Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

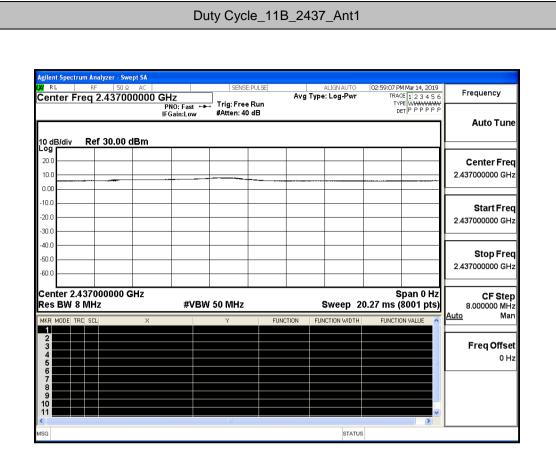
Product Name: POS Terminal Test Model: P90

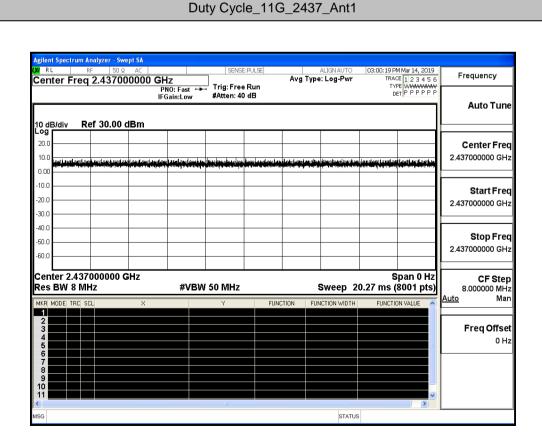
Environmental Conditions

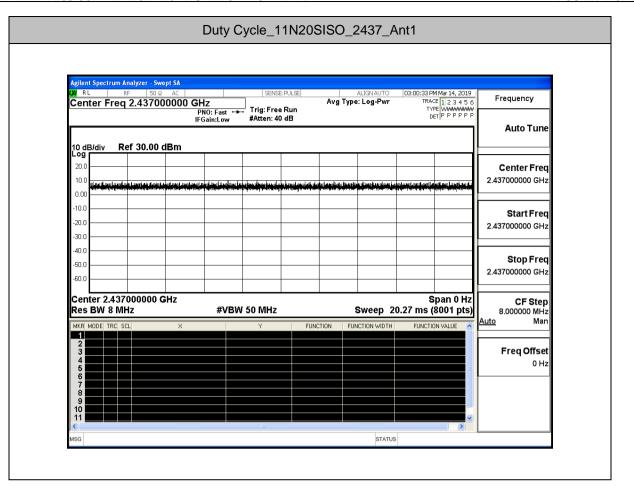
Temperature:	24.5 ° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Tom Liu

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







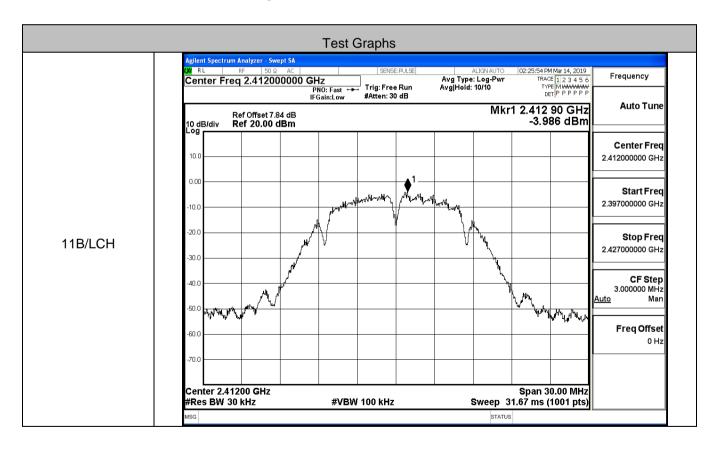
A.2 Maximum Conducted Output Power

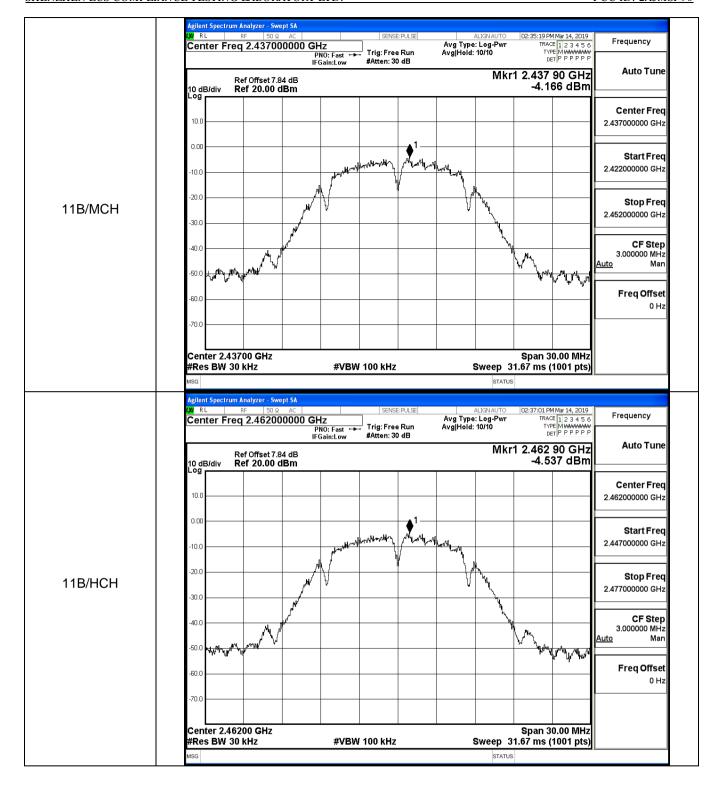
Mode	Channel	Meas. Peak Level	Meas. Average Level [dBm]	Limit [dBm]	Verdict
	LCH	14.01	11.86	30	PASS
11B	MCH	13.85	11.67 30		PASS
	HCH	13.47	11.30	30	PASS
	LCH	14.78	11.36	30	PASS
11G	MCH	13.75	10.41	30	PASS
	HCH	13.67	10.23	30	PASS
	LCH	12.45	8.97	30	PASS
11N20SISO	11N20SISO MCH		8.60	30	PASS
	HCH	12.14	8.59	30	PASS

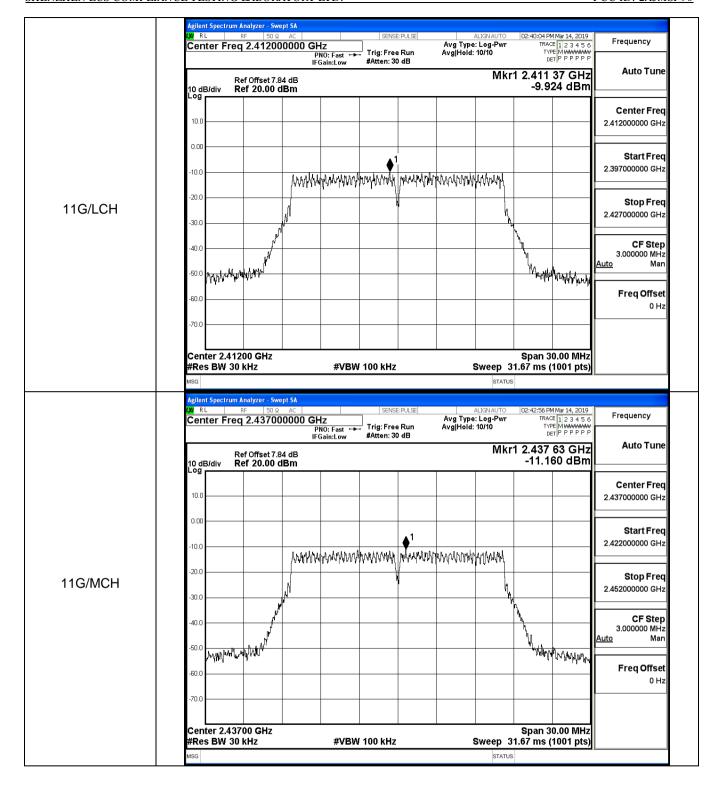
A.3 Maximum Power Spectral Density

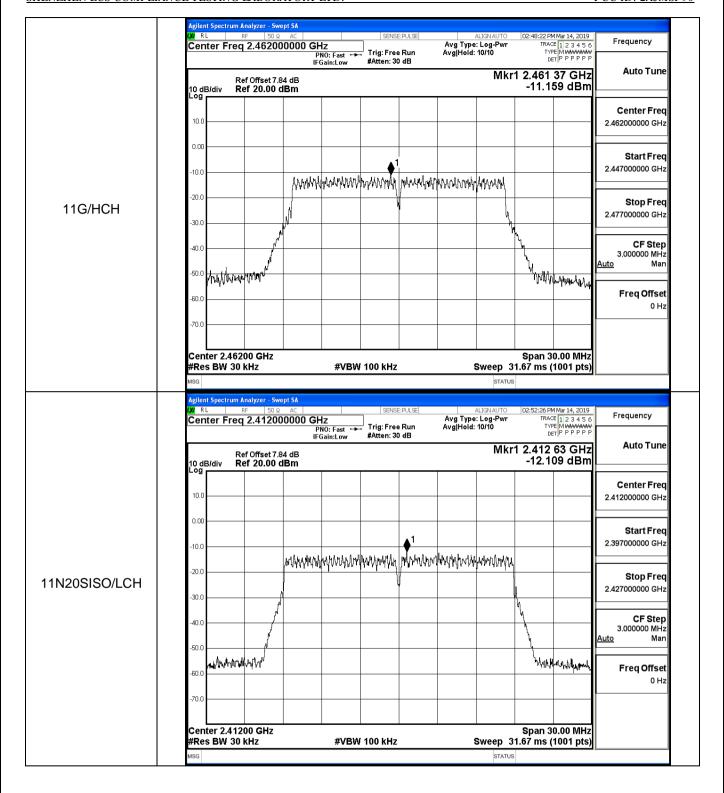
Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-3.986	-10	-13.986	8	PASS
11B	MCH	-4.166	-10	-14.166	8	PASS
	HCH	-4.537	-10	-14.537	8	PASS
	LCH	-9.924	-10	-19.924	8	PASS
11G	MCH	-11.160	-10	-21.160	8	PASS
	HCH	-11.159	-10	-21.159	8	PASS
11N20SISO	LCH	-12.109	-10	-22.109	8	PASS
	MCH	-12.599	-10	-22.599	8	PASS
	HCH	-12.492	-10	-22.492	8	PASS

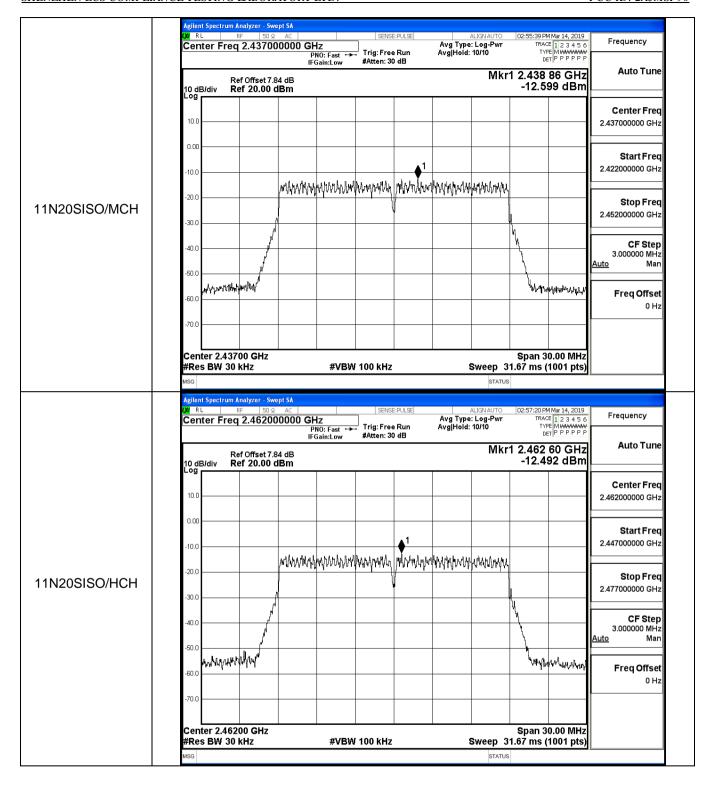
***Note: The Convert Factor = $10*\log(3KHz/30KHz) = -10$





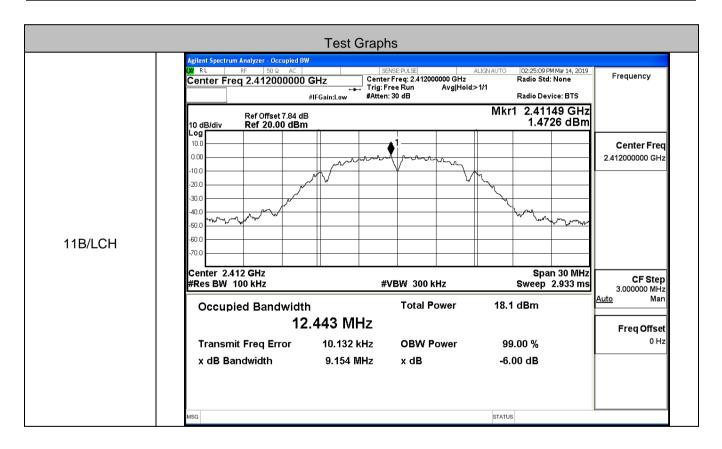


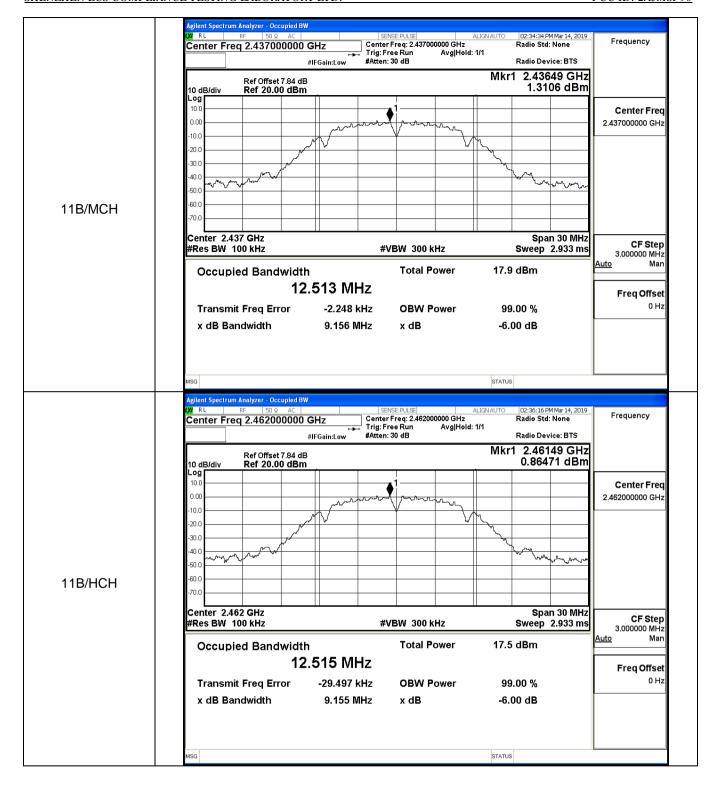


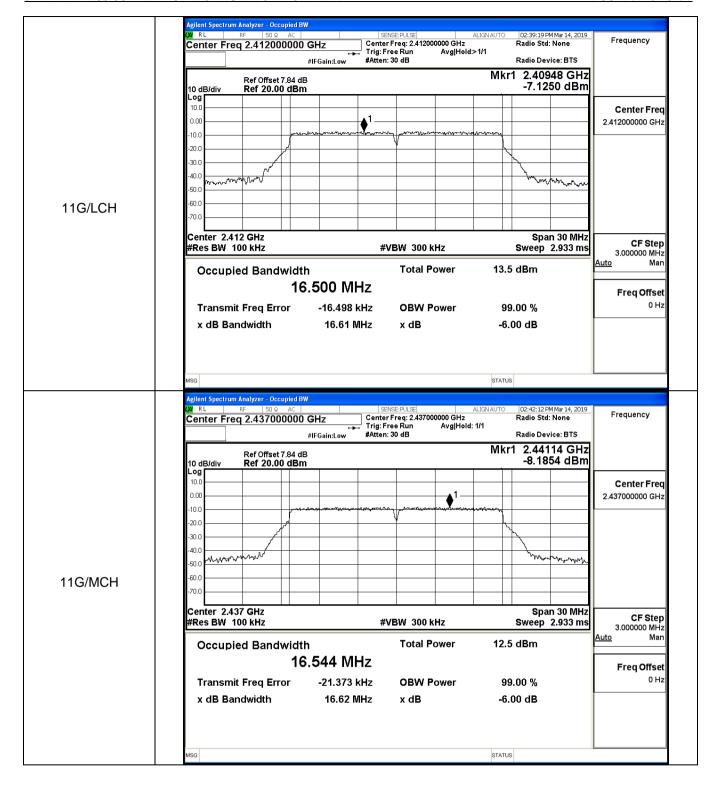


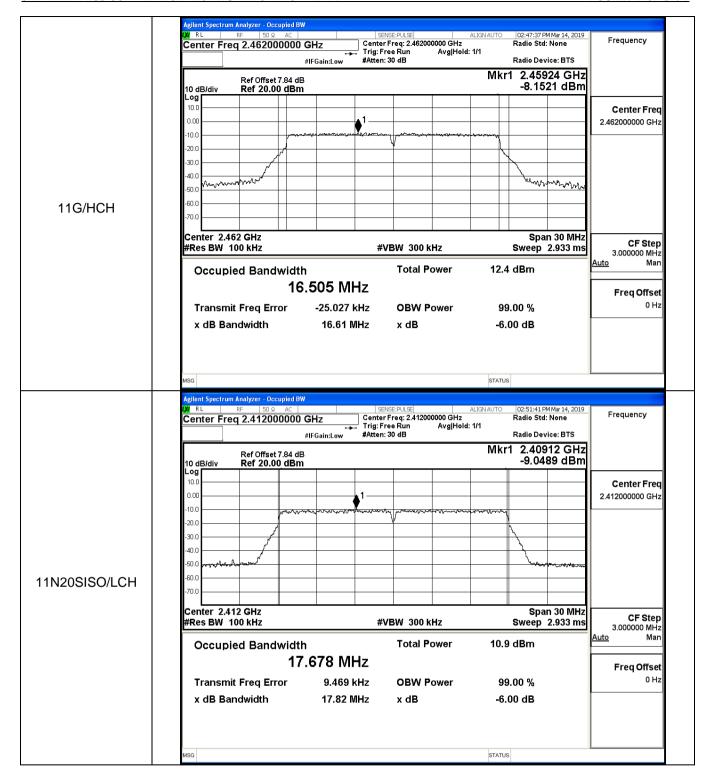
A.4 6dB Bandwidth

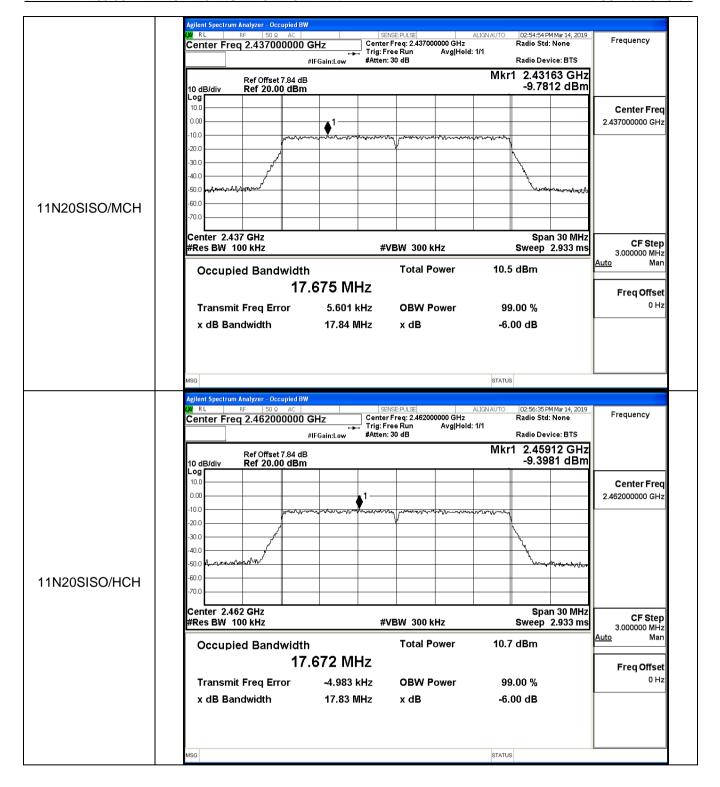
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.154	≥0.5	PASS
11B	MCH	9.156	≥0.5	PASS
	HCH	9.155	≥0.5	PASS
	LCH	16.61	≥0.5	PASS
11G	MCH	16.62	≥0.5	PASS
	HCH	16.61	≥0.5	PASS
	LCH	17.82	≥0.5	PASS
11N20SISO	1N20SISO MCH 17.84		≥0.5	PASS
	HCH	17.83	≥0.5	PASS





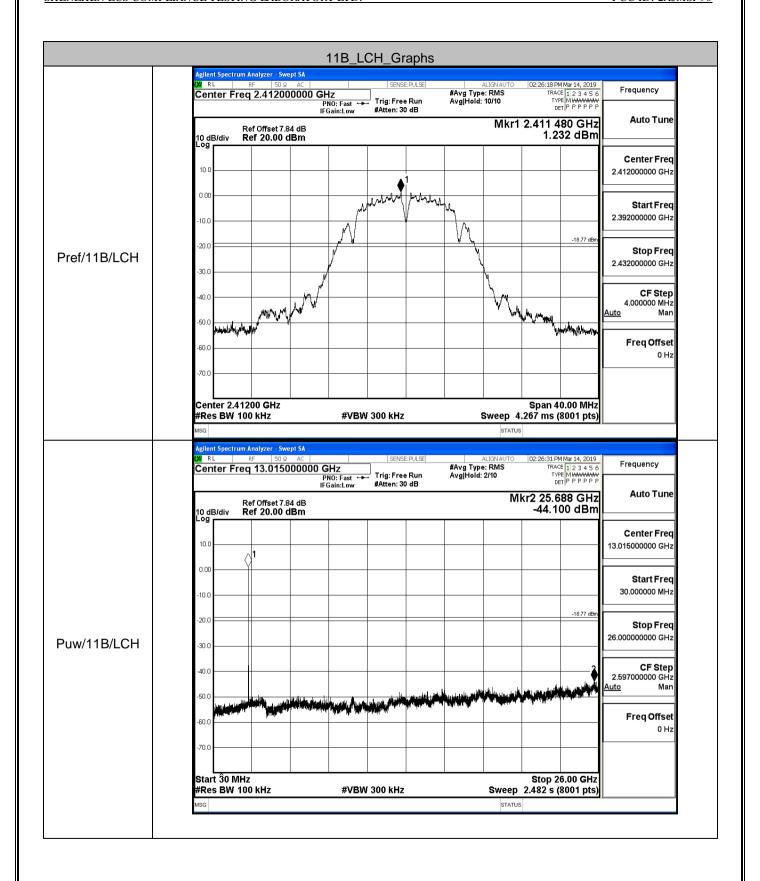


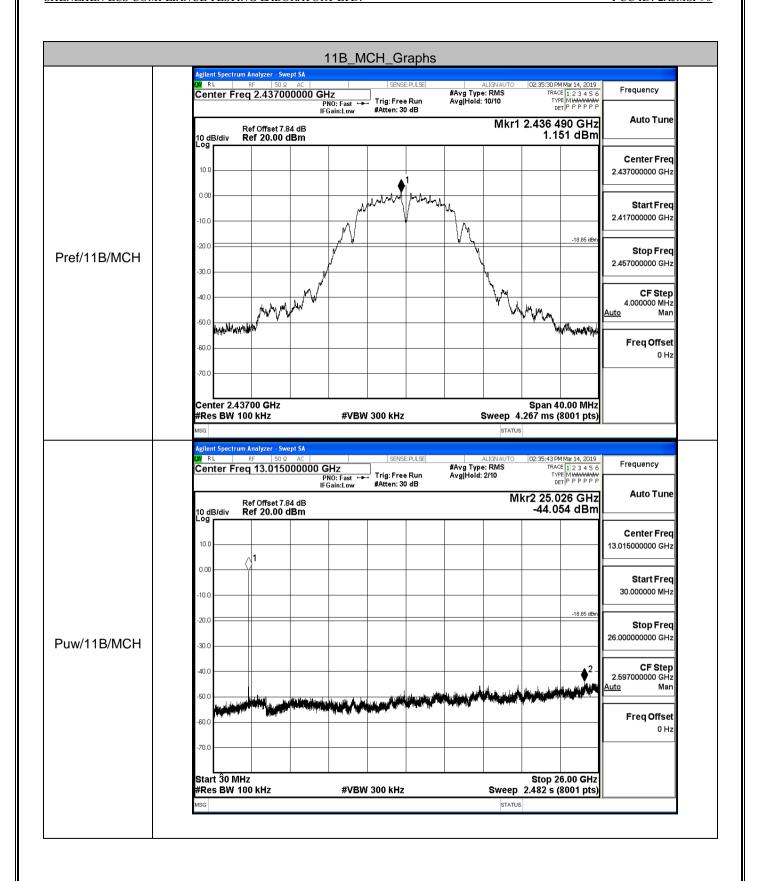


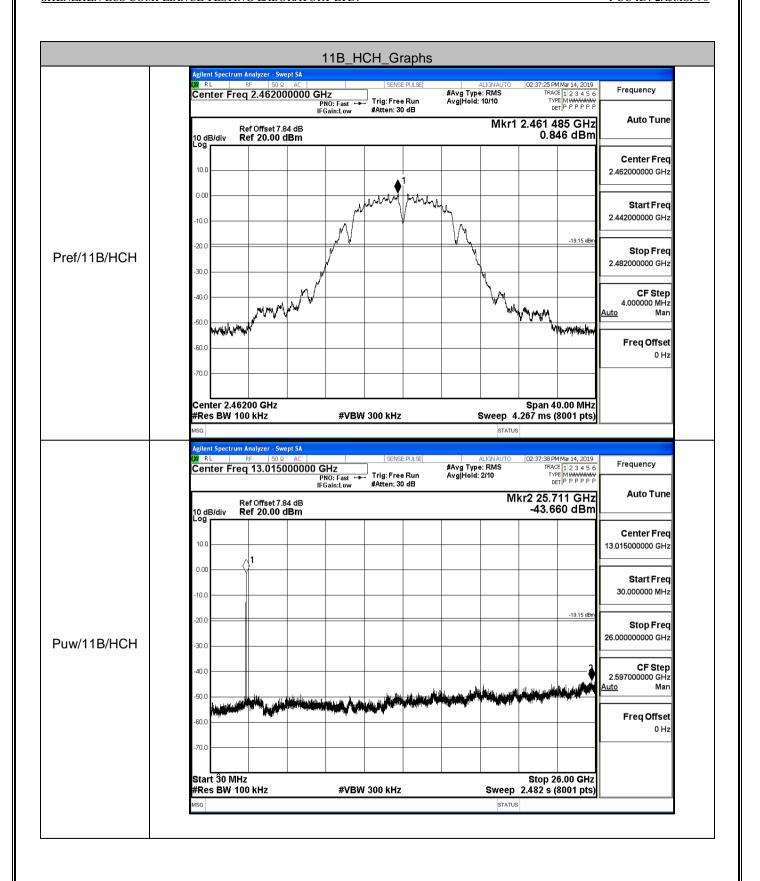


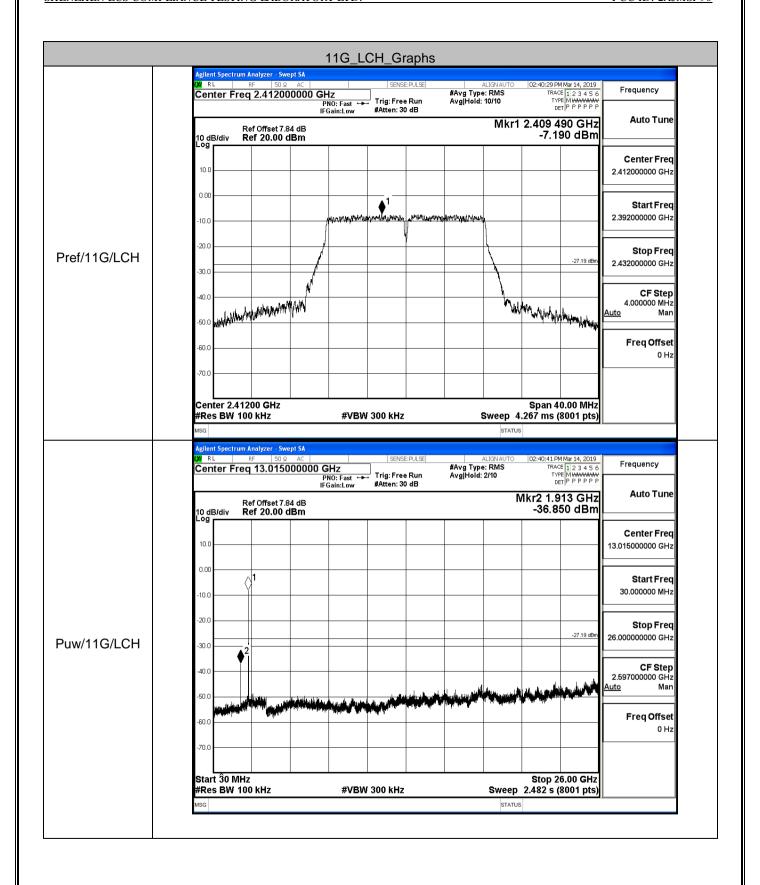
A.5 RF Conducted Spurious Emissions

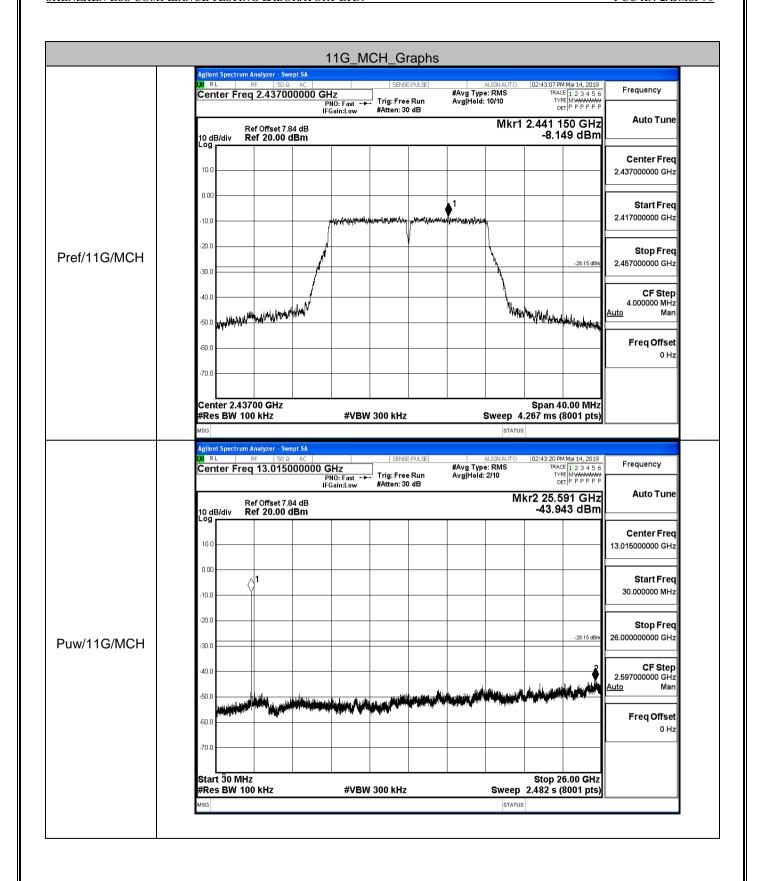
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	1.232	-44.100	-18.768	PASS
11B	MCH	1.151	-44.054	-18.849	PASS
	HCH	0.846	-43.660	-19.154	PASS
	LCH	-7.19	-36.850	-27.190	PASS
11G	MCH	-8.149	-43.943	-28.149	PASS
	HCH	-8.384	-42.995	-28.384	PASS
	LCH	-9.14	-43.871	-29.140	PASS
11N20	MCH -9.669		-44.226	-29.669	PASS
SISO	HCH	-9.593	-44.286	-29.593	PASS

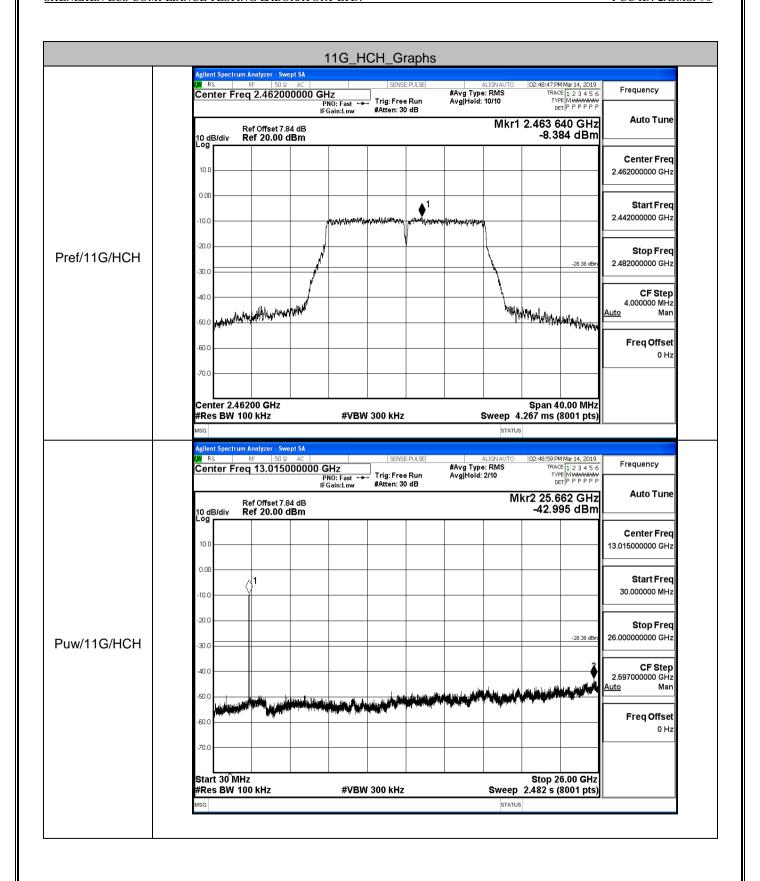


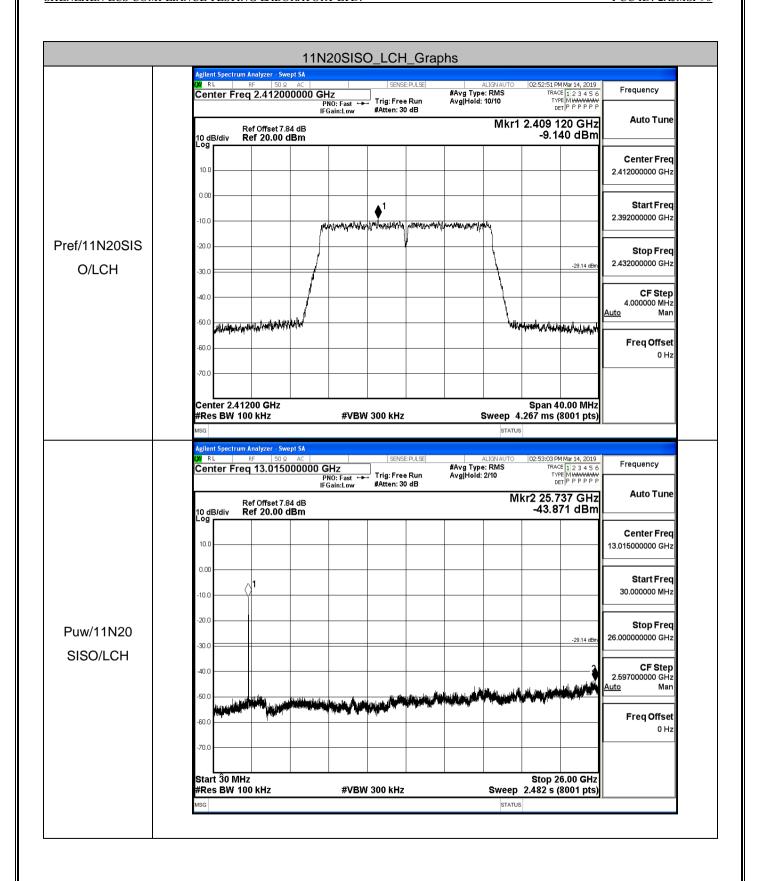


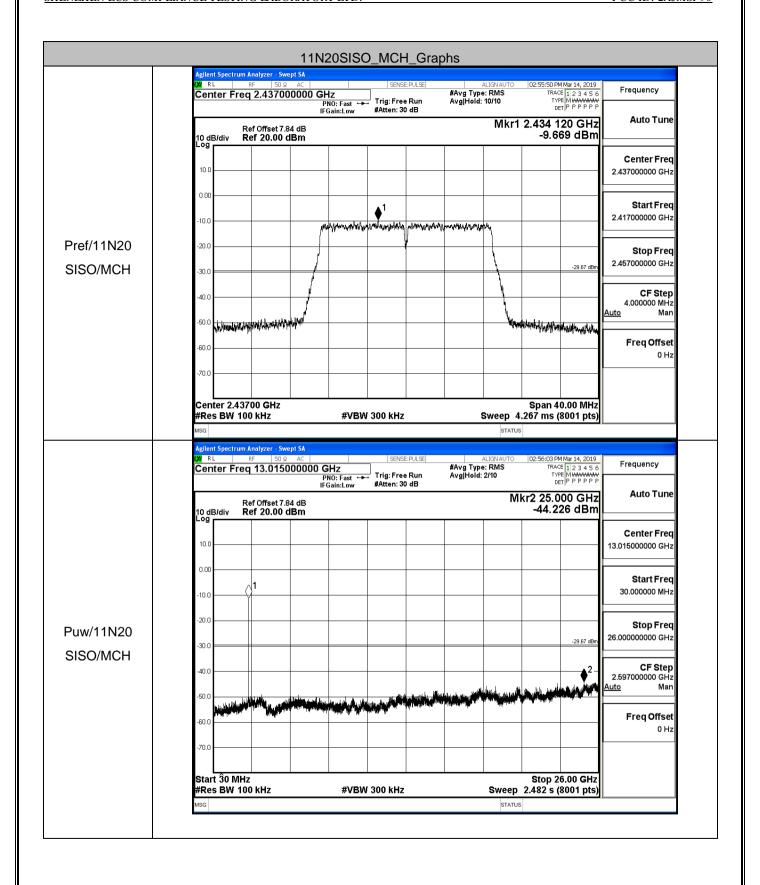


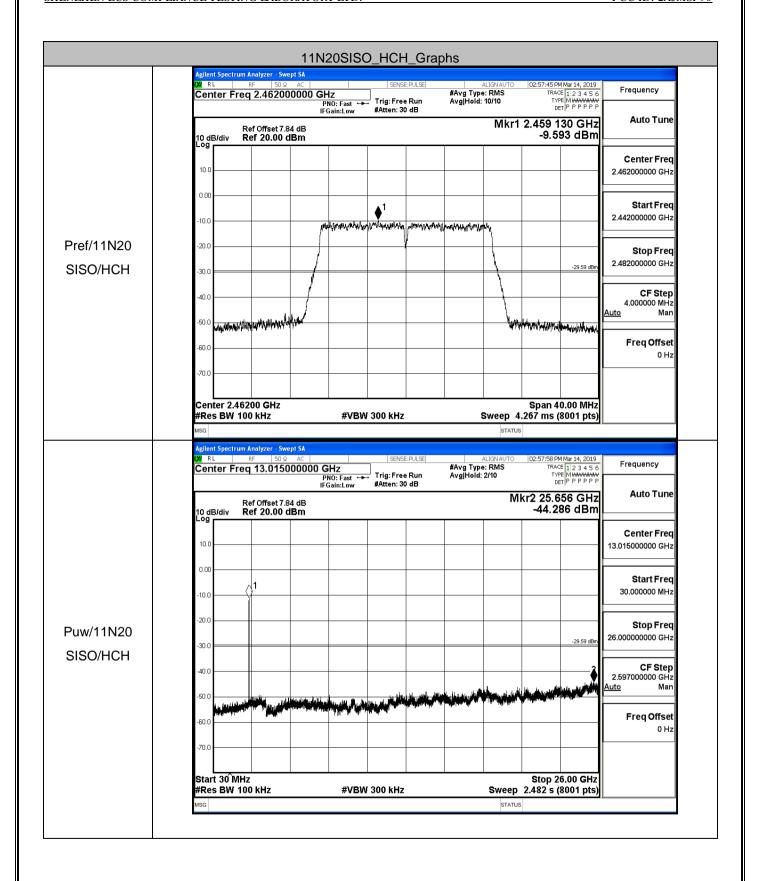






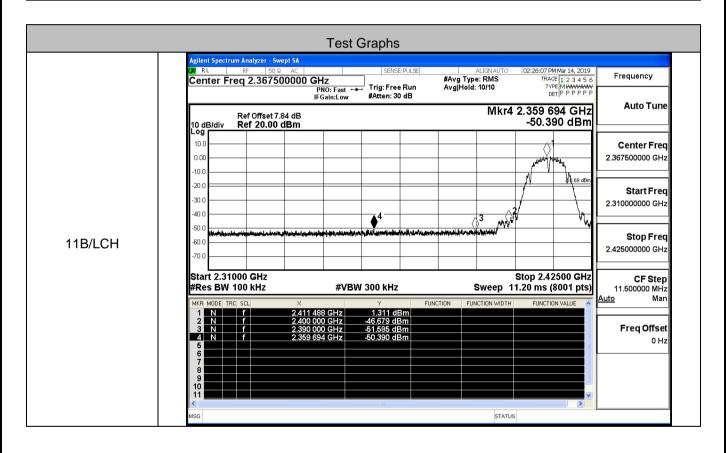


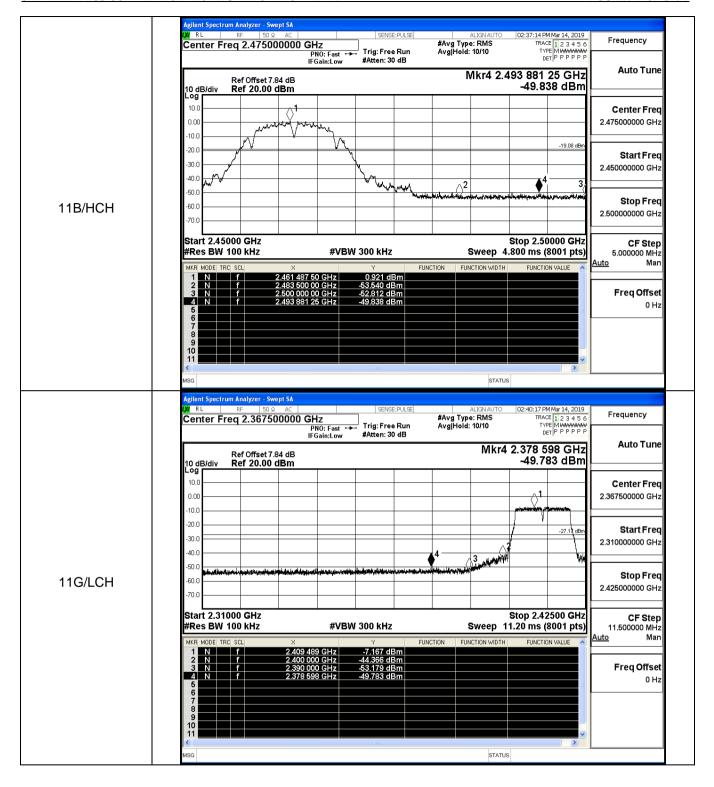


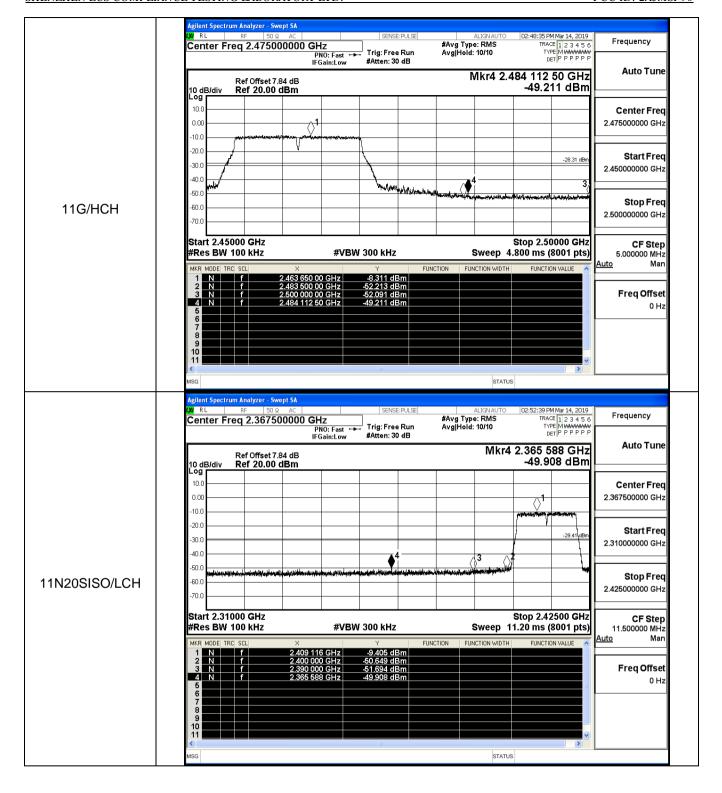


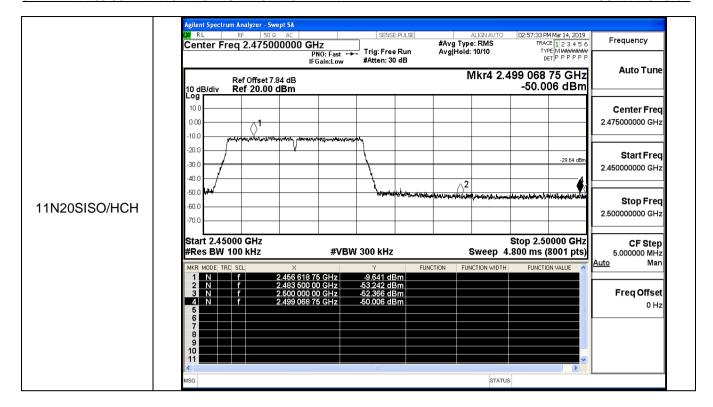
A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
	LCH	1.311	-50.390	-18.69	PASS
11B	HCH	0.921	-49.838	-19.08	PASS
	LCH	-7.167	-49.783	-27.17	PASS
11G	HCH	-8.311	-49.211	-28.31	PASS
	LCH	-9.405	-49.908	-29.41	PASS
11N20SISO	HCH	-9.641	-50.006	-29.64	PASS



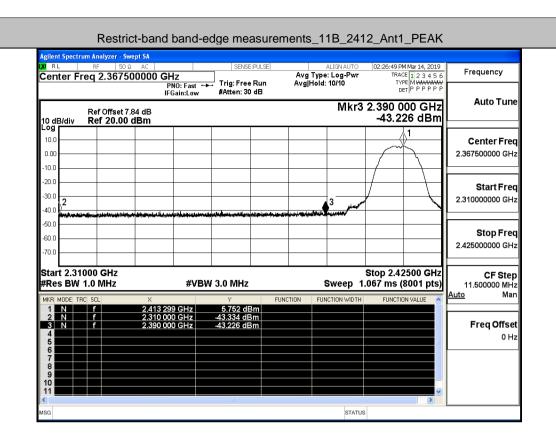




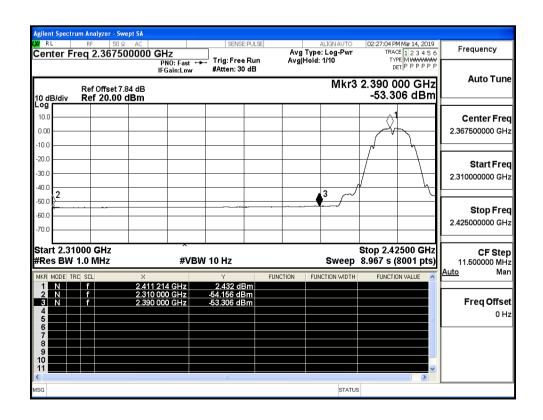


A.7 Restrict-band band-edge measurements

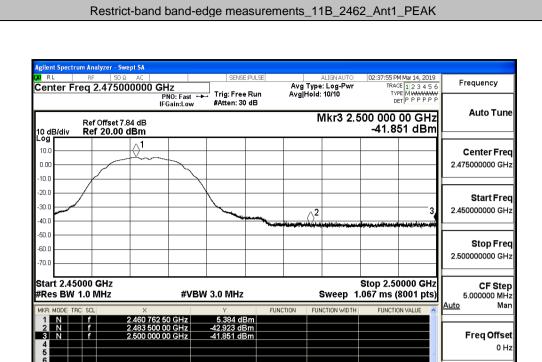
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-43.33	2.0	0	53.92	PEAK	74	PASS
	2412	Ant1	2310.0	-54.16	2.0	0	43.10	AV	54	PASS
	2412	Ant1	2390.0	-43.23	2.0	0	54.03	PEAK	74	PASS
	2412	Ant1	2390.0	-53.31	2.0	0	43.95	AV	54	PASS
11B	2462	Ant1	2483.5	-42.92	2.0	0	54.33	PEAK	74	PASS
	2462	Ant1	2483.5	-53.26	2.0	0	44.00	AV	54	PASS
	2462	Ant1	2500.0	-41.85	2.0	0	55.41	PEAK	74	PASS
	2462	Ant1	2500.0	-53.42	2.0	0	43.84	AV	54	PASS
	2412	Ant1	2310.0	-43.96	2.0	0	53.29	PEAK	74	PASS
	2412	Ant1	2310.0	-54.14	2.0	0	43.12	AV	54	PASS
	2412	Ant1	2390.0	-40.98	2.0	0	56.28	PEAK	74	PASS
	2412	Ant1	2390.0	-52.21	2.0	0	45.05	AV	54	PASS
11G	2462	Ant1	2483.5	-42.10	2.0	0	55.16	PEAK	74	PASS
	2462	Ant1	2483.5	-52.43	2.0	0	44.82	AV	54	PASS
	2462	Ant1	2500.0	-42.90	2.0	0	54.36	PEAK	74	PASS
	2462	Ant1	2500.0	-53.02	2.0	0	44.24	AV	54	PASS
	2412	Ant1	2310.0	-43.11	2.0	0	54.15	PEAK	74	PASS
	2412	Ant1	2310.0	-54.20	2.0	0	43.06	AV	54	PASS
	2412	Ant1	2390.0	-43.10	2.0	0	54.16	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-53.18	2.0	0	44.08	AV	54	PASS
SISO	2462	Ant1	2483.5	-42.57	2.0	0	54.69	PEAK	74	PASS
	2462	Ant1	2483.5	-53.02	2.0	0	44.24	AV	54	PASS
	2462	Ant1	2500.0	-42.94	2.0	0	54.32	PEAK	74	PASS
	2462	Ant1	2500.0	-53.25	2.0	0	44.01	AV	54	PASS



Restrict-band band-edge measurements_11B_2412_Ant1_AV

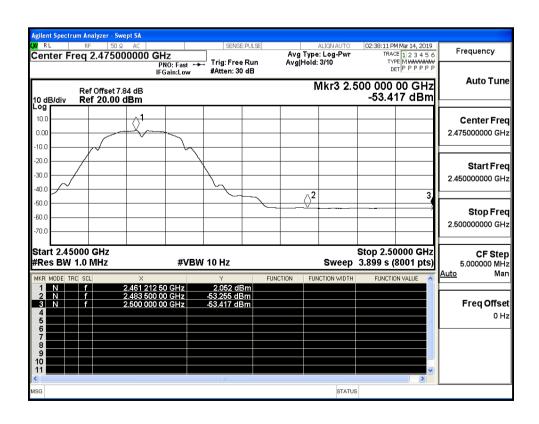


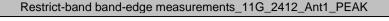
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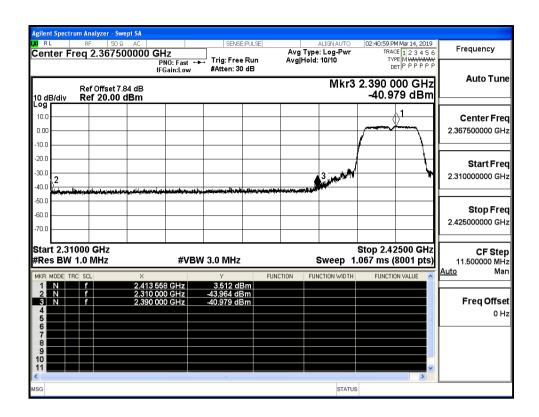


Restrict-band band-edge measurements_11B_2462_Ant1_AV

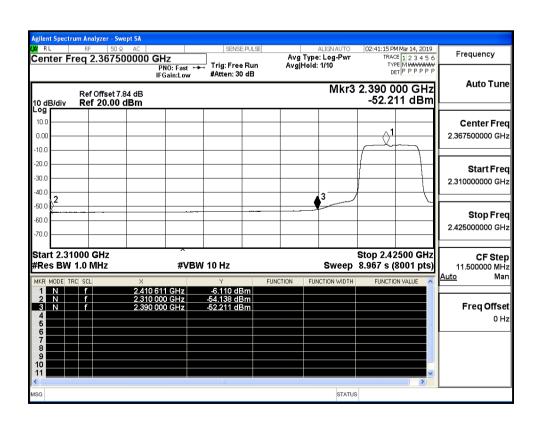
STATUS

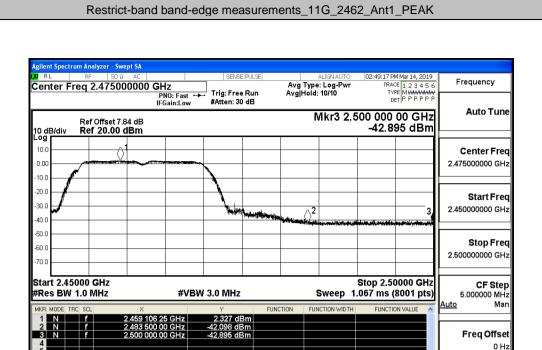






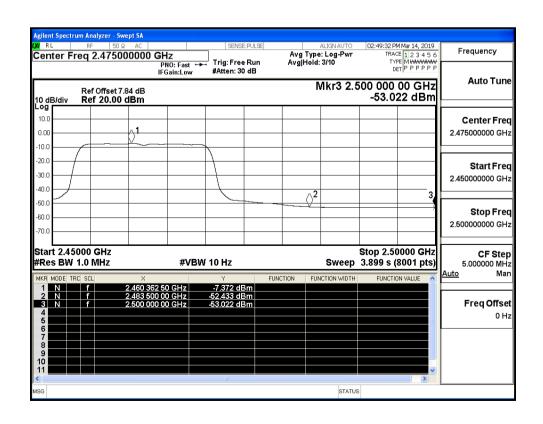
Restrict-band band-edge measurements_11G_2412_Ant1_AV

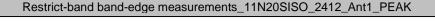


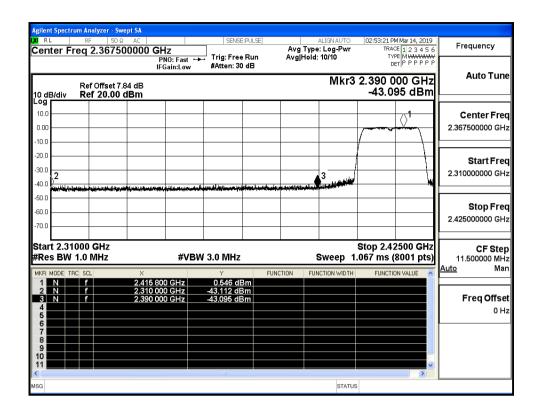


Restrict-band band-edge measurements_11G_2462_Ant1_AV

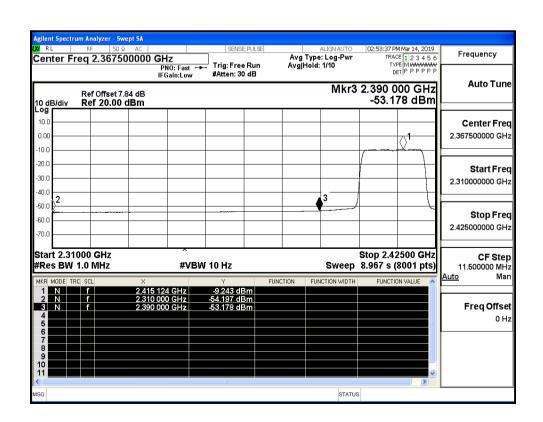
STATUS

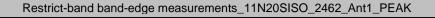


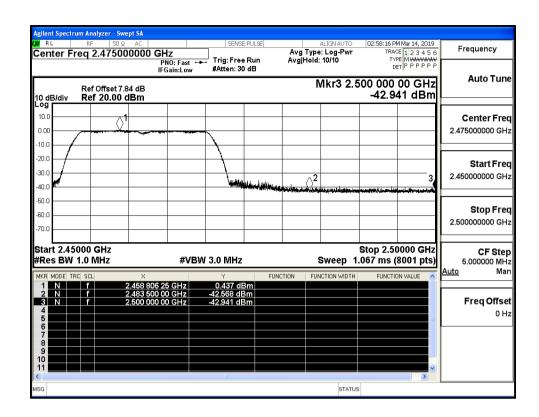




Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV







Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

