# Appendix A

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

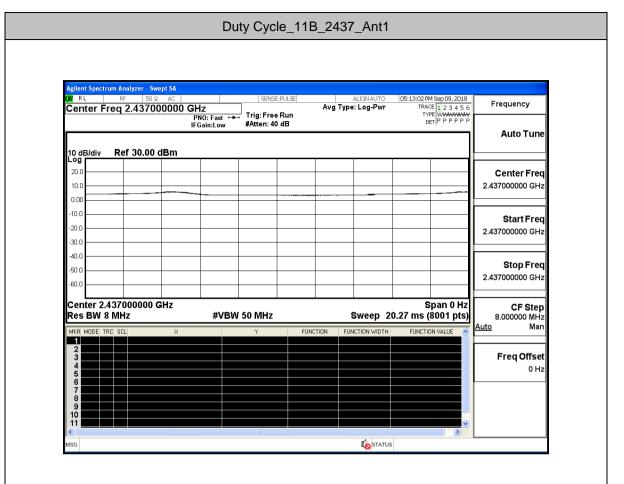
Product Name: Internet Photo Frame
Trade Mark: LENKENG
Test Model: LMWFPF13-R

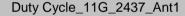
### **Environmental Conditions**

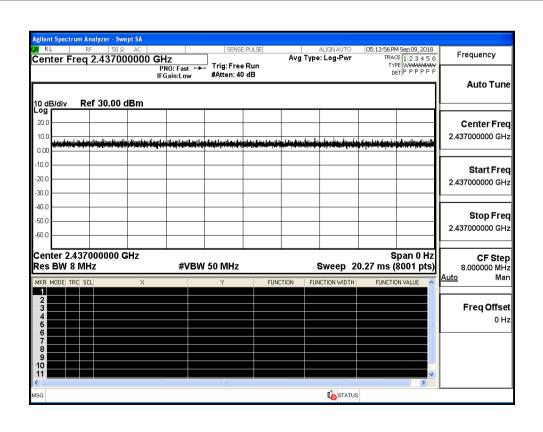
Temperature:	23.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

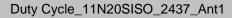
## A.1 Duty Cycle

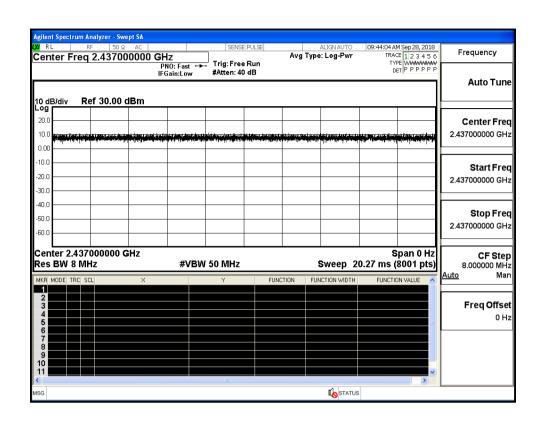
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS



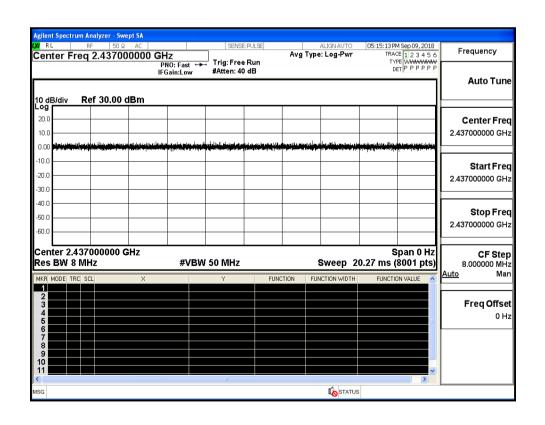








### Duty Cycle\_11N40SISO\_2437\_Ant1

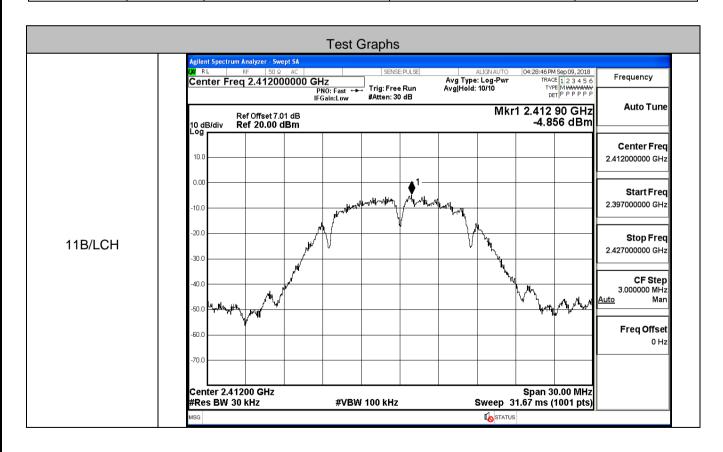


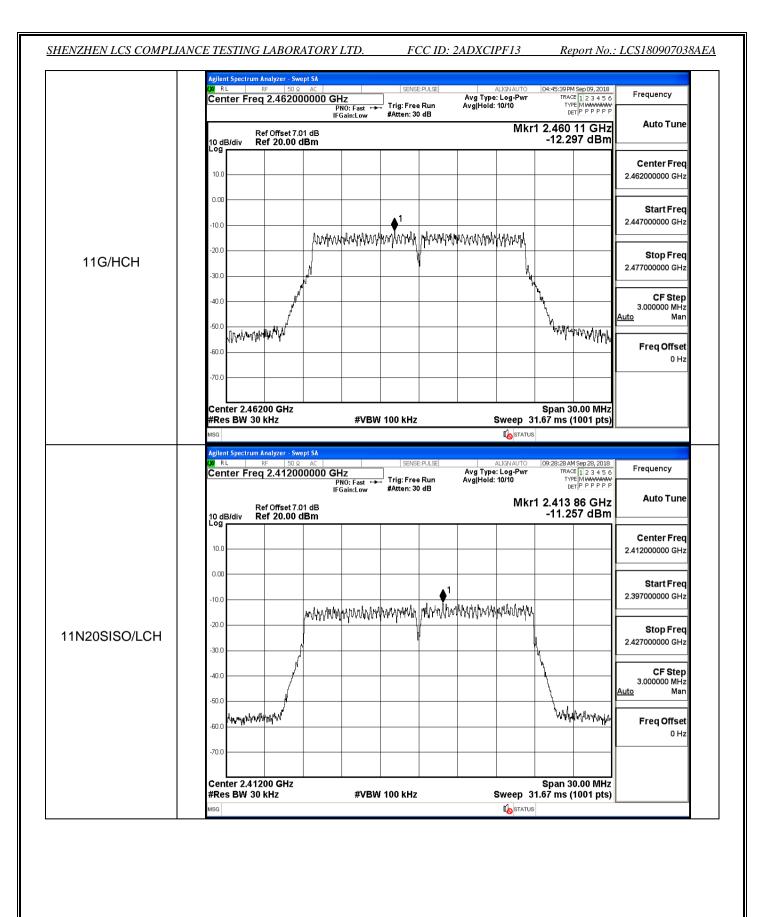
## **A.2 Maximum Conducted Output Power**

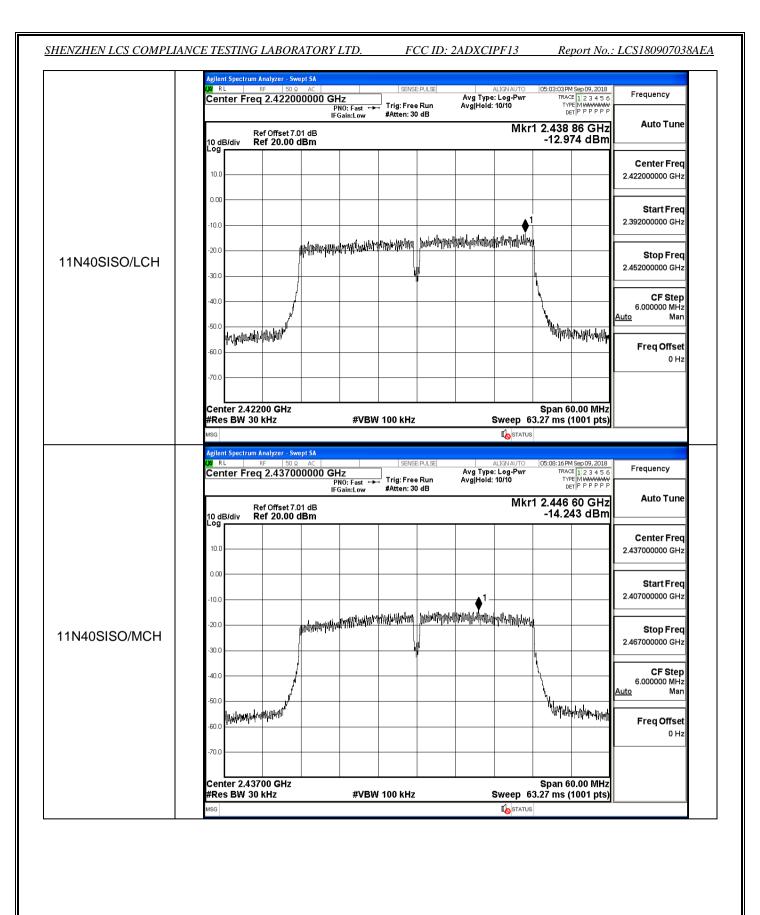
Mode	Channel	Meas. Peak Level [dBm]	Limit [dBm]	Verdict
	LCH	13.07	30	PASS
11B	MCH	13.27	30	PASS
	HCH	12.87	30	PASS
	LCH	13.25	30	PASS
11G	MCH	13.43	30	PASS
	HCH	12.42	30	PASS
	LCH	13.24	30	PASS
11N20SISO	MCH	13.31	30	PASS
	HCH	13.61	30	PASS
	LCH	13.77	30	PASS
11N40SISO	MCH	13.21	30	PASS
	HCH	13.31	30	PASS

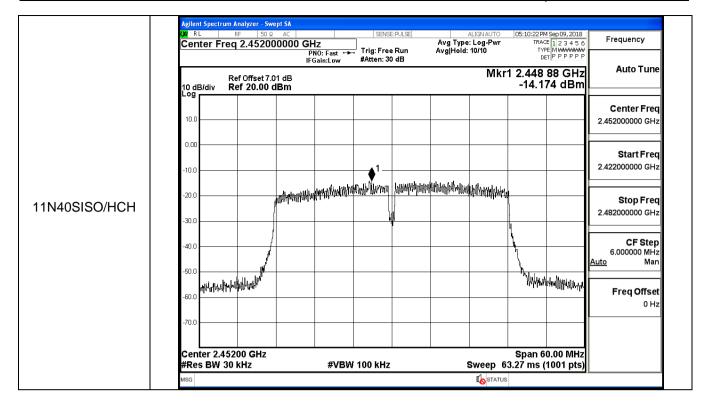
## A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-4.856	8	PASS
11B	MCH	-4.764	8	PASS
	HCH	-5.093	8	PASS
	LCH	-10.334	8	PASS
11G	MCH	-10.083	8	PASS
	HCH	-12.297	8	PASS
	LCH	-11.257	8	PASS
11N20SISO	MCH	-11.226	8	PASS
	HCH	-10.944	8	PASS
	LCH	-12.974	8	PASS
11N40SISO	MCH	-14.243	8	PASS
	НСН	-14.174	8	PASS



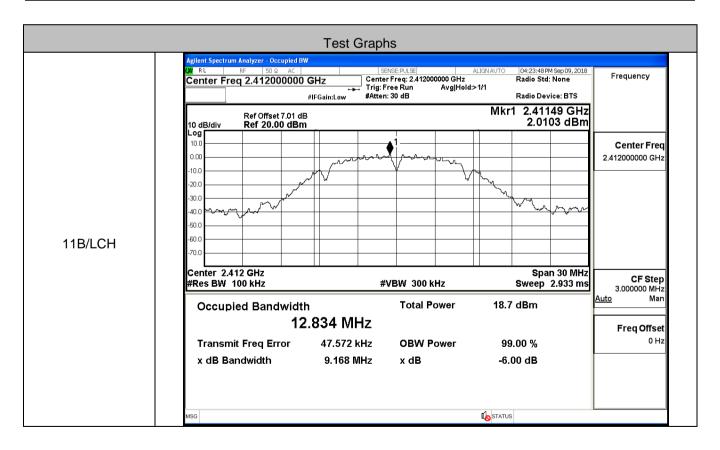


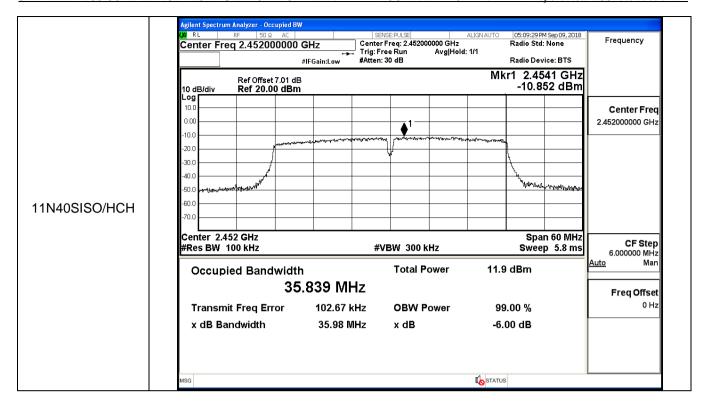




#### A.4 6dB Bandwidth

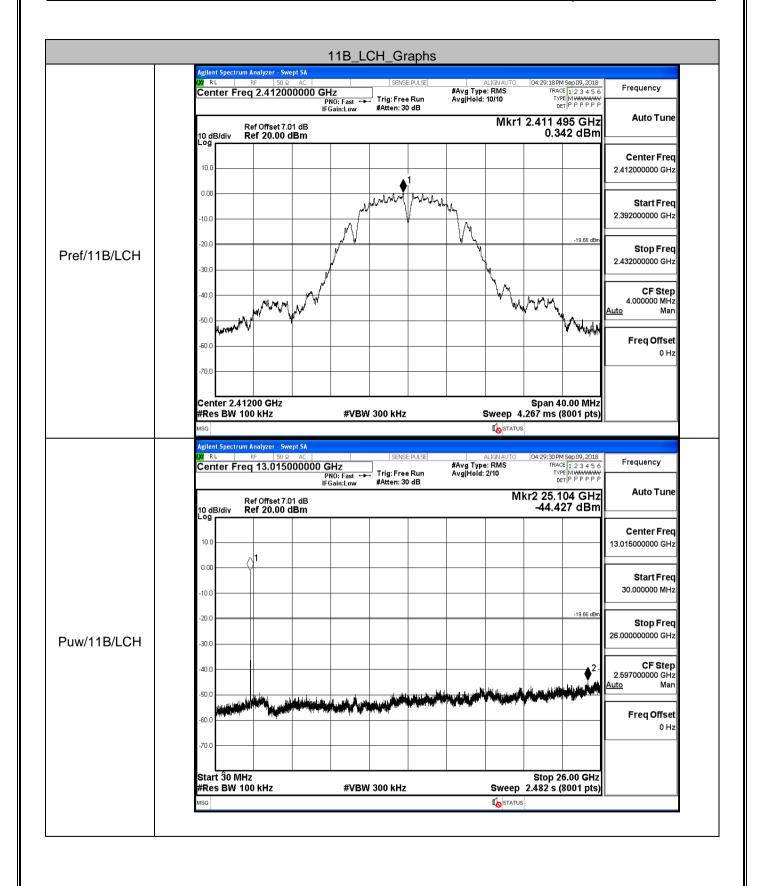
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.168	≥0.5	PASS
11B	MCH	9.159	≥0.5	PASS
	HCH	9.159	≥0.5	PASS
	LCH	15.14	≥0.5	PASS
11G	MCH	16.38	≥0.5	PASS
	HCH	16.61	≥0.5	PASS
	LCH	17.82	≥0.5	PASS
11N20SISO	MCH	17.80	≥0.5	PASS
	HCH	17.84	≥0.5	PASS
	LCH	36.00	≥0.5	PASS
11N40SISO	MCH	36.49	≥0.5	PASS
	HCH	35.98	≥0.5	PASS

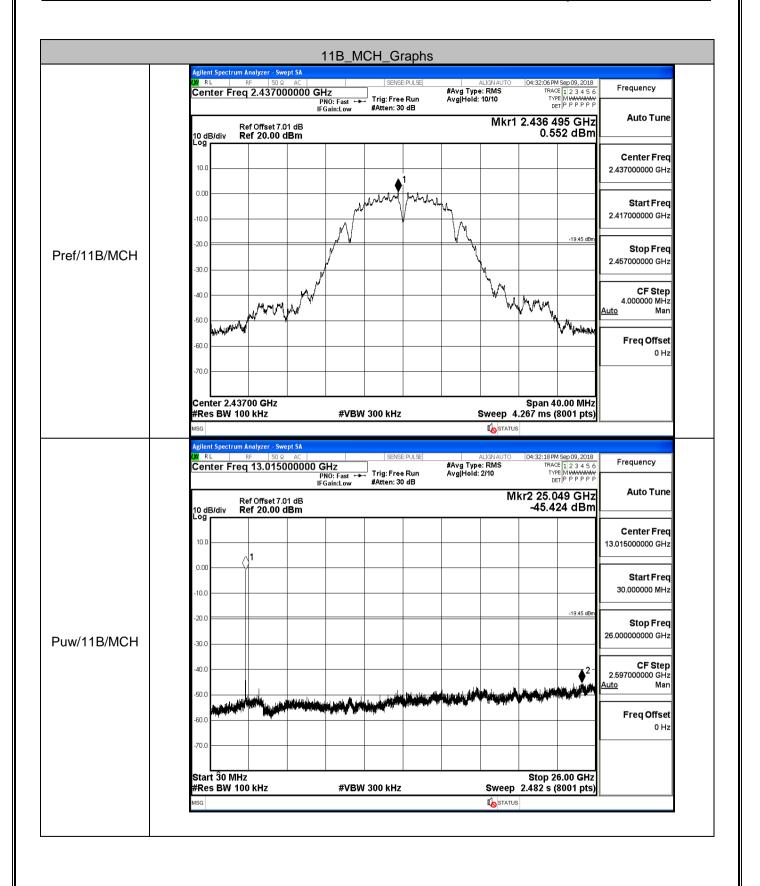


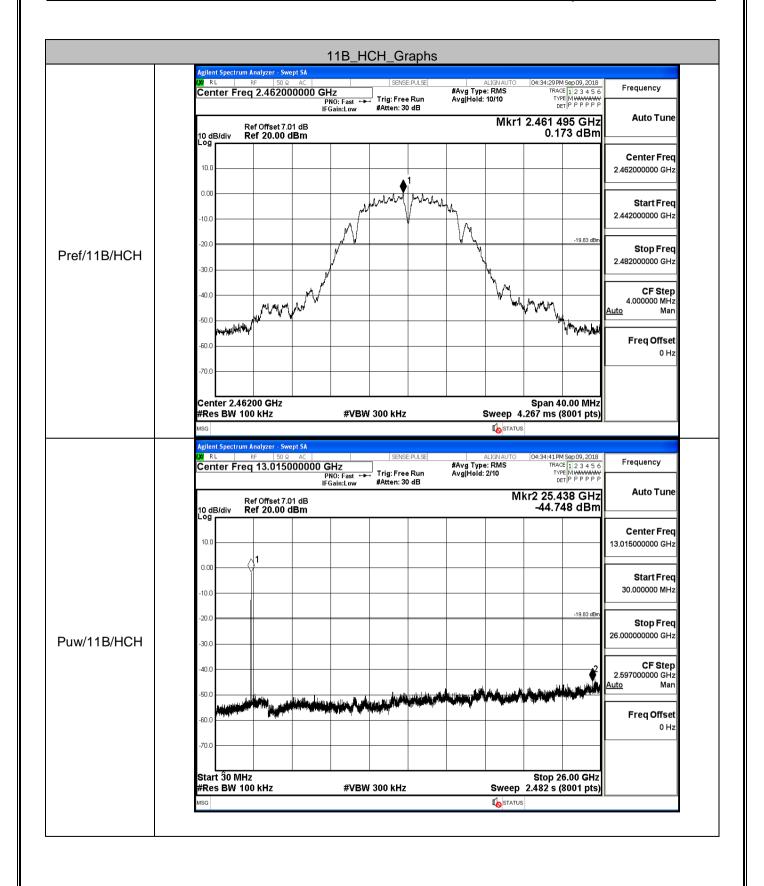


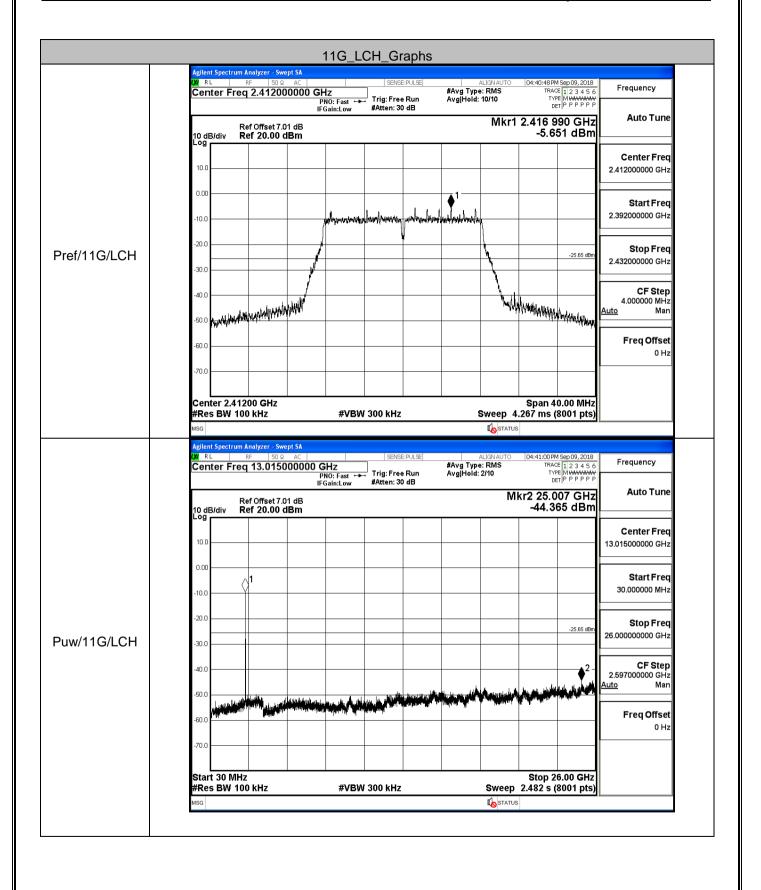
## A.5 RF Conducted Spurious Emissions

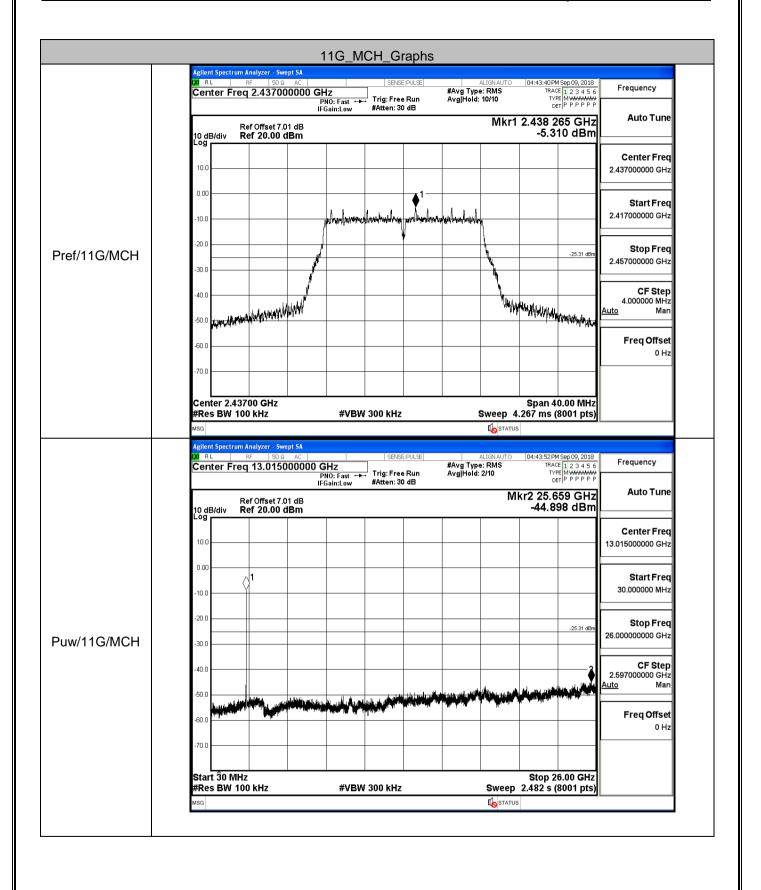
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.342	-44.427	-19.658	PASS
11B	MCH	0.552	-45.424	-19.448	PASS
	HCH	0.173	-44.748	-19.827	PASS
	LCH	-5.651	-44.365	-25.651	PASS
11G	MCH	-5.31	-44.898	-25.310	PASS
	HCH	-9.645	-45.327	-29.645	PASS
	LCH	-8.744	-44.868	-28.744	PASS
11N20	MCH	-8.636	-44.775	-28.636	PASS
SISO	НСН	-8.279	-45.669	-28.279	PASS
448145	LCH	-10.707	-44.020	-30.707	PASS
11N40	MCH	-11.171	-44.898	-31.171	PASS
SISO	НСН	-10.913	-44.026	-30.913	PASS

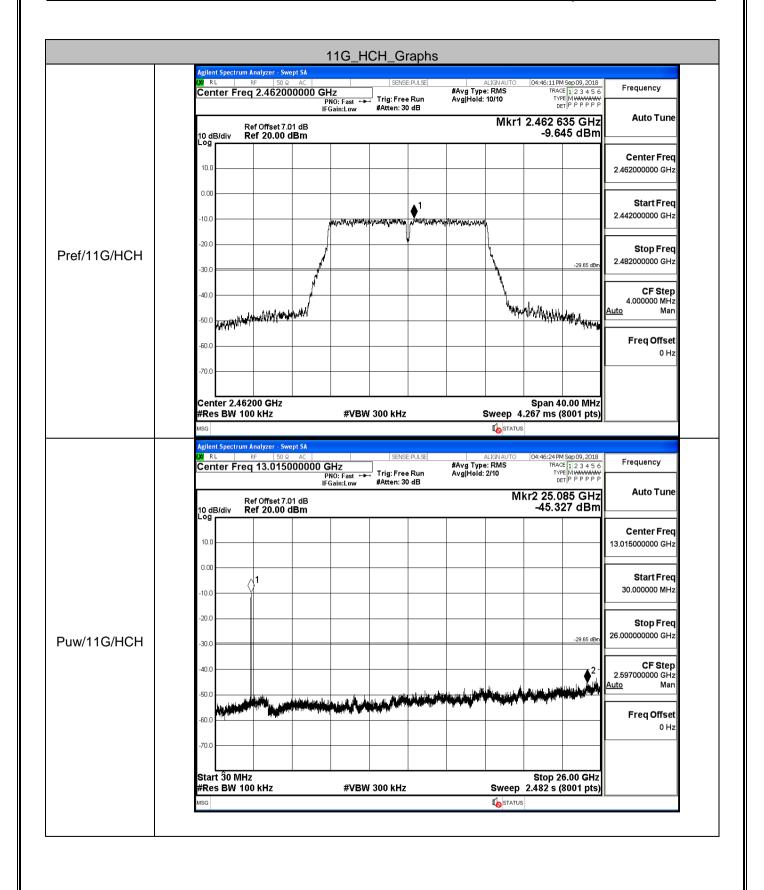


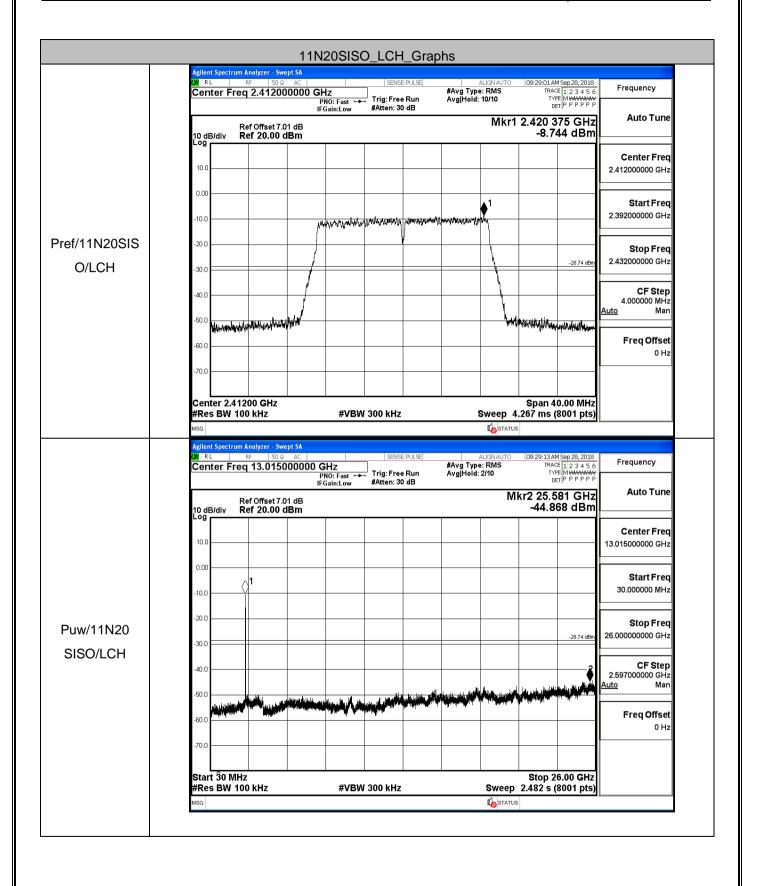


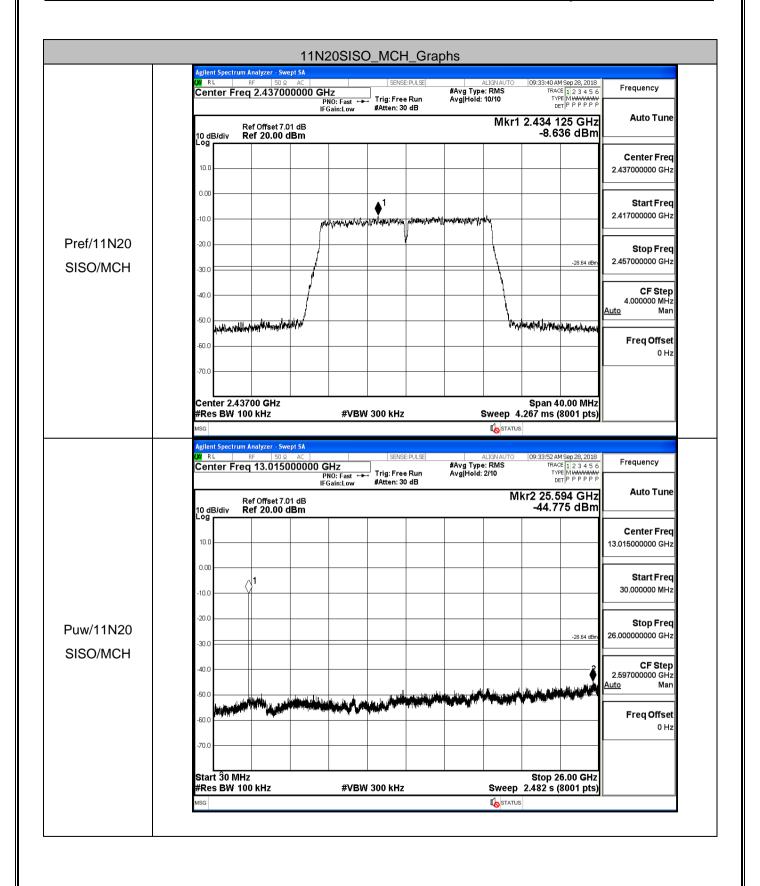


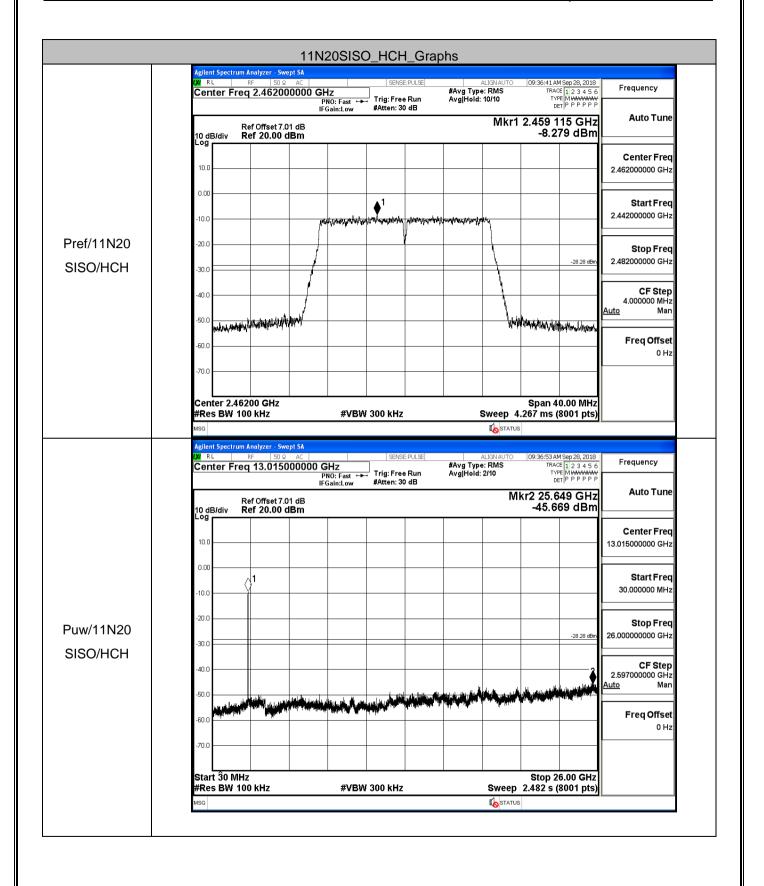


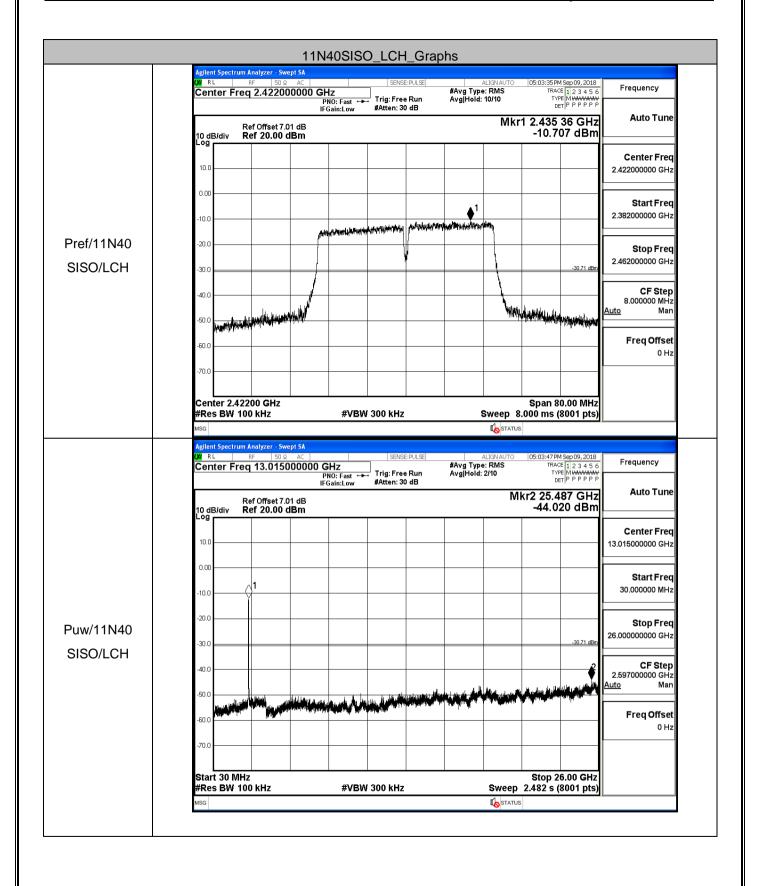


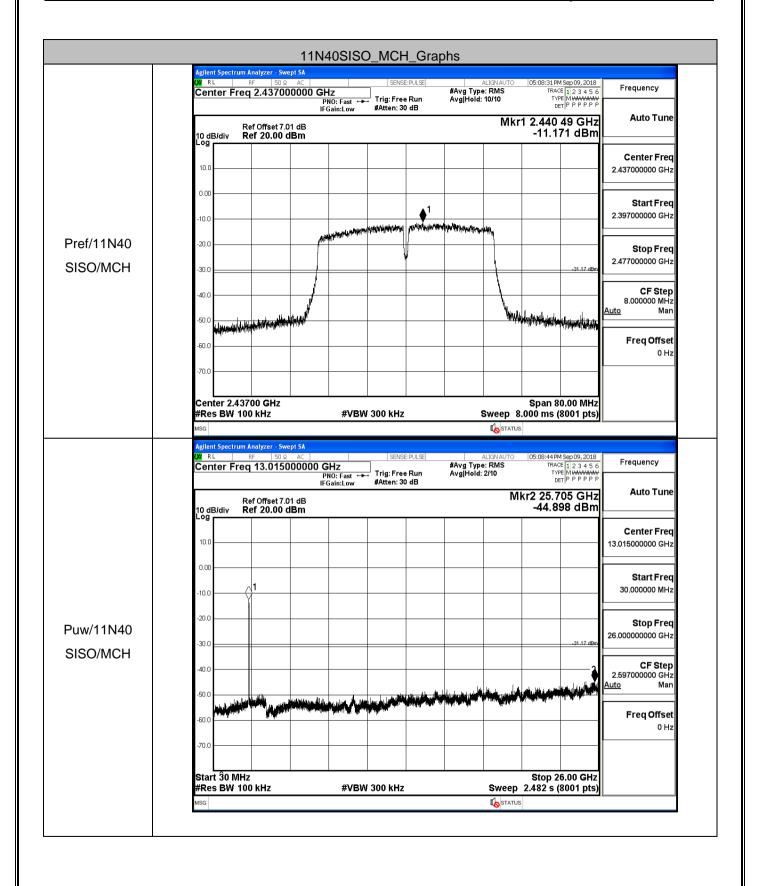


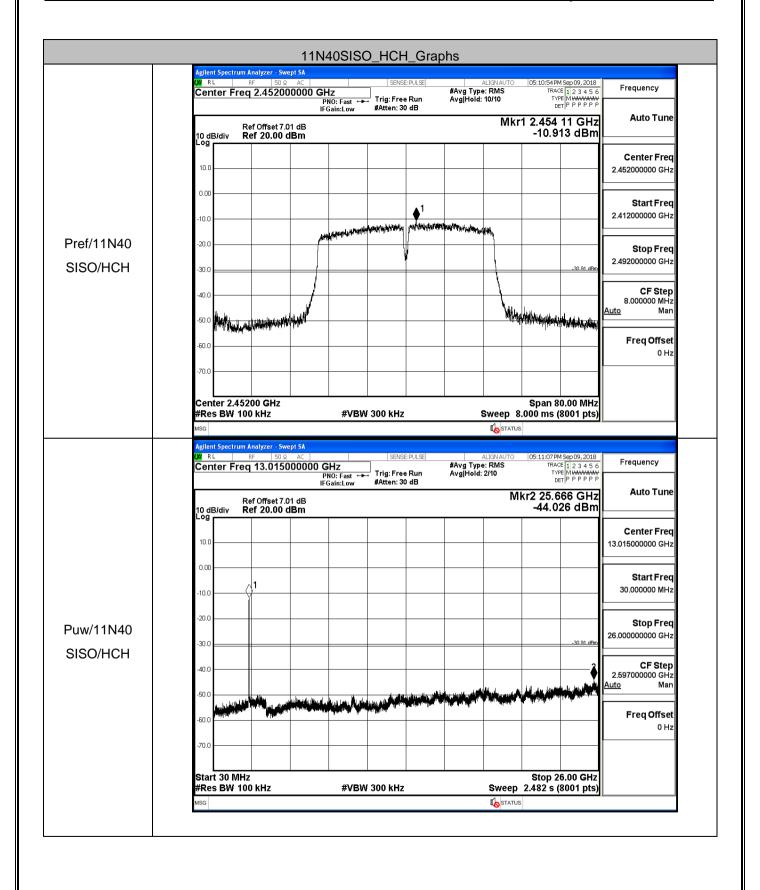






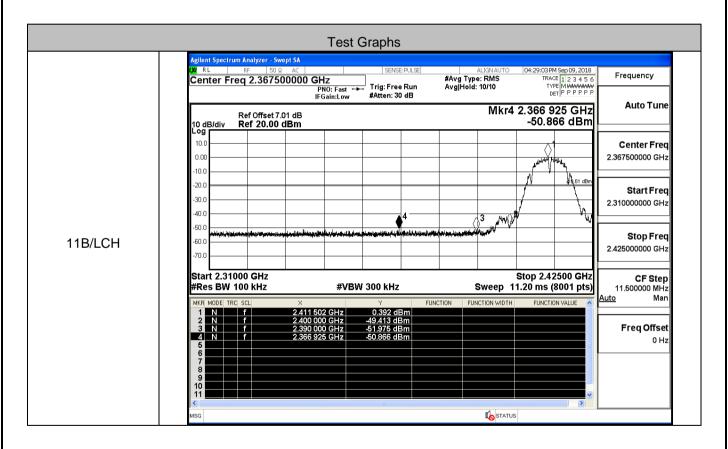


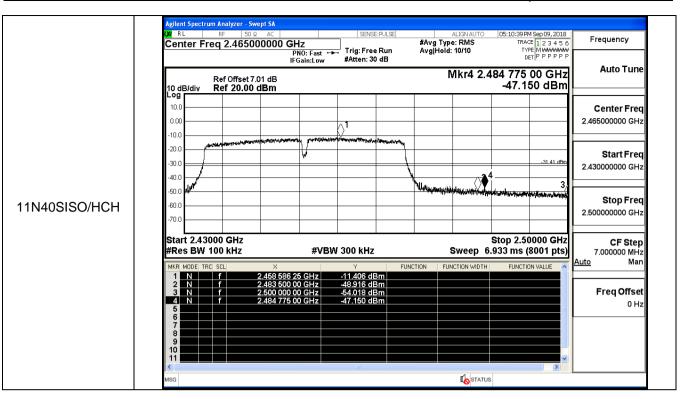




## A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
445	LCH	0.392	-50.866	-19.61	PASS
11B	HCH	0.243	-50.720	-19.76	PASS
	LCH	-5.477	-50.621	-25.48	PASS
11G	HCH	-9.510	-49.908	-29.51	PASS
	LCH	-8.538	-50.075	-28.54	PASS
11N20SISO	HCH	-8.197	-50.270	-28.2	PASS
	LCH	-10.791	-48.406	-30.79	PASS
11N40SISO	HCH	-11.406	-47.150	-31.41	PASS

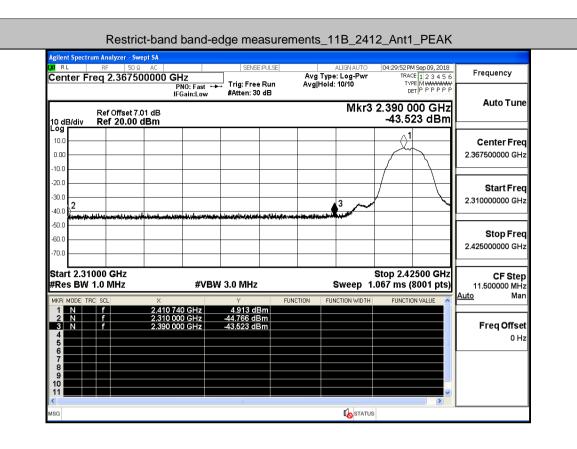




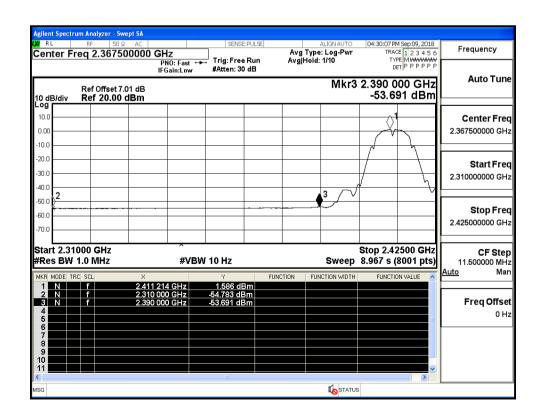
# A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-44.77	2.0	0	50.49	PEAK	74	PASS
	2412	Ant1	2310.0	-54.78	2.0	0	40.47	AV	54	PASS
	2412	Ant1	2390.0	-43.52	2.0	0	51.73	PEAK	74	PASS
445	2412	Ant1	2390.0	-53.69	2.0	0	41.57	AV	54	PASS
11B	2462	Ant1	2483.5	-44.20	2.0	0	51.05	PEAK	74	PASS
	2462	Ant1	2483.5	-54.08	2.0	0	41.18	AV	54	PASS
	2462	Ant1	2500.0	-44.00	2.0	0	51.26	PEAK	74	PASS
	2462	Ant1	2500.0	-53.99	2.0	0	41.27	AV	54	PASS
	2412	Ant1	2310.0	-44.45	2.0	0	50.80	PEAK	74	PASS
	2412	Ant1	2310.0	-54.80	2.0	0	40.46	AV	54	PASS
	2412	Ant1	2390.0	-39.52	2.0	0	55.74	PEAK	74	PASS
	2412	Ant1	2390.0	-52.92	2.0	0	42.33	AV	54	PASS
11G	2462	Ant1	2483.5	-41.22	2.0	0	54.04	PEAK	74	PASS
	2462	Ant1	2483.5	-53.02	2.0	0	42.24	AV	54	PASS
	2462	Ant1	2500.0	-43.82	2.0	0	51.43	PEAK	74	PASS
	2462	Ant1	2500.0	-53.79	2.0	0	41.47	AV	54	PASS
	2412	Ant1	2310.0	-45.37	2.0	0	49.89	PEAK	74	PASS
	2412	Ant1	2310.0	-54.97	2.0	0	40.29	AV	54	PASS
	2412	Ant1	2390.0	-43.44	2.0	0	51.82	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-53.80	2.0	0	41.46	AV	54	PASS
SISO	2462	Ant1	2483.5	-41.73	2.0	0	53.53	PEAK	74	PASS
	2462	Ant1	2483.5	-53.47	2.0	0	41.79	AV	54	PASS
	2462	Ant1	2500.0	-42.70	2.0	0	52.56	PEAK	74	PASS
	2462	Ant1	2500.0	-53.70	2.0	0	41.56	AV	54	PASS
11N40	2422	Ant1	2310.0	-43.86	2.0	0	51.40	PEAK	74	PASS
SISO	2422	Ant1	2310.0	-54.79	2.0	0	40.47	AV	54	PASS

5	<u>HENZHEN I</u>	LCS COMP	<i>LIANCE</i>	TESTING LA	ABORATORY L	FCC ID: 2ADX	Report No.: LCS180907038AEA				
		2422	Ant1	2390.0	-41.04	2.0	0	54.21	PEAK	74	PASS
		2422	Ant1	2390.0	-51.30	2.0	0	43.96	AV	54	PASS
		2452	Ant1	2483.5	-38.65	2.0	0	56.60	PEAK	74	PASS
		2452	Ant1	2483.5	-50.99	2.0	0	44.27	AV	54	PASS
		2452	Ant1	2500.0	-41.32	2.0	0	53.94	PEAK	74	PASS
		2452	Ant1	2500.0	-52.92	2.0	0	42.34	AV	54	PASS

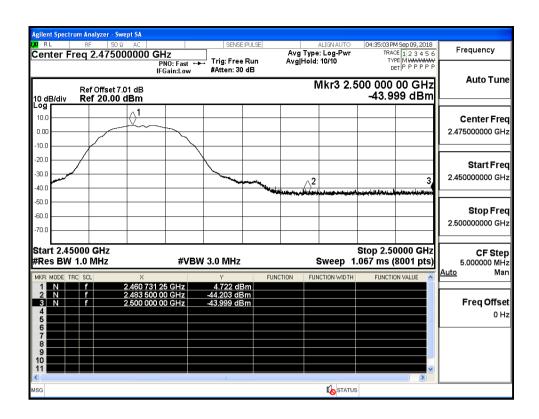


#### Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV

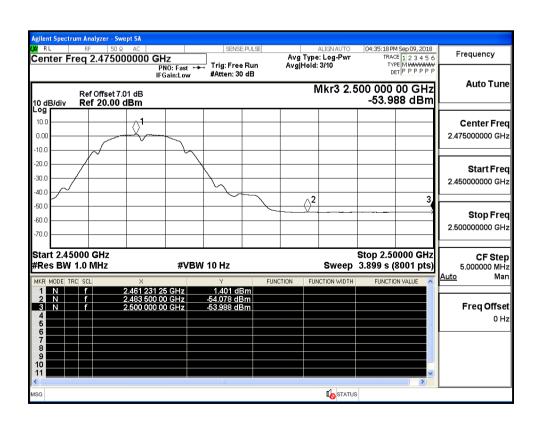


Page 39 of 46

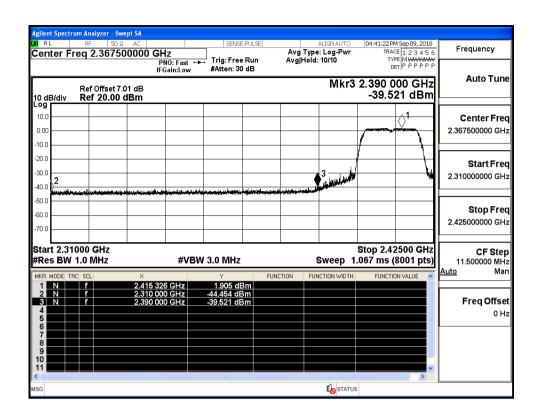
#### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



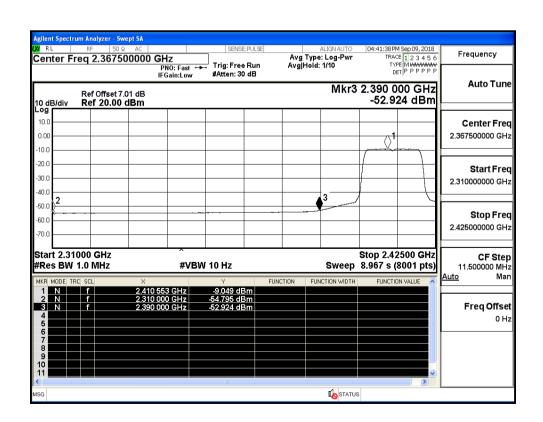
#### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



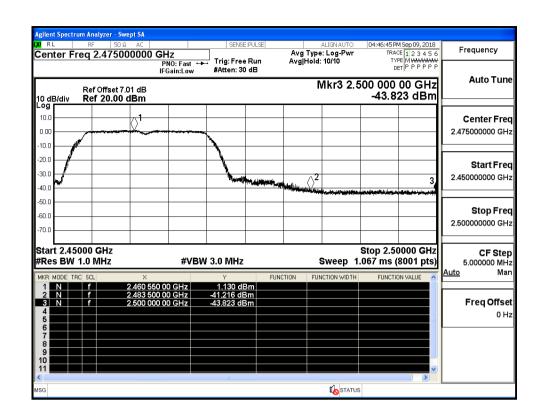
#### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



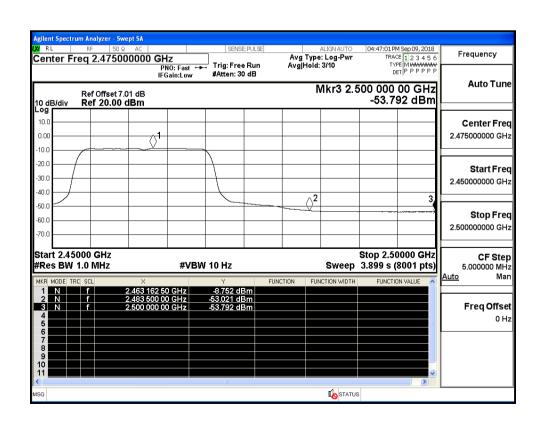
#### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



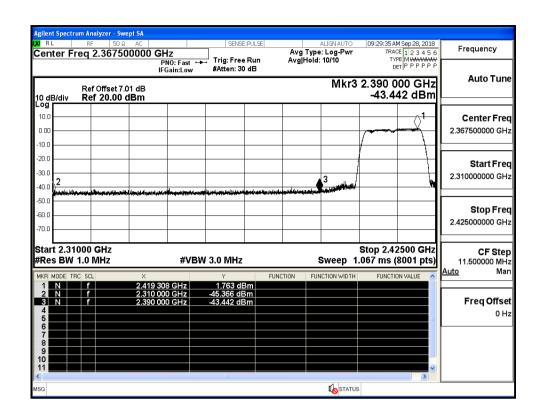
#### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



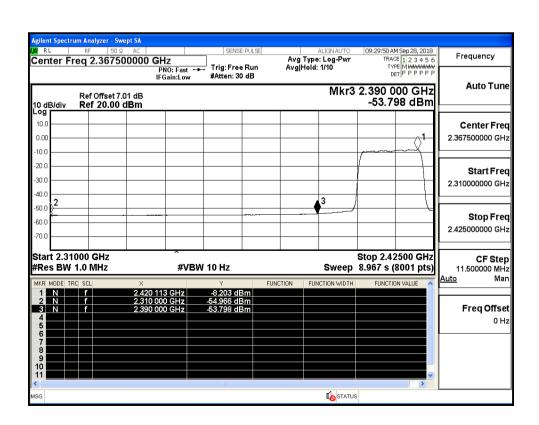
#### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



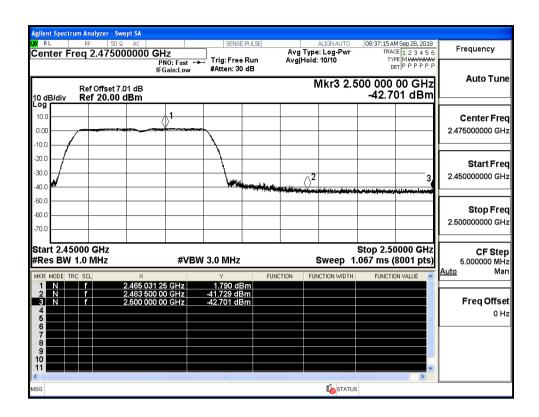
#### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



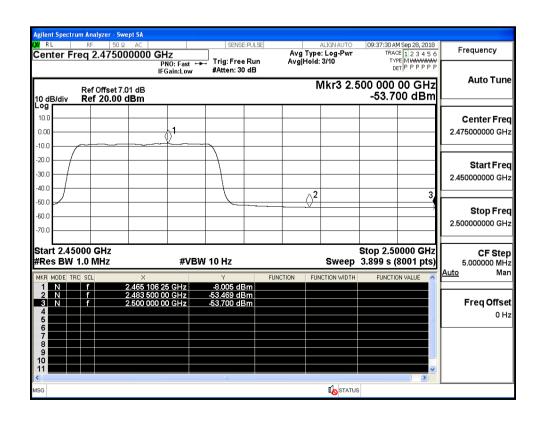
### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV

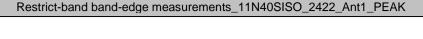


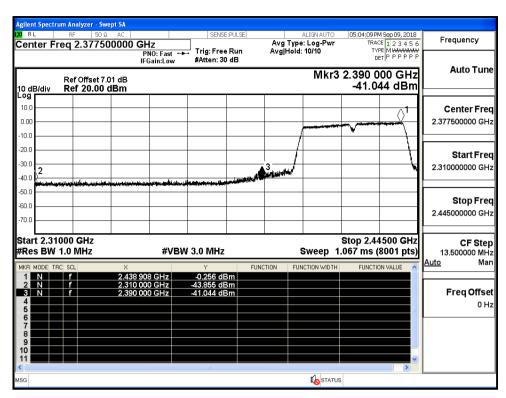
#### Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



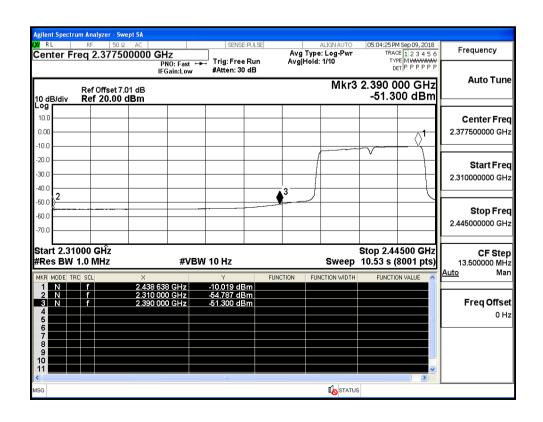
#### Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV

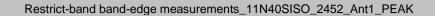


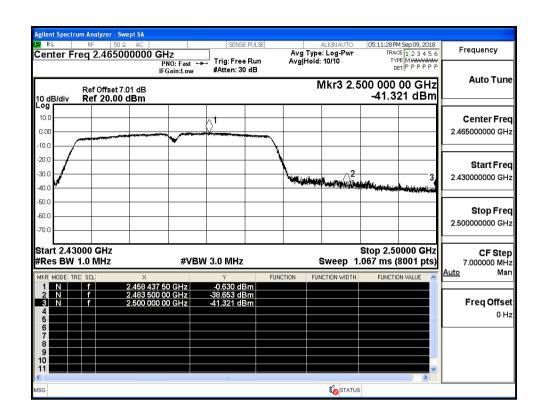




#### Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV







#### Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

