Appendix J

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Cellular Wi-Fi Router

Trade Mark: #記載 Test Model: H8956

Environmental Conditions

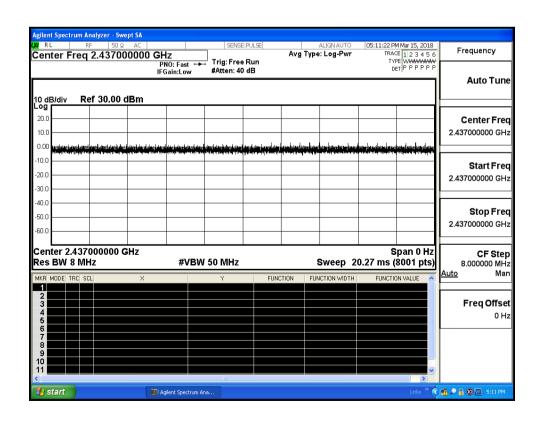
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Tom.Liu

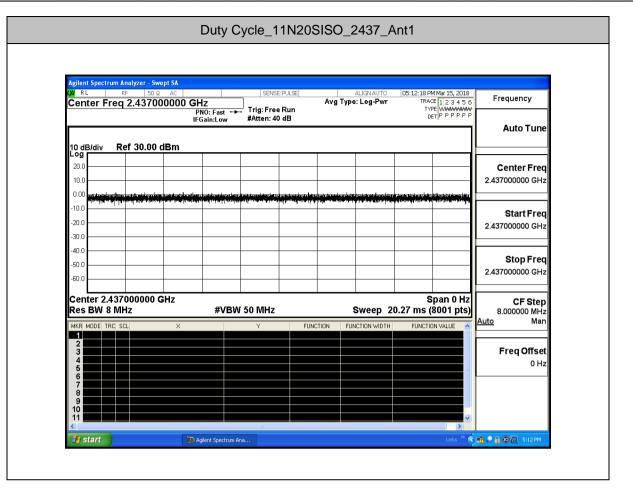
J.1 Duty Cycle

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 igilent Spectrum Analyzer - Swept SA Frequency **Auto Tune** Ref 30.00 dBm 10 dB/div Log 20.0 Center Freq 10.0 2.437000000 GHz -10.0 Start Freq -20.1 2.437000000 GHz -30.0 40.0 Stop Freq -50.0 2.437000000 GHz -60 O Center 2.437000000 GHz Span 0 Hz **CF Step** 8.000000 MHz Res BW 8 MHz #VBW 50 MHz Sweep 20.27 ms (8001 pts) FUNCTION FUNCTION WIDTH FUNCTION VALUE Freq Offset 0 Hz 🔇 🚮 🔑 🔒 🔞 🔼 5:10 PM

Duty Cycle_11G_2437_Ant1



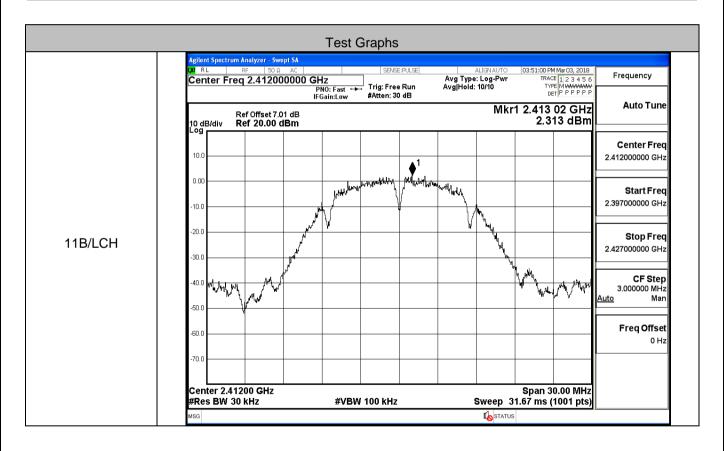


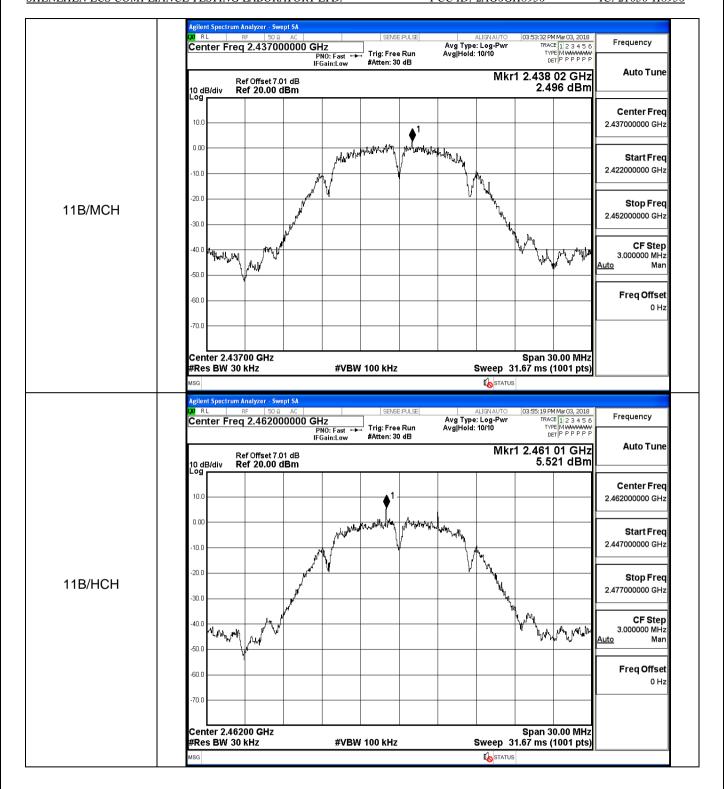
J.2 Maximum Conducted Output Power

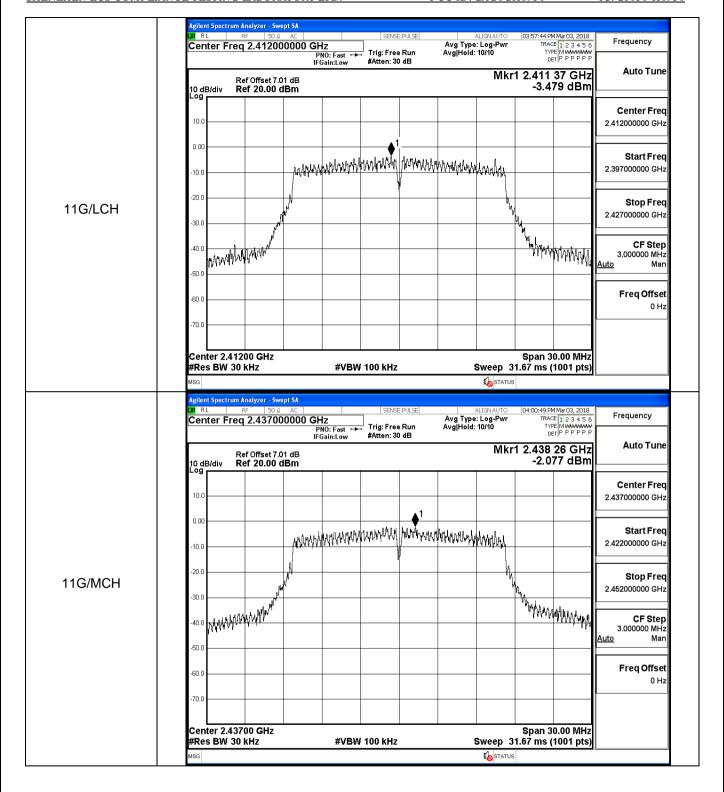
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	17.48	30	PASS
11B	MCH	17.62	30	PASS
	HCH	17.58	30	PASS
	LCH	15.26	30	PASS
11G	MCH	15.21	30	PASS
	НСН	15.66	30	PASS
	LCH	14.54	30	PASS
11N20SISO	MCH	14.66	30	PASS
	HCH	14.78	30	PASS

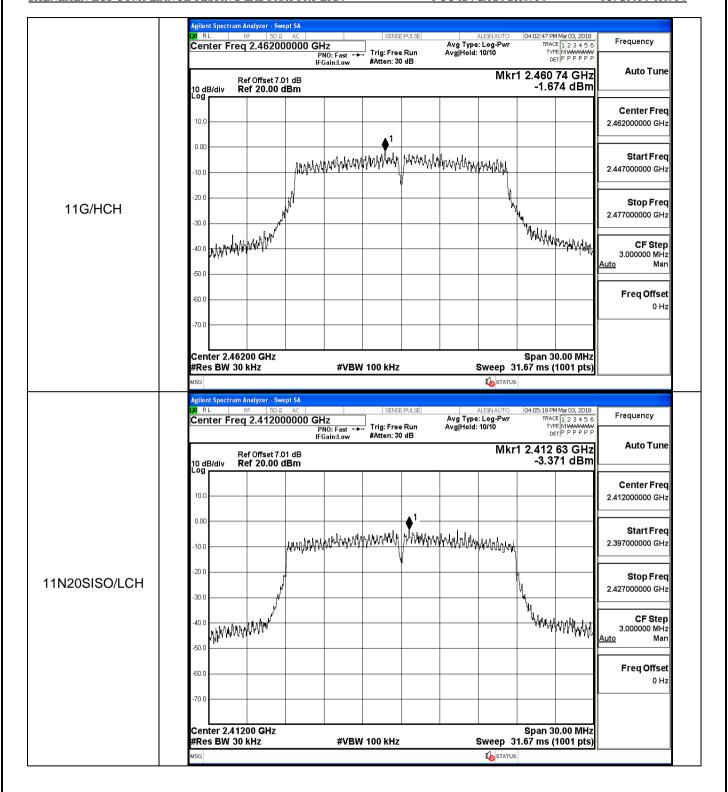
J.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	2.313	8	PASS
11B	MCH	2.496	8	PASS
	HCH	5.521	8	PASS
	LCH	-3.479	8	PASS
11G	MCH	-2.077	8	PASS
	HCH	-1.674	8	PASS
	LCH	-3.371	8	PASS
11N20SISO	MCH	-0.960	8	PASS
	HCH	-1.465	8	PASS







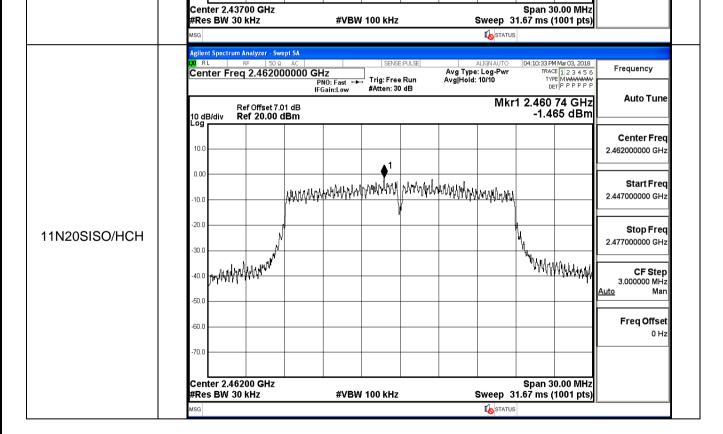


Freq Offset

0 Hz

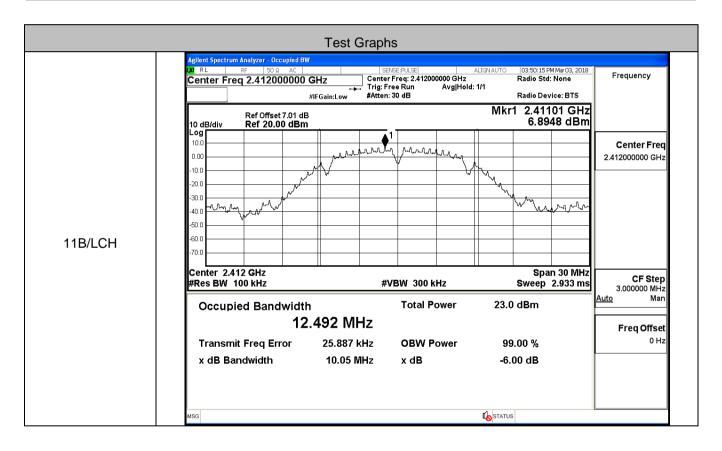
-50.0

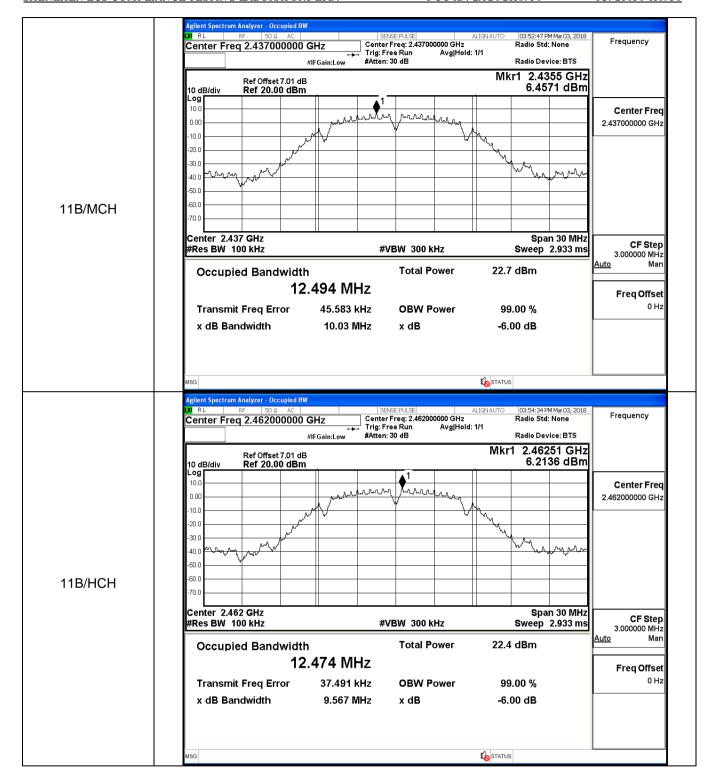
-60.0

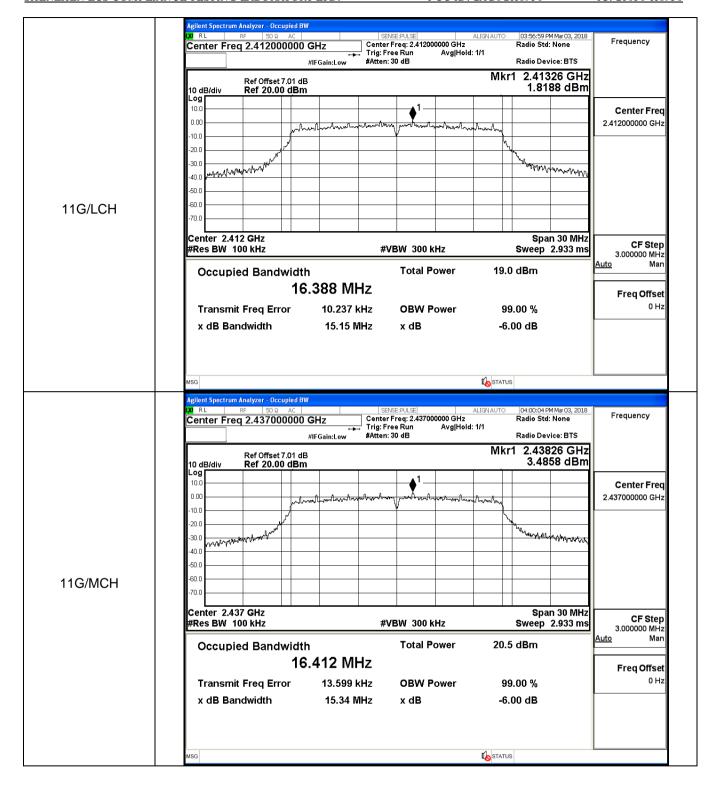


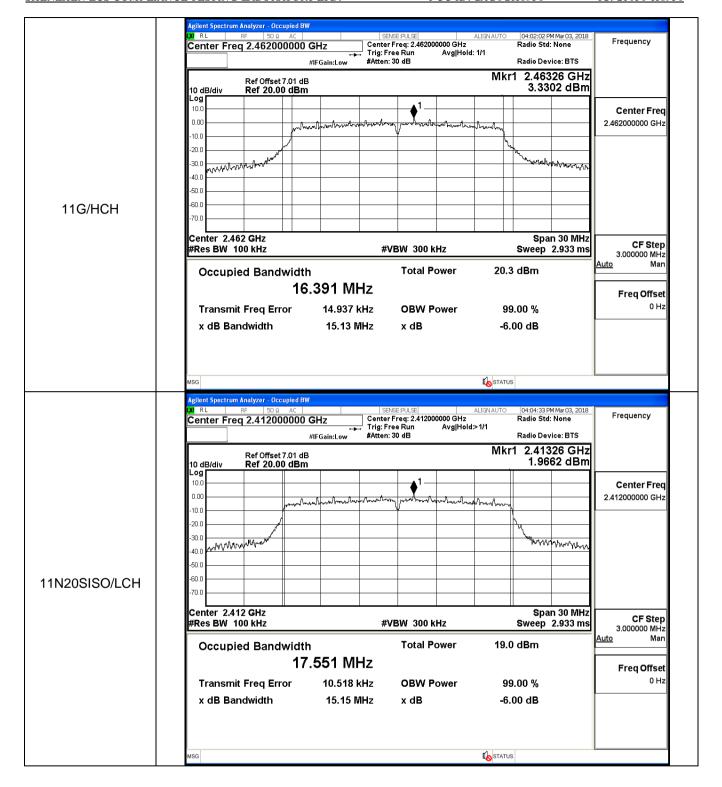
J.4 6dB Bandwidth

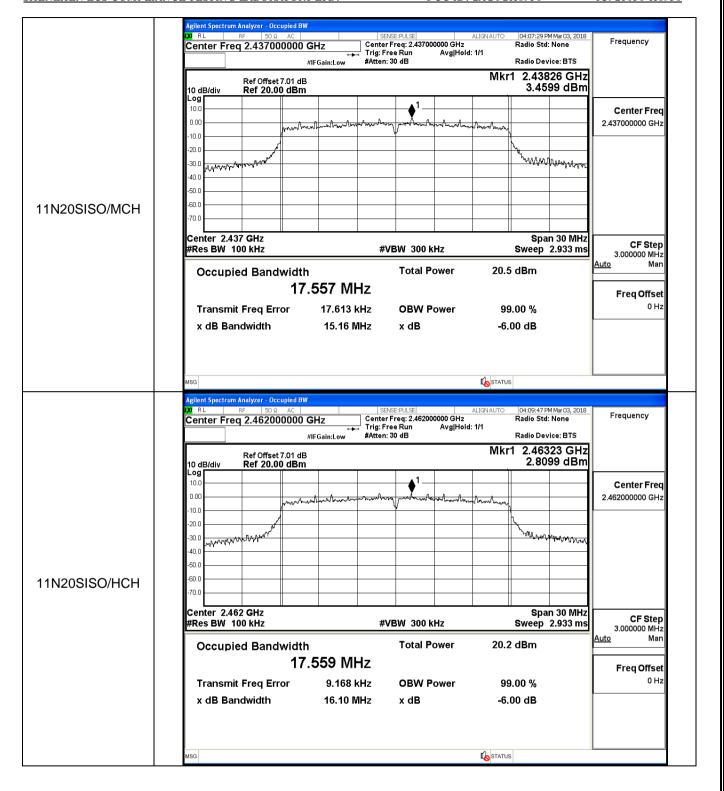
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	10.05	≥0.5	PASS
11B	MCH	10.03	≥0.5	PASS
	HCH	9.567	≥0.5	PASS
	LCH	15.15	≥0.5	PASS
11G	MCH	15.34	≥0.5	PASS
	HCH	15.13	≥0.5	PASS
	LCH	15.15	≥0.5	PASS
11N20SISO	MCH	15.16	≥0.5	PASS
	HCH	16.10	≥0.5	PASS





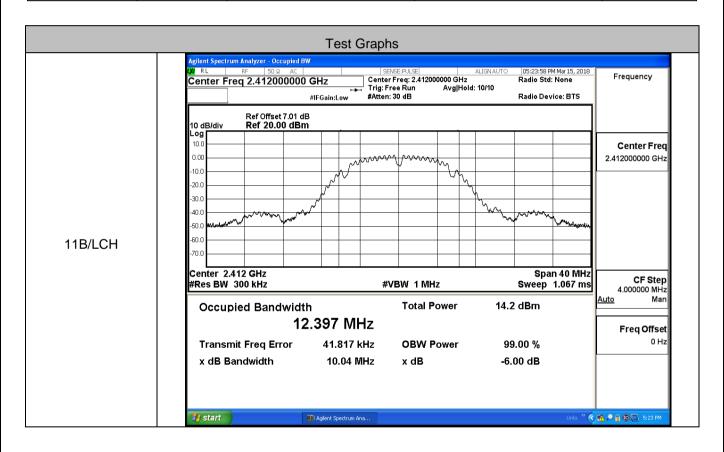


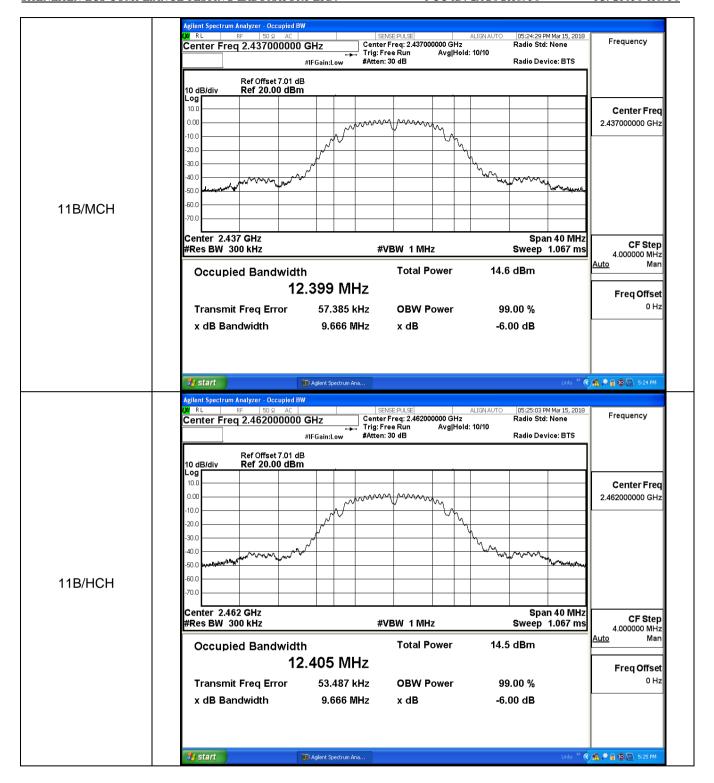


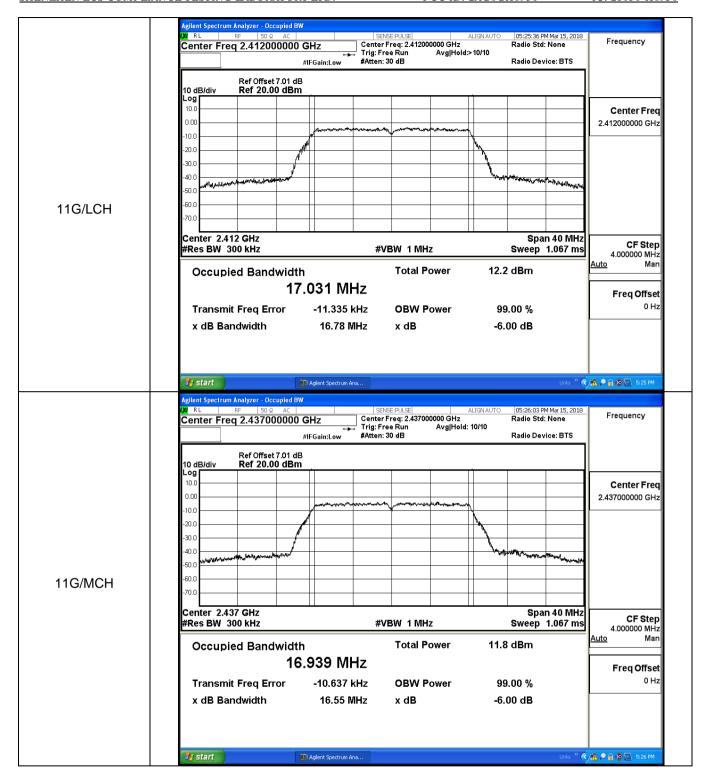


J.5 99% Bandwidth

Mode	Channel	99% Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	12.397	No Limit	PASS
11B	MCH	12.399	No Limit	PASS
	HCH	12.405	No Limit	PASS
	LCH	17.031	No Limit	PASS
11G	MCH	16.939	No Limit	PASS
	HCH	17.029	No Limit	PASS
	LCH	17.795	No Limit	PASS
11N20SISO	MCH	17.780	No Limit	PASS
	HCH	17.799	No Limit	PASS







Total Power

OBW Power

x dB

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

17.795 MHz

Agilent Spectrum Ana.

27.260 kHz

17.71 MHz

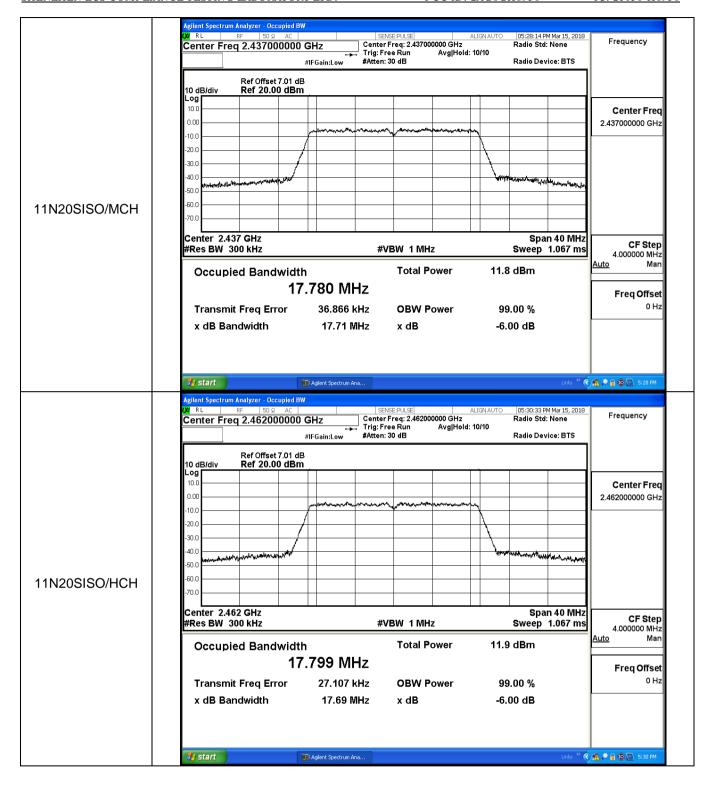
12.1 dBm

99.00 %

-6.00 dB

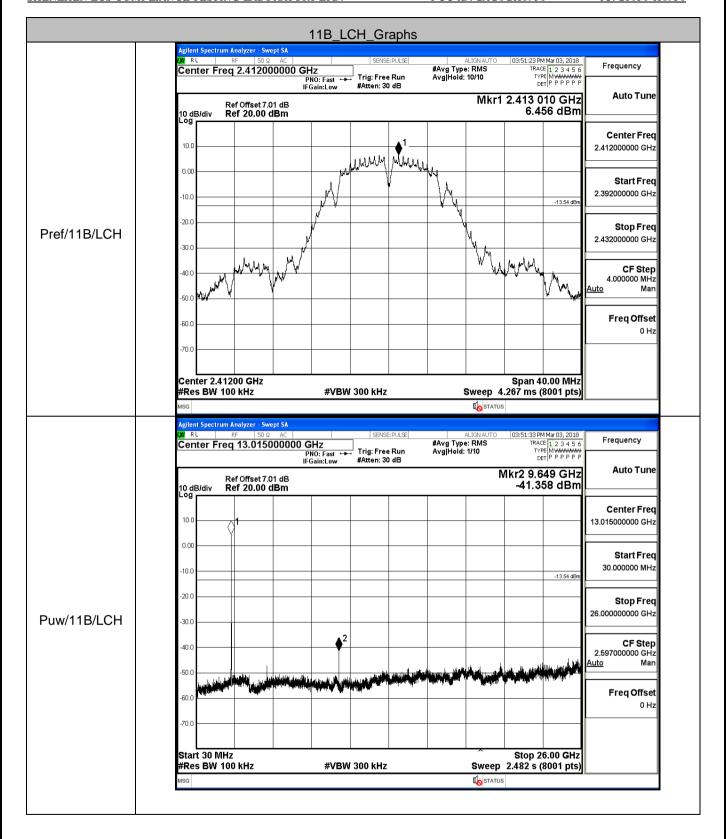
Mar

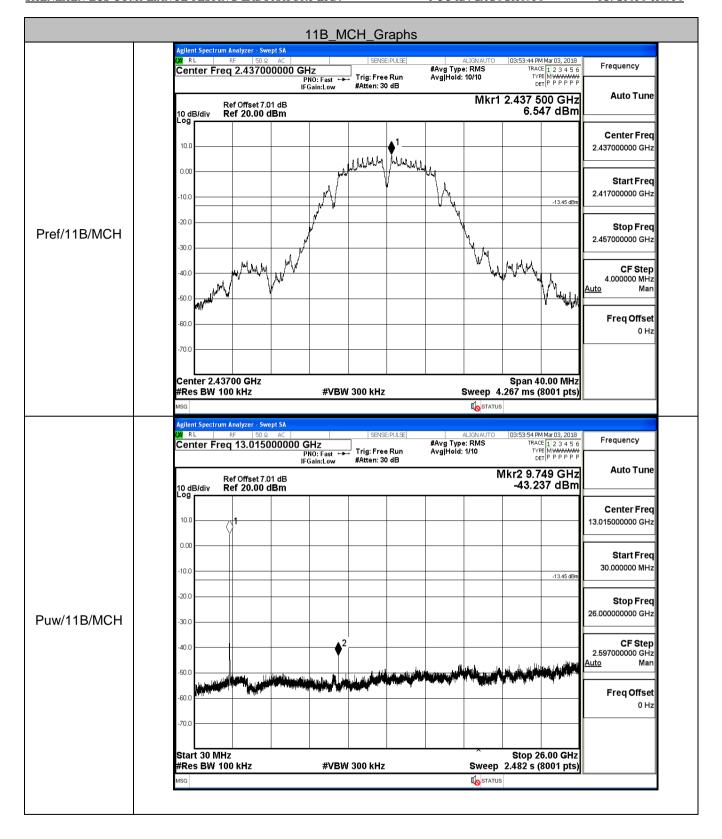
Freq Offset 0 Hz

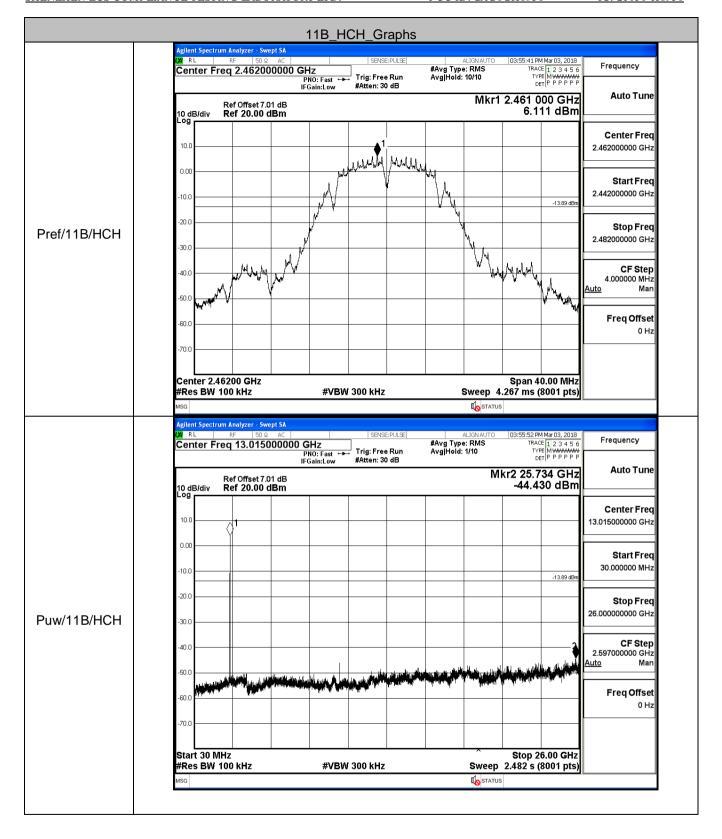


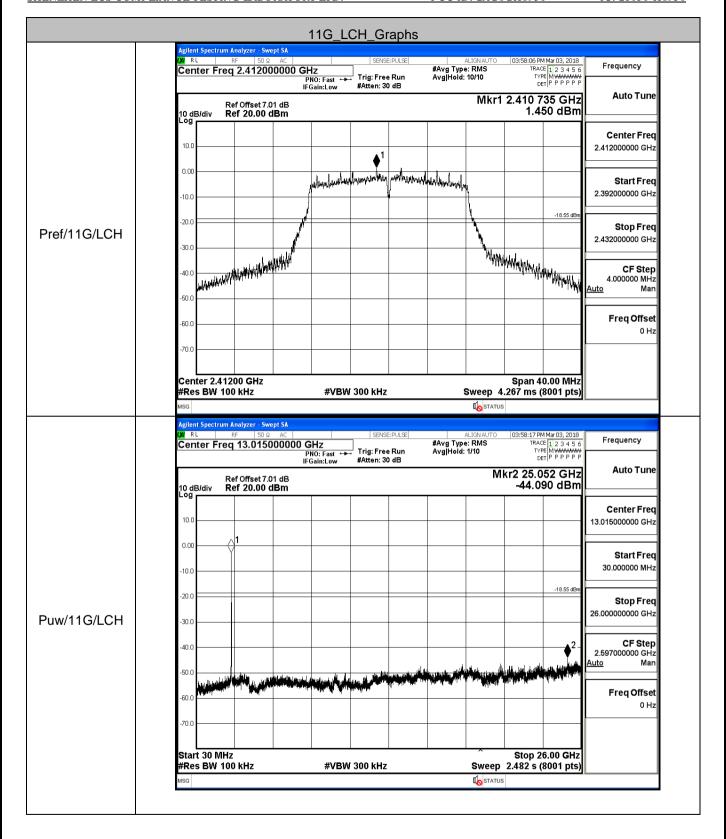
J.6 RF Conducted Spurious Emissions

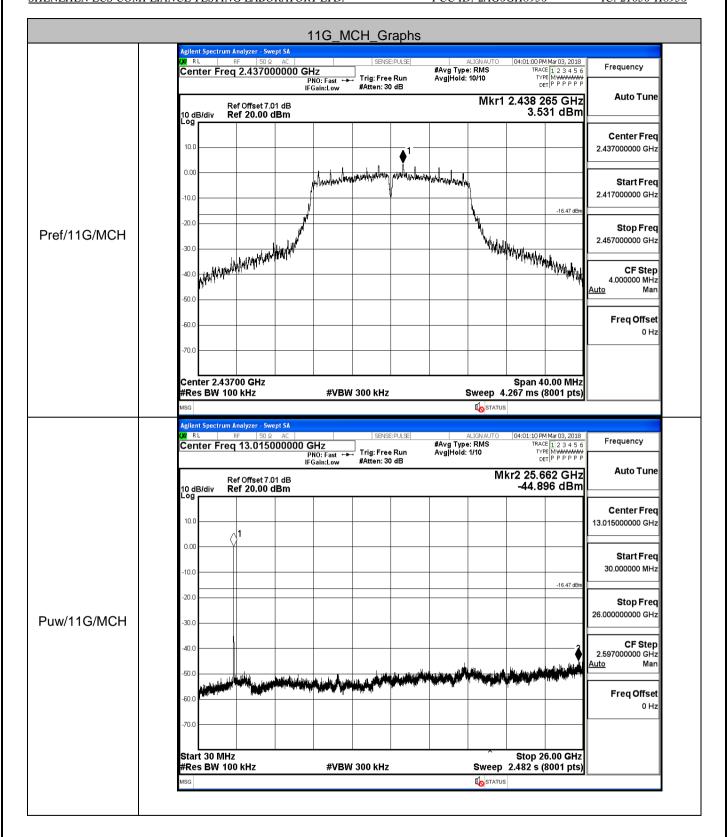
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBc]	Verdict
	LCH	6.456	-41.358	-20	PASS
11B	MCH	6.547	-43.237	-20	PASS
	HCH	6.111	-44.430	-20	PASS
	LCH	1.450	-44.090	-20	PASS
11G	MCH	3.531	-44.896	-20	PASS
	НСН	3.229	-44.179	-20	PASS
	LCH	1.915	-44.467	-20	PASS
11N20SISO	SISO MCH 3.488		-44.830	-20	PASS
	НСН	3.122	-45.151	-20	PASS

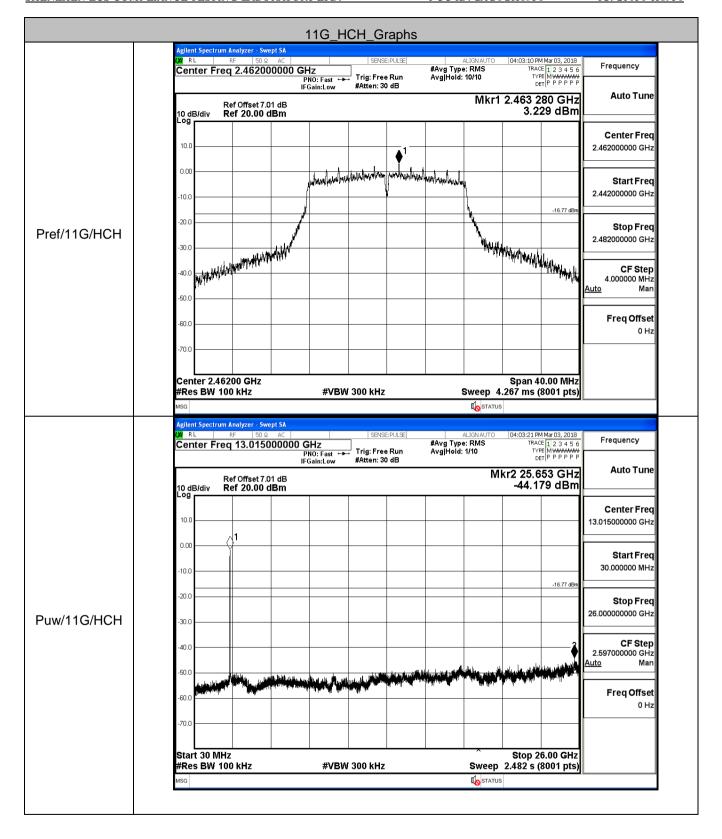


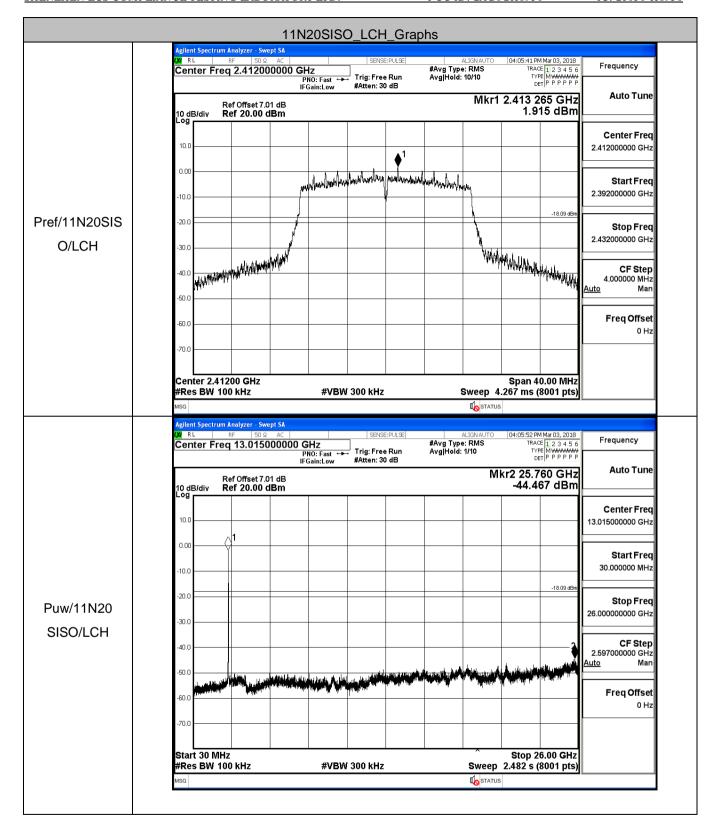


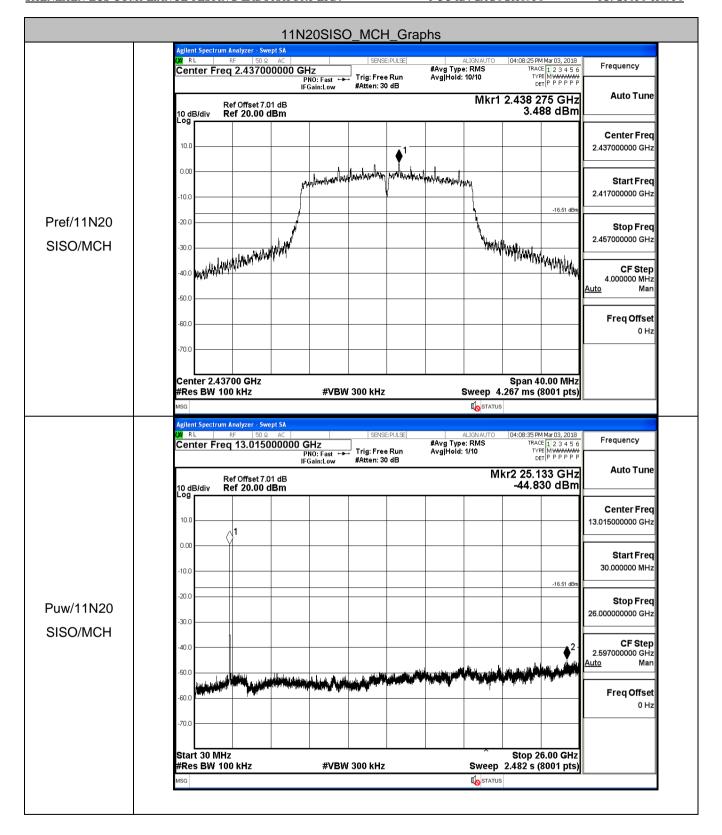


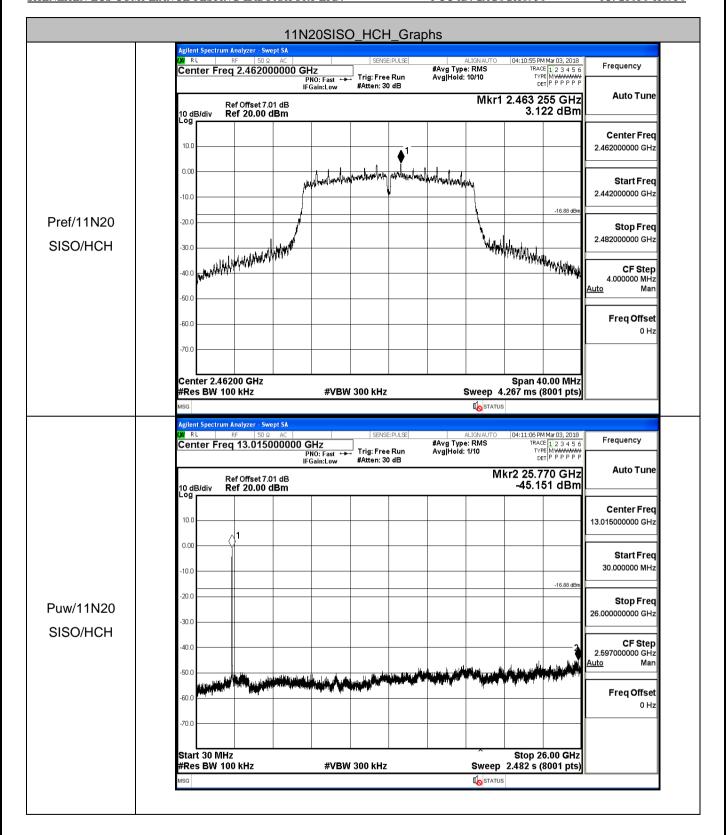






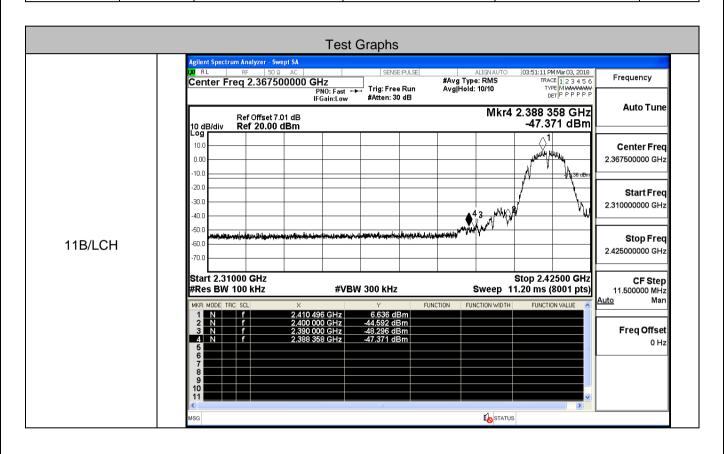


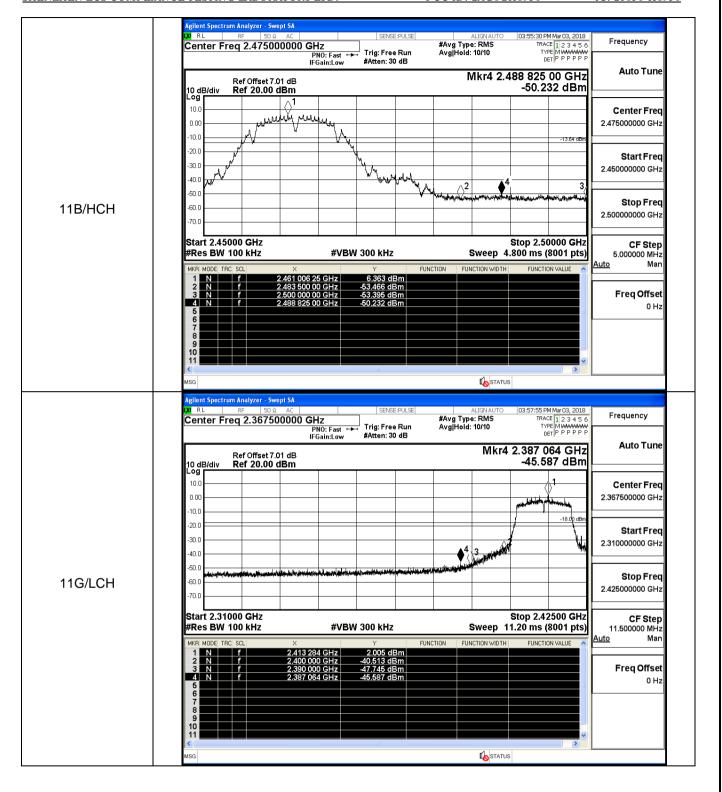


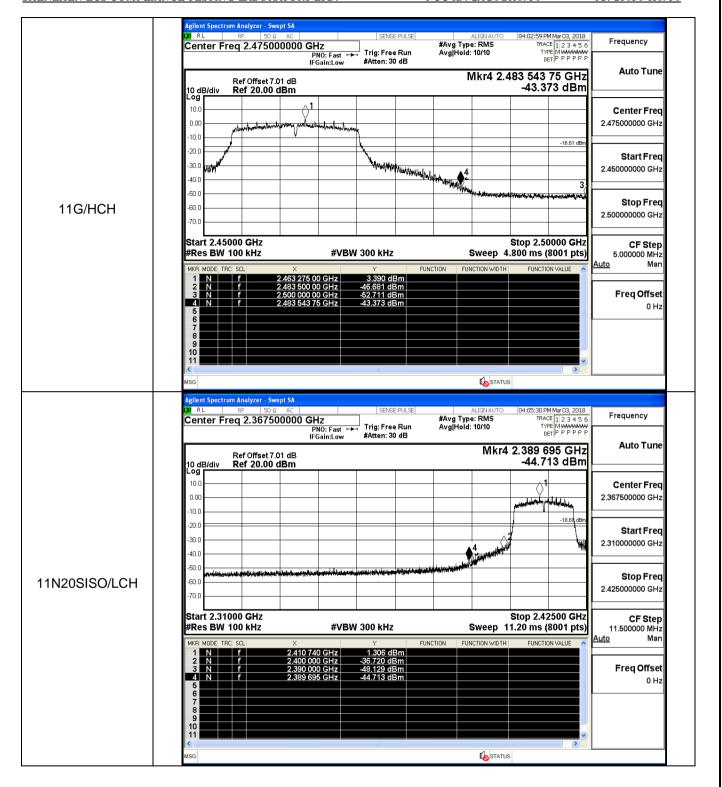


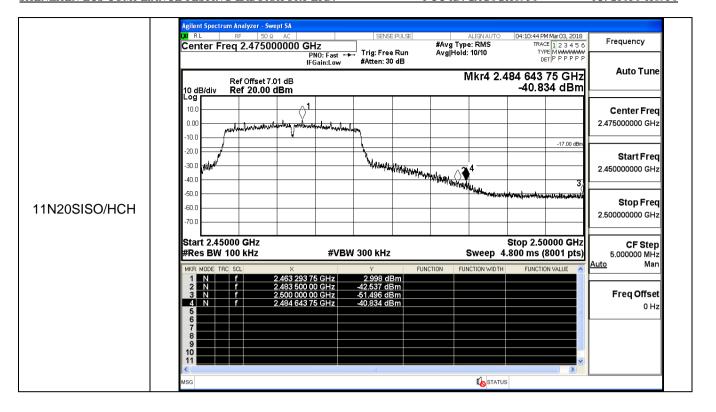
J.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
445	LCH	6.636	-47.371	-13.36	PASS
11B	HCH	6.363	-50.232	-13.64	PASS
11G	LCH	2.005	-45.587	-18.00	PASS
	HCH	3.390	-43.373	-16.61	PASS
11N20SISO	LCH	1.306	-44.713	-18.69	PASS
	HCH	2.998	-40.834	-17.00	PASS





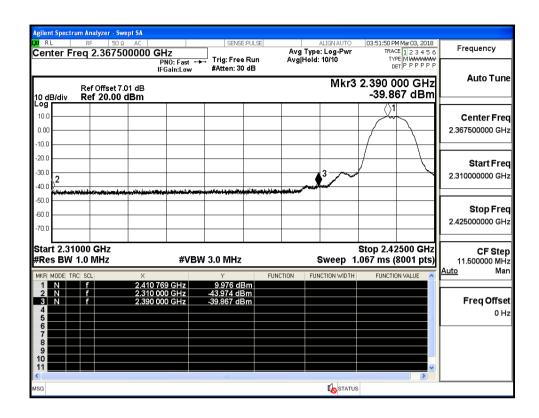




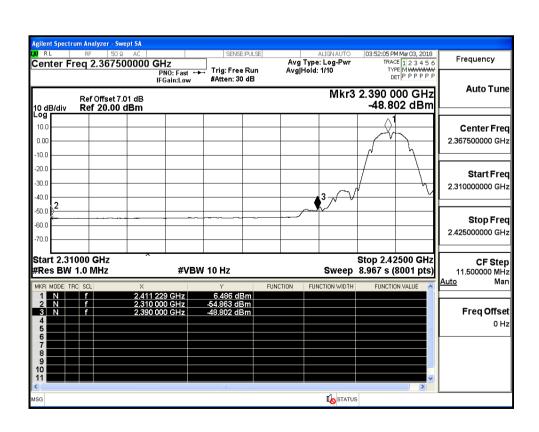
J.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	2412	Ant1	2310.0	-43.97	3.0	0	54.26	PEAK	74	PASS
	2412	Ant1	2310.0	-54.86	3.0	0	43.37	AV	54	PASS
	2412	Ant1	2390.0	-39.87	3.0	0	58.36	PEAK	74	PASS
	2412	Ant1	2390.0	-48.80	3.0	0	49.43	AV	54	PASS
11B	2462	Ant1	2483.5	-43.51	3.0	0	54.72	PEAK	74	PASS
	2462	Ant1	2483.5	-53.20	3.0	0	45.03	AV	54	PASS
	2462	Ant1	2500.0	-44.25	3.0	0	53.98	PEAK	74	PASS
	2462	Ant1	2500.0	-53.87	3.0	0	44.36	AV	54	PASS
	2412	Ant1	2310.0	-44.06	3.0	0	54.17	PEAK	74	PASS
	2412	Ant1	2310.0	-54.74	3.0	0	43.49	AV	54	PASS
	2412	Ant1	2390.0	-37.31	3.0	0	60.92	PEAK	74	PASS
_	2412	Ant1	2390.0	-49.10	3.0	0	49.13	AV	54	PASS
11G	2462	Ant1	2483.5	-31.42	3.0	0	66.81	PEAK	74	PASS
	2462	Ant1	2483.5	-47.49	3.0	0	50.74	AV	54	PASS
	2462	Ant1	2500.0	-41.09	3.0	0	57.14	PEAK	74	PASS
	2462	Ant1	2500.0	-52.31	3.0	0	45.92	AV	54	PASS
	2412	Ant1	2310.0	-45.25	3.0	0	52.98	PEAK	74	PASS
	2412	Ant1	2310.0	-54.77	3.0	0	43.46	AV	54	PASS
	2412	Ant1	2390.0	-35.11	3.0	0	63.12	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-48.05	3.0	0	50.18	AV	54	PASS
SISO	2462	Ant1	2483.5	-30.95	3.0	0	67.28	PEAK	74	PASS
	2462	Ant1	2483.5	-45.61	3.0	0	52.62	AV	54	PASS
	2462	Ant1	2500.0	-40.42	3.0	0	57.81	PEAK	74	PASS
	2462	Ant1	2500.0	-52.26	3.0	0	45.97	AV	54	PASS

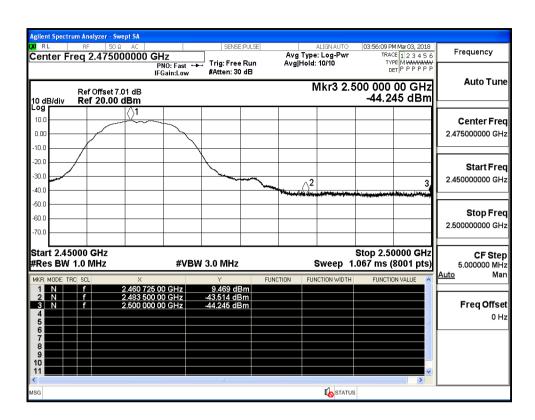
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



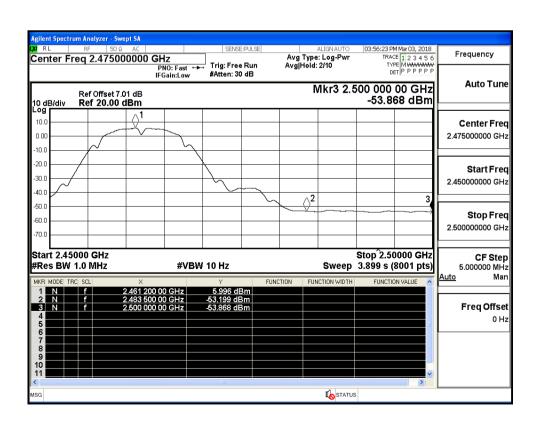
Restrict-band band-edge measurements_11B_2412_Ant1_AV



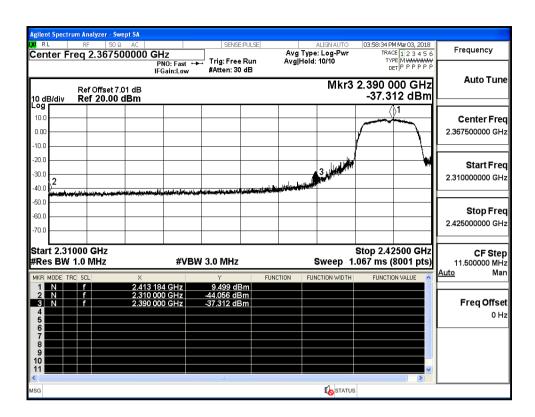
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



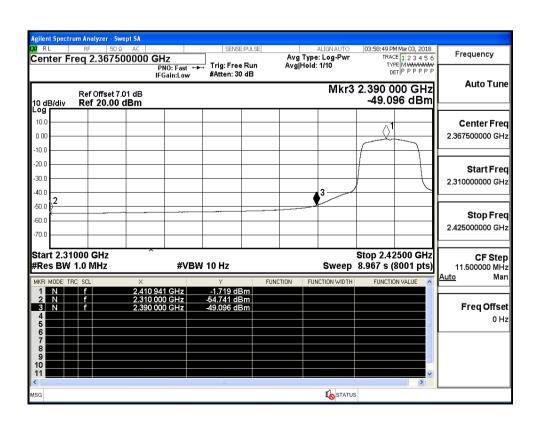
Restrict-band band-edge measurements_11B_2462_Ant1_AV



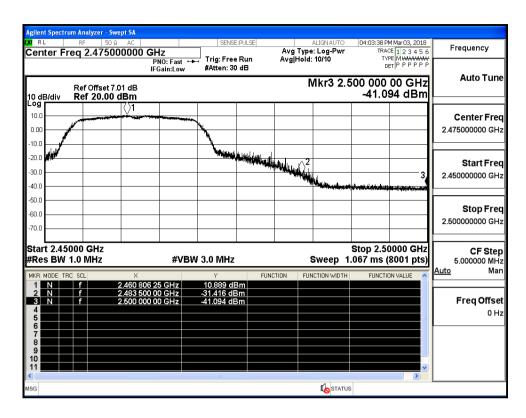
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



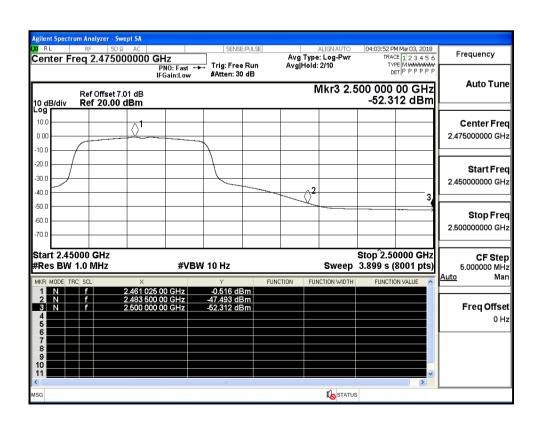
Restrict-band band-edge measurements_11G_2412_Ant1_AV



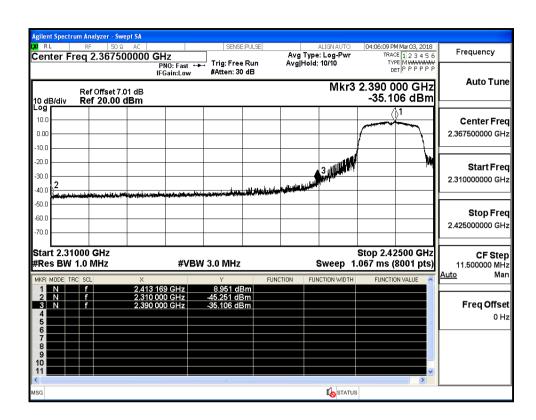
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



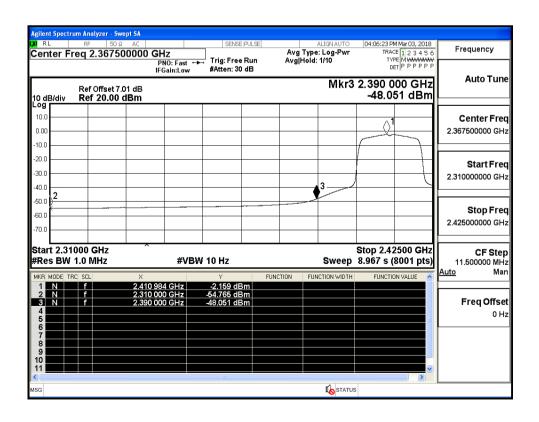
Restrict-band band-edge measurements_11G_2462_Ant1_AV



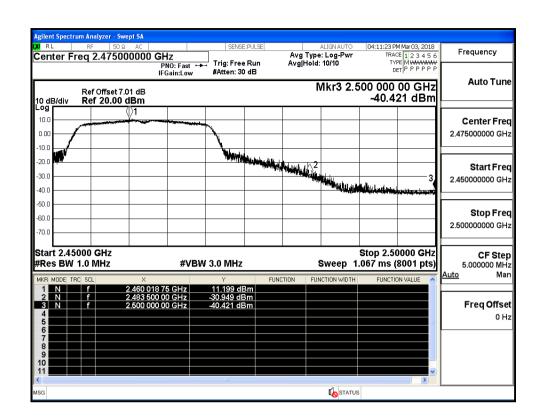
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

