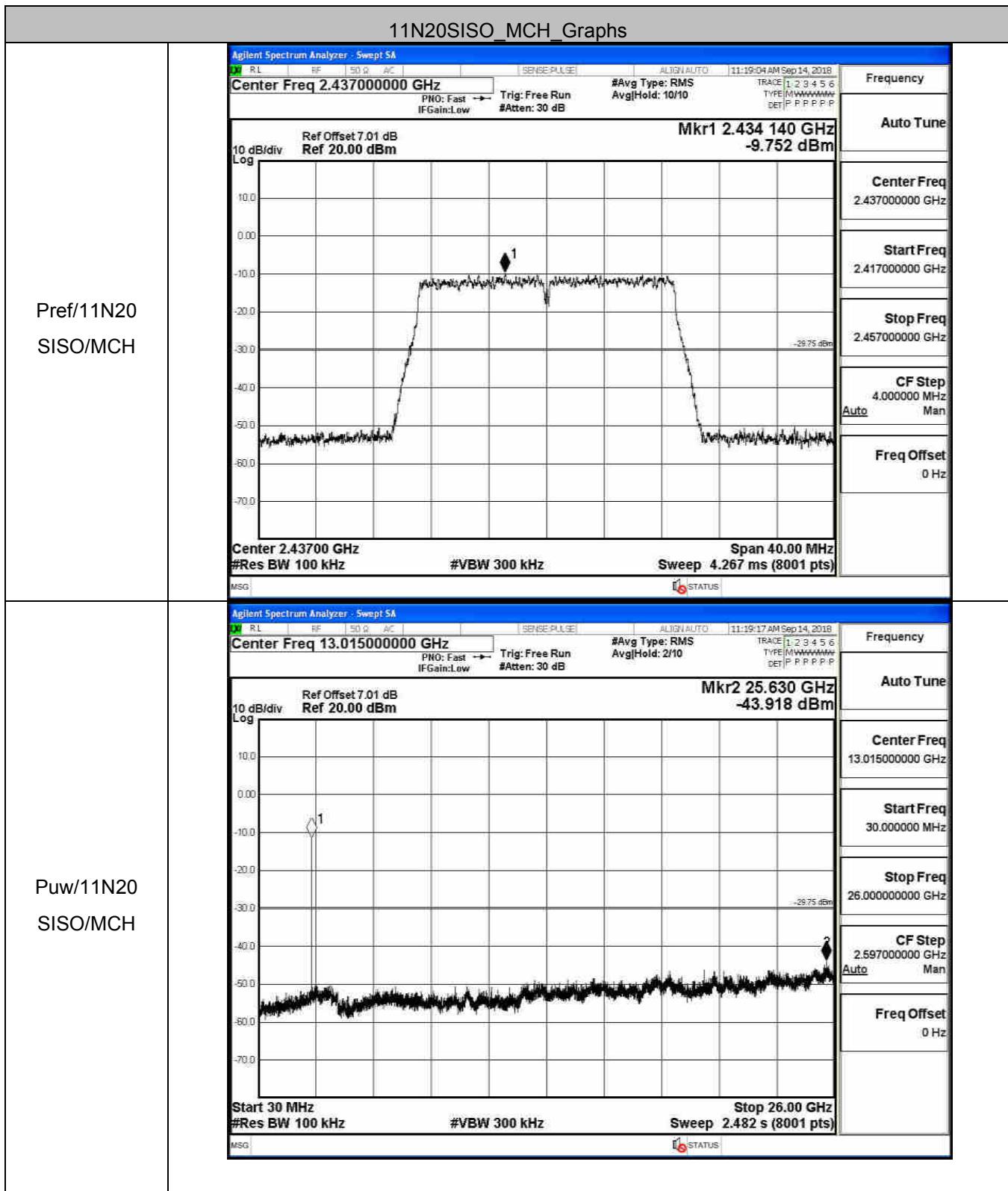


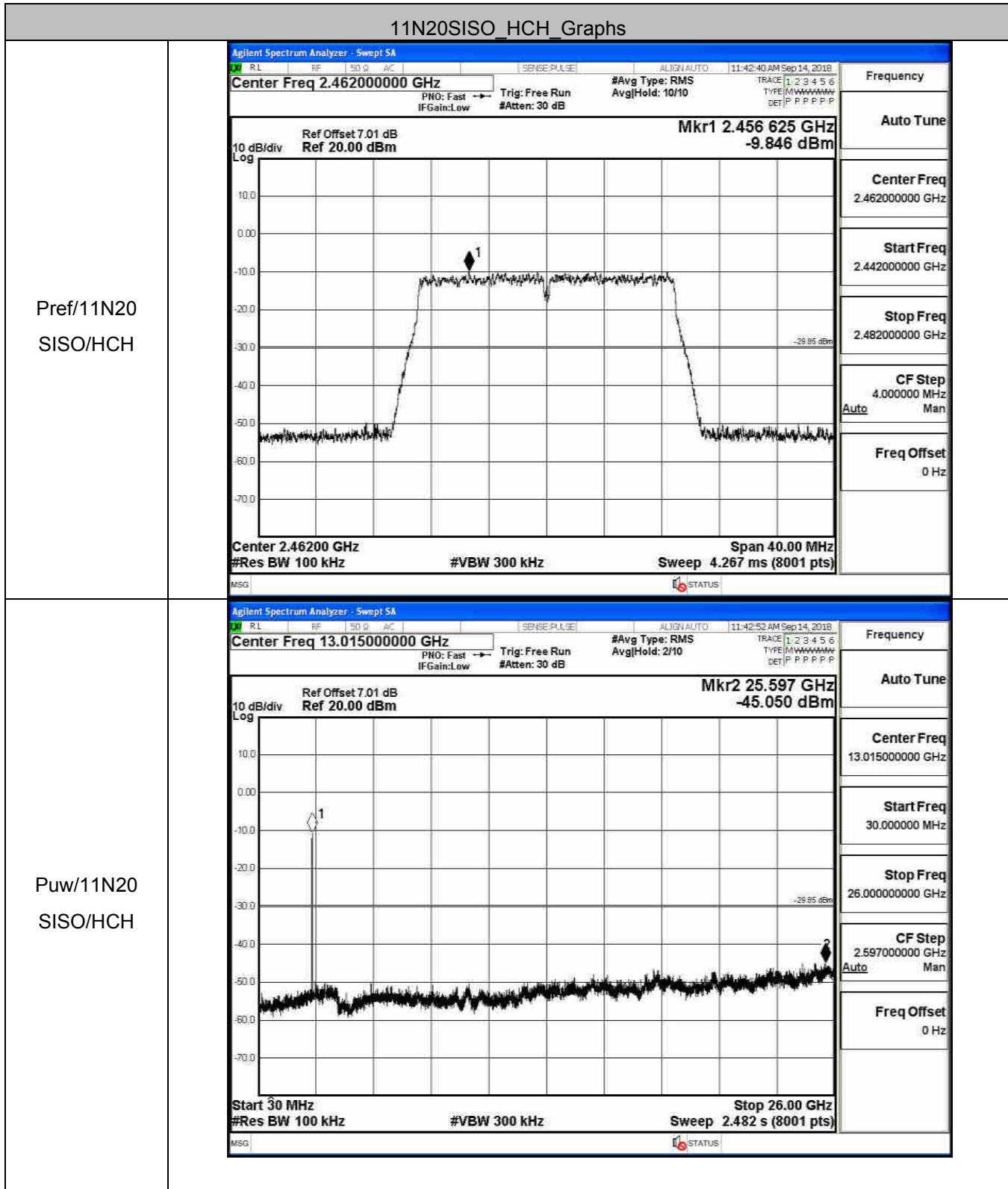


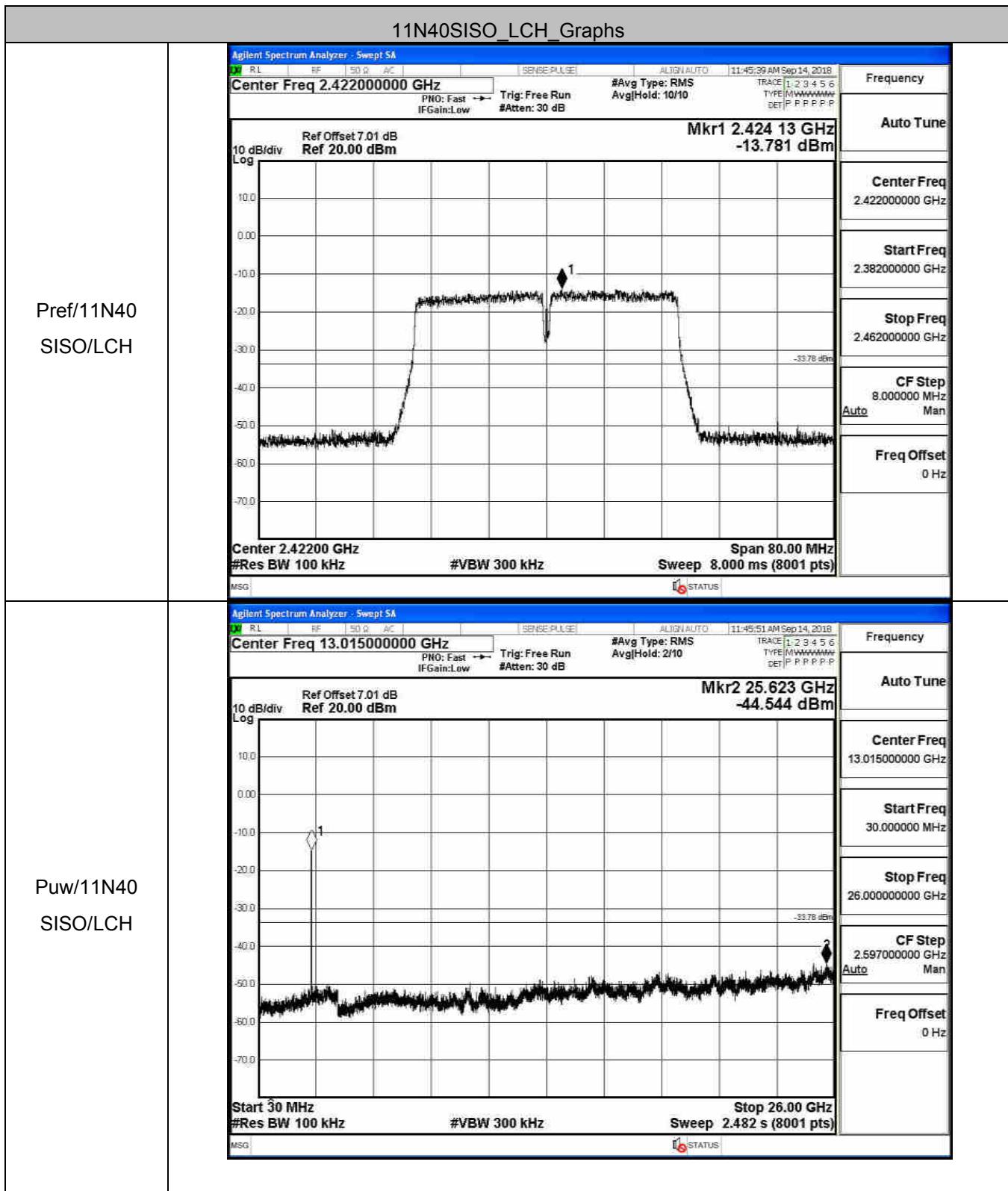


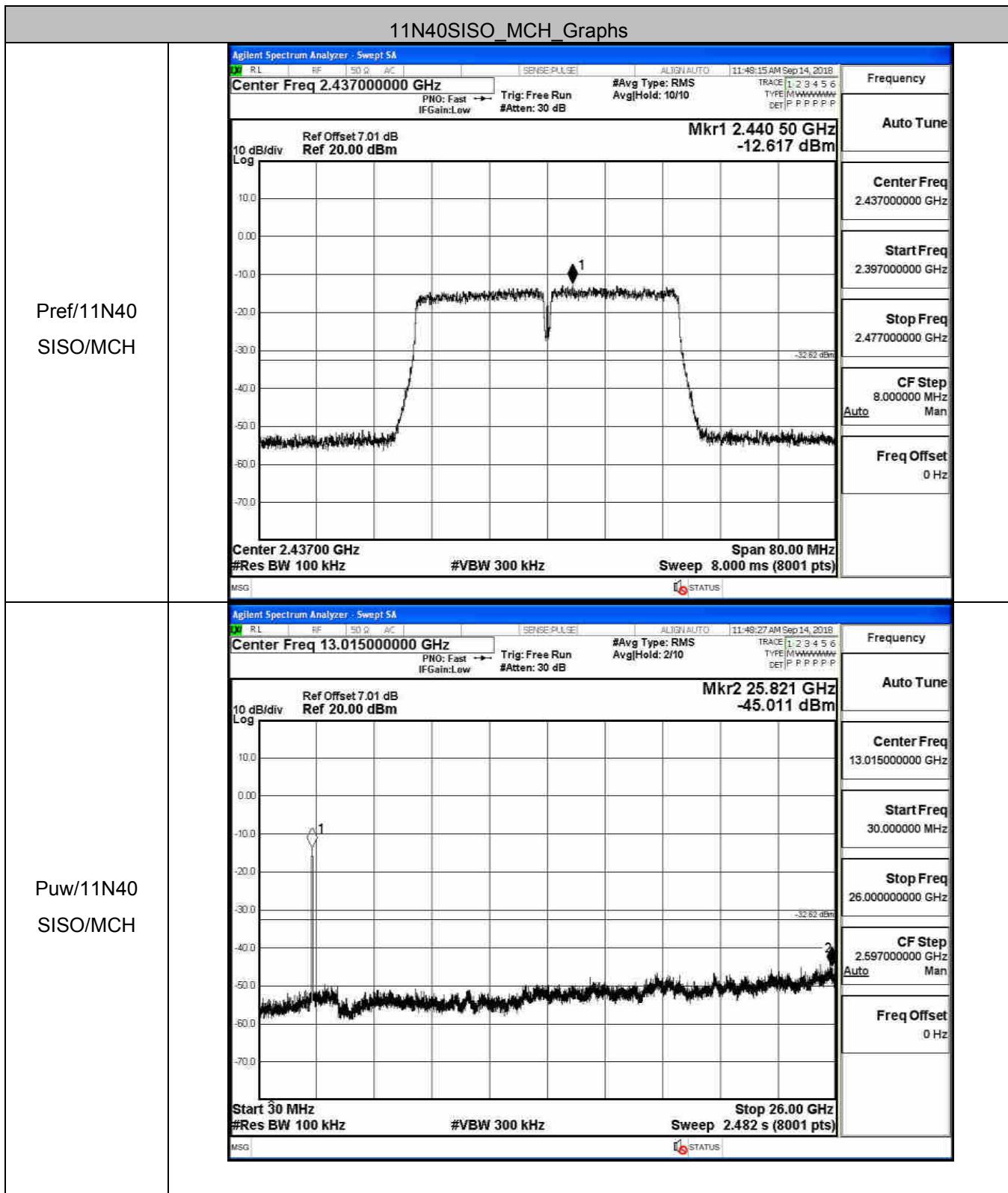


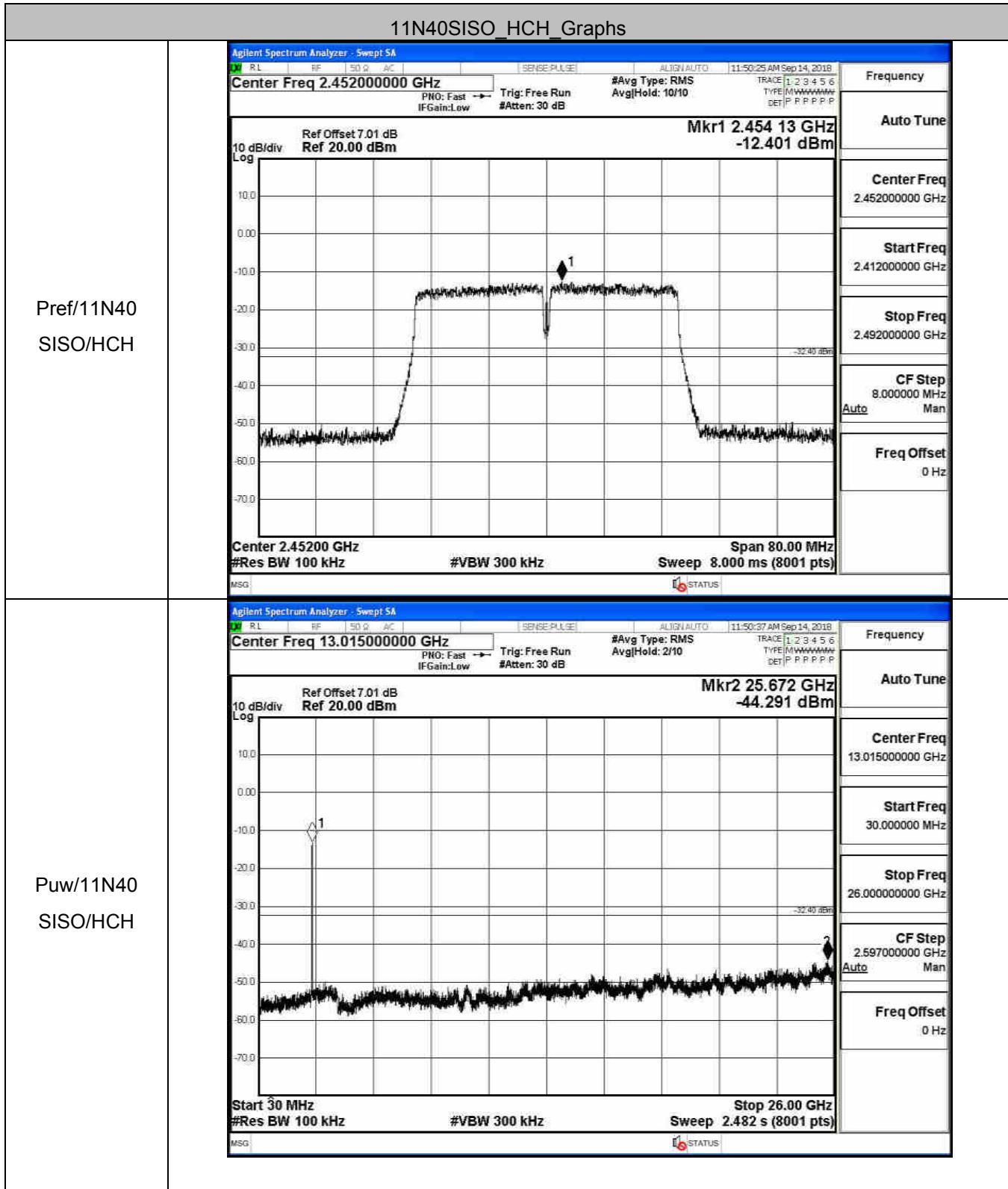






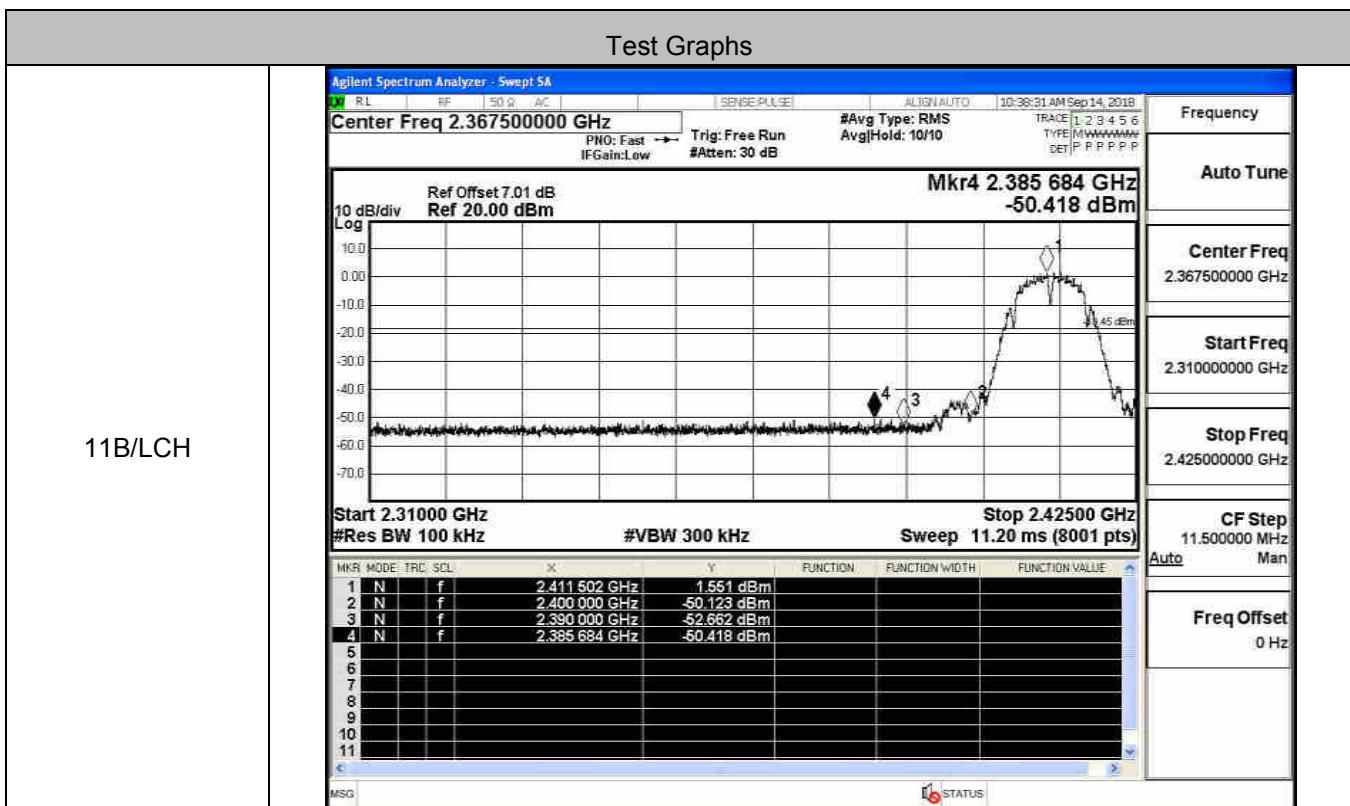


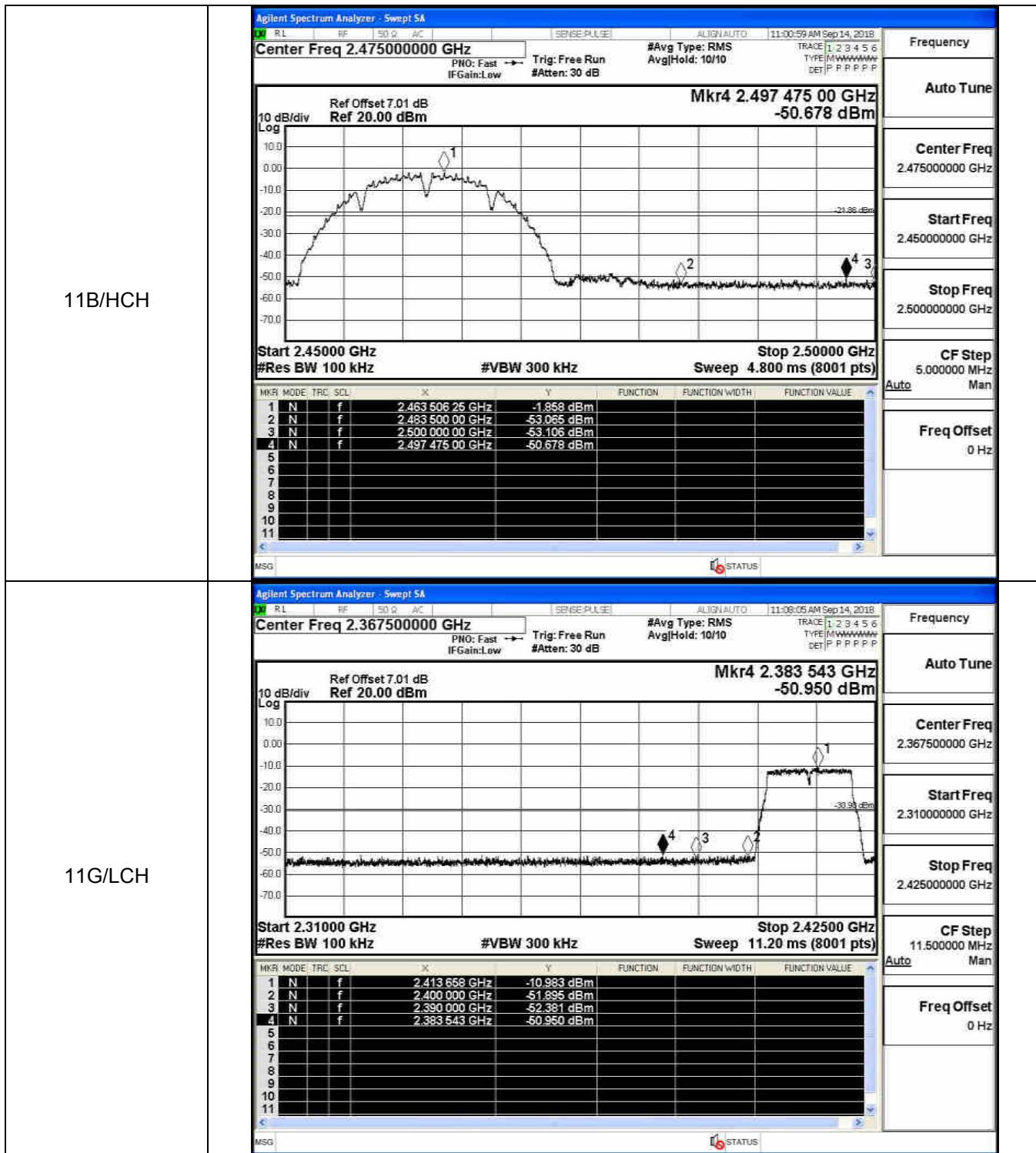


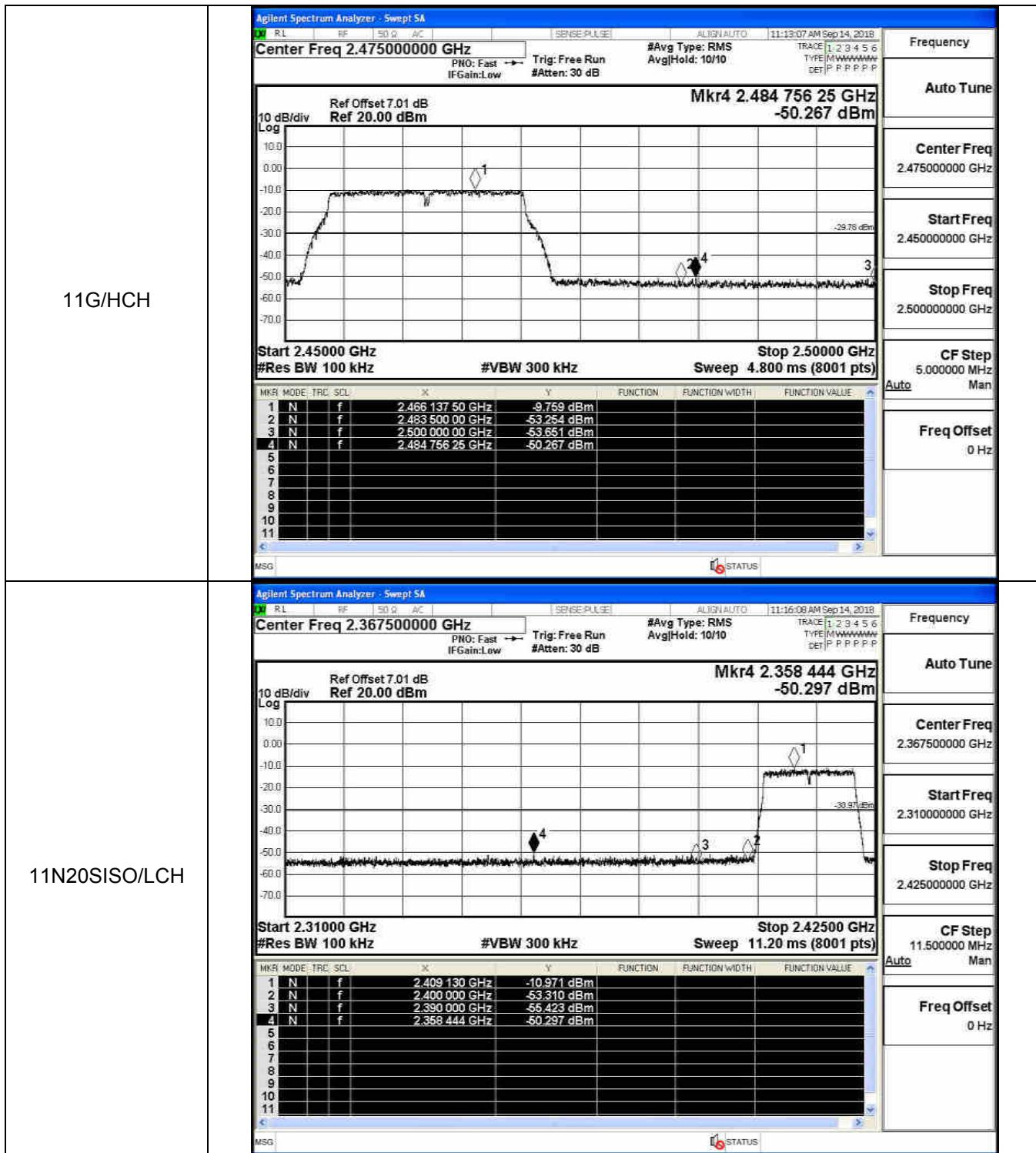


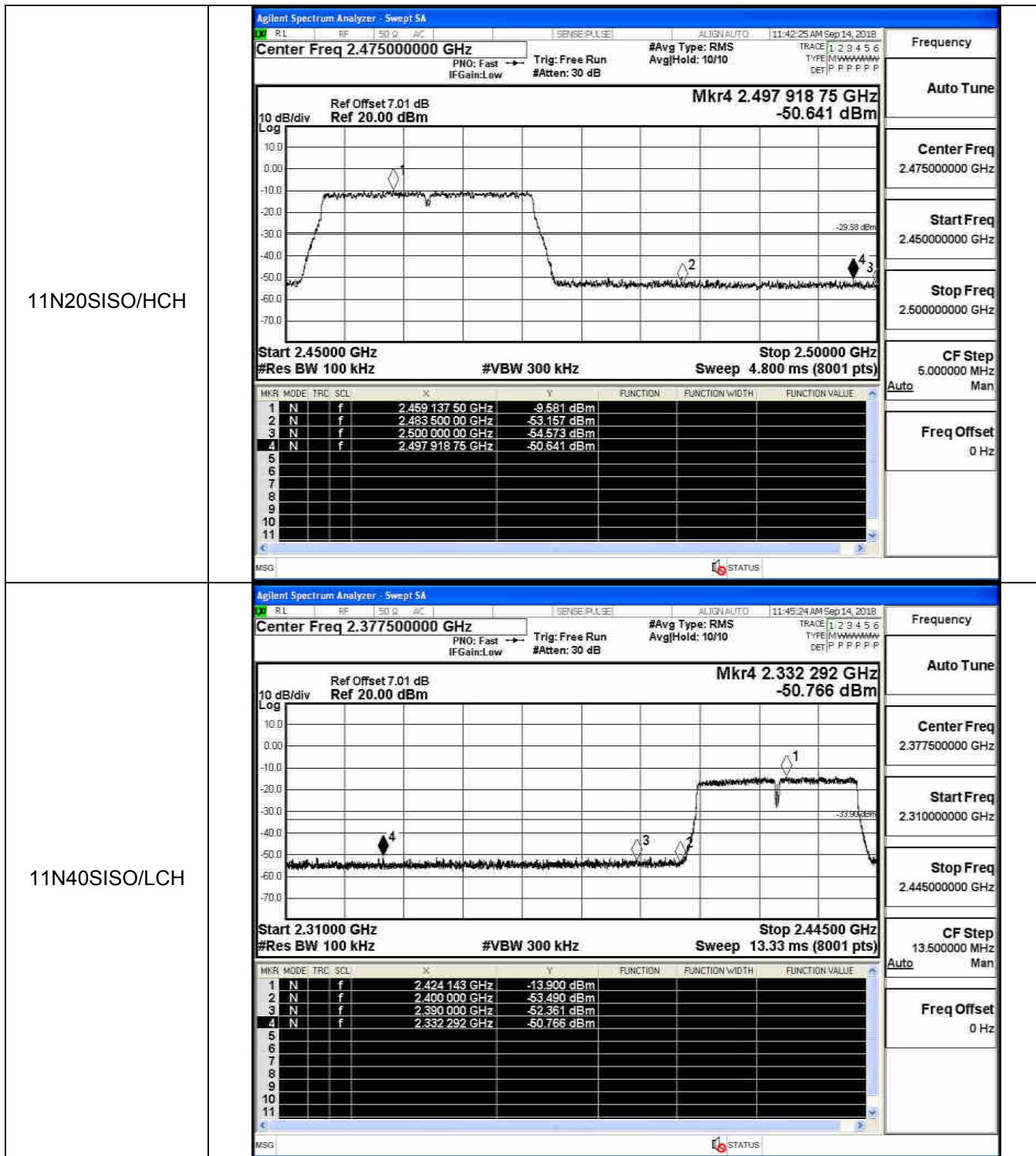
## C.6 Band-edge for RF Conducted Emissions

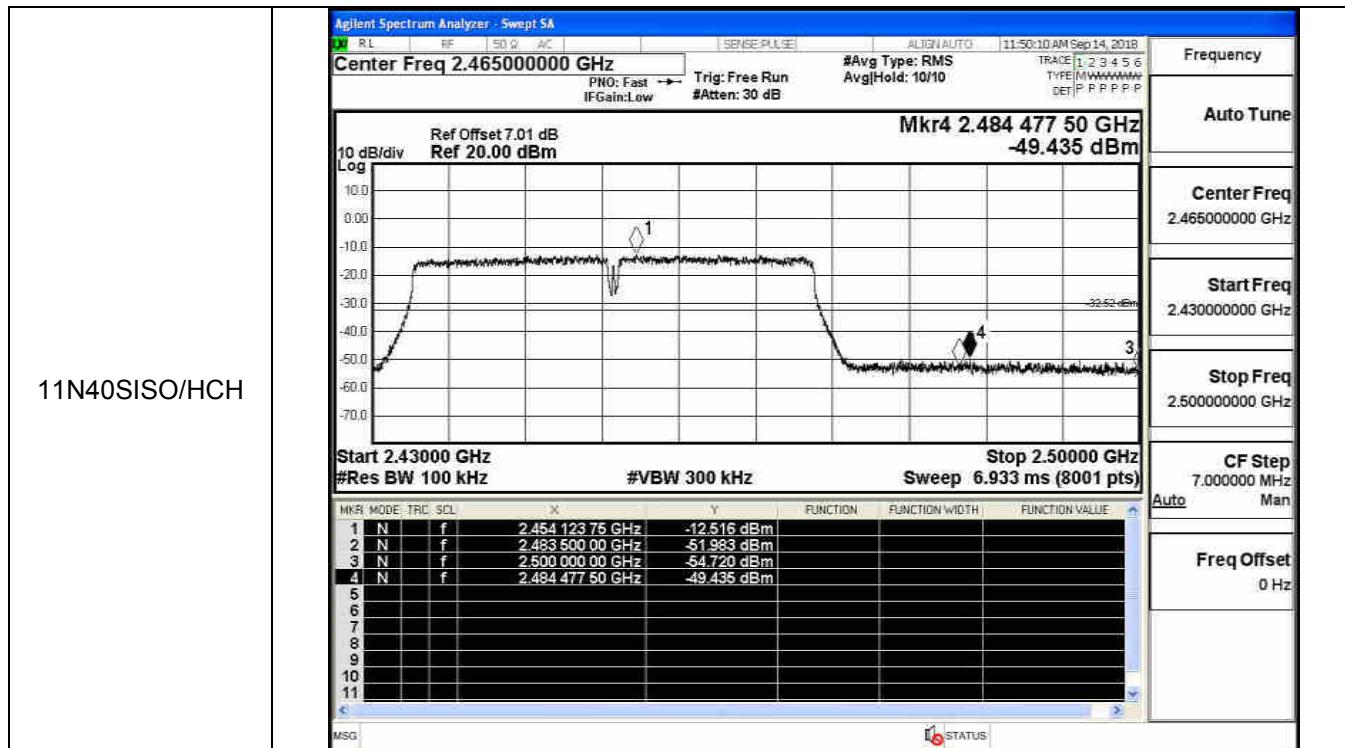
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.551	-50.418	-18.45	PASS
	HCH	-1.858	-50.678	-21.86	PASS
11G	LCH	-10.983	-50.950	-30.98	PASS
	HCH	-9.759	-50.267	-29.76	PASS
11N20SISO	LCH	-10.971	-50.297	-30.97	PASS
	HCH	-9.581	-50.641	-29.58	PASS
11N40SISO	LCH	-13.900	-50.766	-33.9	PASS
	HCH	-12.516	-49.435	-32.52	PASS









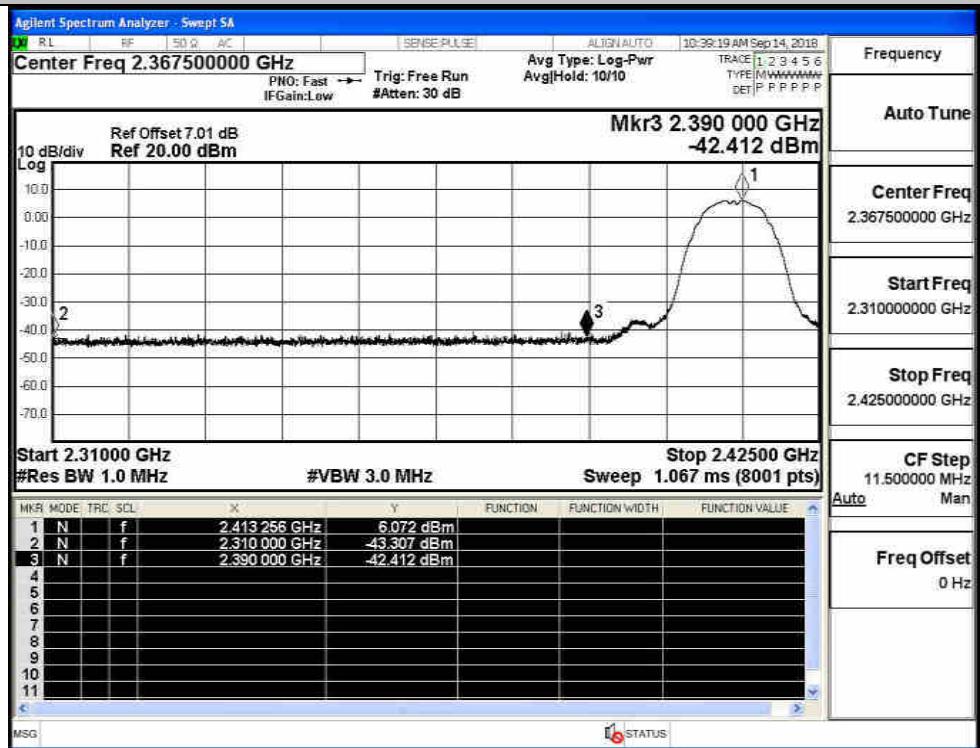


### C.7 Restrict-band band-edge measurements

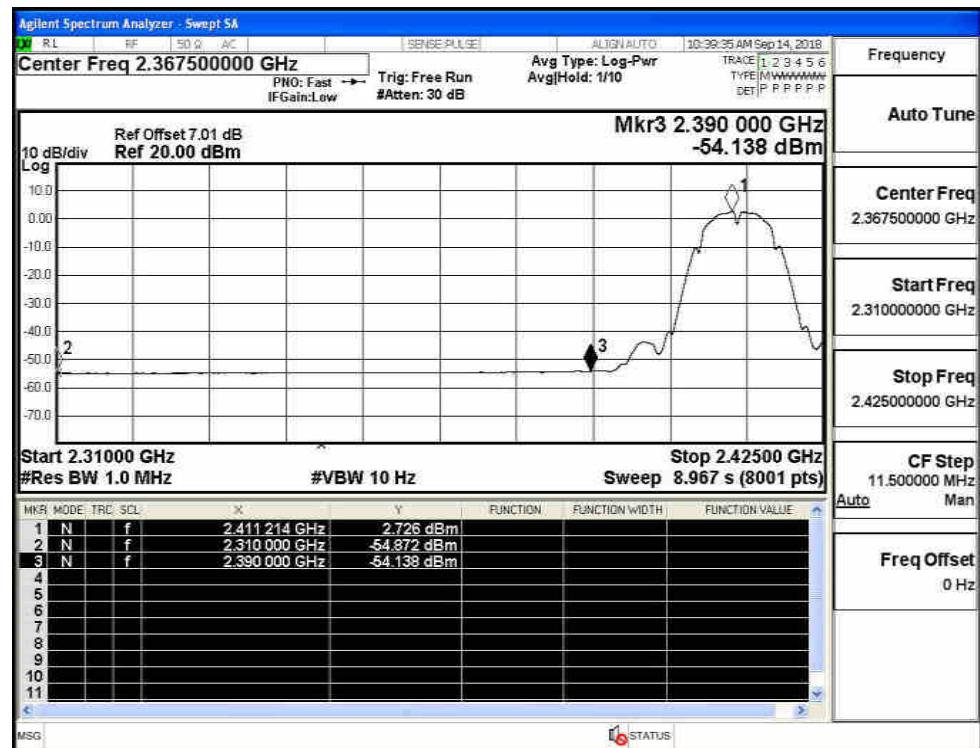
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-43.31	2.0	0	53.92	PEAK	74	PASS
	2412	Ant1	2310.0	-54.87	2.0	0	42.36	AV	54	PASS
	2412	Ant1	2390.0	-42.41	2.0	0	54.82	PEAK	74	PASS
	2412	Ant1	2390.0	-54.14	2.0	0	43.09	AV	54	PASS
	2462	Ant1	2483.5	-43.85	2.0	0	53.38	PEAK	74	PASS
	2462	Ant1	2483.5	-54.22	2.0	0	43.01	AV	54	PASS
	2462	Ant1	2500.0	-44.53	2.0	0	52.70	PEAK	74	PASS
	2462	Ant1	2500.0	-54.14	2.0	0	43.09	AV	54	PASS
11G	2412	Ant1	2310.0	-44.98	2.0	0	52.25	PEAK	74	PASS
	2412	Ant1	2310.0	-54.86	2.0	0	42.37	AV	54	PASS
	2412	Ant1	2390.0	-44.71	2.0	0	52.52	PEAK	74	PASS
	2412	Ant1	2390.0	-54.29	2.0	0	42.94	AV	54	PASS
	2462	Ant1	2483.5	-43.00	2.0	0	54.23	PEAK	74	PASS
	2462	Ant1	2483.5	-53.76	2.0	0	43.47	AV	54	PASS
	2462	Ant1	2500.0	-42.76	2.0	0	54.47	PEAK	74	PASS
	2462	Ant1	2500.0	-53.87	2.0	0	43.36	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.72	2.0	0	52.51	PEAK	74	PASS
	2412	Ant1	2310.0	-54.85	2.0	0	42.38	AV	54	PASS
	2412	Ant1	2390.0	-43.68	2.0	0	53.55	PEAK	74	PASS
	2412	Ant1	2390.0	-54.28	2.0	0	42.95	AV	54	PASS
	2462	Ant1	2483.5	-43.03	2.0	0	54.20	PEAK	74	PASS
	2462	Ant1	2483.5	-53.67	2.0	0	43.56	AV	54	PASS
	2462	Ant1	2500.0	-44.24	2.0	0	52.99	PEAK	74	PASS
	2462	Ant1	2500.0	-53.89	2.0	0	43.34	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-45.27	2.0	0	51.96	PEAK	74	PASS
	2422	Ant1	2310.0	-54.88	2.0	0	42.35	AV	54	PASS

	2422	Ant1	2390.0	-43.42	2.0	0	53.81	PEAK	74	PASS
	2422	Ant1	2390.0	-54.15	2.0	0	43.08	AV	54	PASS
	2452	Ant1	2483.5	-42.01	2.0	0	55.22	PEAK	74	PASS
	2452	Ant1	2483.5	-52.87	2.0	0	44.36	AV	54	PASS
	2452	Ant1	2500.0	-42.78	2.0	0	54.45	PEAK	74	PASS
	2452	Ant1	2500.0	-53.83	2.0	0	43.40	AV	54	PASS

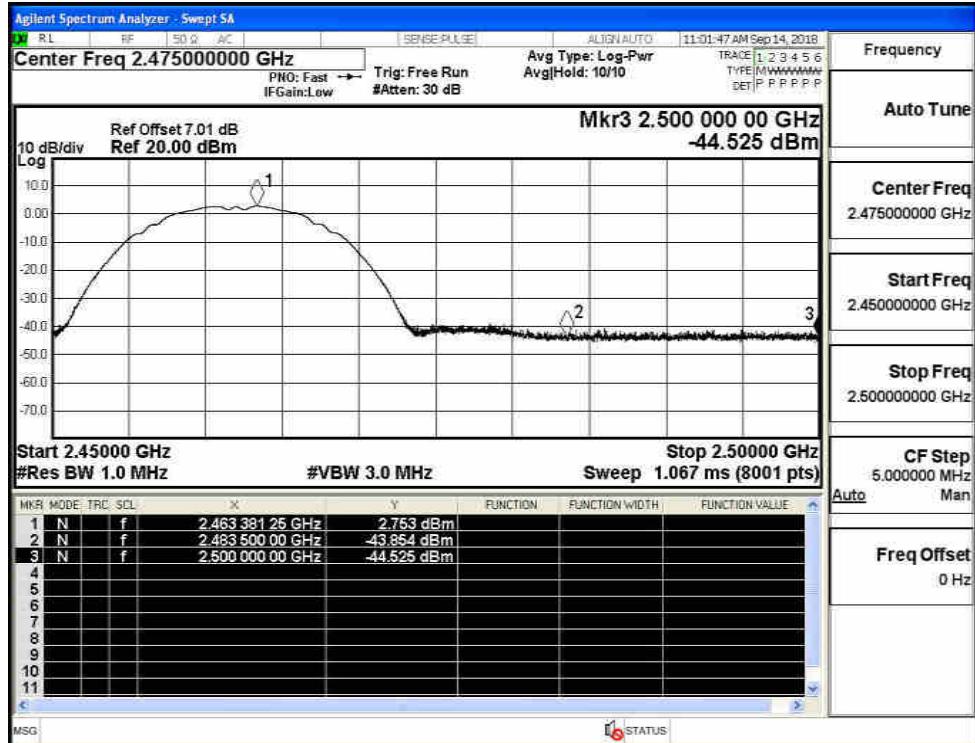
## Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



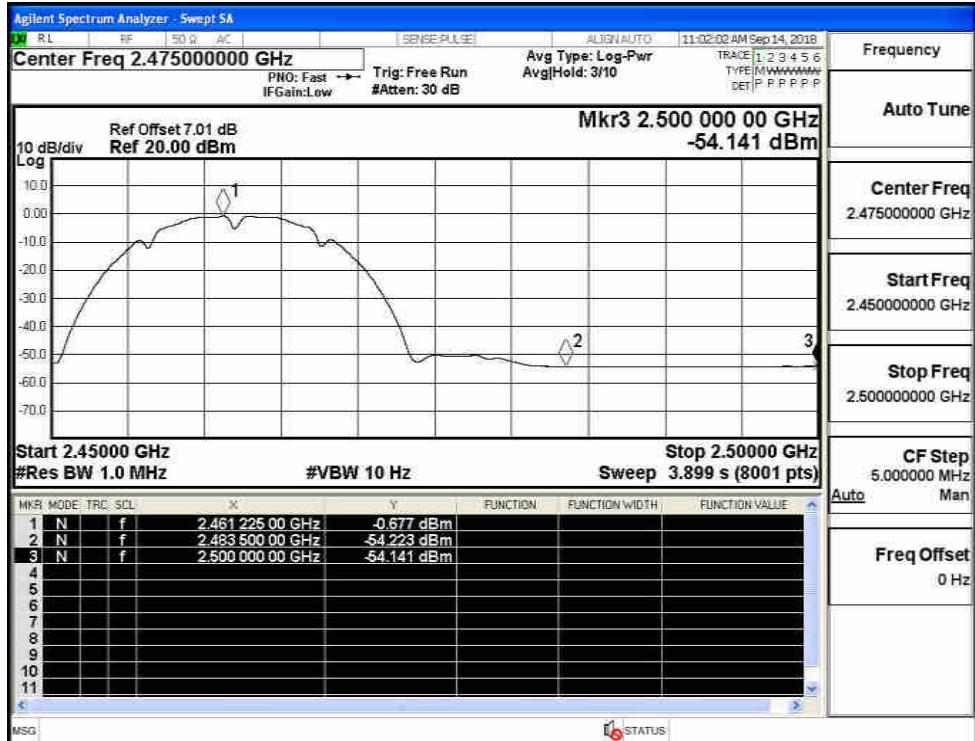
## Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



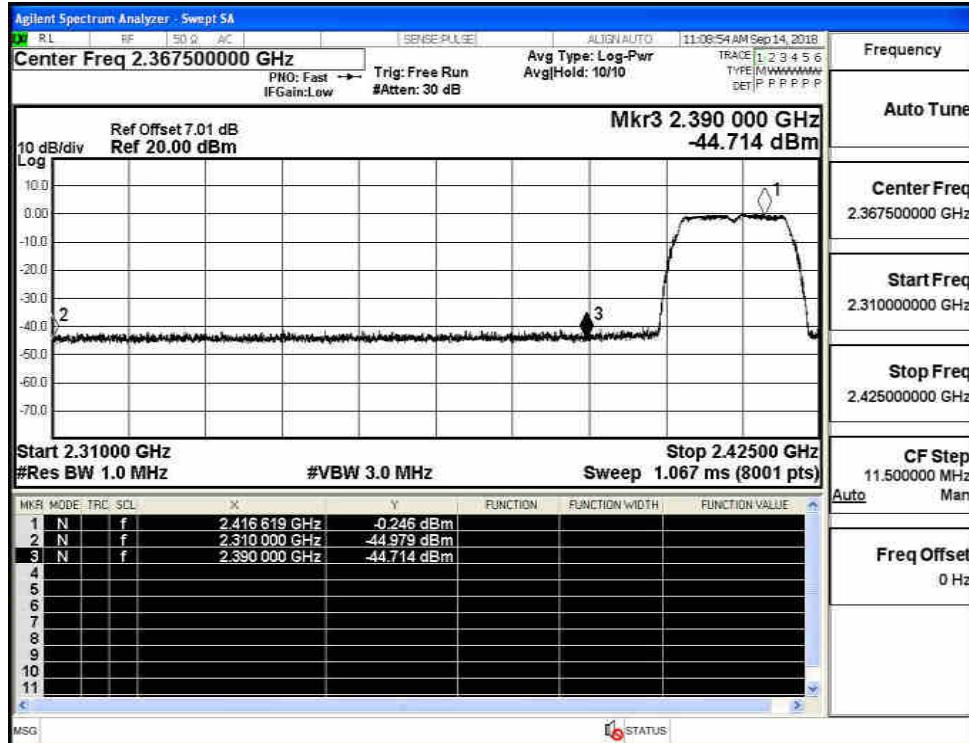
## Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



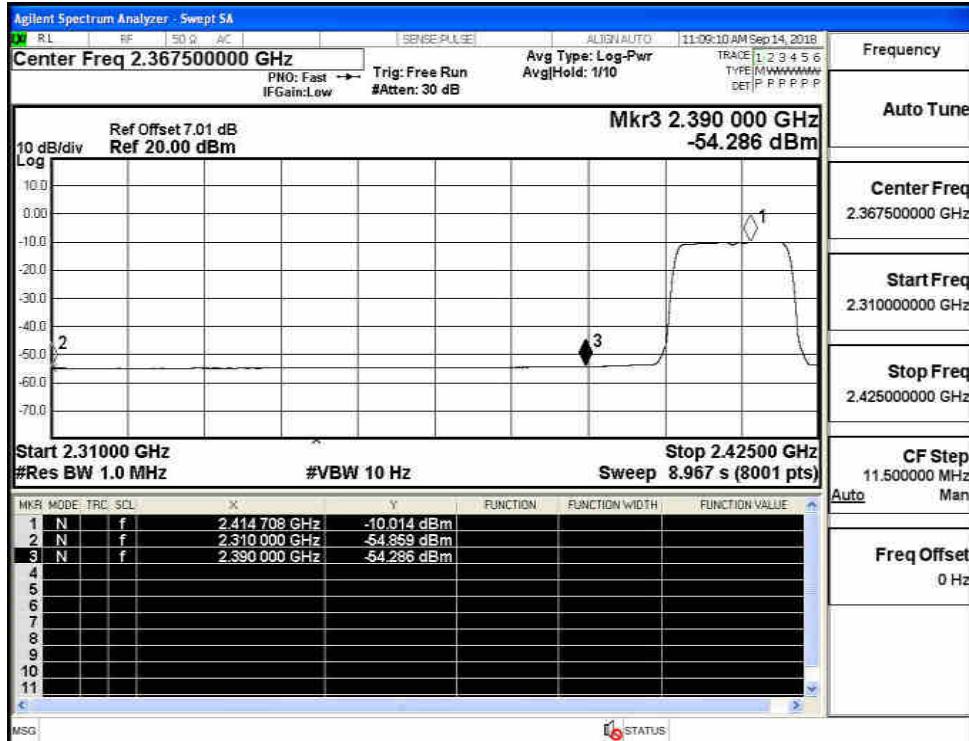
## Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



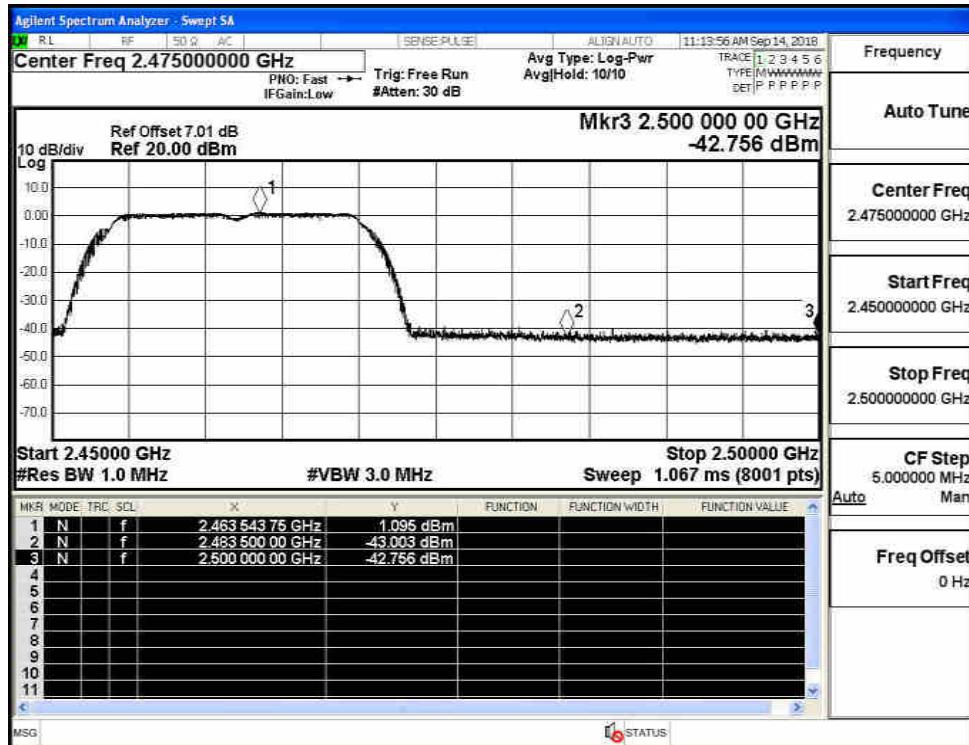
## Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



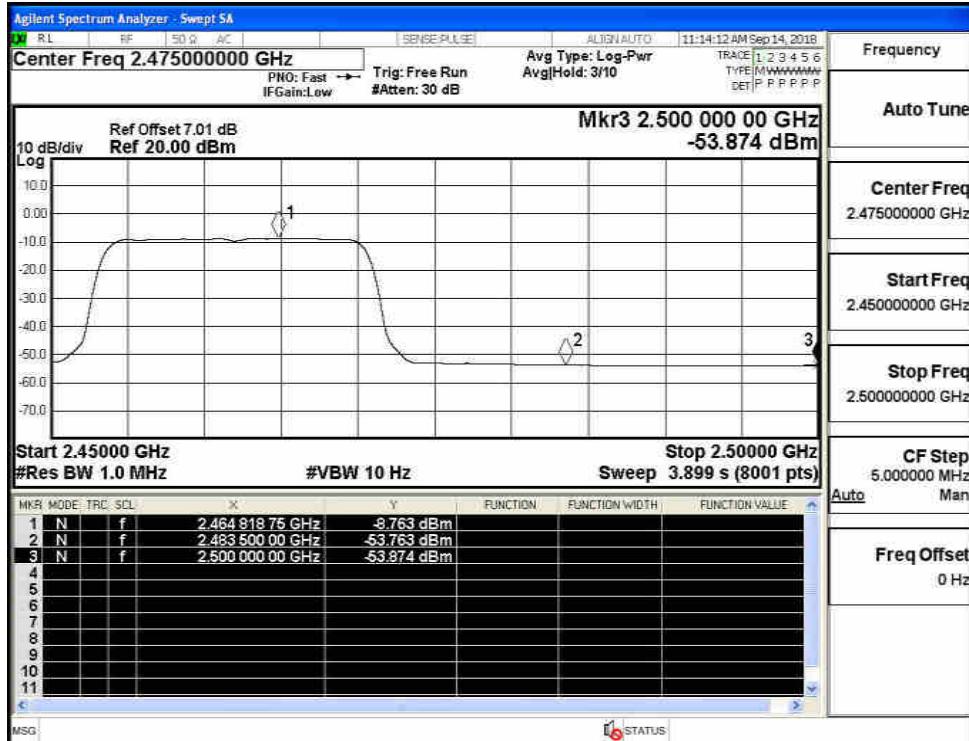
## Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



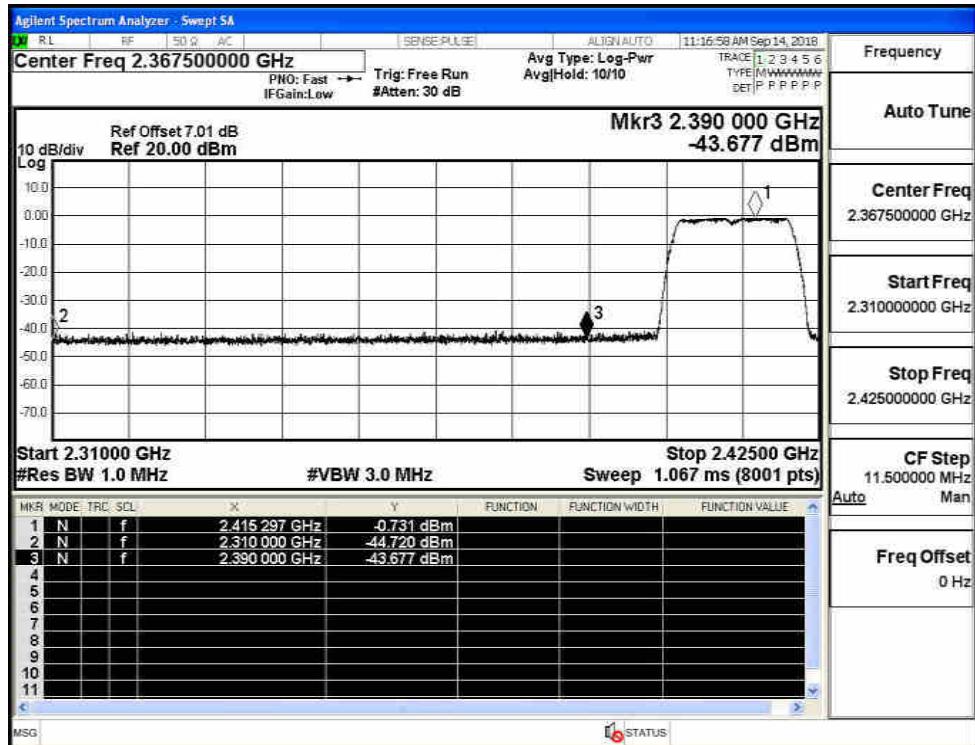
## Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



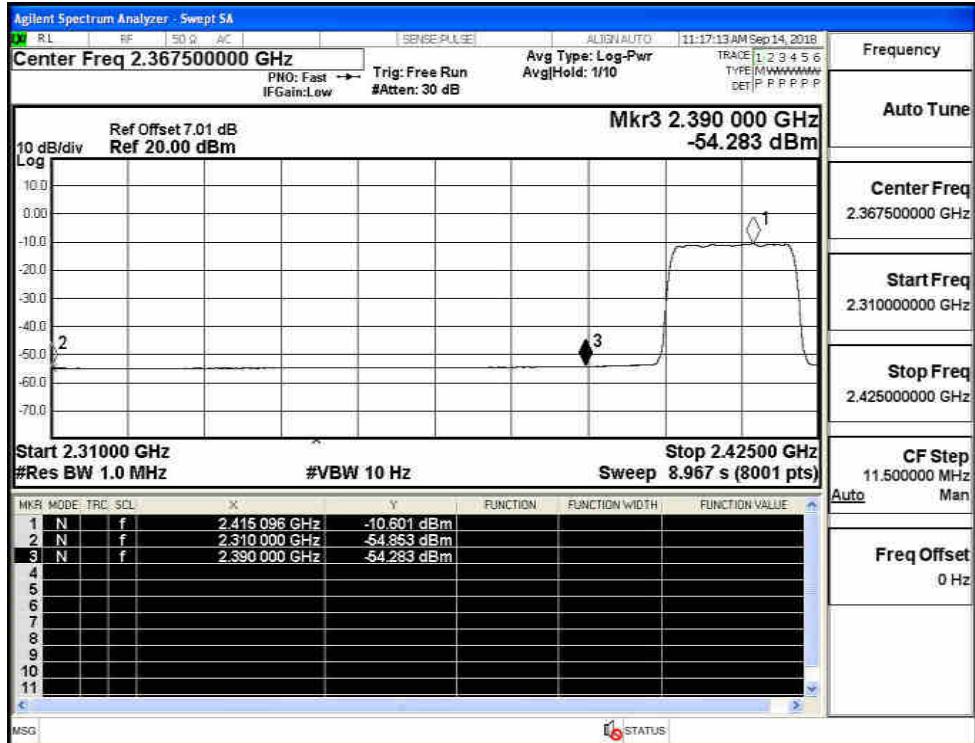
## Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



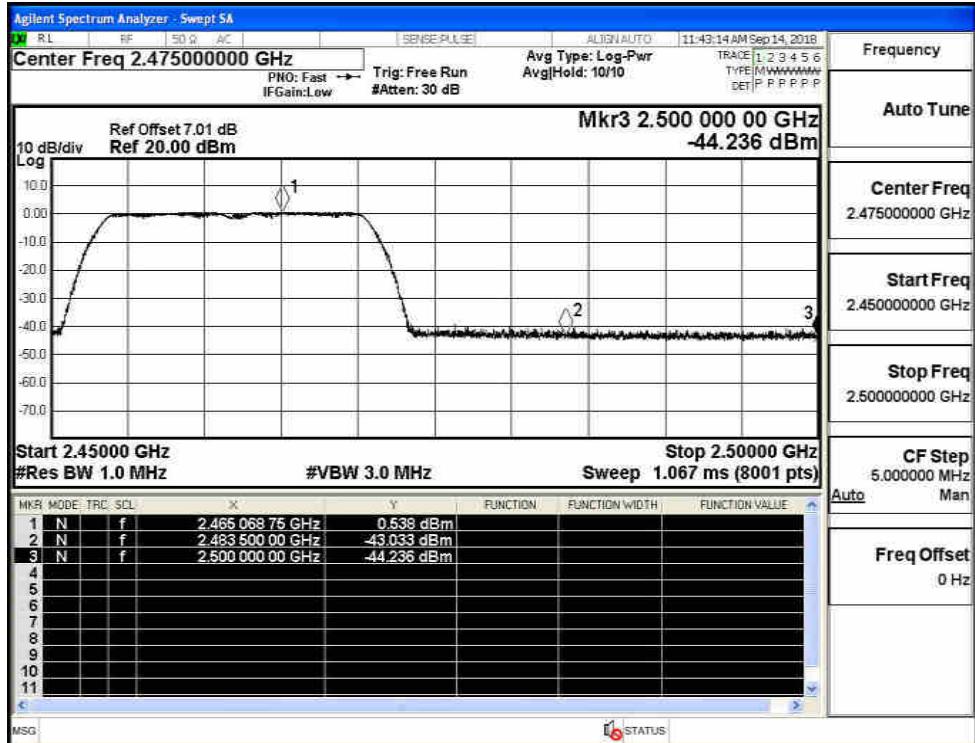
## Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



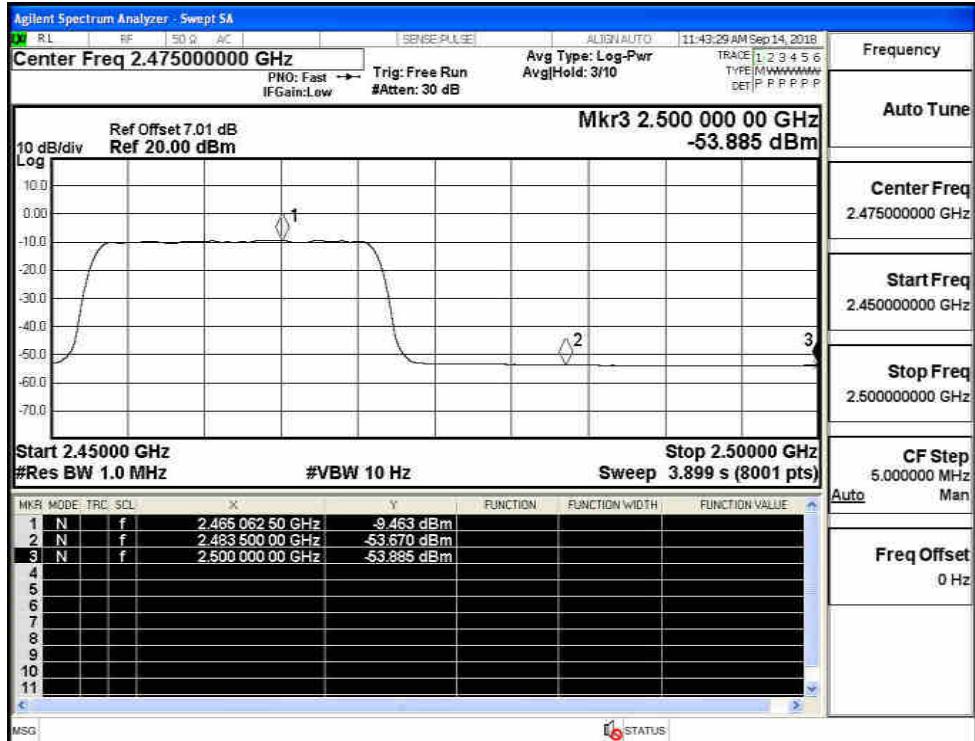
## Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



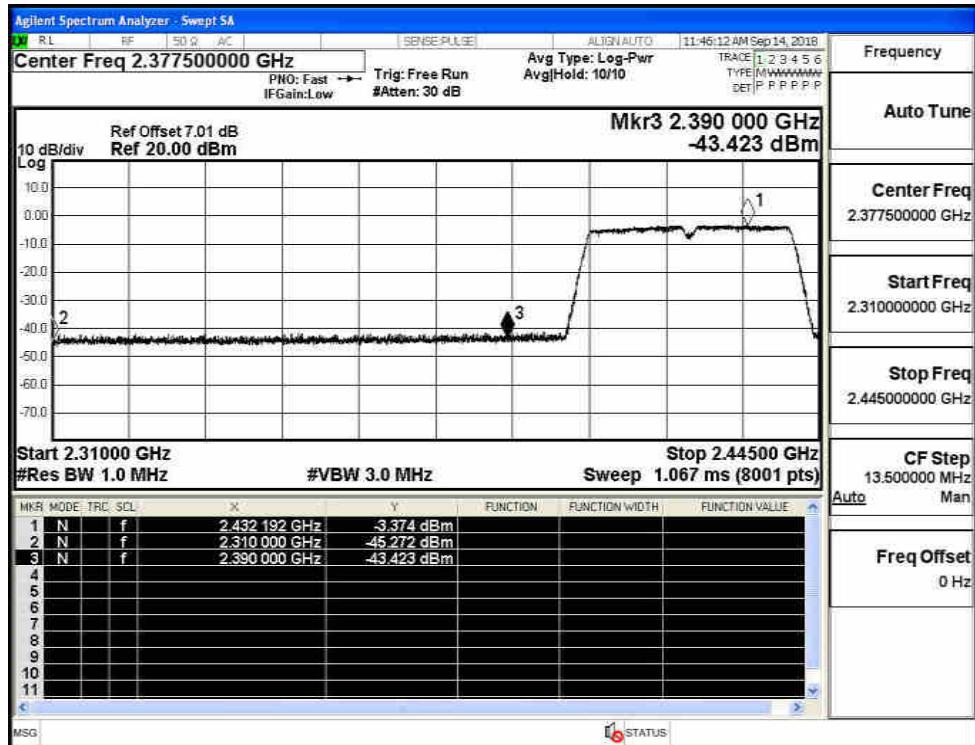
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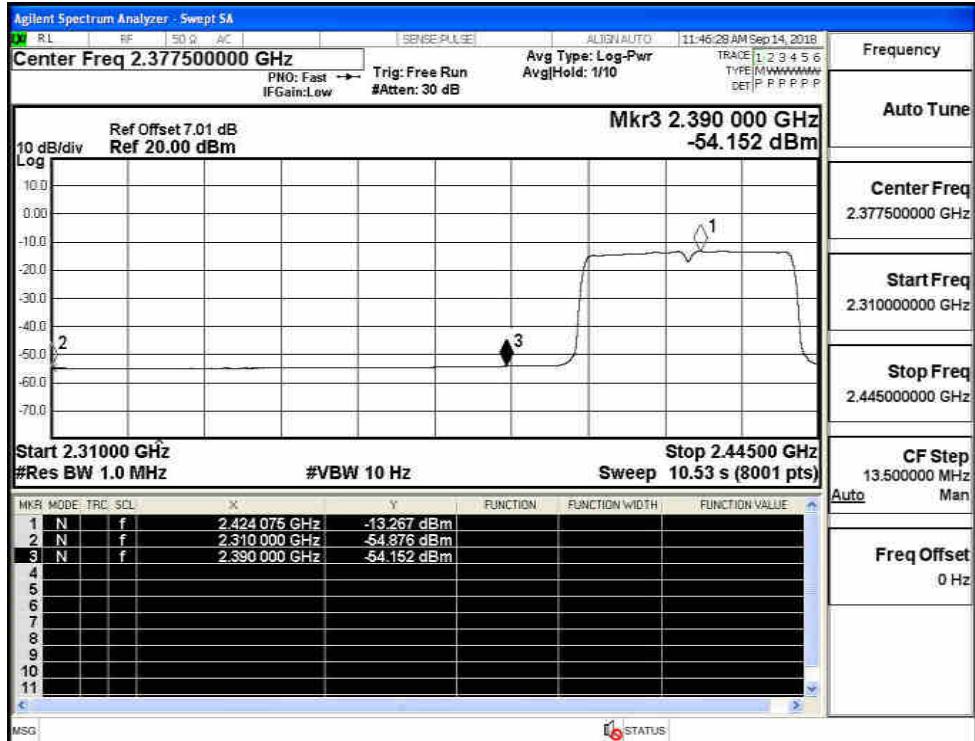
## Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV



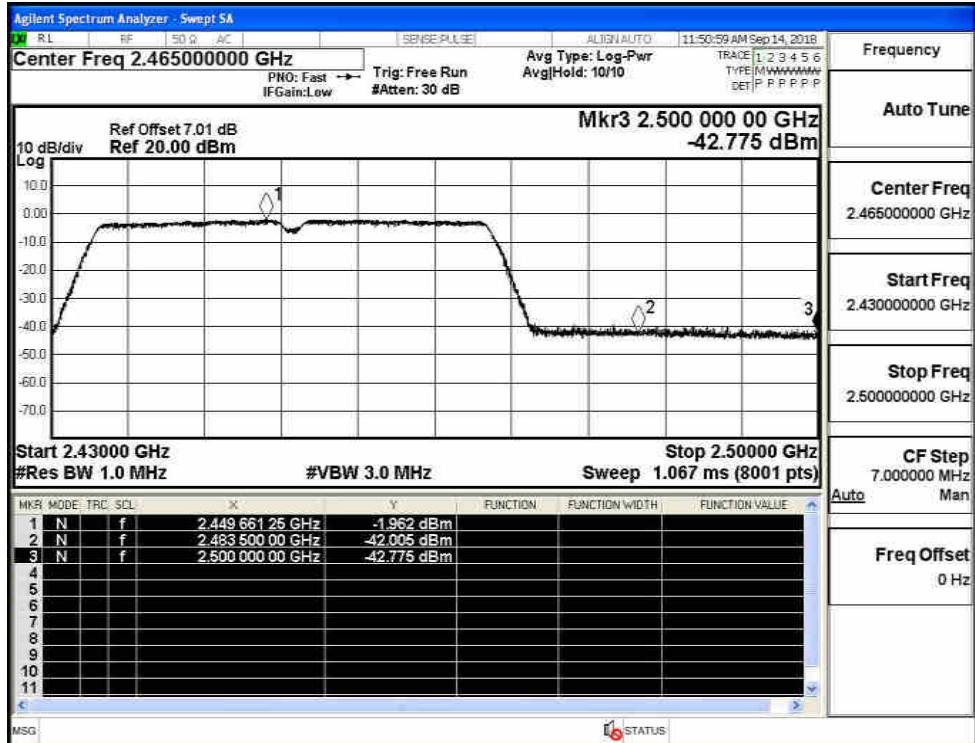
## Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



## 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

